

HALLIBURTON

SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY

COMPANY BRIDGE ENERGY INC
WELL STATE 1 - 17
FIELD WILDCAT
COUNTY PAYETTE
STATE IDAHO

COMPANY BRIDGE ENERGY INC
WELL STATE 1 - 17
FIELD WILDCAT
COUNTY PAYETTE
STATE IDAHO

API No. 11075200050000
Location SURFACE HOLE LOCATION:
2388 FWL & 405' FNL NE NW

Other Services:
RWICH
BSAT

Sect. 17 Twp. 7N Rge. 4W
Elev. 2340.0 ft
Elev. K.B. 2352.0 ft
D.F. 2351.0 ft
G.L. 2340.0 ft

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Run No.	ONE
Date	28-Apr-10
Permanent Depth	GL
Log measured from	KB
Drilling measured from	KB
Depth - Driller	4520.00 ft
Depth - Logger	4518.0 ft
Bottom - Logger Interval	4515.0 ft
TOP - Logger Interval	100.0 ft
Casing - Driller	5.500 in @ 685.0 ft
Casing - Logger	678.0 ft @
Bit Size	8.750 in @
Type Fluid in Hole	WBM @
Density	10.4 ppg 48.00 s/qt
PH	8.50 pH 6.8 pptm
Source of Sample	MUD TANK
Rm @ Meas. Temperature	3.100 ohmm @ 57.70 degF @
Rmf @ Meas. Temperature	2.07 ohmm @ 53.30 degF @
Rmc @ Meas. Temperature	3.490 ohmm @ 55.00 degF @
Source Rmf	Rmc MEAS MEAS
Rm @ BHT	1.60 ohmm @ 208.0 degF @
Time Since Circulation	6.0 hr
Time on Bottom	28-Apr-10 05:59
Max. Rec. Temperature	208.0 degF @ 4518.0 ft @
Equipment Location	11170614 ROCK SPRING
Recorded By	J. MAYNE
Witnessed By	RON RICHARDS

Fold here

Service Ticket No.: 7335042		API Serial No.: 11075200050000		PGM Version: WLINSITE R3.0.3 (Build 5)			
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE				RESISTIVITY SCALE CHANGES			
Date	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole		
Depth-Driller							
Type Fluid in Hole							
Density	Viscosity						
Ph	Fluid Loss						
Source of Sample				RESISTIVITY EQUIPMENT DATA			
Rm @ Meas. Temp	@	@	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
Rmf @ Meas. Temp.	@	@	ONE	ACRT-	N/A	1.5" S.O.	N/A
Rmc @ Meas. Temp.	@	@		E104-S103			
Source Rmf	Rmc						
Rm @ BHT	@	@					
Rmf @ BHT	@	@					
Rmc @ BHT	@	@					
EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	11215095	Serial No.	10936067	Serial No.	11014271	Serial No.	10660047
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	N/A	Log Type	GAM/GAM	Log Type	THERM/THERM
Type	SCINT	LSA [Y/N]	N	Source Type	CS137	Source Type	Am241Be
Length	8"	FWDA [Y/N]	N	Serial No.	5235GW	Serial No.	08-018
Distance to Source	10'	Strength	1.5 Ci	Strength	15Ci	Strength	15Ci
LOGGING DATA							
GENERAL		GAMMA		ACOUSTIC		DENSITY	

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Run No.	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	4518'	100'	REC	200	0	40%	0%	55.5 usec/ft	40%	0%	2.68 g/cc	40%	0%	SAND

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DIRECTIONAL INFORMATION

Maximum Deviation @	KOP @
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Remarks: 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: 43.951
 LONGITUDE: -116.844

TODAY'S CREW: D. MILLER, J. DAVIS & P. RITZKIE RIG: ENSIGN 516
 *** THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, ROCK SPRINGS, WY (301) 352-8600 ***

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

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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	10.400	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	4520.00	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

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CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
Rwa / CrossPlot	ADP	Use Air Porosity to Calculate Crossplot? CONFIDENTIAL	No	
Rwa / CrossPlot	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_HAM_1_1710001 QUAD-BSATIDLE

Date: 28-Apr-10 06:45:25

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Plot Time: 28-Apr-10 08:39:09

Plot Range: 100 ft. to 4522.92 ft.

Data: BRIDGE_HAM_1_17 Well Based IAN?

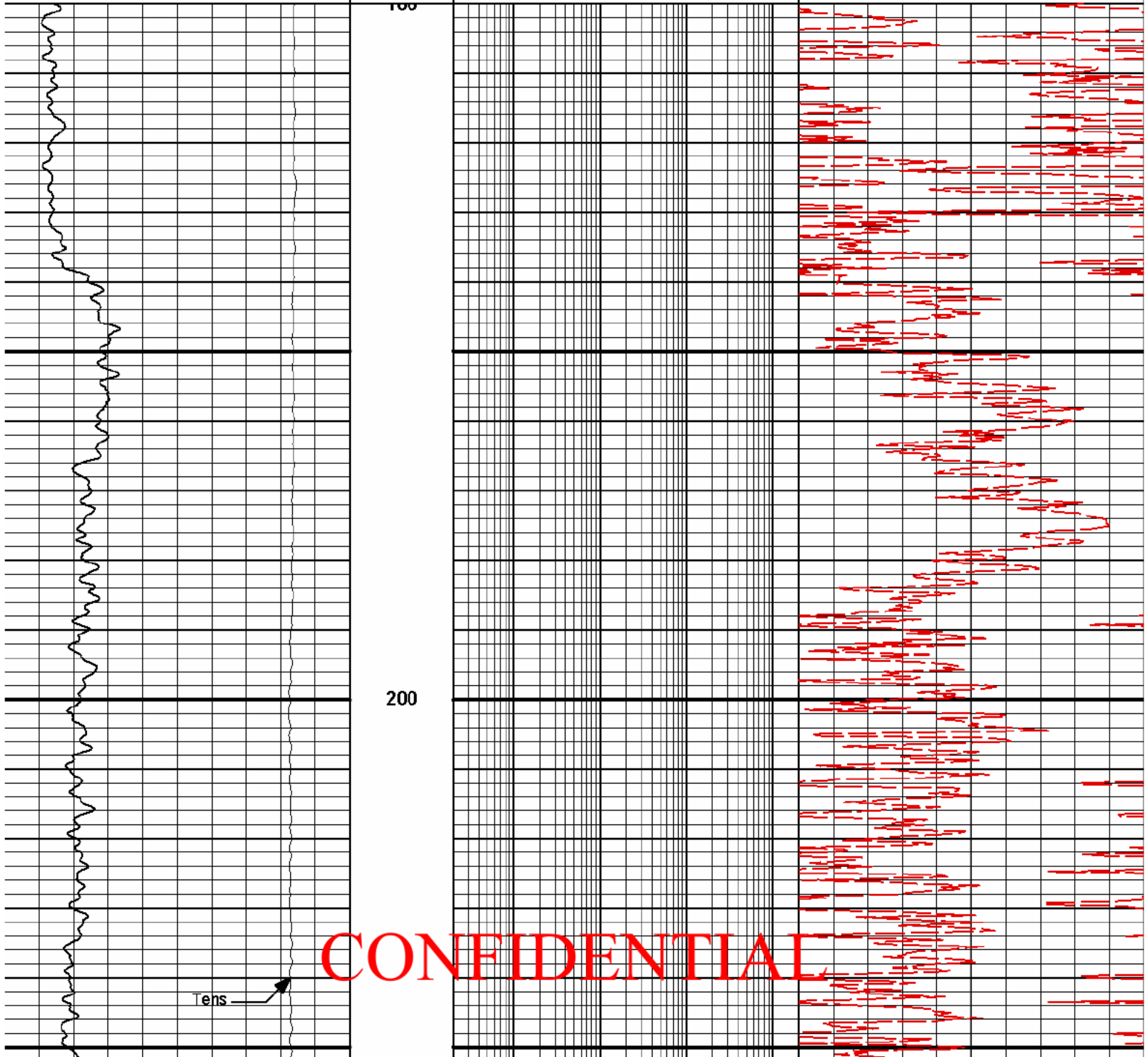
Plot File: Wplot saved\NO_OP_CONF\IT_E_ACRT_IN.DAT

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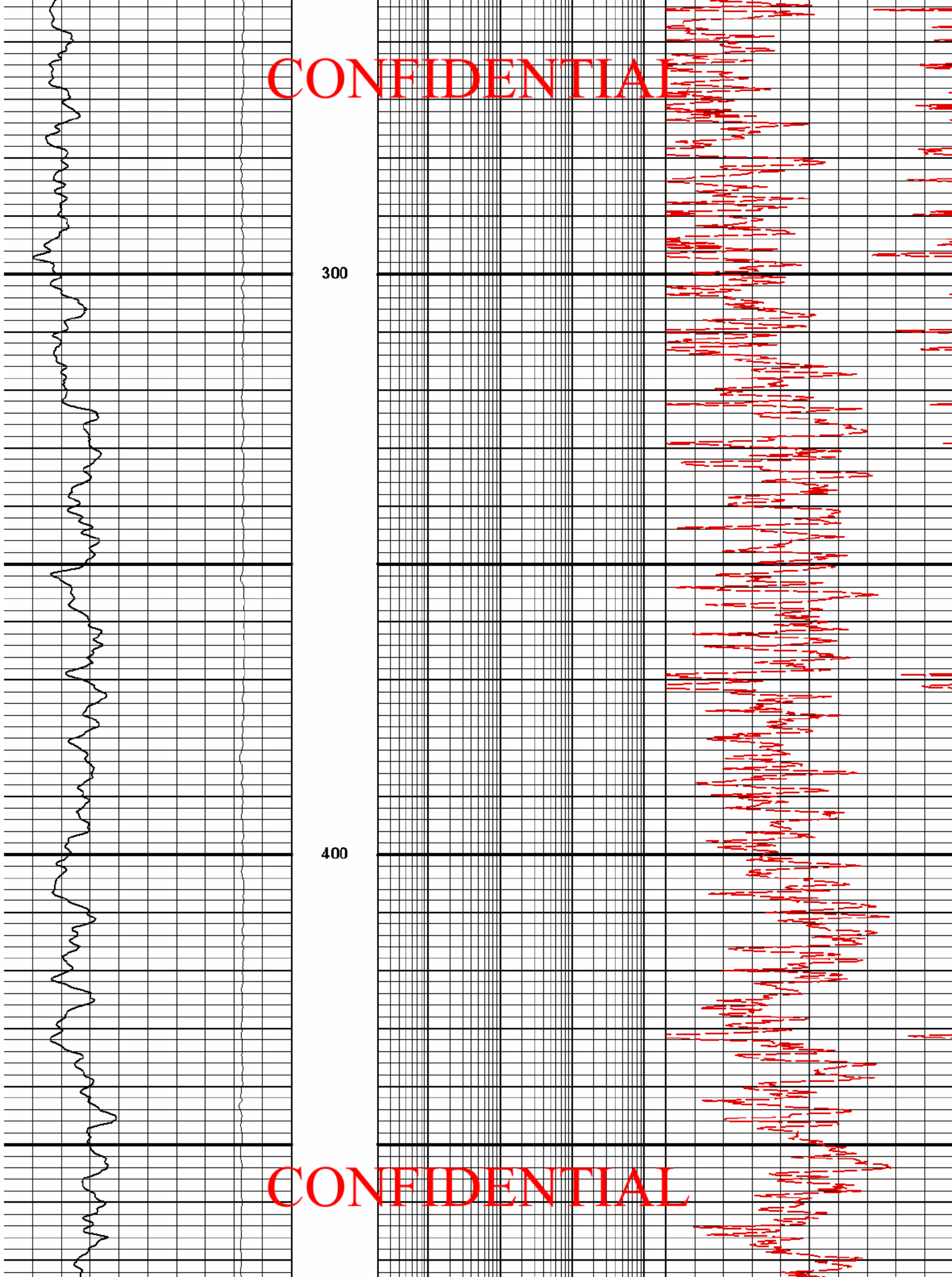
MAIN PASS 5" = 100'

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			0.2	RT10	2K	10K	DHTen	0
				Ohm-m			pounds	
10K	Tens	0	0.2	RT20	2K	40	Neutron Porosity	0
	pounds			Ohm-m			percent	
6	Caliper	16	0.2	RT30	2K	40	Density Porosity	0
	inches			Ohm-m			percent	
0	Gamma API	200	0.2	RT60	2K	0	Pe	10
	api			Ohm-m				
0	SP	100	0.2	RT90	2K	-0.25	Density Corr	0.25
	millivolts			Ohm-m			gram per cc	



