Weatherford®

COMPACT TRIPLE COMBO
QUICKLOOK LOG

COMPANY	ALTA MESA SERVICES LLC
WELL	FALLON 1-10
FIELD	WILDCAT
PROVINCE/COUNTY	PAYETTE
COUNTRY/STATE	U.S.A. / IDAHO
UWI	SHL:1533' FWL & 2042' FSL

SEC 10	TWP 8N	RGE 5W	Other Services
Latitude		44.045533	COMPACT CROSS DIPOLE
Longitude		-116.926035	SPECTRAL GAMMA RAY
API Number		11-075-20032	

Permanent Datum GL, Elevation 2155 feet
Log Measured From KB, 12.00 feet above Permanent Datum
Drilling Measured From KB

Elevations:	feet
KB	2167.00
DF	2167.00
GL	2155.00

Date	19-FEB-2018			
Run Number	1			
Service Order	2938-203227578			
Depth Driller	5434.00	feet		
Depth Logger	5434.00	feet		
First Reading	5407.00	feet		
Last Reading	1094.00	feet		
Casing Driller	1094.00	feet		
Casing Logger	1094.00	feet		
Bit Size	8.500	inches		
Hole Fluid Type	WBM			
Density / Viscosity	12.70 lb/USg	40.00 sec/qt		
PH / Fluid Loss	6.90	3.40 ml/30Min		
Sample Source	SUCTION			
Rm @ Measured Temp	2.50 @100.0	ohm-m		
Rmf @ Measured Temp	1.87 @100.0	ohm-m		
Rmc @ Measured Temp	3.12 @100.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	1.49 @170.0	ohm-m		
Time Since Circulation	0.5 HRS			
Max Recorded Temp	170.00	deg F		
Equipment / Base	3505	CASPER		
Recorded By	ARBER ÇUKU			
Witnessed By	MIKE MCMENNAMY			

REMARKS

WLS SOFTWARE VERSION: 17.05.7583

TOOLS RUN IN COMBINATION: SRT;SHA;SKJ;MLK;MLK;SKJ;MBS;MMS;MTI;MGS;MSG;SKJ;SHA;MISD;MDN;MPD;
MISD;SHA;SKJ;MDM;MRD;MTD;MISE;MFE;MISE; MAI.

PRIMARY DEPTH REFERENCE WAS PIPE STRAP.

LOGGED USING MESSENGER SHUTTLE METHOD OF DEPLOYMENT.

HARDWARE USED:4 INCH PROFILE PLATE USED ON DENSITY
MIS D DECENTRALIZER ABOVE MDN AND BELOW MPD
4" STANDOFFS ON MRD AND MTD
PINEAPLE ON MAI BOTTOM

2.65 g/cc DENSITY MATRIX USED.

BARITE CORRECTION APPLIED ON DENSITY.

HOLE VOLUME FROM 5353 FT TO 1094 FT = 2470 CU.FT

ANNULAR VOLUME FROM 5353 FT TO 1094 FT BASED ON 5.5 INCH CASING = 1771 CU.FT

HOLE AND ANNULAR VOLUMES CALCULATED FROM DENSITY CALIPER MEASUREMENTS

WASHOUTS AND BOREHOLE RUGOSITY MAY AFFECT DATA QUALITY.

BOREHOLE RECORD

Last Edited: 19-FEB-2018 14:04

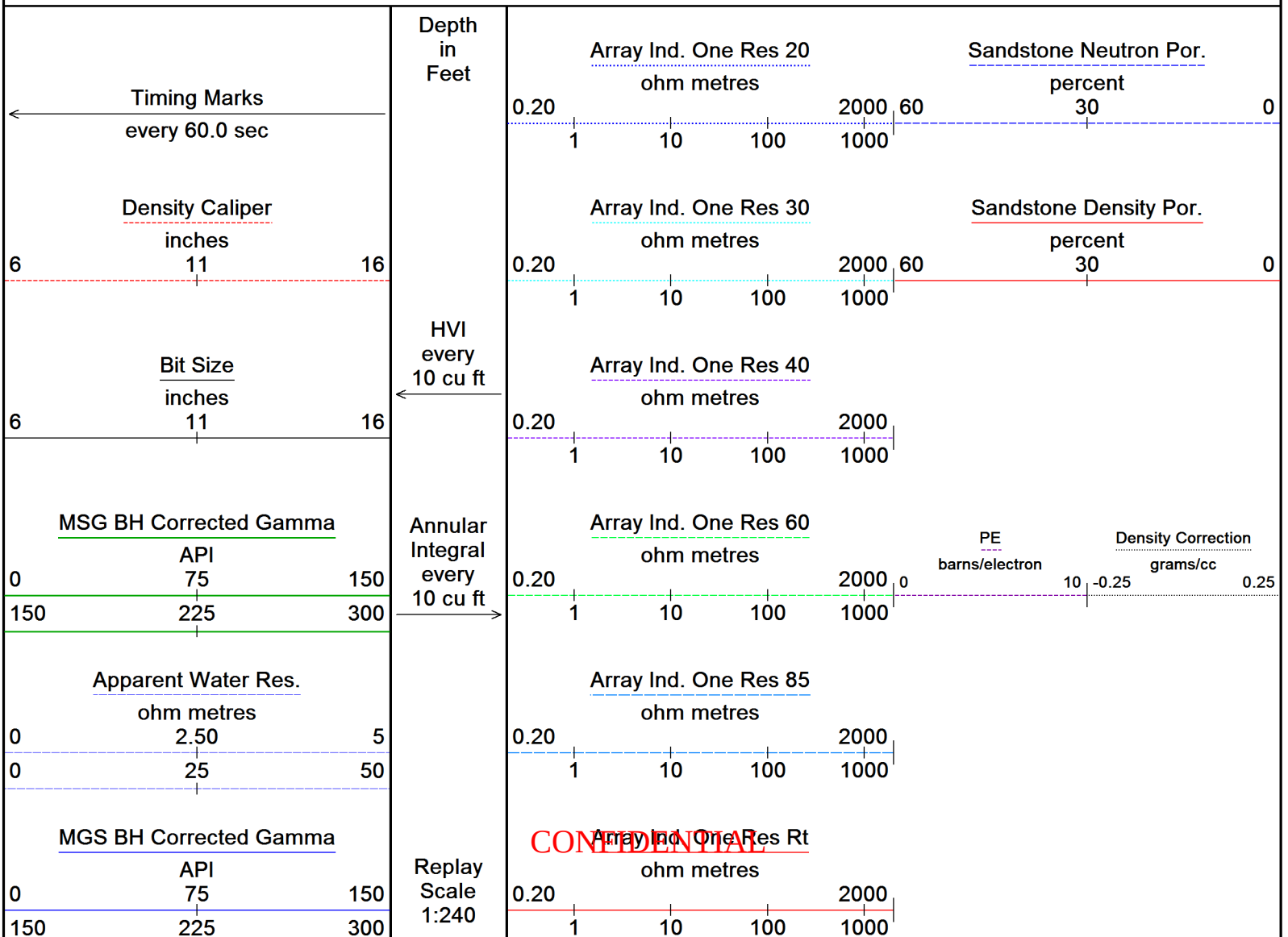
Bit Size inches	Depth From feet	Depth To feet
8.500	1094.00	5434.00