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Tens

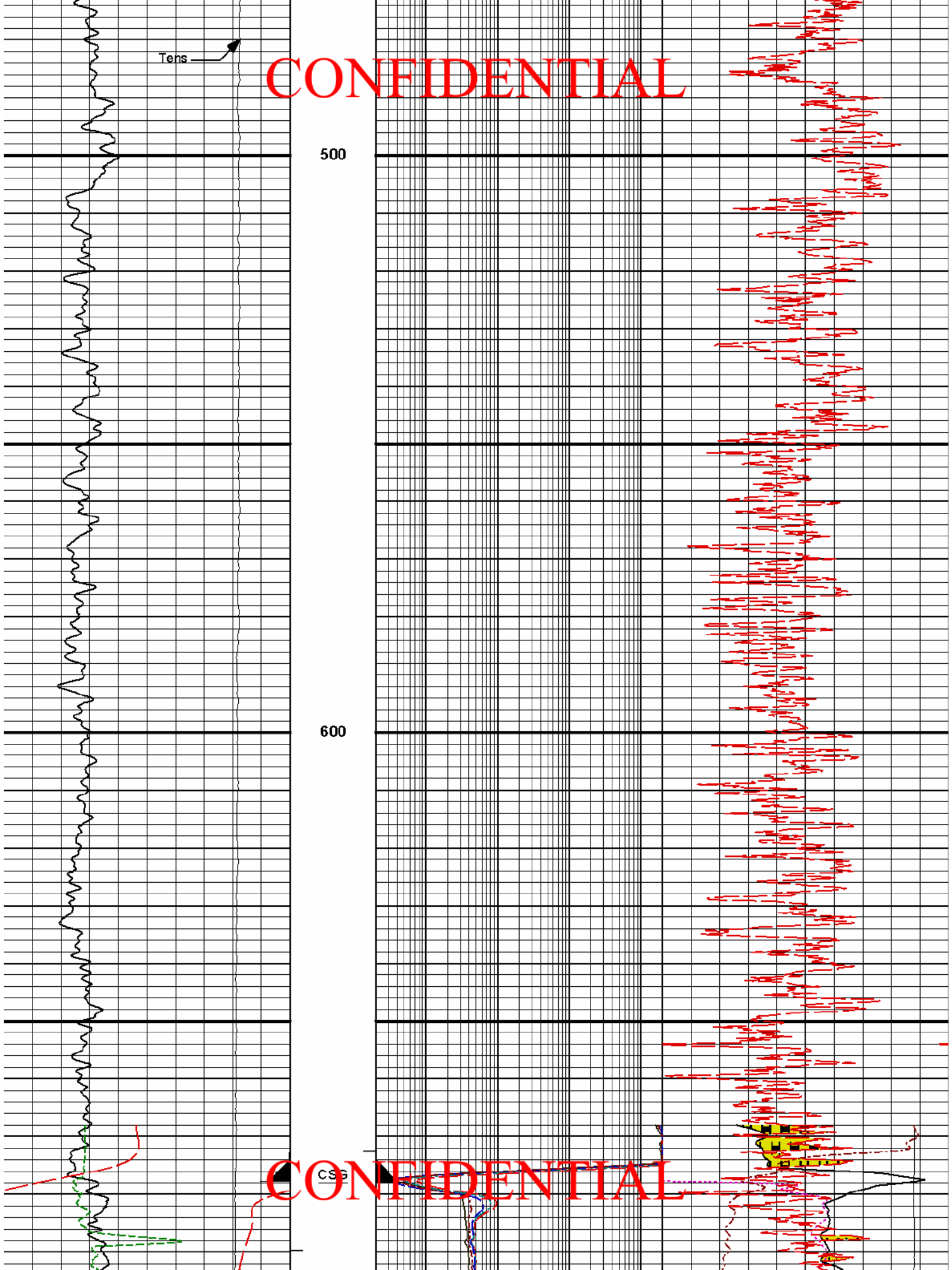
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500

600

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CSB



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Tens

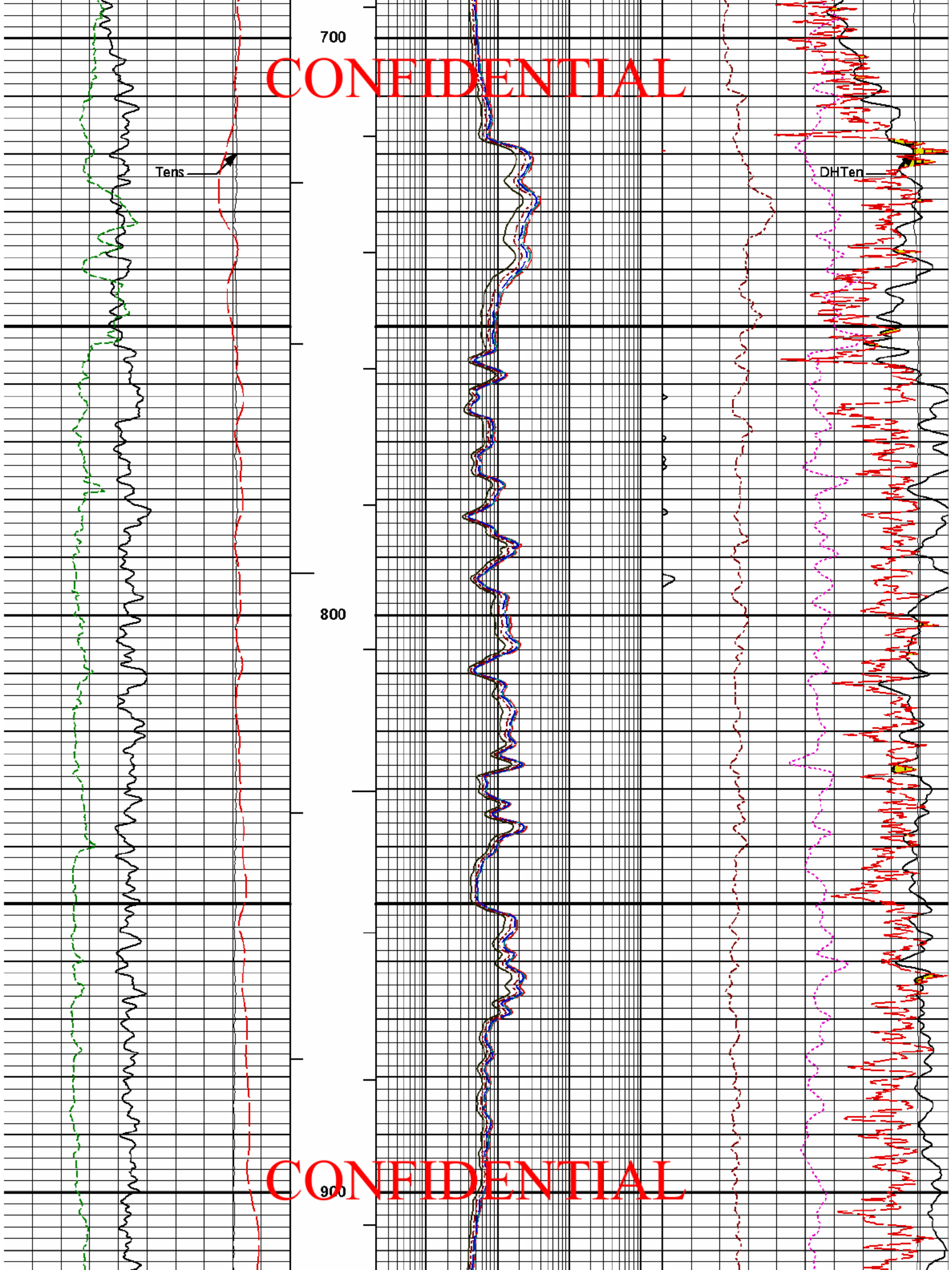
DHTen

700

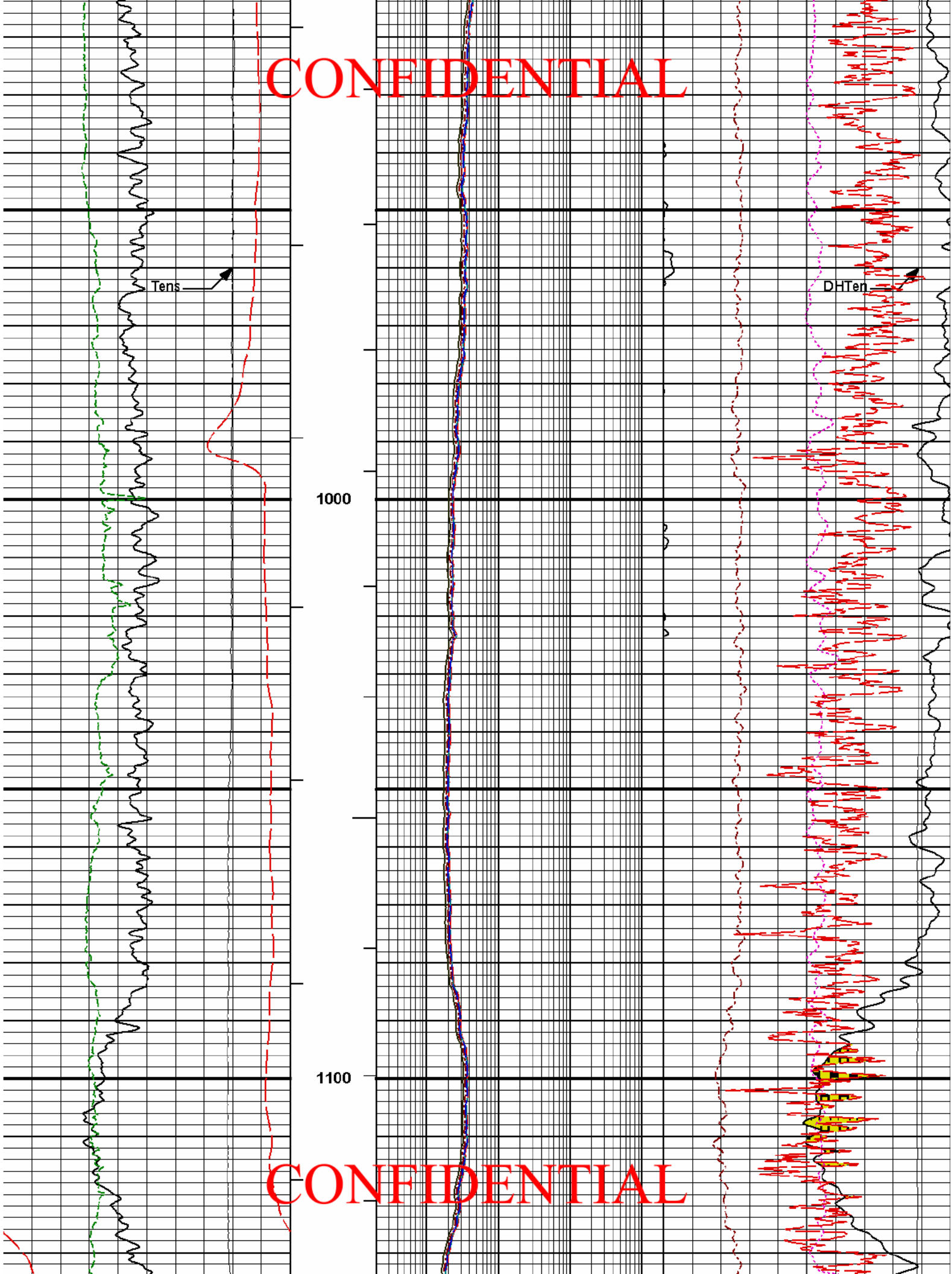
800

900

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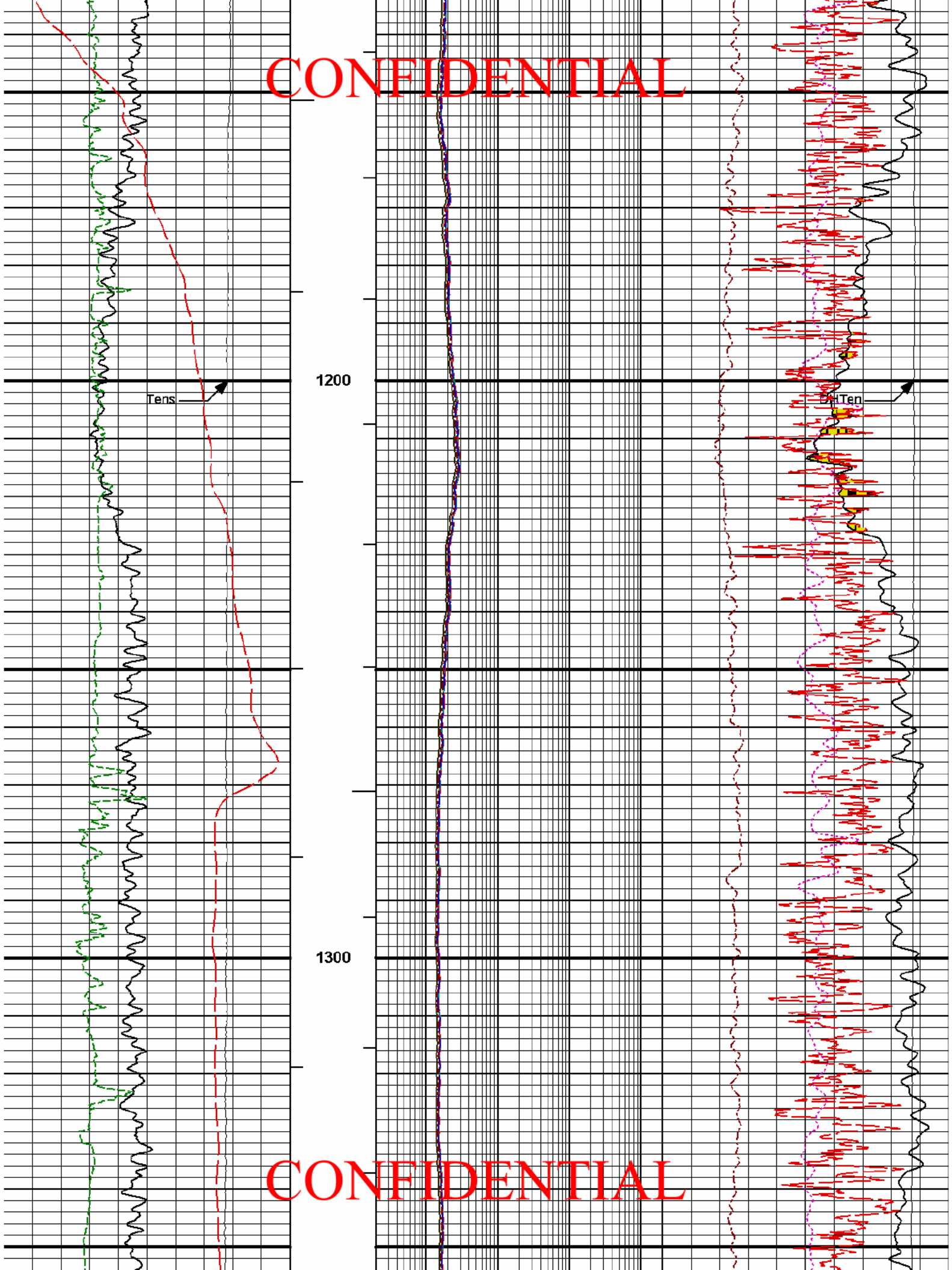