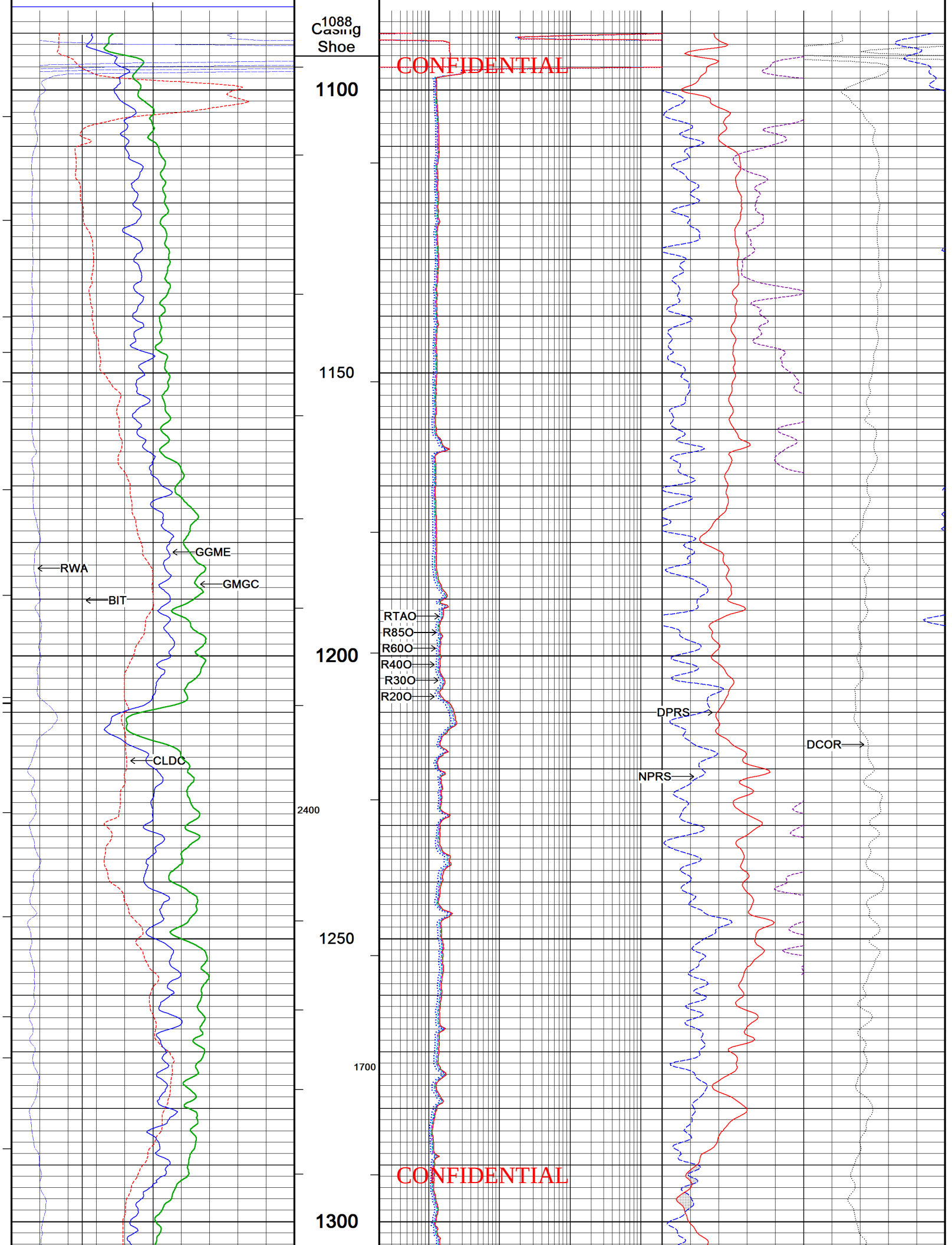
CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
	9.625	0.00	1094.00	40.00

5 INCH MAIN PASS

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 20-FEB-2018 09:56
Filename: C:\LOGS\ALTA MESA\FALLON 1-10\MAIN LOG.dta — Recorded on 19-FEB-2018 23:06
System Versions: Logged with 17.05.7583 Processed with 17.05.7583 Plotted with 17.05.7583

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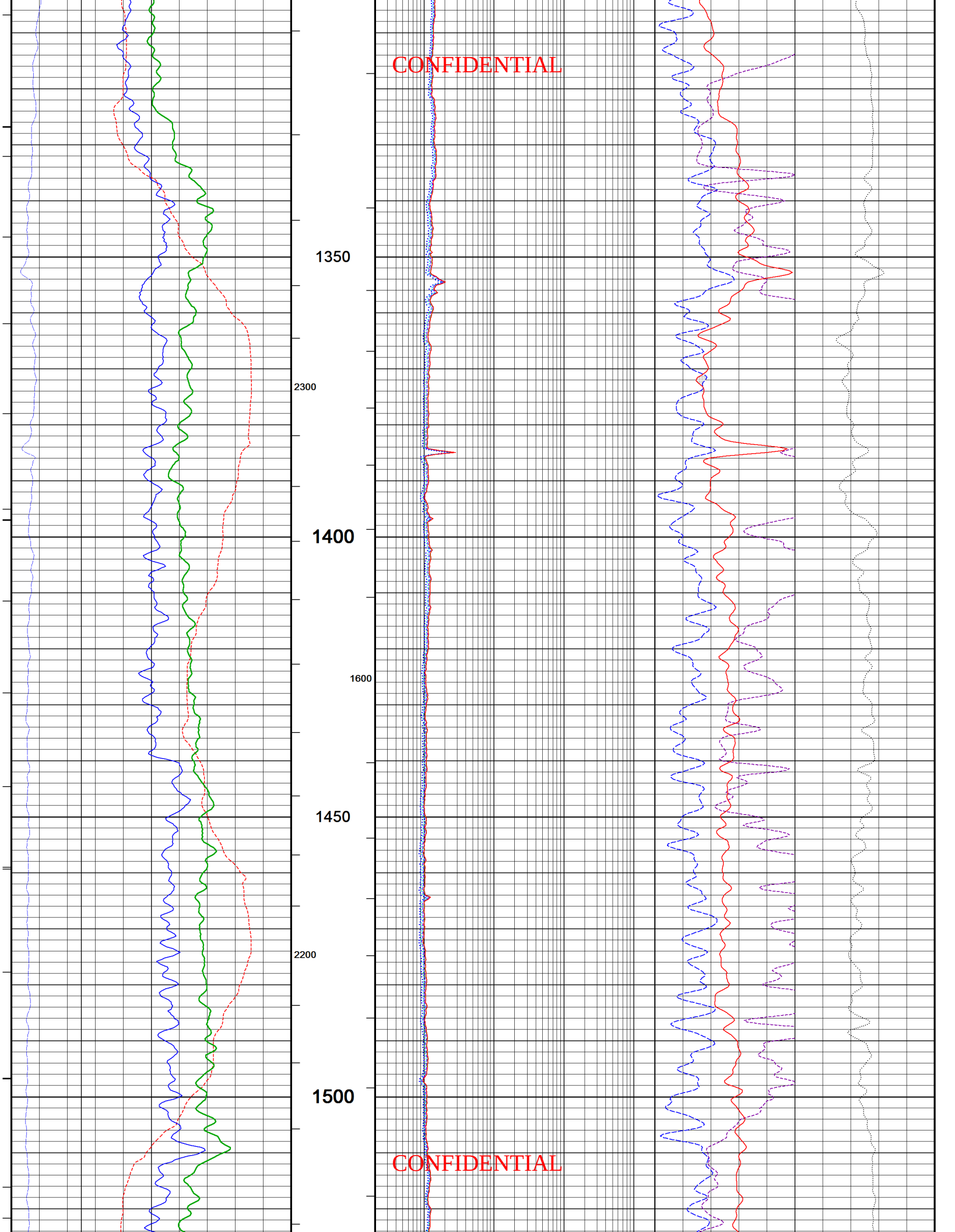
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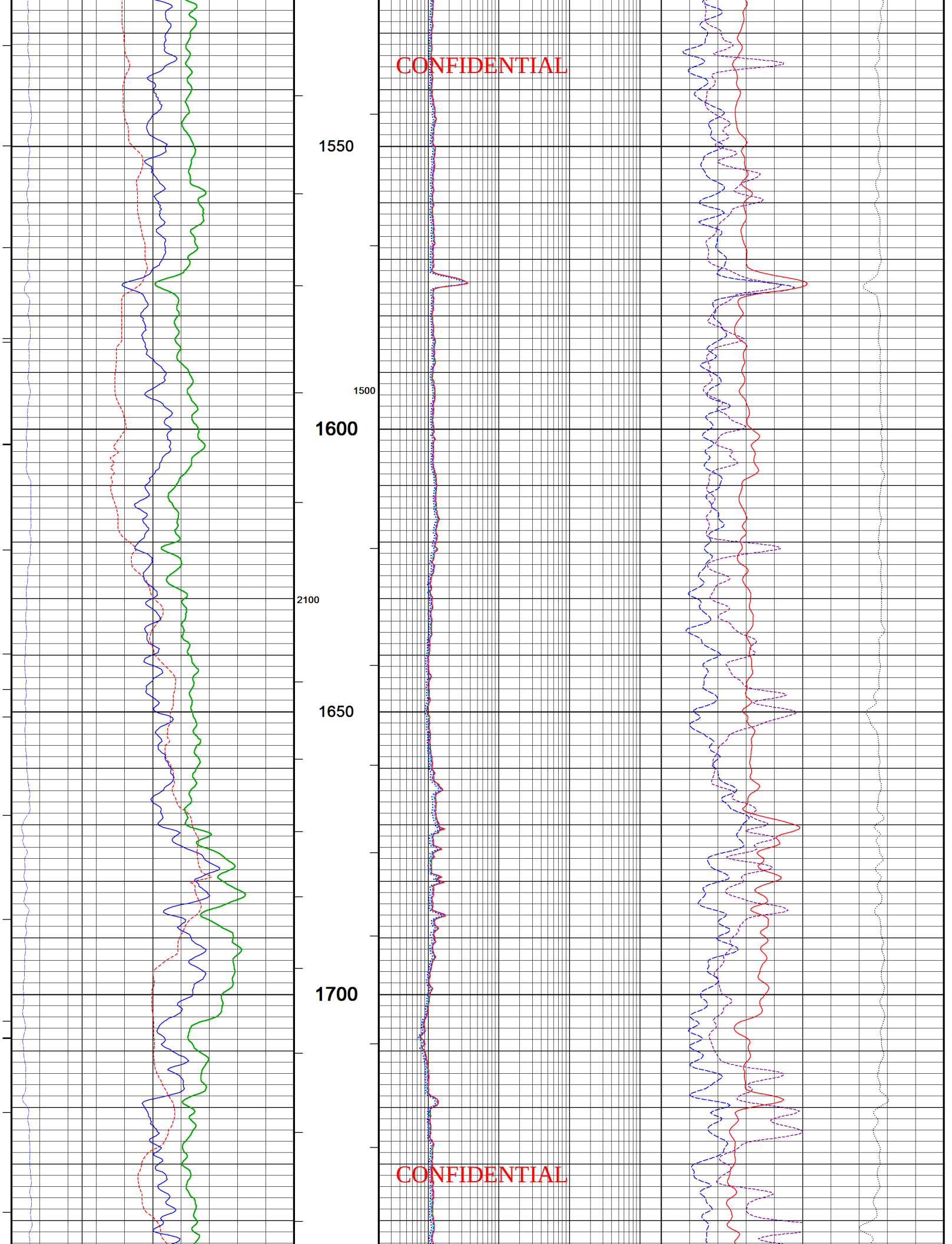
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