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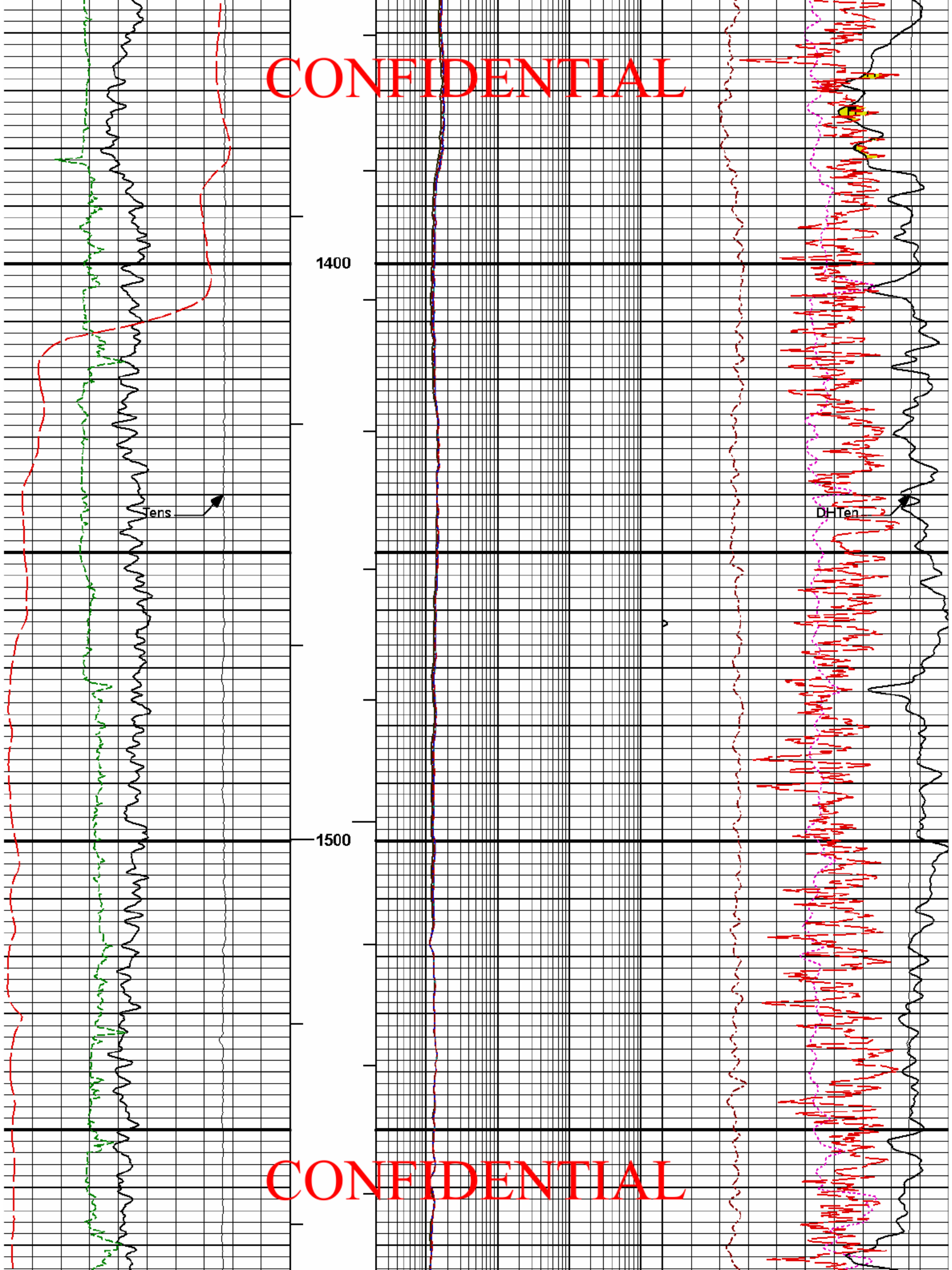