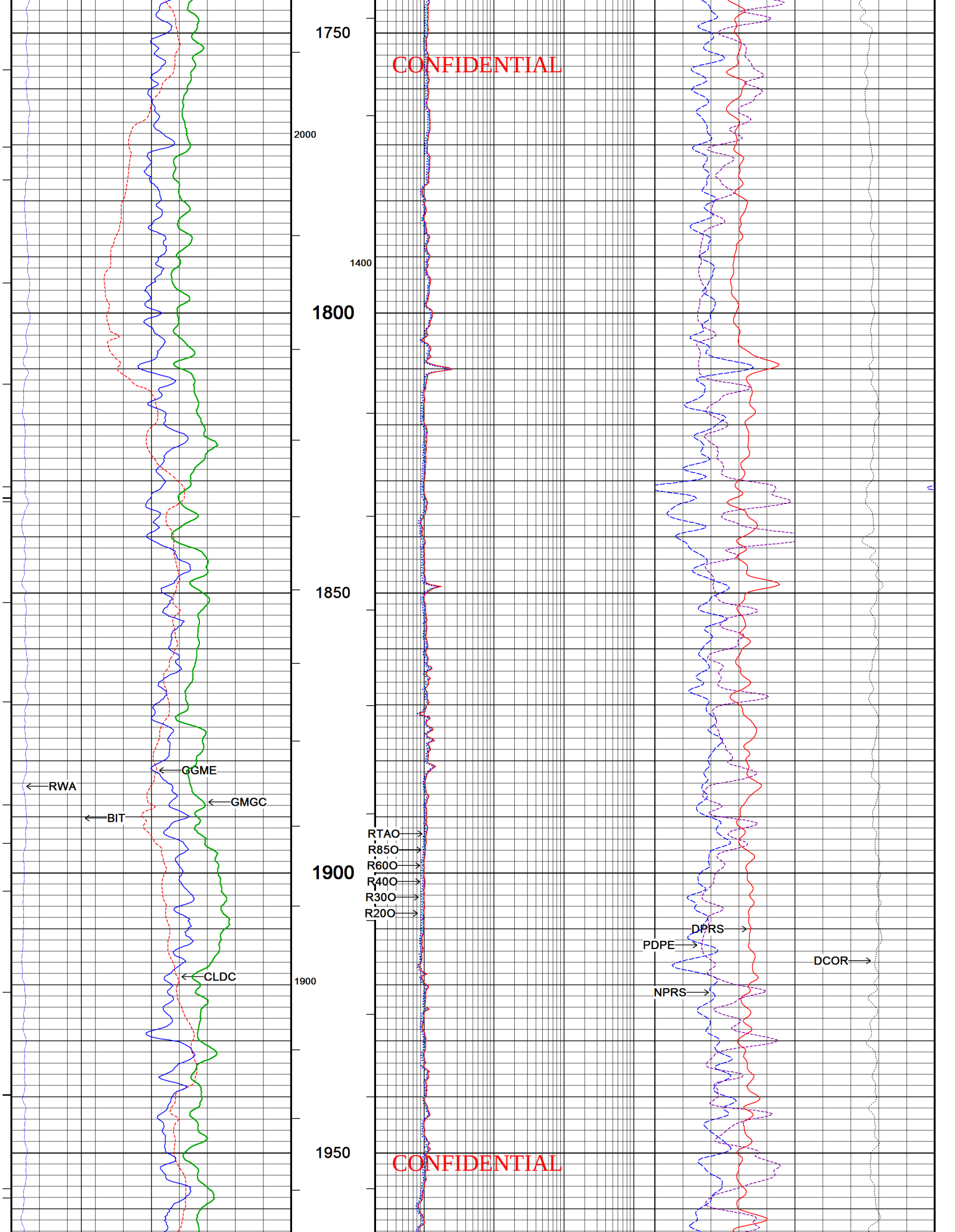
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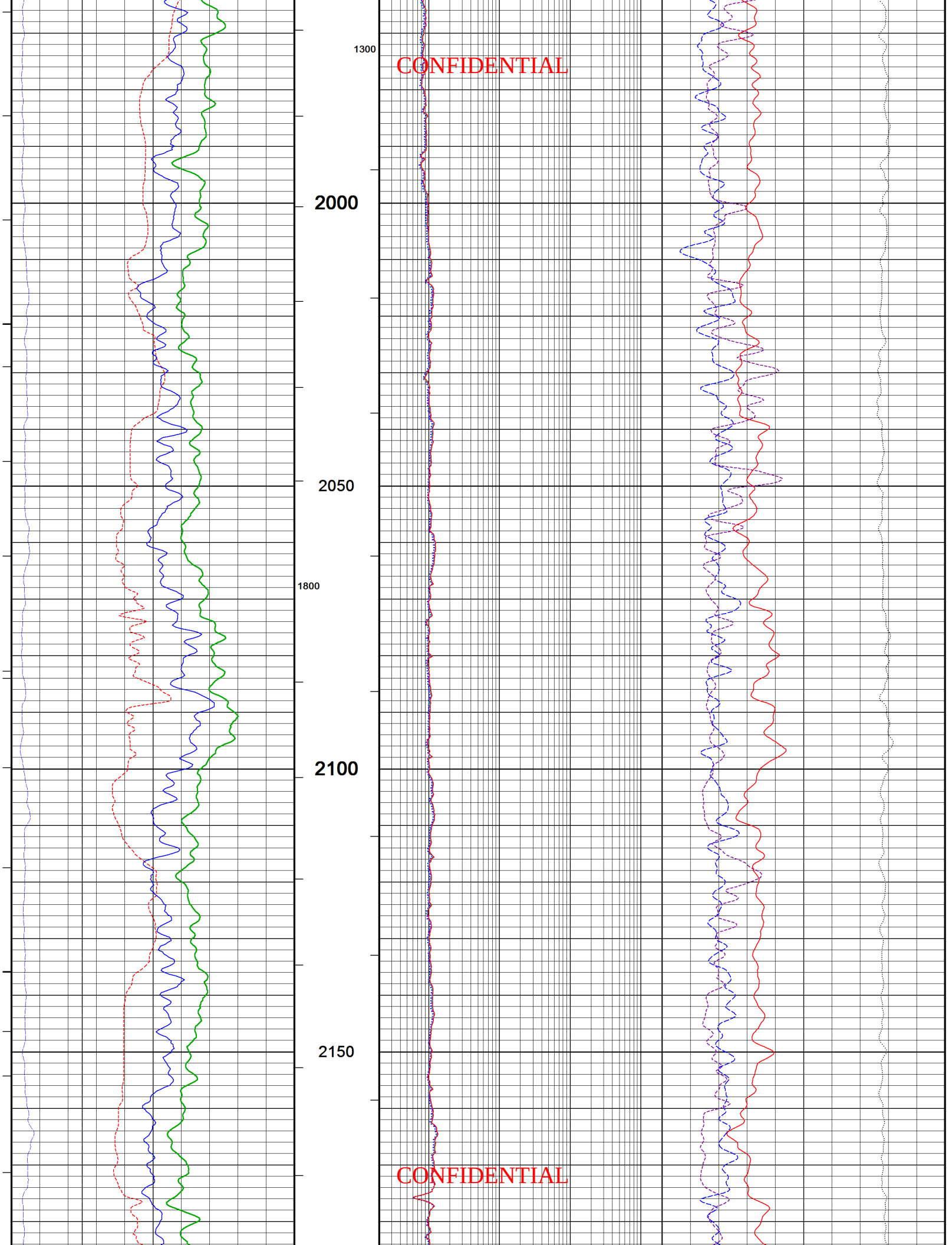
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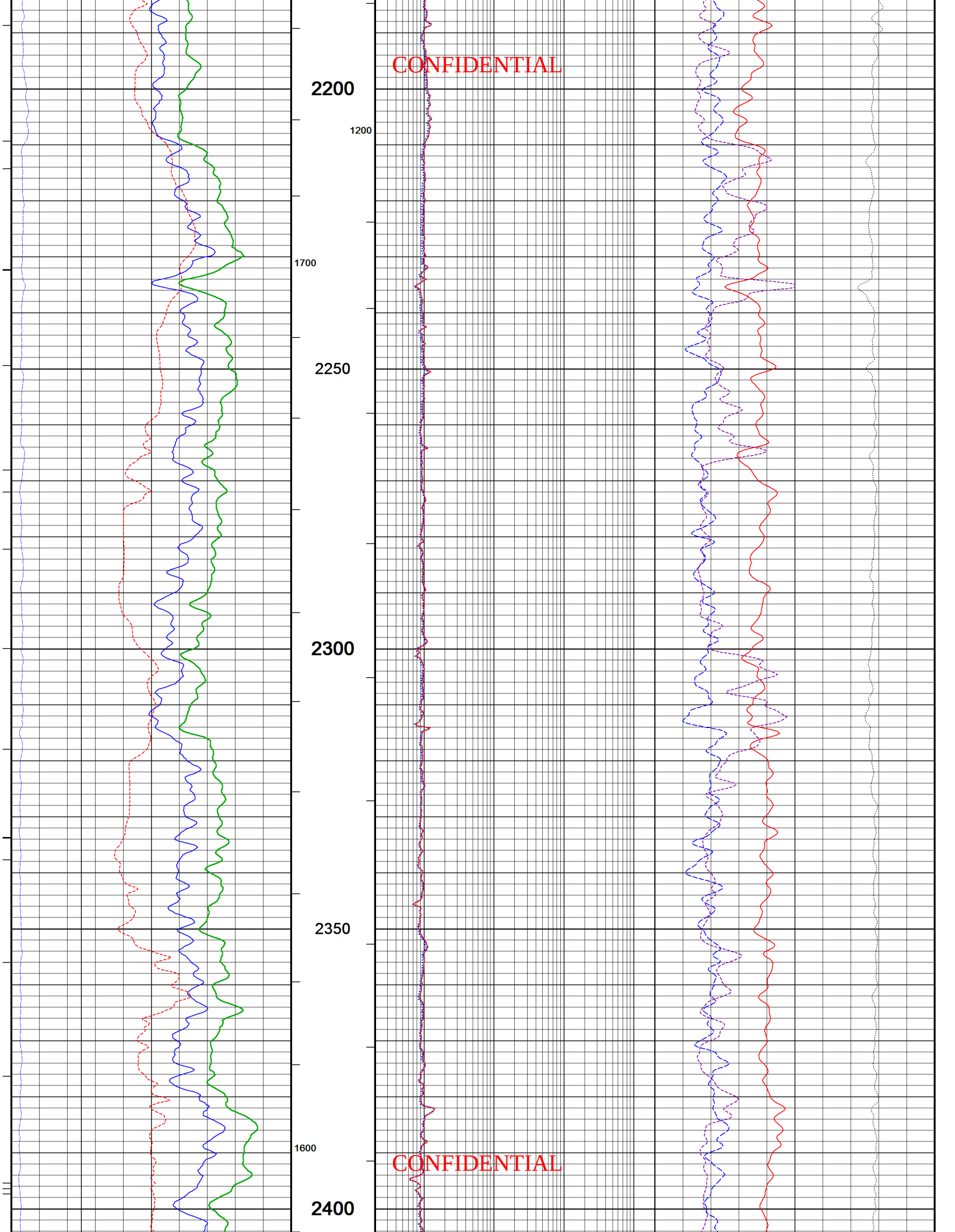
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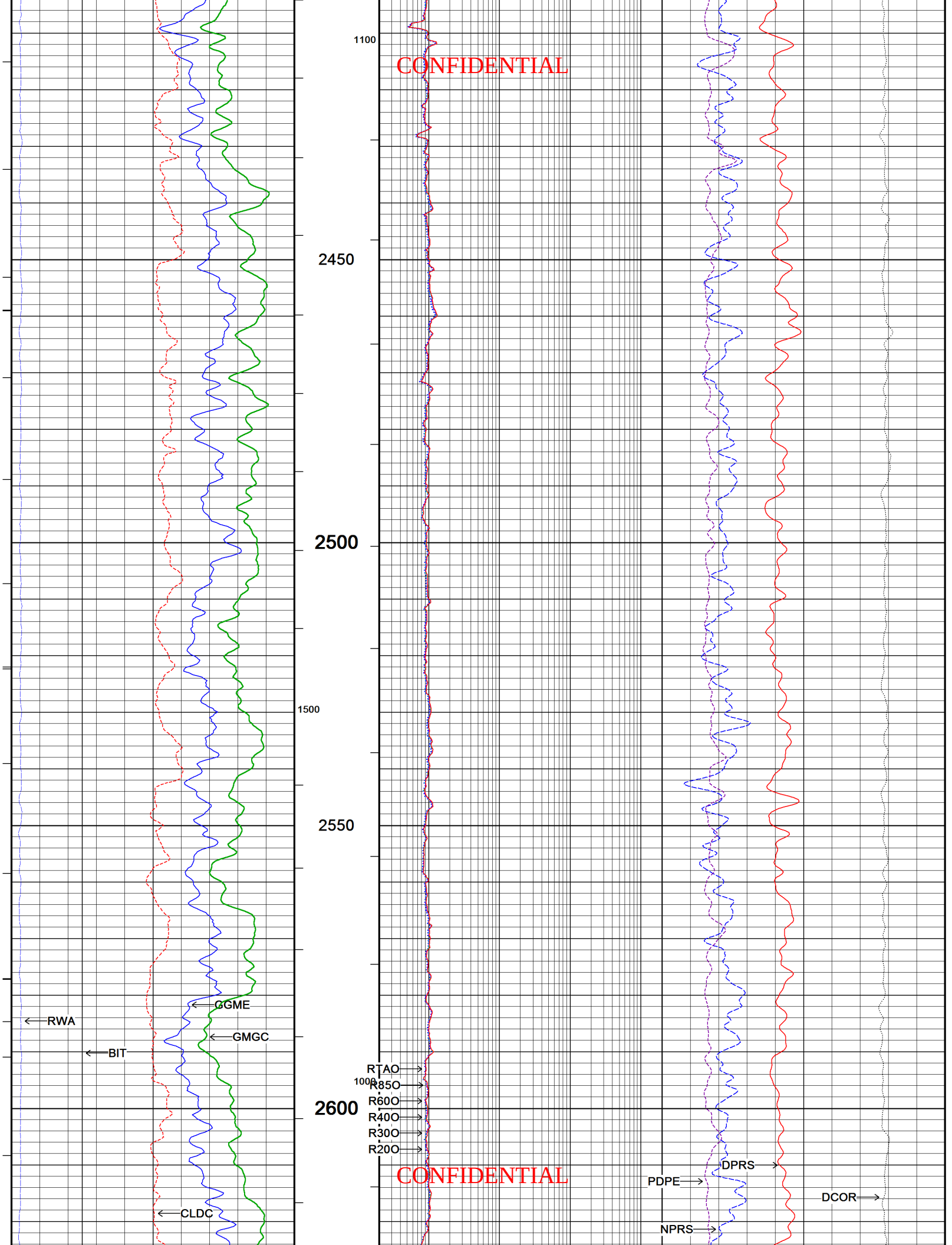
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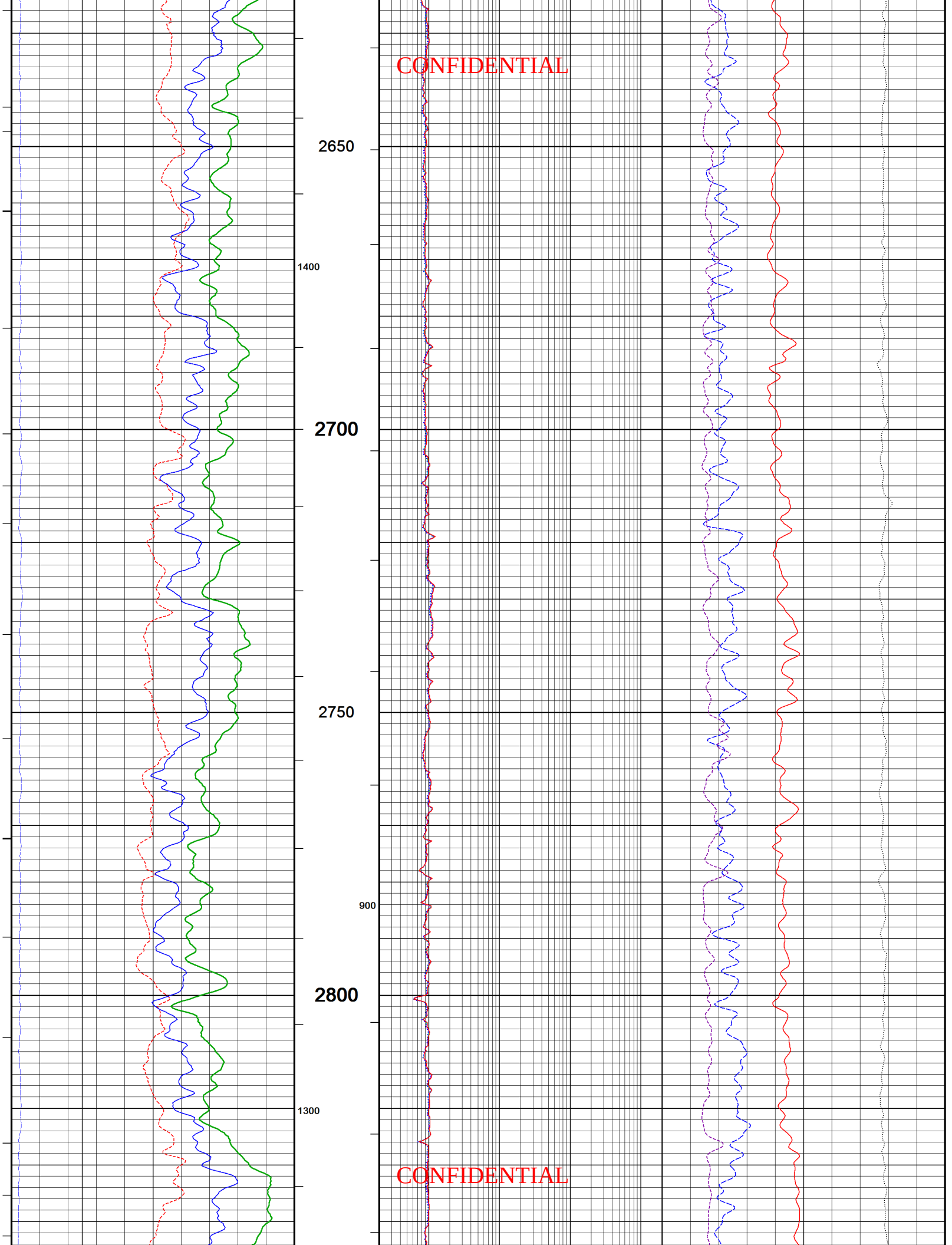
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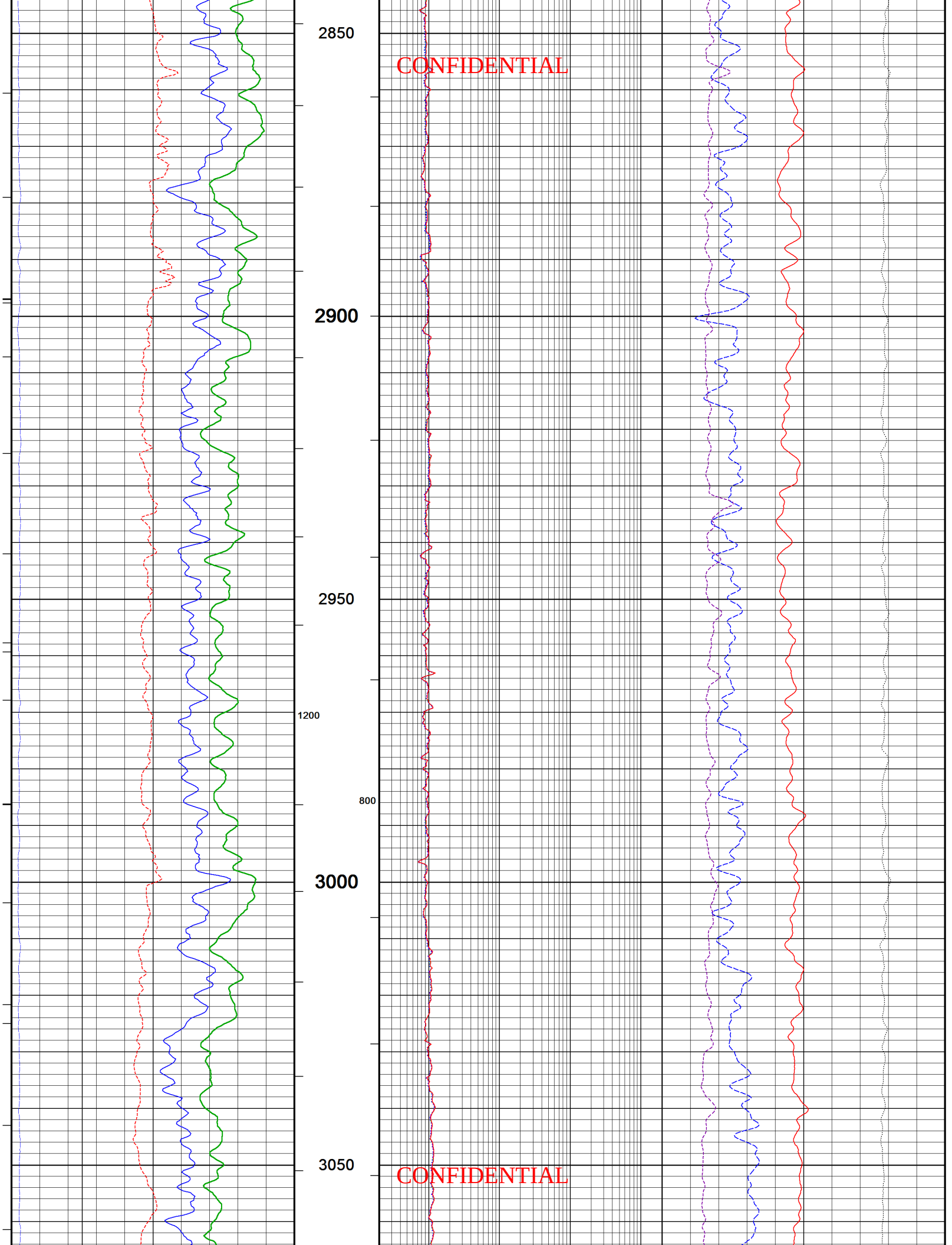