1200

1300

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1400

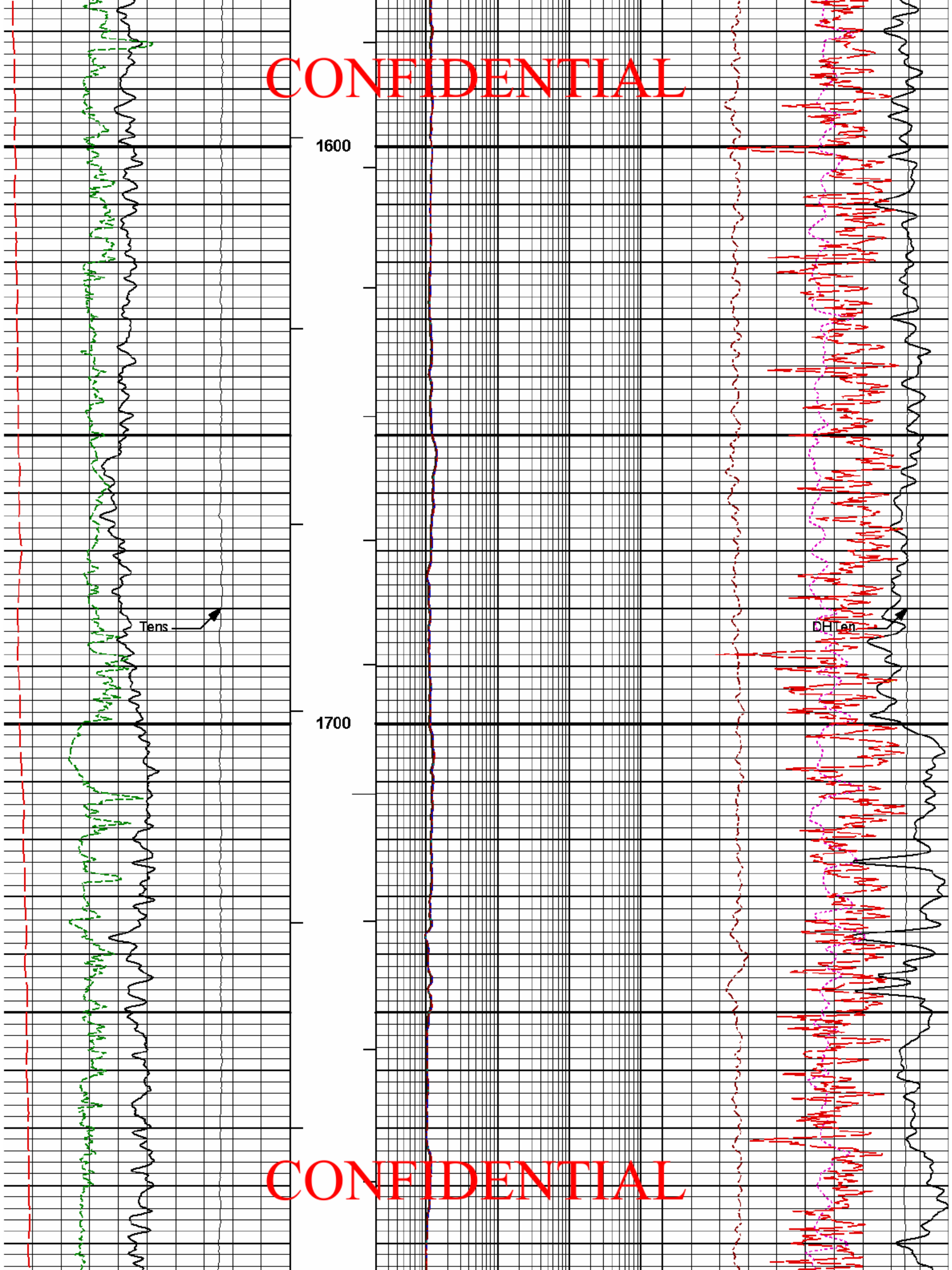
1500

ens

DH Ten

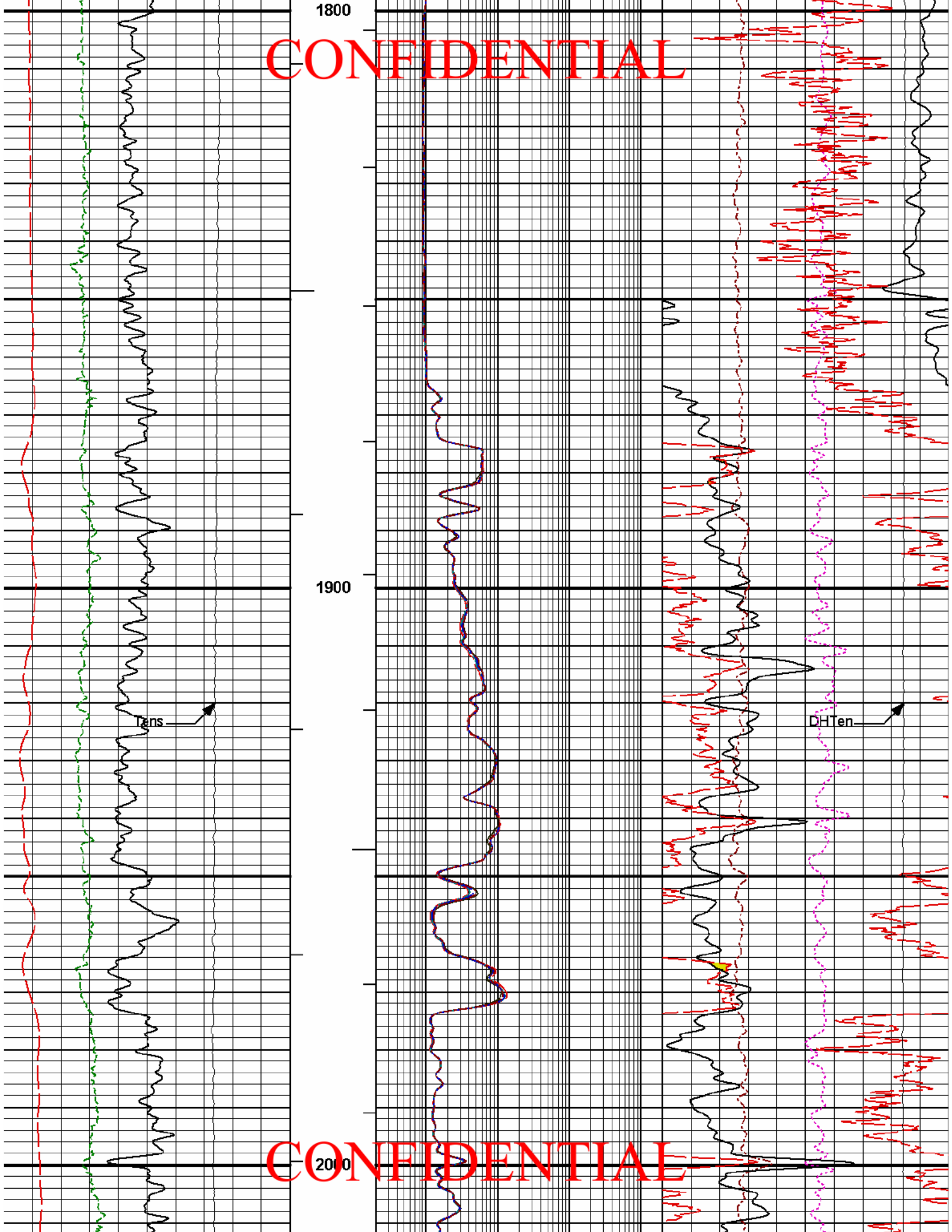
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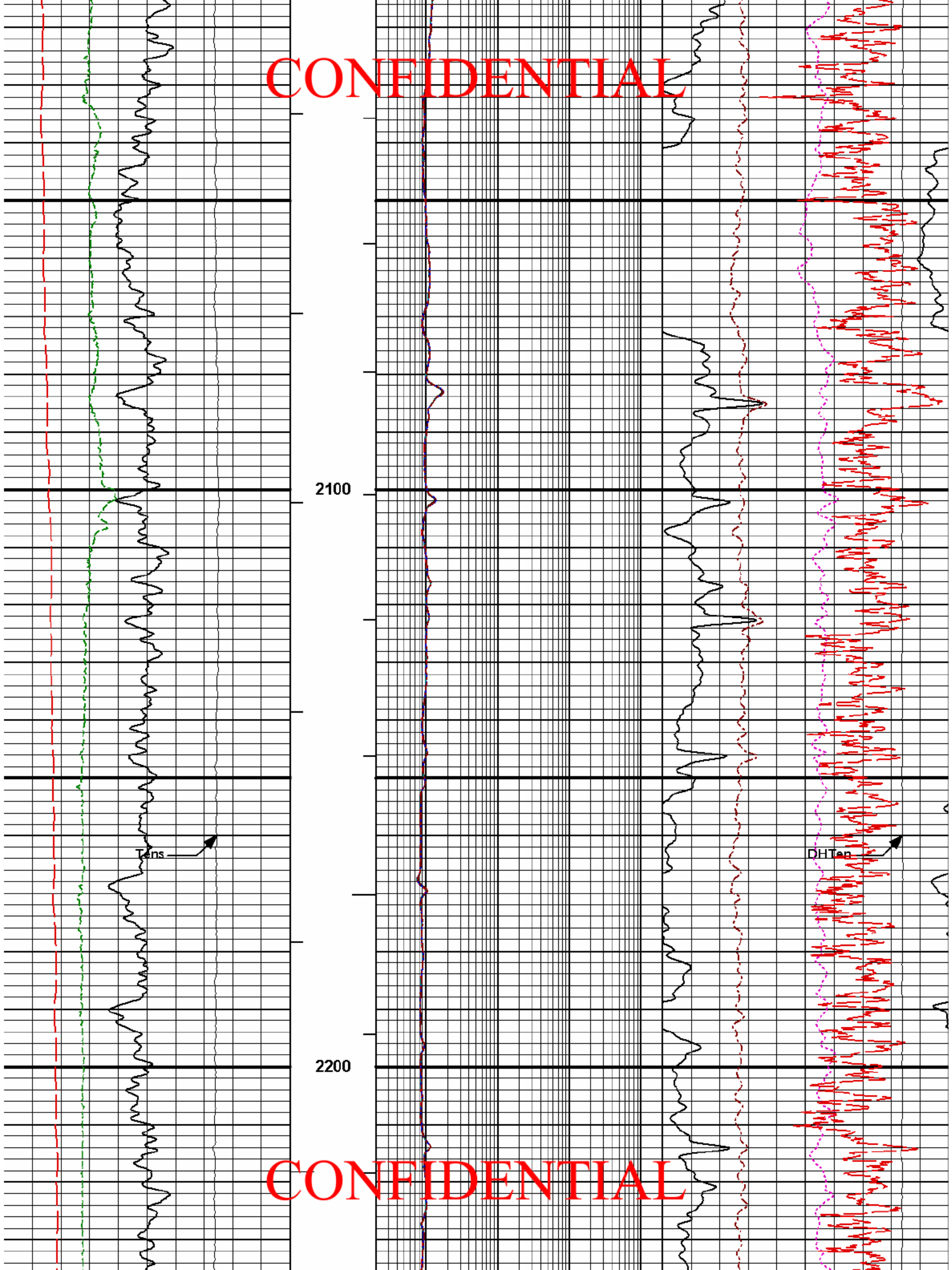
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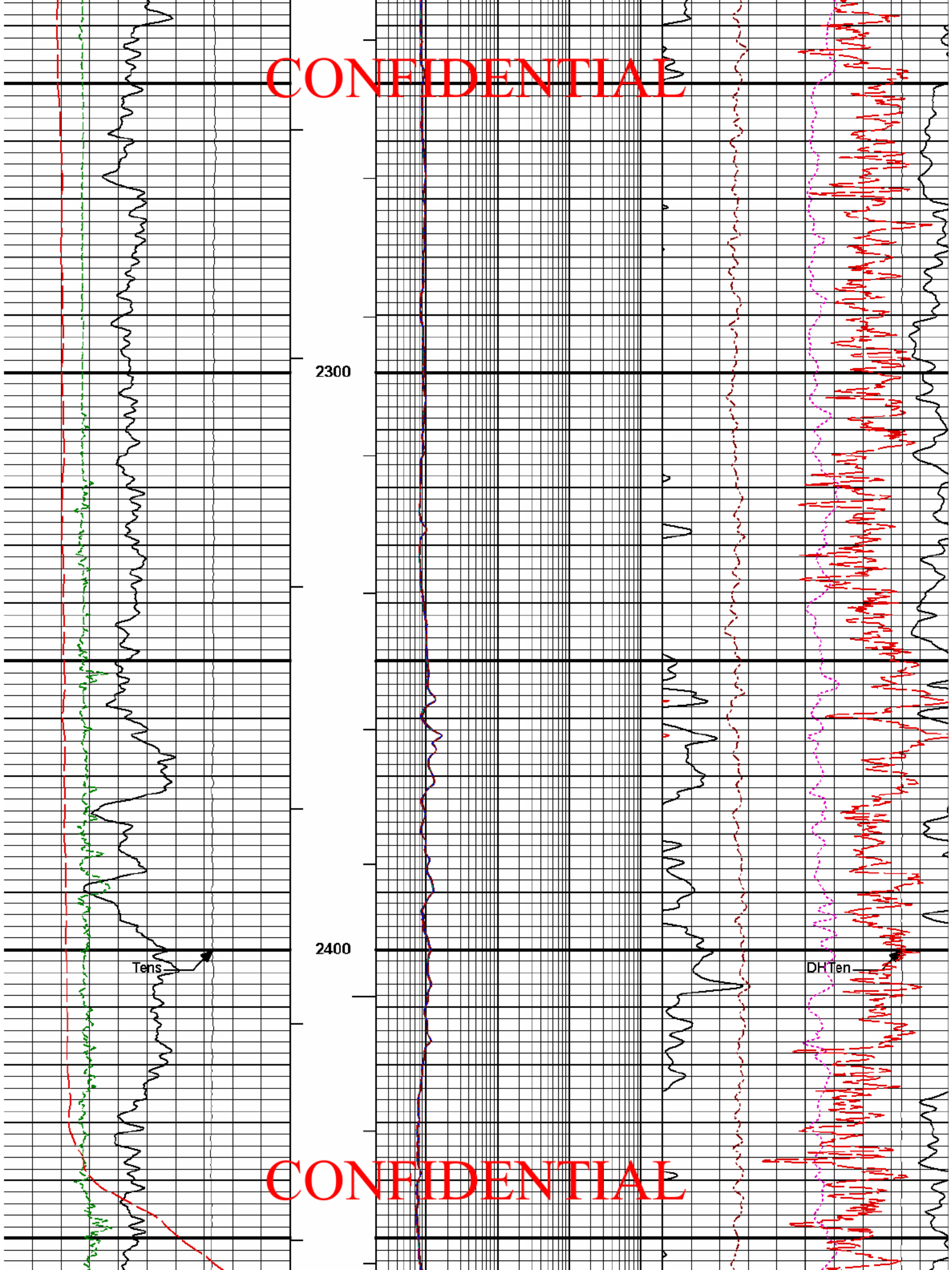
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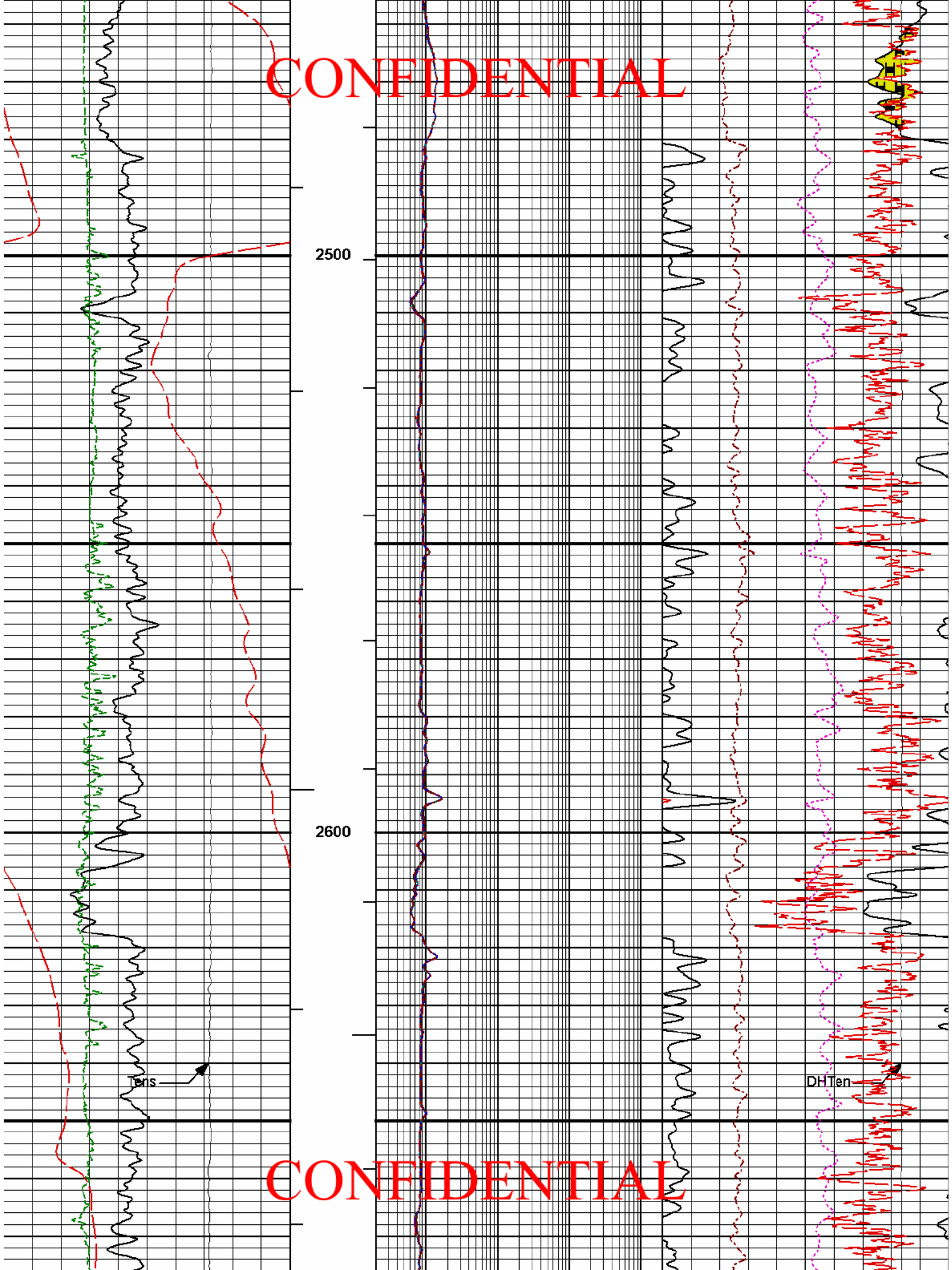
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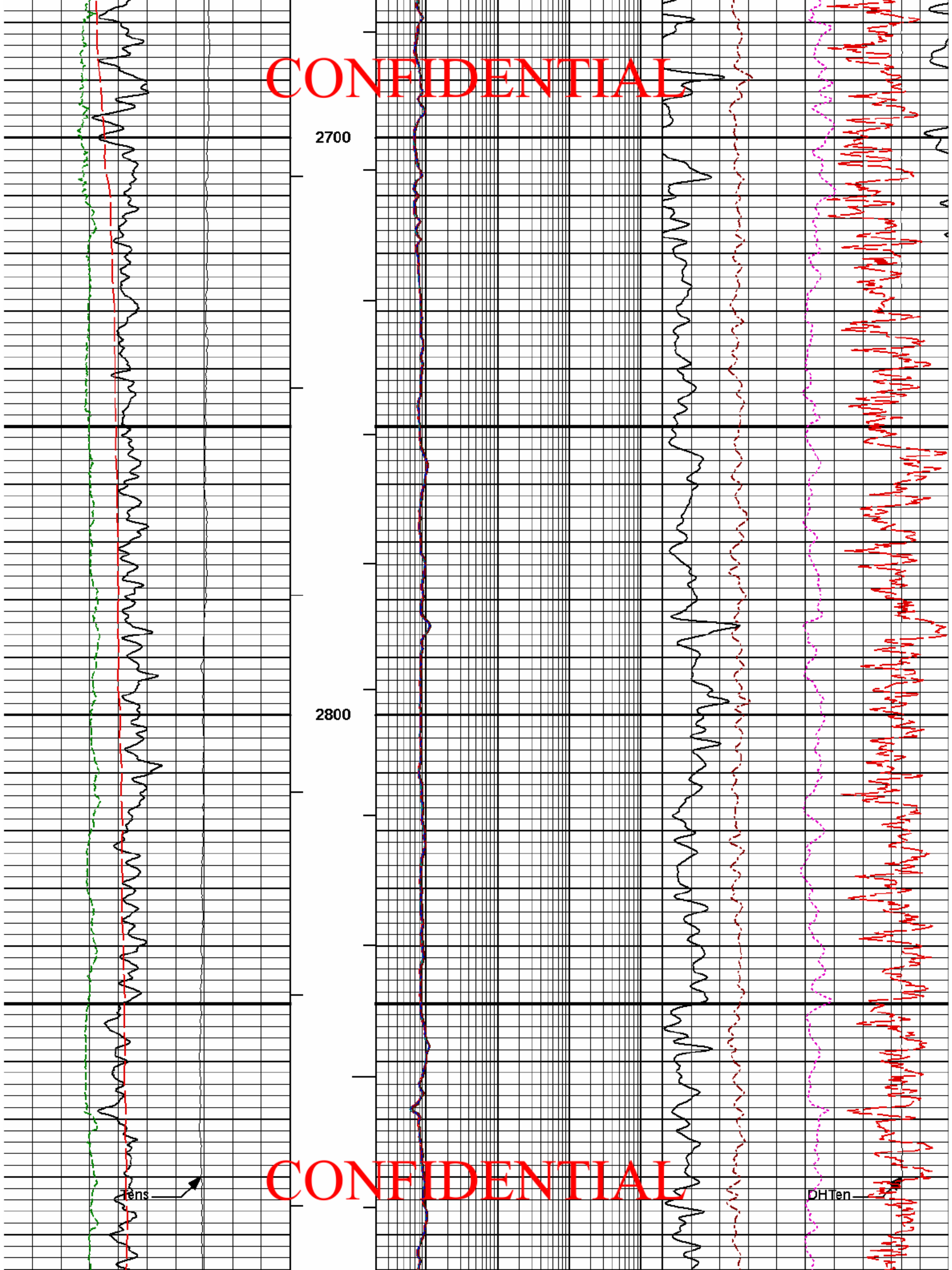
2700

2800

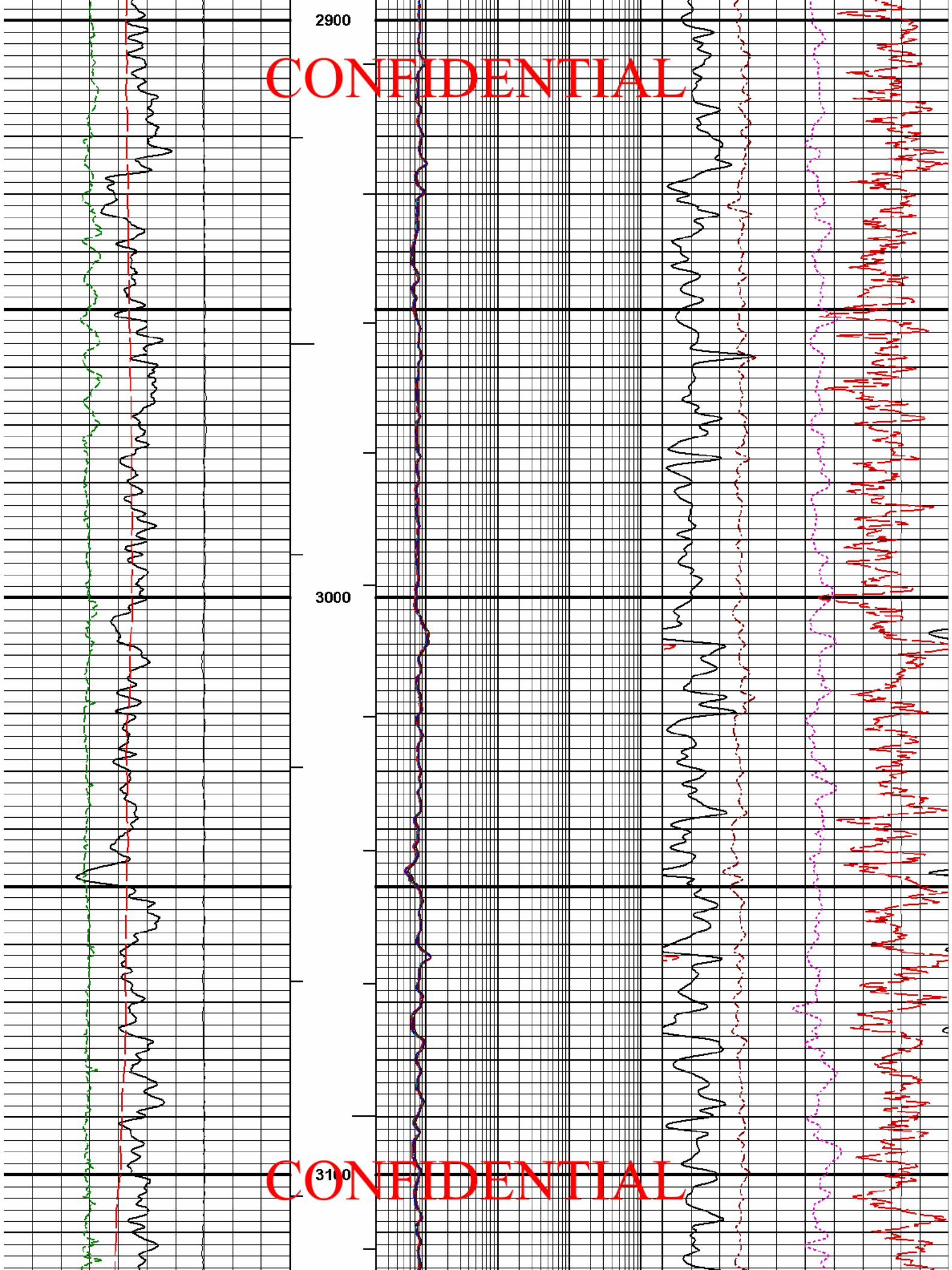
Sens

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DHTen

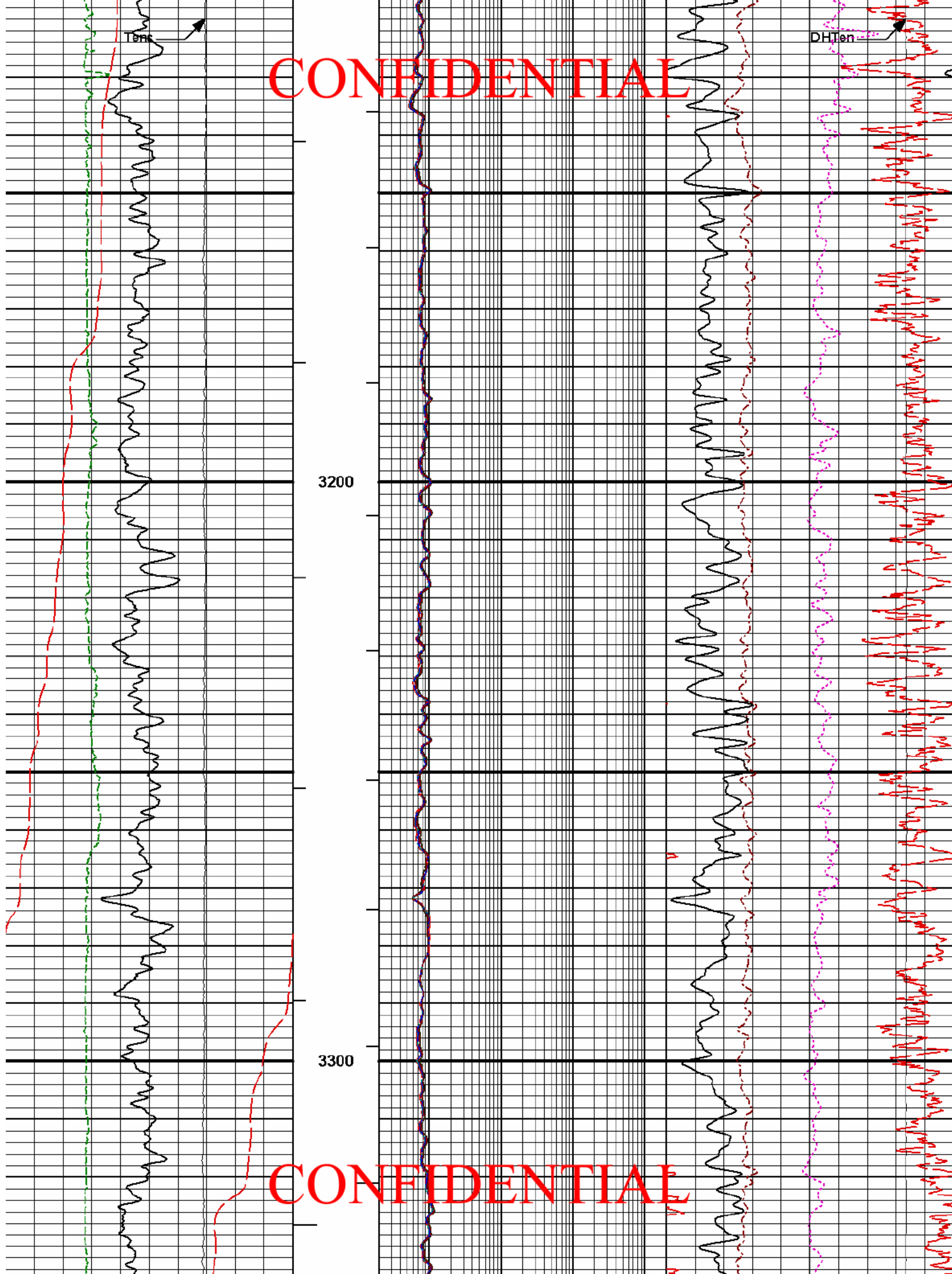


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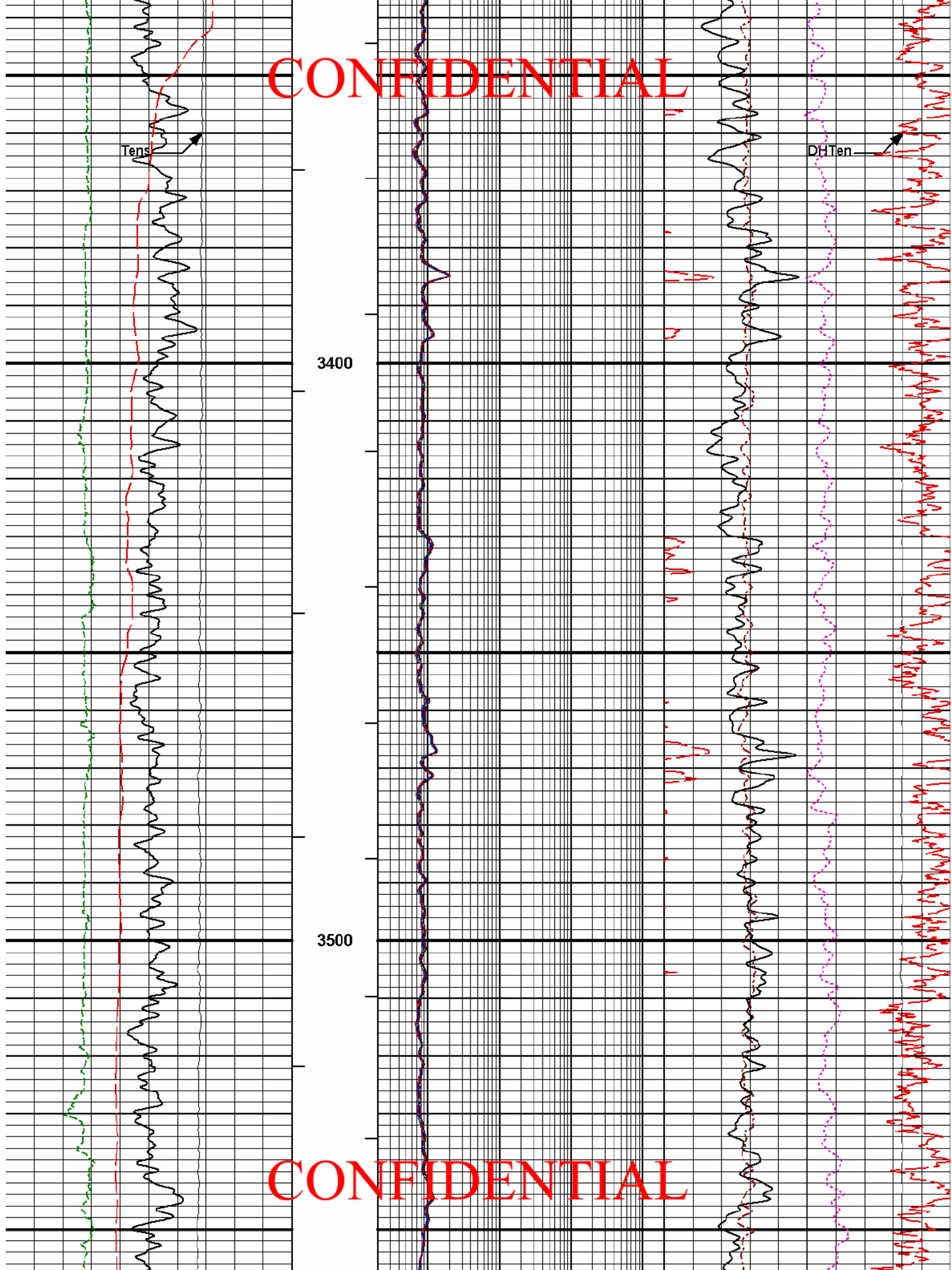