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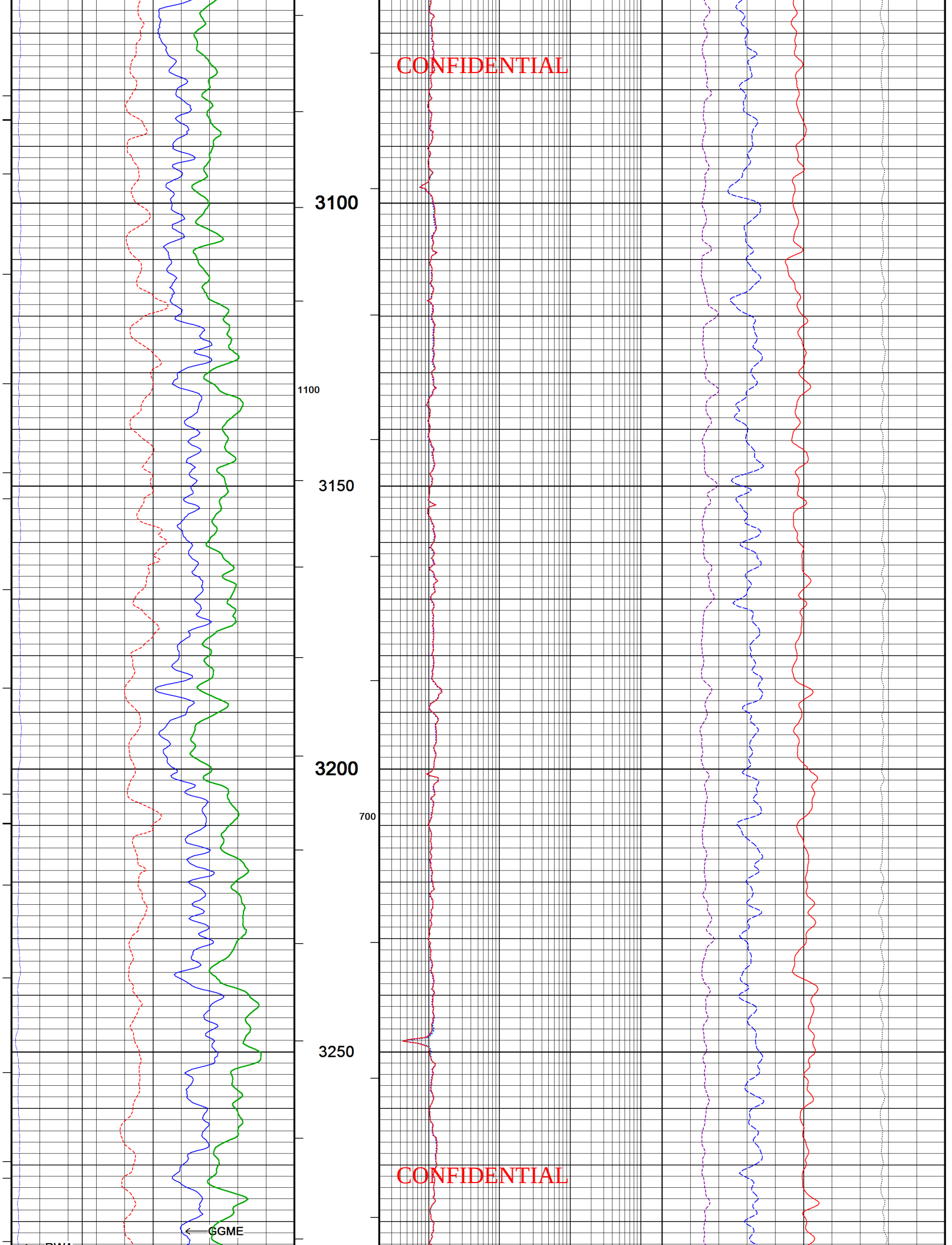
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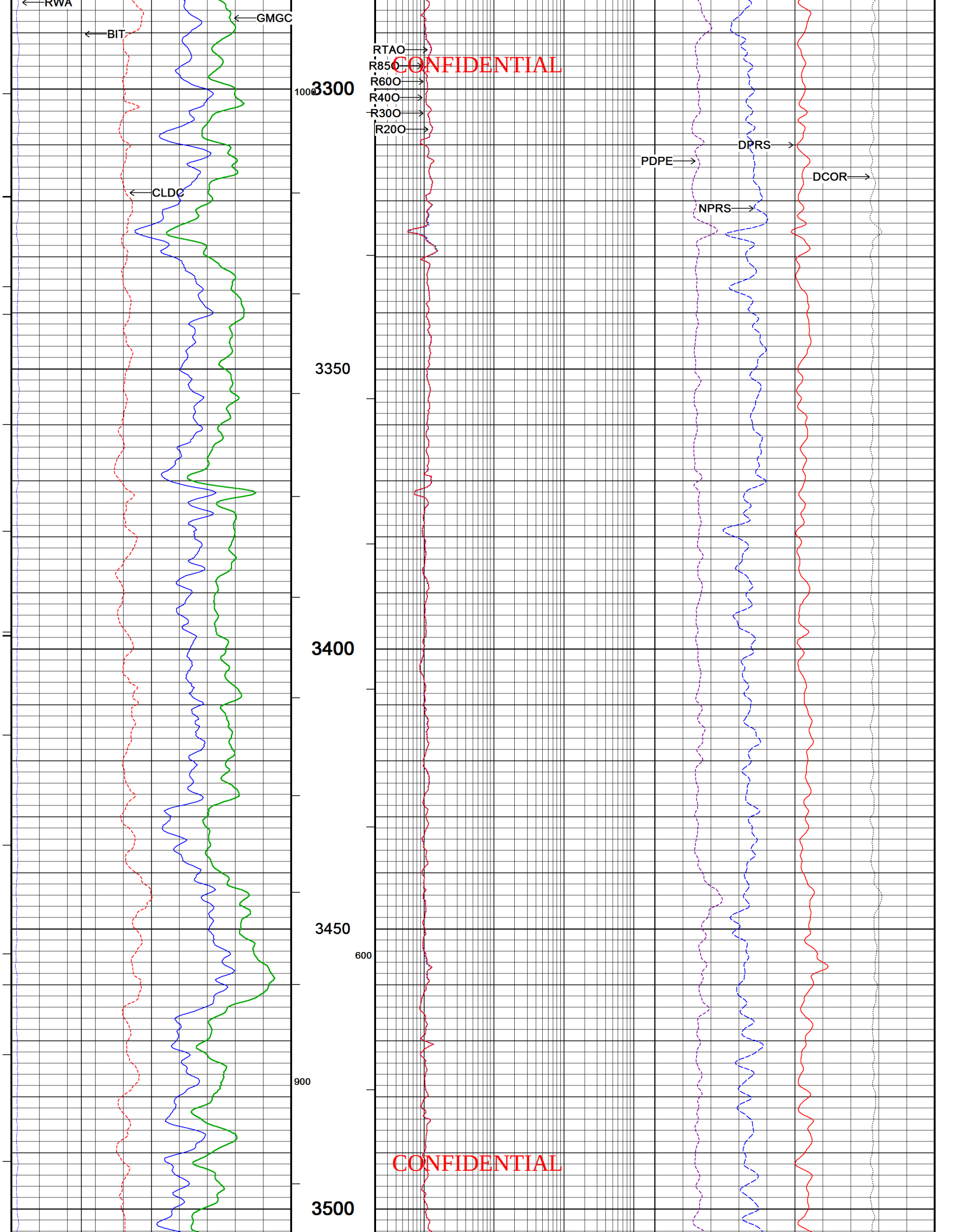
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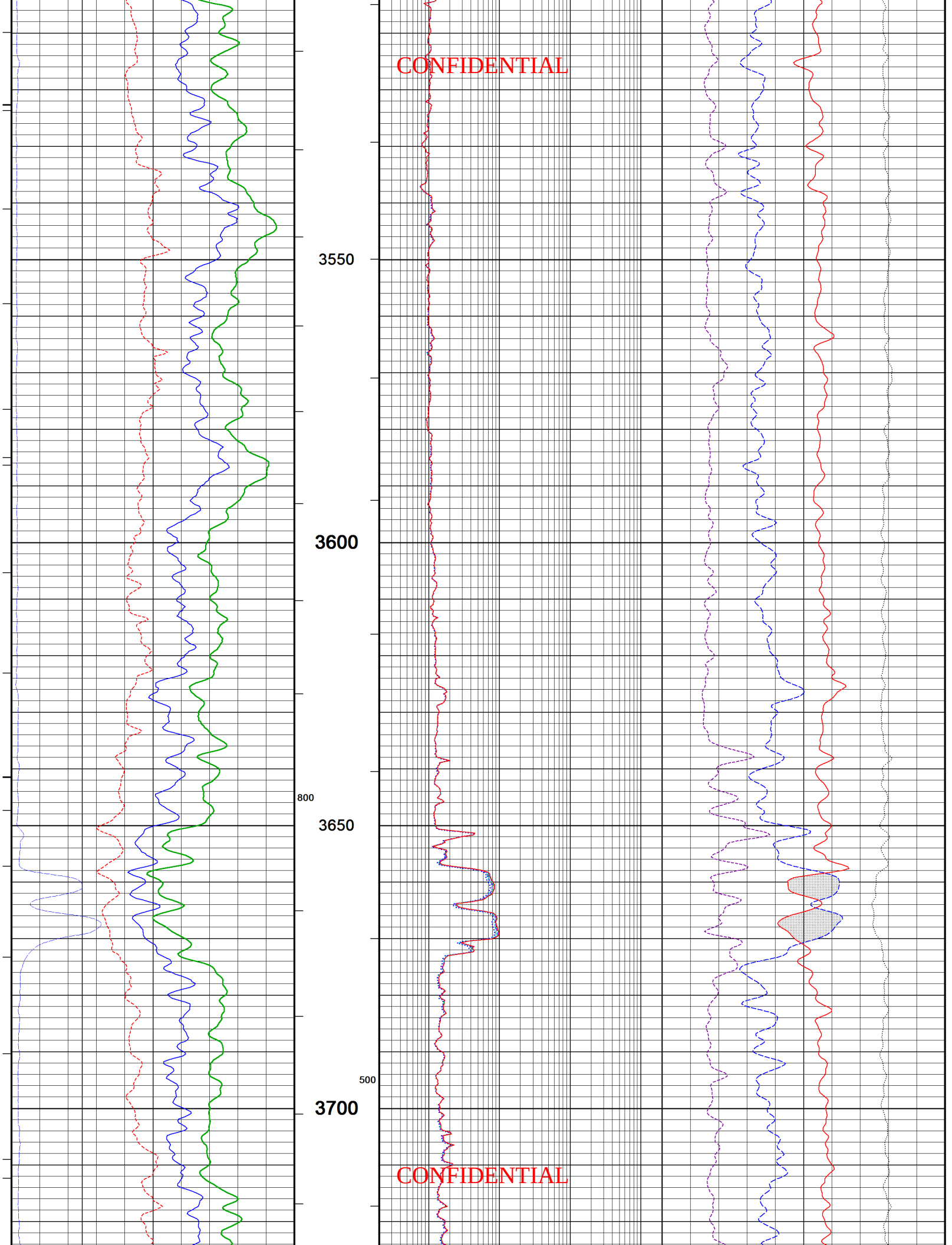
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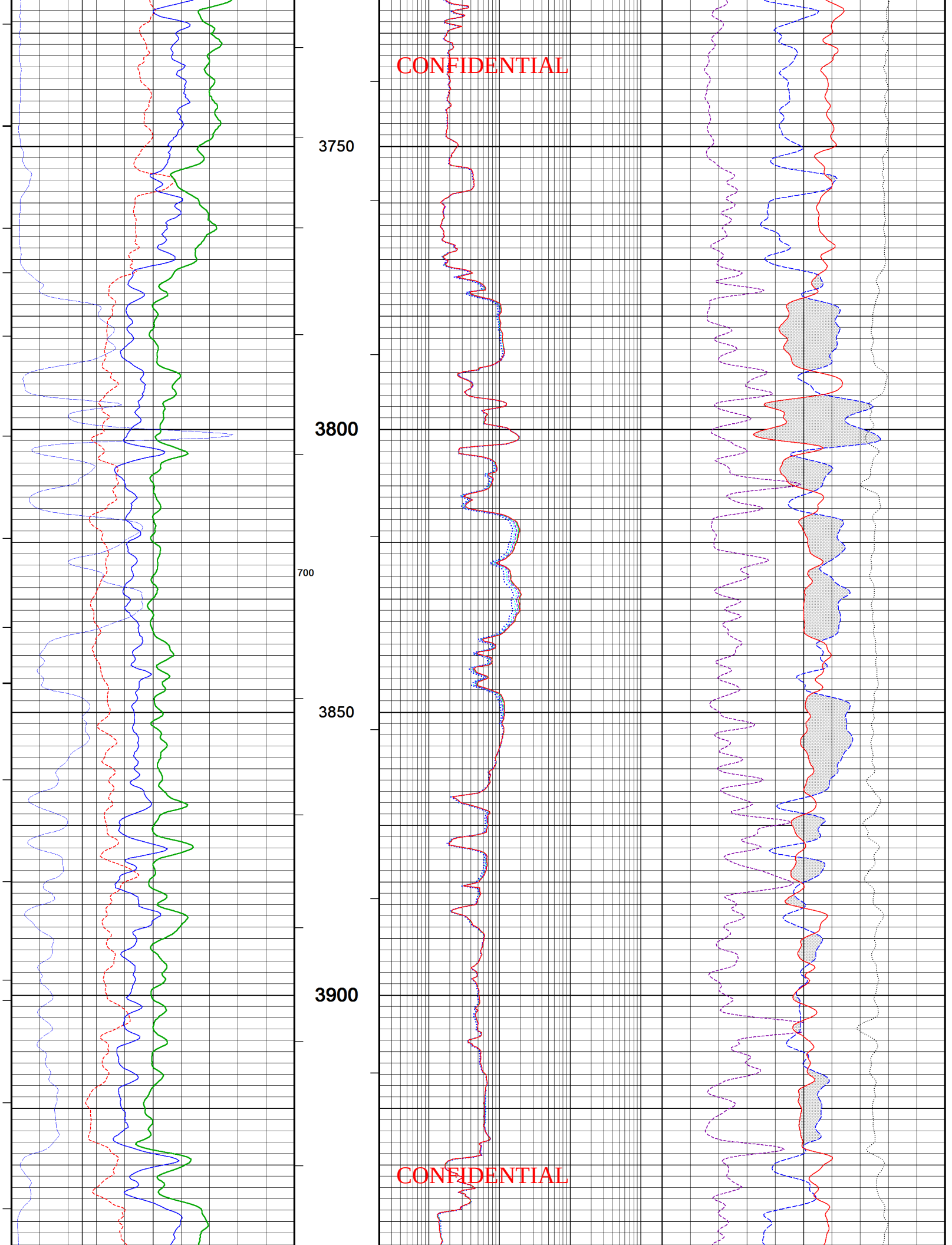
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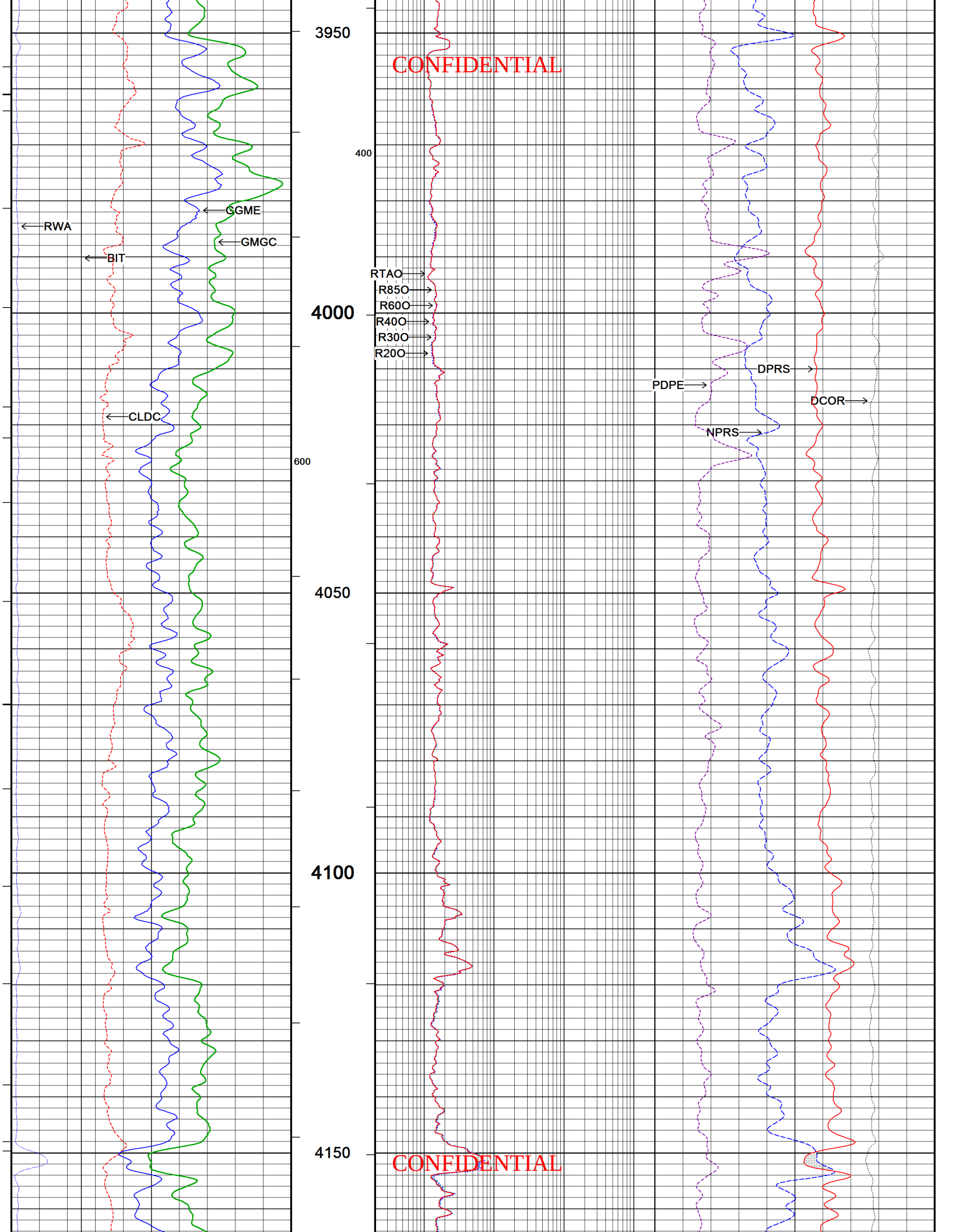