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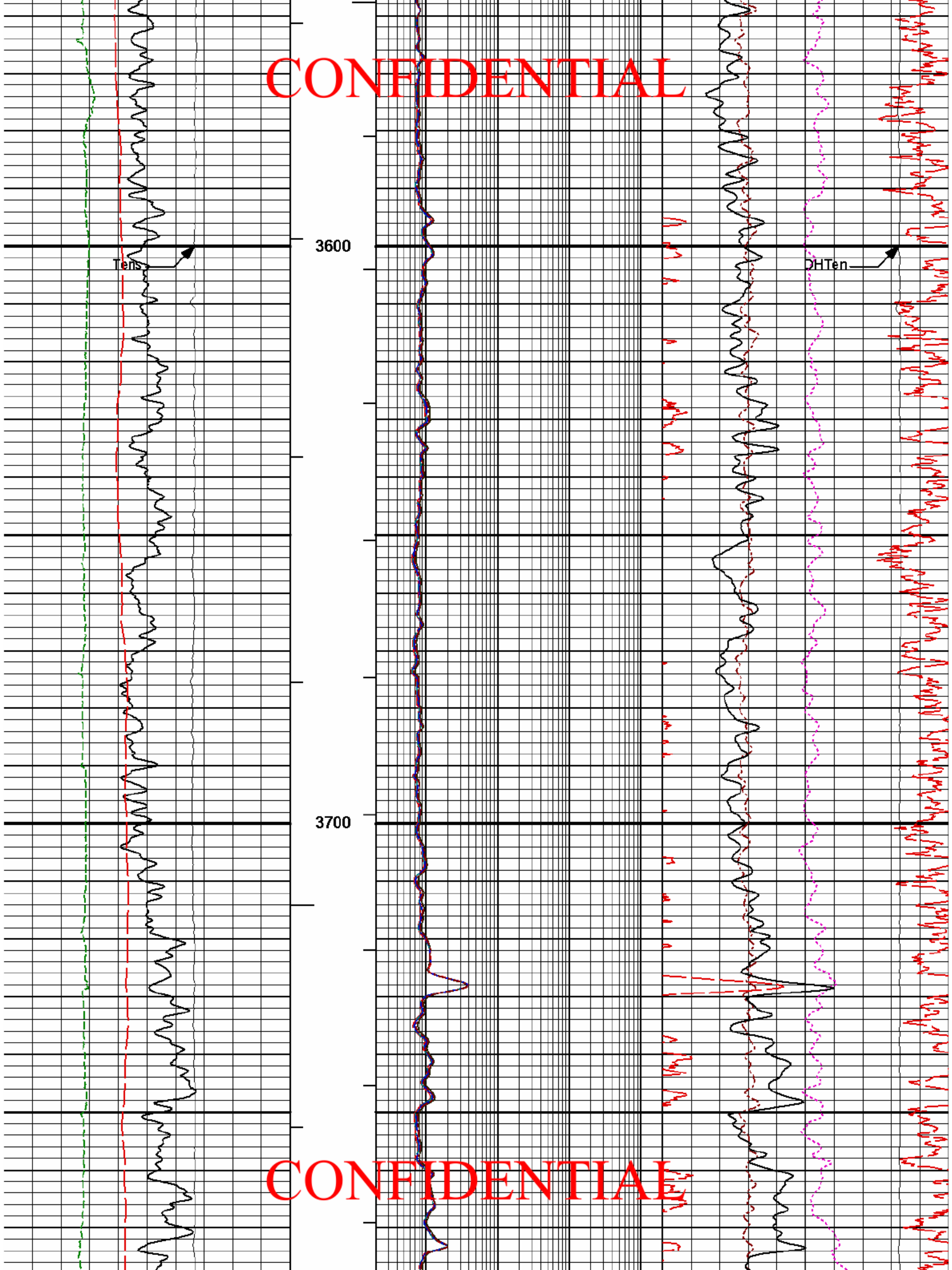
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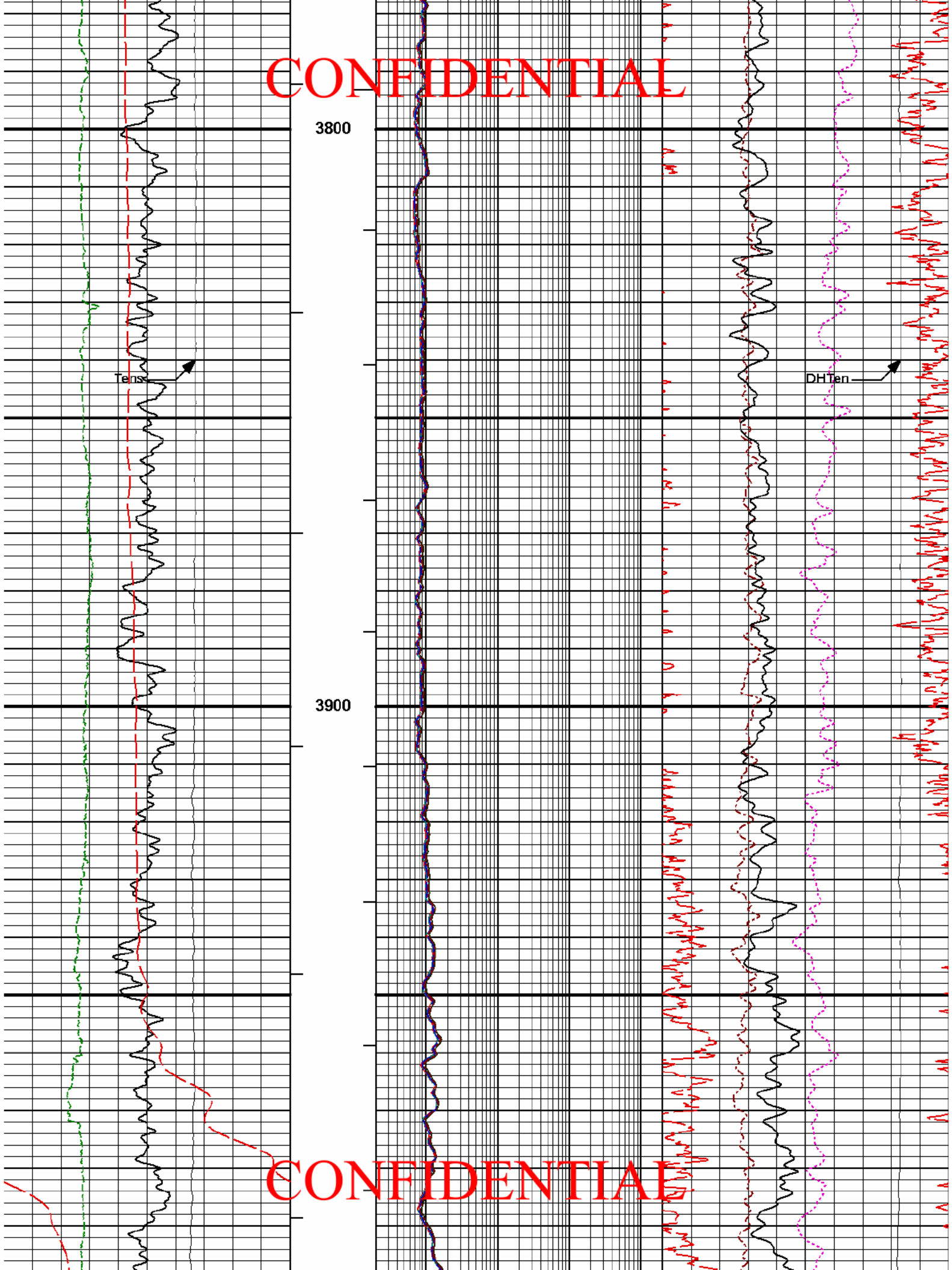
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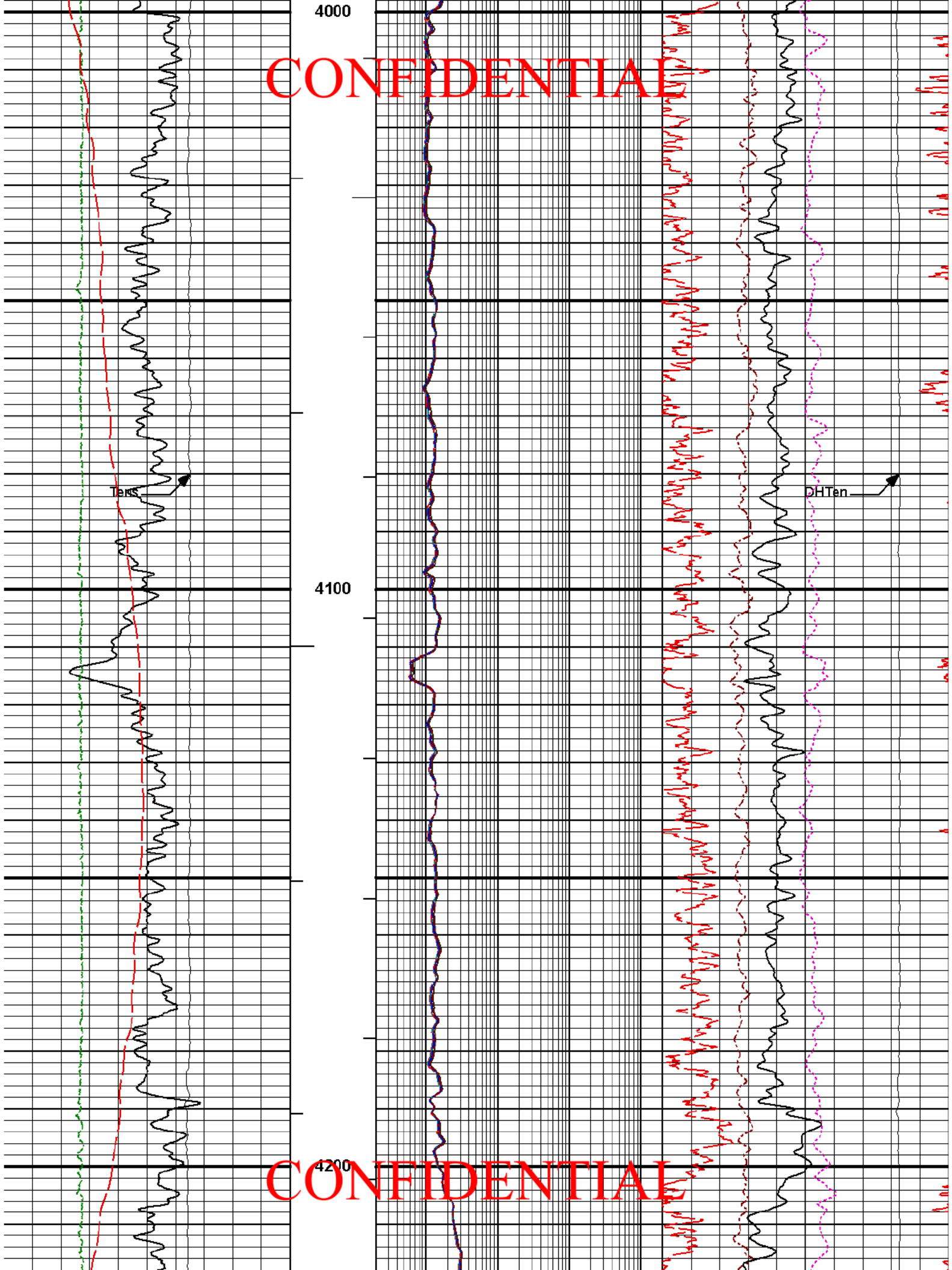


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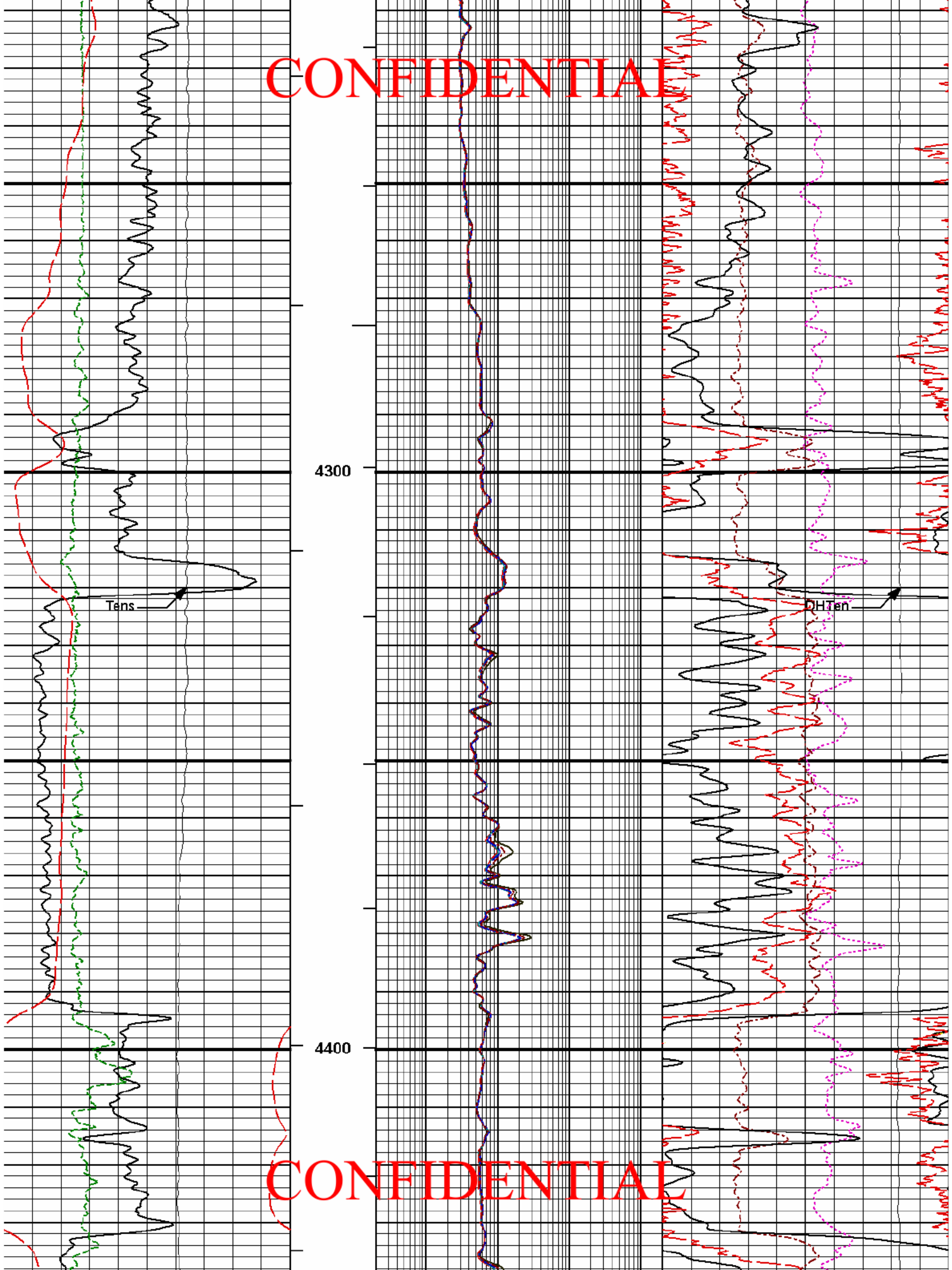
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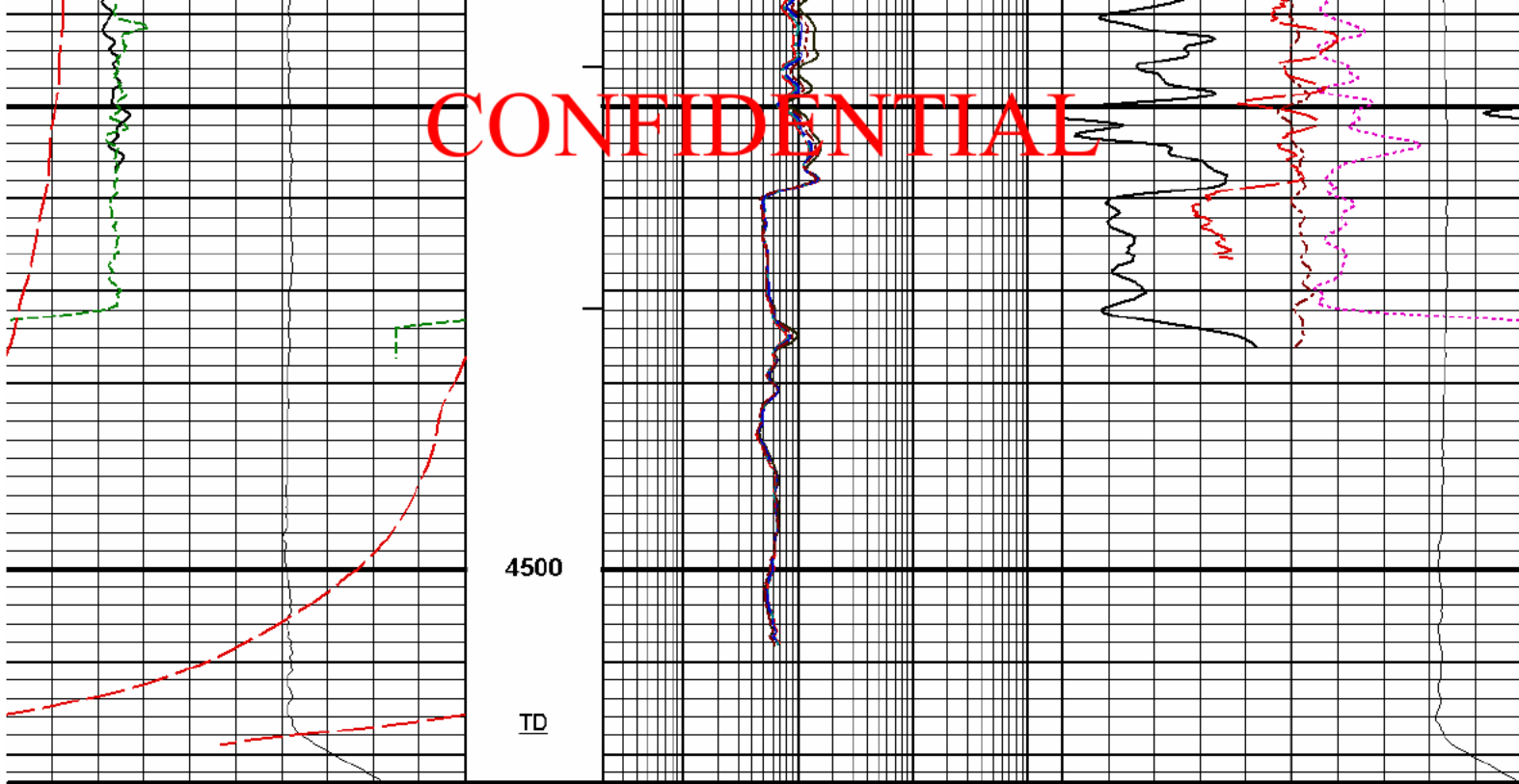
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0	SP	100	1 : 240	0.2	RT90	2K	-0.25	Density Corr	0.25
	milli volts				Ohm-m			gram per cc	
0	Gamma API	200	BHVT	0.2	RT60	2K	0	Pe	10
	api				Ohm-m				
6	Caliper	16	AHVT	0.2	RT30	2K	40	Density Porosity	0
	inches				Ohm-m			percent	
10K	Tens	0		0.2	RT20	2K	40	Neutron Porosity	0
	pounds				Ohm-m			percent	
				0.2	RT10	2K	10K	DHTen	0
					Ohm-m			pounds	

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Plot Time: 28-Apr-10 08:39:36
 Plot Range: 100 ft to 4522.92 ft
 Data: BRIDGE_HAM_1_17Well Based|MAIN*
 Plot File: \\not saved\NQ_BP_COMPOSITE_ACRT_6IN_DHT

MAIN PASS 5" = 100'

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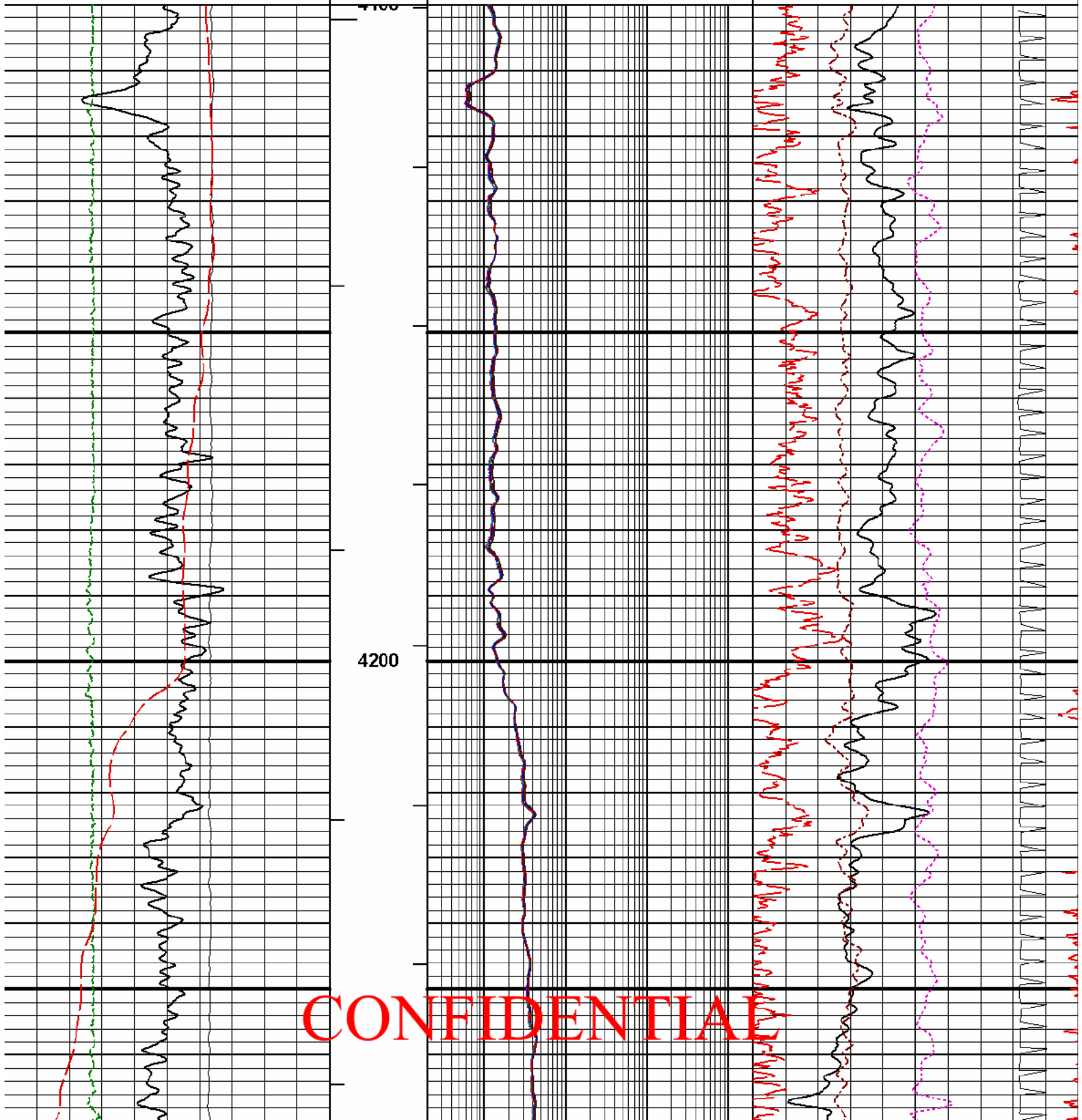
Plot Time: 28-Apr-10 08:39:36
 Plot Range: 4100 ft to 4522.42 ft
 Data: BRIDGE_HAM_1_17Well Based|RPT*
 Plot File: \\not saved\NQ_BP_COMPOSITE_ACRT_6IN_DHT_RPT

REPEAT SECTION 5" = 100'

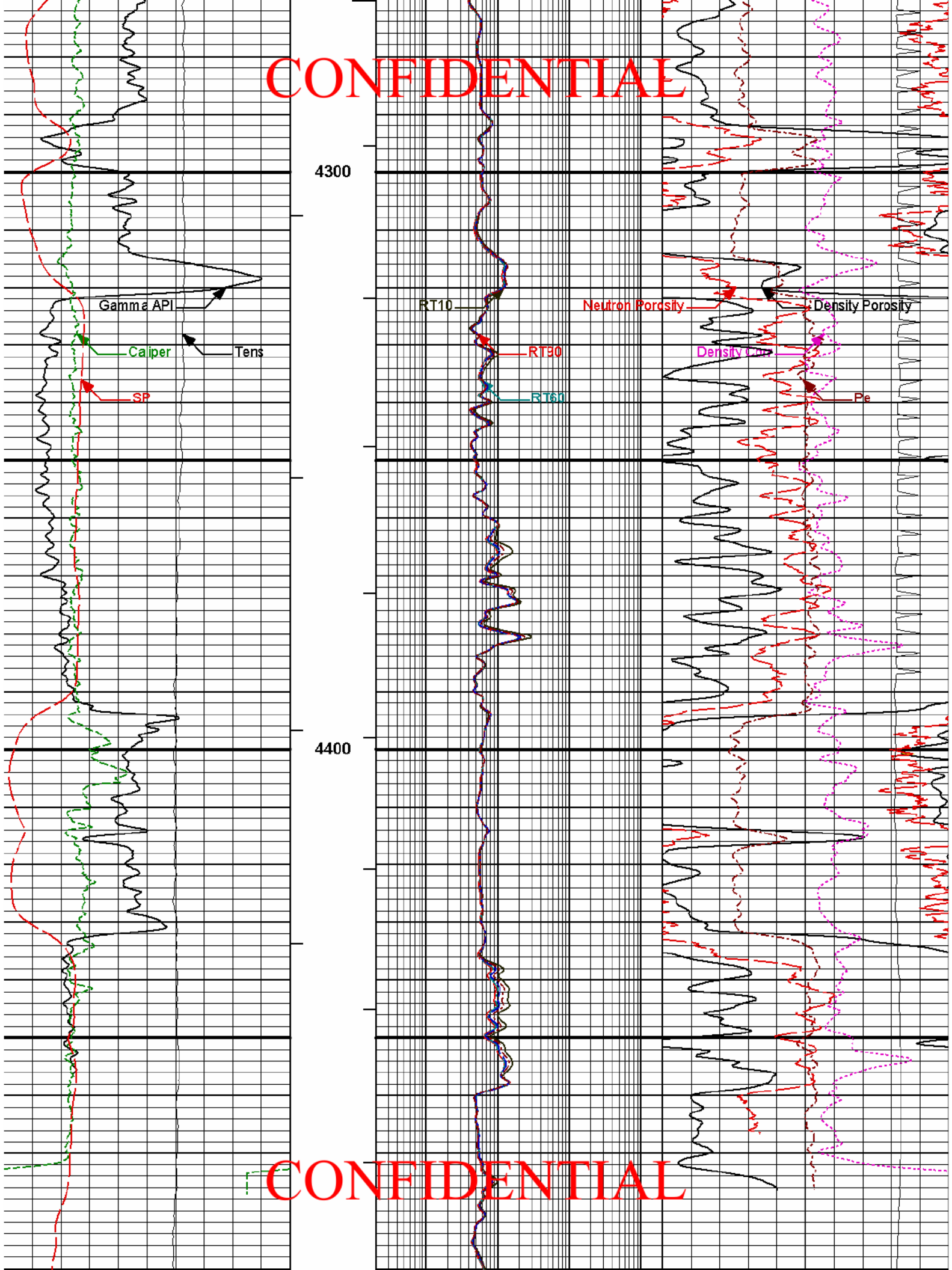
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10K	Tens pounds	0	0.2	RT10 Ohm-m	2K	10K	DHTen pounds	0
6	Caliper inches	16	0.2	RT20 Ohm-m	2K	40	Neutron Porosity percent	0
0	Gamma API api	200	0.2	RT30 Ohm-m	2K	40	Density Porosity percent	0
0	SP milli volts	100	0.2	RT60 Ohm-m	2K	0	Pe	10
			1 : 240	RT90 Ohm-m	2K	-0.25	Density Corr gram per cc	0.25



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<p>0 SP 100 millivolts</p> <p>0 Gamma API 200 api</p> <p>6 Caliper 16 inches</p> <p>10K Tens 0 pounds</p>	<p>1 : 240</p> <p>BHVT</p> <p>AHVT</p>	<p>0.2 RT90 2K -0.25 Ohm-m</p> <p>0.2 RT60 2K 0 Ohm-m</p> <p>0.2 RT30 2K 40 Ohm-m</p> <p>0.2 RT20 2K 40 Ohm-m</p> <p>0.2 RT10 2K 10K Ohm-m</p>	<p>Density Corr 0.25 gram per cc</p> <p>Pe 10</p> <p>Density Porosity 0 percent</p> <p>Neutron Porosity 0 percent</p> <p>DHTen 0 pounds</p>
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Plot Time: 28-Apr-10 08:39:39
 Plot Range: 4100 ft to 4522.42 ft
 Data: BRIDGE_HAM_1_17Well Based|RPT1*
 Plot File: \\not saved\NO_BP_COMPOSITE_ACRT_6IN_DHT_RPT

REPEAT SECTION 5" = 100'

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11215095	Reference Calibration Date: 02-Apr-10 10:05:47
Engineer: D. CULVER	Calibration Date: 23-Apr-10 14:19:05
Software Version: WL INSITE R3.0.3 (Build 5)	Calibration Version: 1

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

Measurement	Measured	Calibrated	Units
Background	40.7	40.4	api
Background + Calibrator	306.3	303.9	api
Calibrator	263.2	263.5	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11215095	Reference Calibration Date: 23-Apr-10 14:19:05
Engineer: J. MAYNE	Calibration Date: 28-Apr-10 03:30:07
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

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Background	40.4	130.6	api
Background + Calibrator	303.9	399.5	api
Calibrator	263.5	268.9	api

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Shop	Field	Difference	Tolerance
263.5	268.9	-5.4	+/- 9.00

GAMMA RAY POST CALIBRATION

Tool Name: GTET - 11215095 **Reference Calibration Date:** 28-Apr-10 03:30:07
Engineer: J. MAYNE **Calibration Date:** 28-Apr-10 08:26:58
Software Version: WL INSITE R3.0.3 (Build 5) **Calibration Version:** 1

Calibrator Source S/N: TB-270

Post Verification	Field	Post	Units
Background	130.6	NaN	api
Background + Calibrator	399.5	307.8	api
Calibrator	268.9	NaN	api

Shop	Field	Post	Difference	Tolerance
263.5	268.9	----	----	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 10860047 **Reference Calibration Date:** 02-Apr-10 10:18:16
Engineer: D. CULVER **Calibration Date:** 23-Apr-10 14:07:21
Software Version: WL INSITE R3.0.3 (Build 5) **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: 72 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.964	0.967	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):	0.2099	0.2108	0.0009	+/- 0.0020
Calibrated Ratio:	9.69	9.72	0.031	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0708	0.02000 - 0.09000

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

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DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name: DSNT - 10860047

Reference Calibration Date: 23-Apr-10 14:07:21

Engineer: J. MAYNE

Calibration Date: 28-Apr-10 03:38:22

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

Calibration Version: 1

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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):	0.0708	0.0588	-0.0120	+/- 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 - 10860047

Reference Calibration Date: 28-Apr-10 03:38:22

Engineer: J. MAYNE

Calibration Date: 28-Apr-10 08:29:39

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):	0.0588	0.0666	0.0078	+/- 0.0150

PASS/FAIL SUMMARY

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

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT - 11014271

Reference Calibration Date: 06-Apr-10 00:43:50

Engineer: D. CULVER

Calibration Date: 23-Apr-10 12:06:45

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

Calibration Version: 1

Logging Source S/N: 5235GW

Aluminum Block S/N: 63069

Density: 2.588g/cc

Pe: 3.160

Magnesium Block S/N: 63376

Density: 1.687g/cc

Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0364	1.0307	0.90 - 1.10
Near Dens Gain	0.9877	0.9873	0.90 - 1.10
Near Peak Gain	0.9982	0.9887	0.90 - 1.10
Near Lith Gain	0.9851	0.9677	0.90 - 1.10
Far Bar Gain	1.0072	1.0063	0.90 - 1.10
Far Dens Gain	0.9962	0.9938	0.90 - 1.10
Far Peak Gain	0.9918	0.9905	0.90 - 1.10
Far Lith Gain	0.9789	0.9716	0.90 - 1.10

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Near Bar Offset	-0.3406	-0.2883	NONE
Near Dens Offset	0.1227	0.1255	NONE
Near Peak Offset	0.0164	0.0921	NONE

Near Lith Offset	0.0948	0.2393	NONE
Far Bar Offset	-0.1554	-0.1451	NONE
Far Dens Offset	-0.0557	-0.0288	NONE
Far Peak Offset	-0.0189	-0.007	NONE
Far Lith Offset	0.0415	0.0930	NONE

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Near Bar Background	957.82	956.99	700 - 1450
Near Dens Background	314.59	316.14	230 - 480
Near Peak Background	136.54	136.19	100 - 210
Near Lith Background	167.44	166.98	125 - 260
Far Bar Background	541.15	541.17	450 - 900
Far Dens Background	213.67	214.26	175 - 345
Far Peak Background	80.26	81.36	70 - 140
Far Lith Background	86.89	88.06	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.692	1.688	-0.004	+/- 0.015
Pe	2.549	2.587	0.038	+/- 0.150
ALUMINUM				
Density (g/cc)	2.592	2.588	-0.004	+/- 0.01500
Pe	3.140	3.152	0.012	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0010	+/- 0.0110	-0.0028	+/- 0.0140
Magnesium Block	-0.0008	+/- 0.0110	-0.0018	+/- 0.0140
Aluminum Block	-0.0001	+/- 0.0110	0.0006	+/- 0.0140
Resolution	9.06	6.00 - 11.50	9.95	6.00 - 11.50
Internal Verifier(B+D+P+L)	1576	1200 - 2700	925	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 - 11014271	Reference Calibration Date: 23-Apr-10 12:06:45
Engineer: J. MAYNE	Calibration Date: 28-Apr-10 03:30:01
Software Version: WL INSITE R 3.0.3 (Build 5)	Calibration Version: 1

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Pad Temperature: 47.0 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1576.292	1574.484	-1.808	15.973
Far (B+D+P+L) cps	924.847	926.712	1.865	16.469
Near Resolution	9.16	9.19	0.030	0.50
Far Resolution	9.35	10.62	0.670	1.00

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PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

SPECTRAL DENSITY POST CHECK			
Tool Name:	SDLT - 11014271	Reference Calibration Date:	28-Apr-10 03:30:01
Engineer:	J. MAYNE	Calibration Date:	28-Apr-10 08:13:39
Software Version:	WL INSITE R3.0.3 (Build 5)	Calibration Version:	1

Pad Temperature: 71.7 degF

DENSITY POST CALIBRATION SUMMARY				
Measurement	Field	Post	Change	Control Limit +/-
Near (B+D+P+L) cps	1574.484	1569.941	-4.543	15.973
Far (B+D+P+L) cps	926.712	931.097	4.385	16.469
Near Resolution	9.39	9.22	-0.170	0.50
Far Resolution	10.62	10.26	-0.360	1.00

PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - 11014271	Reference Calibration Date:	06-Apr-10 00:58:45
Engineer:	D. CULVER	Calibration Date:	23-Apr-10 13:39:33
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	-2655.70	-2796.73	-7000.00 - -1000.00
Pad Gain	0.0003745	0.0003781	0.000200 - 0.000600
Arm Offset	-3575.88	-3409.59	-5000.00 - 3000.00
Arm Gain	0.0005619	0.0005594	0.000300 - 0.000700
Arm Power	-0.000005574	-0.000005356	-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)	2.03	2.00	-0.03	+/- 0.20
Medium Ring (in)	3.77	3.75	-0.02	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.47	6.50	0.03	+/- 0.20
Medium Ring (in)	8.23	8.25	0.02	+/- 0.20
Large Ring (in)	14.97	15.00	0.03	+/- 0.20

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PASS/FAIL SUMMARY

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

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PASS/FAIL SUMMARY

Calibration-Coefficients Range Check: Passed

SDLT CALIPER FIELD CALIBRATION

Tool Name: SDLT - 11014271 **Reference Calibration Date:** 23-Apr-10 13:39:33
Engineer: J. MAYNE **Calibration Date:** 28-Apr-10 03:33:08
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	3.71	-0.04	+/- 0.10
Ring Diameter	8.25	8.20	-0.05	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed
 Diameter Check: Passed

SDLT CALIPER POST CALIBRATION

Tool Name: SDLT - 11014271 **Reference Calibration Date:** 28-Apr-10 03:33:08
Engineer: J. MAYNE **Calibration Date:** 28-Apr-10 08:18:20
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	3.71	3.70	-0.02	+/- 0.10
Ring Diameter	8.20	8.26	0.06	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed
 Diameter Check: Passed

BCAS FIELD CASING CHECK

Tool Name: BSAT - 10939067 **Calibration Date:** 28-Apr-10 04:31:40
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	400.90	57000000.00	56.92	56,999,943.0800	1.00	uspf

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name: ACRT - E104_S103 **Reference Calibration Date:** 20-Feb-10 13:30:40
Engineer: B. DRAKE **Calibration Date:** 11-Apr-10 11:56:37
Software Version: WL INSITE R2.6.1 (Build 9) **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	1.0102	1.05	0.95	1.0147	1.05	0.95	1.0119	1.05
A2 (50")	0.95	1.0054	1.05	0.95	1.0098	1.05	0.95	1.0088	1.05
A3 (29")	0.95	1.0056	1.05	0.95	1.0102	1.05	0.95	1.0067	1.05

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A4 (17")	0.95	0.9975	1.05	0.95	0.9993	1.05	0.95	0.9997	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9916	1.05	0.95	0.9904	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9790	1.05	0.95	0.9769	1.05

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TYPICAL SONDE OFFSET RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-0.186	2	-6	-3.727	-2	-8	-4.945	-2
A2 (50")	-7	-3.032	-2	-6	-3.741	-2	-7	-4.543	-2
A3 (29")	-27	-11.421	-9	-9	-3.468	-3	-7	-2.902	-1
A4 (17")	-180	-98.390	-60	-45	-32.571	-15	-39	-26.469	-13
A5 (10")	N/A	N/A	N/A	-150	-75.020	-50	-80	-37.783	-10
A6 (6")	N/A	N/A	N/A	175	270.034	525	90	139.323	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.9017	1.3
36K	1.0	1.9070	2.0
72K	1.0	1.1417	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	0.998	1.05

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11215095						
Gamma Ray Calibrator	263.5	268.9	NaN	268.9	+/- 9.00	api
DSNT-10860047						
Snow-Block Porosity	0.0708	0.0588	0.0666	-0.0078	+/- 0.0150	decp
SDLT-11014271						
Near(B+D+P+L)	1576.292	1574.484	1569.941	4.543	+/-15.973	cps
Far(B+D+P+L)	924.847	926.712	931.097	-4.385	+/-16.469	cps
Pad Extension	3.75	3.71	3.70	0.01	+/-0.10	in
Ring Diameter	8.25	8.20	8.26	-0.060	+/-0.15	in
ACRt-E104_S103						
Mud Cell	0.998	-----	-----	0.000	-----	ohm-m

Data: BRIDGE_HAM_1_1710001 QUAD-BSATIDLE

Date: 28-Apr-10 08:37:32

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CUSTOMER EVENT LOG

Event Type	Time & Date	Depth (ft)	Event Description
	28-Apr-10 04:23:59	800.25	Logging 001 28-Apr-10 04:23 Up @800.3f
	28-Apr-10 04:29:19	519.89	Halling 001 28-Apr-10 04:23 Up @800.3f
	28-Apr-10 04:32:02	326.75	Logging 002 28-Apr-10 04:32 Dn @326.8f
	28-Apr-10 05:39:13	4450.31	Halling 002 28-Apr-10 04:32 Dn @326.8f
	28-Apr-10 05:41:53	4523.75	Logging 003 28-Apr-10 05:41 Up @4523.8f
	28-Apr-10 05:58:20	4393.75	Halling 003 28-Apr-10 05:41 Up @4523.8f
	28-Apr-10 05:59:53	4523.75	Logging 004 28-Apr-10 05:59 Up @4523.8f

Data: BRIDGE_HAM_1_1710001 QUAD-BSATHALLIBUR-1A34A9

Date: 28-Apr-10 06:45:12

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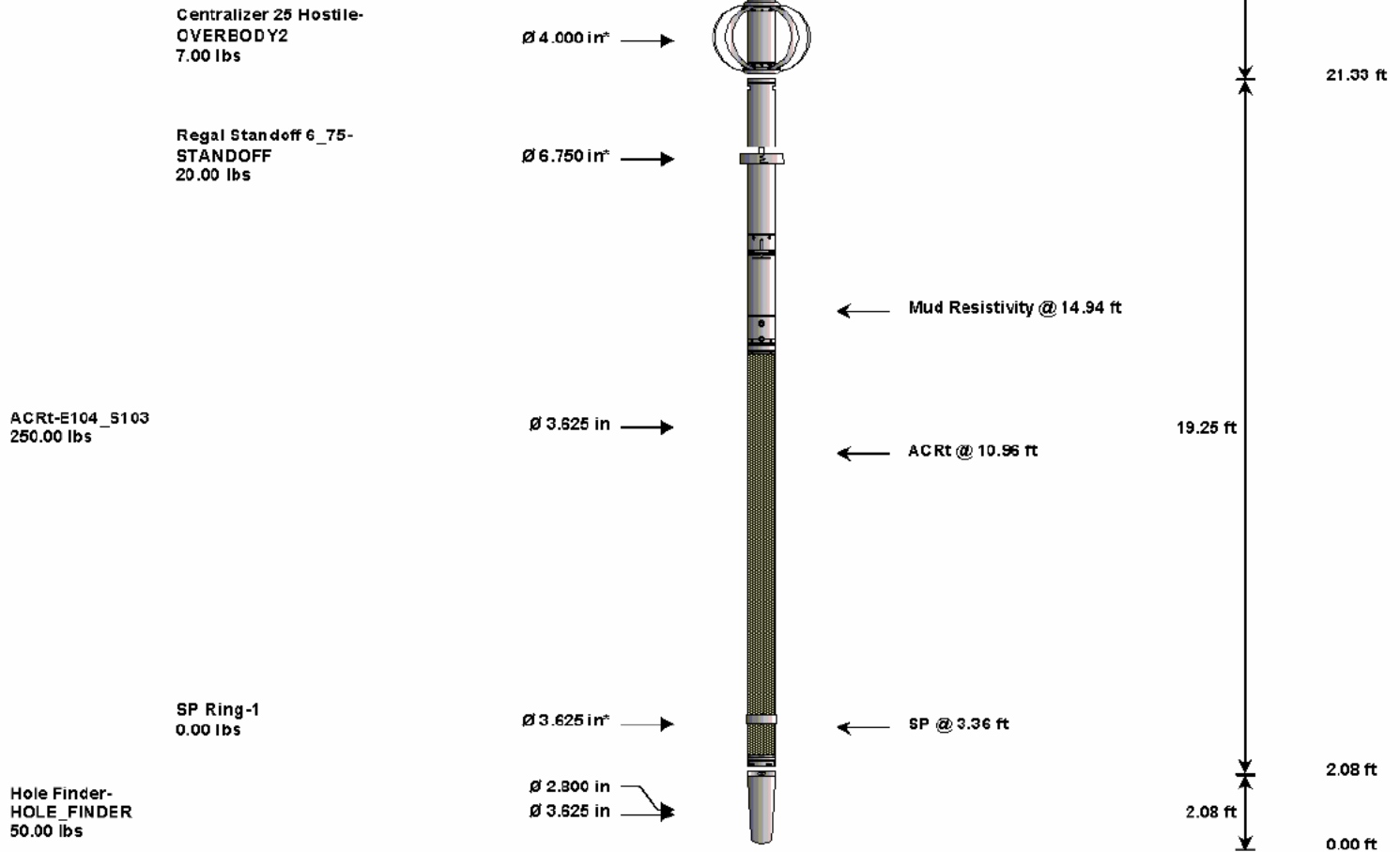
TOOL STRING DIAGRAM REPORT

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Description	Overbody Description	C.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-11173131 135.00 lbs		∅ 3.625 in		Load Cell @ 74.36 ft BH Temperature @ 73.80 ft	6.25 ft	78.05 ft
GTET-11215095 165.00 lbs		∅ 3.625 in		GammaRay @ 65.74 ft	8.52 ft	71.80 ft
DSNT-10860047 174.00 lbs	DSN Decentralizer- 10860047 6.60 lbs	∅ 3.625 in ∅ 3.625 in		DSN Far @ 56.34 ft DSN Near @ 55.59 ft	9.69 ft	63.28 ft
SDLT-11014271 360.00 lbs		∅ 4.500 in ∅ 4.750 in		SDL Microlog @ 45.78 ft SDL Calliper @ 45.59 ft SDL @ 46.68 ft	10.81 ft	53.59 ft
IQ Flex-ORANGE 140.00 lbs		∅ 3.625 in			5.67 ft	42.78 ft
Centralizer 25 Hostile- OVERBODY 7.00 lbs		∅ 4.000 in				37.11 ft
BSAT-10939067 300.00 lbs		∅ 3.625 in		Sonic Receivers @ 28.59 ft	15.77 ft	

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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	11215095	165.00	8.52	63.28	60.00
DSNT	Dual Spaced Neutron	10860047	174.00	9.69	53.59	60.00
DCNT	DSN Decentralizer	10860047	6.60	5.13	56.92	300.00
SDLT	Spectral Density Tool	11014271	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	E104_S103	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_HAM_1_1710001 QUAD-BSAT004 28-Apr-10 05:59 Up @4523.8f

Date: 28-Apr-10 06:49:37

COMPANY **BRIDGE ENERGY INC**

WELL **STATE 1 - 17**

FIELD **WILDCAT**

COUNTY **PAYETTE**

STATE

IDAHO

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SPECTRAL DENSITY
DUAL SPACED NEUTRON
ARRAY COMPENSATED
TRUE RESISTIVITY

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