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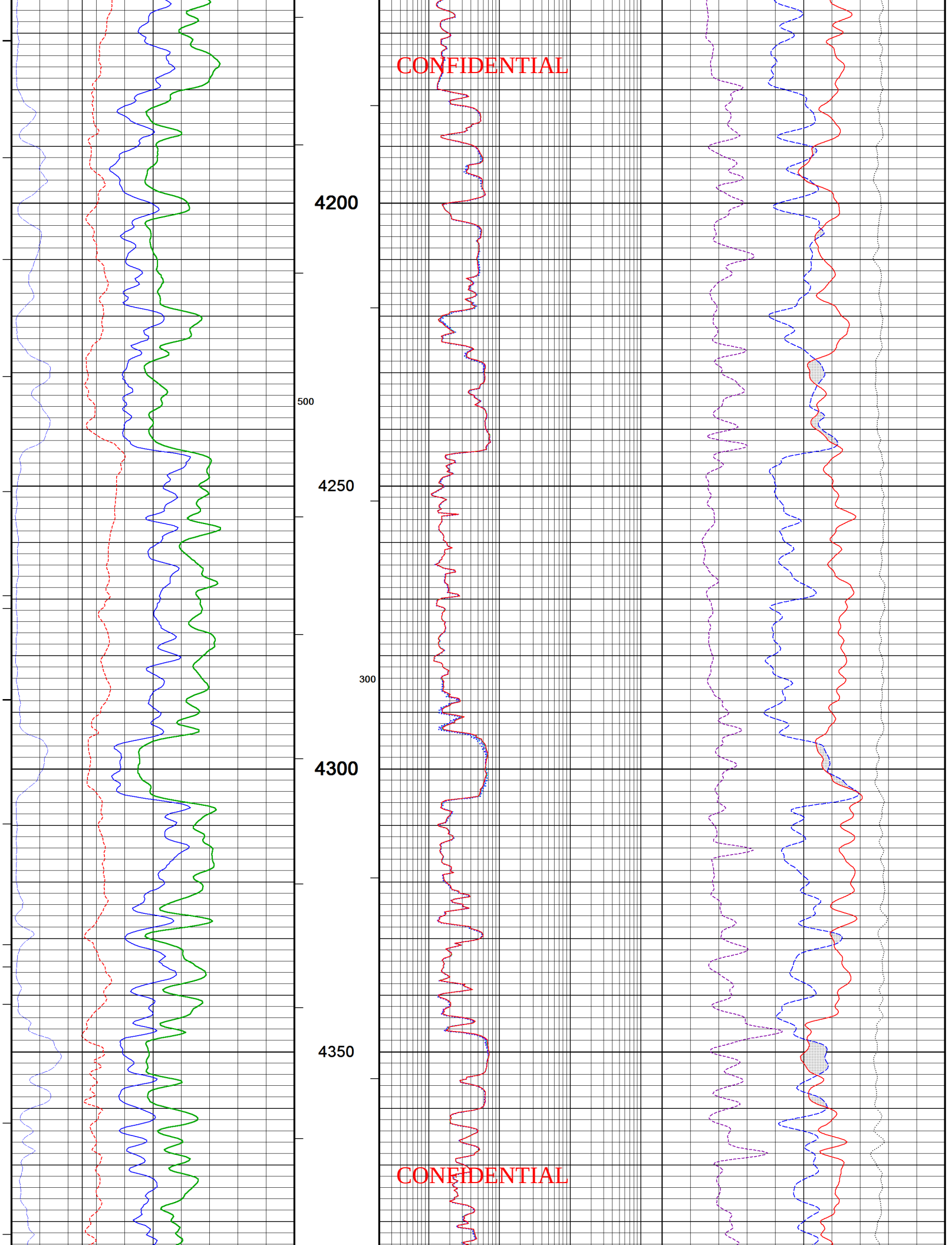
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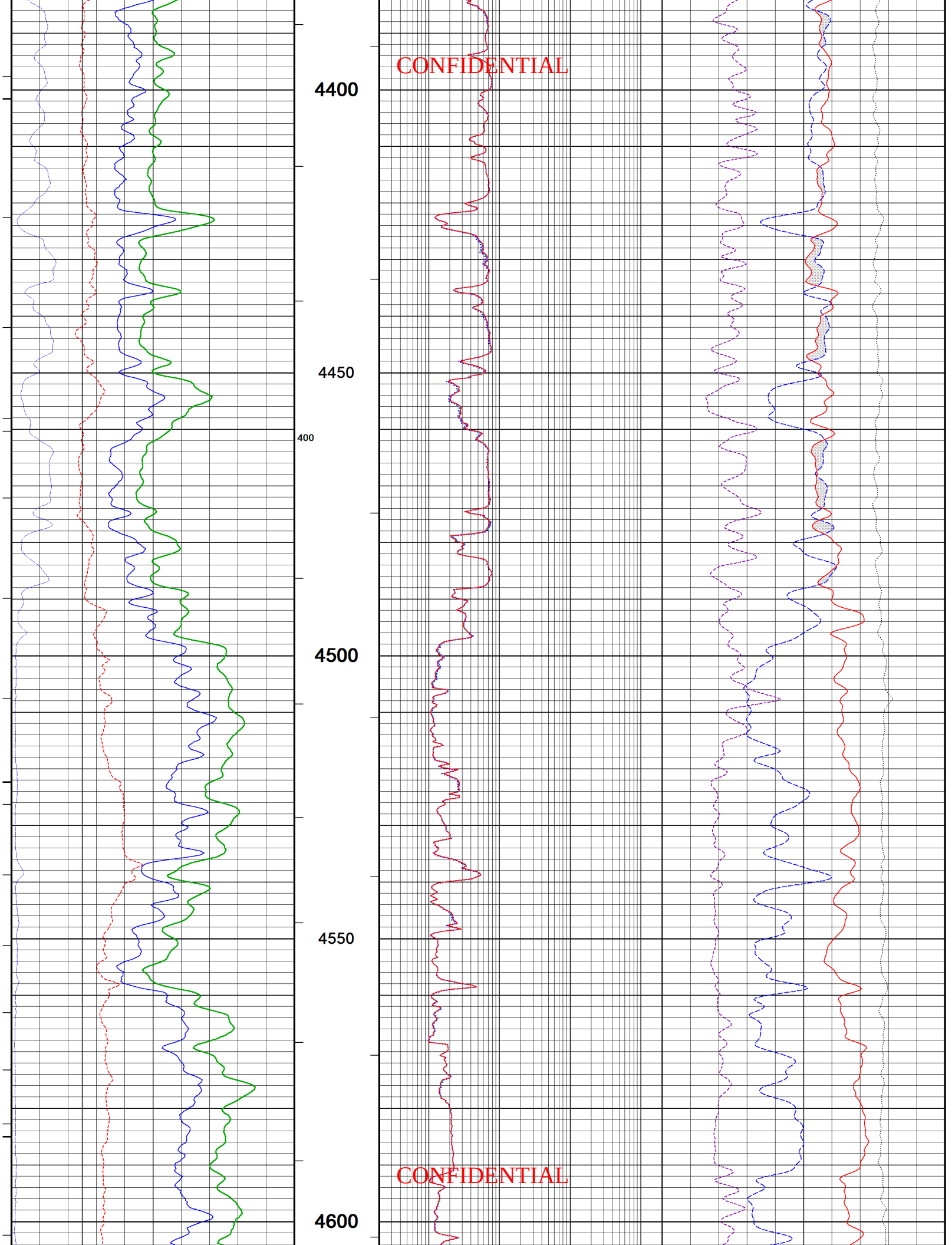
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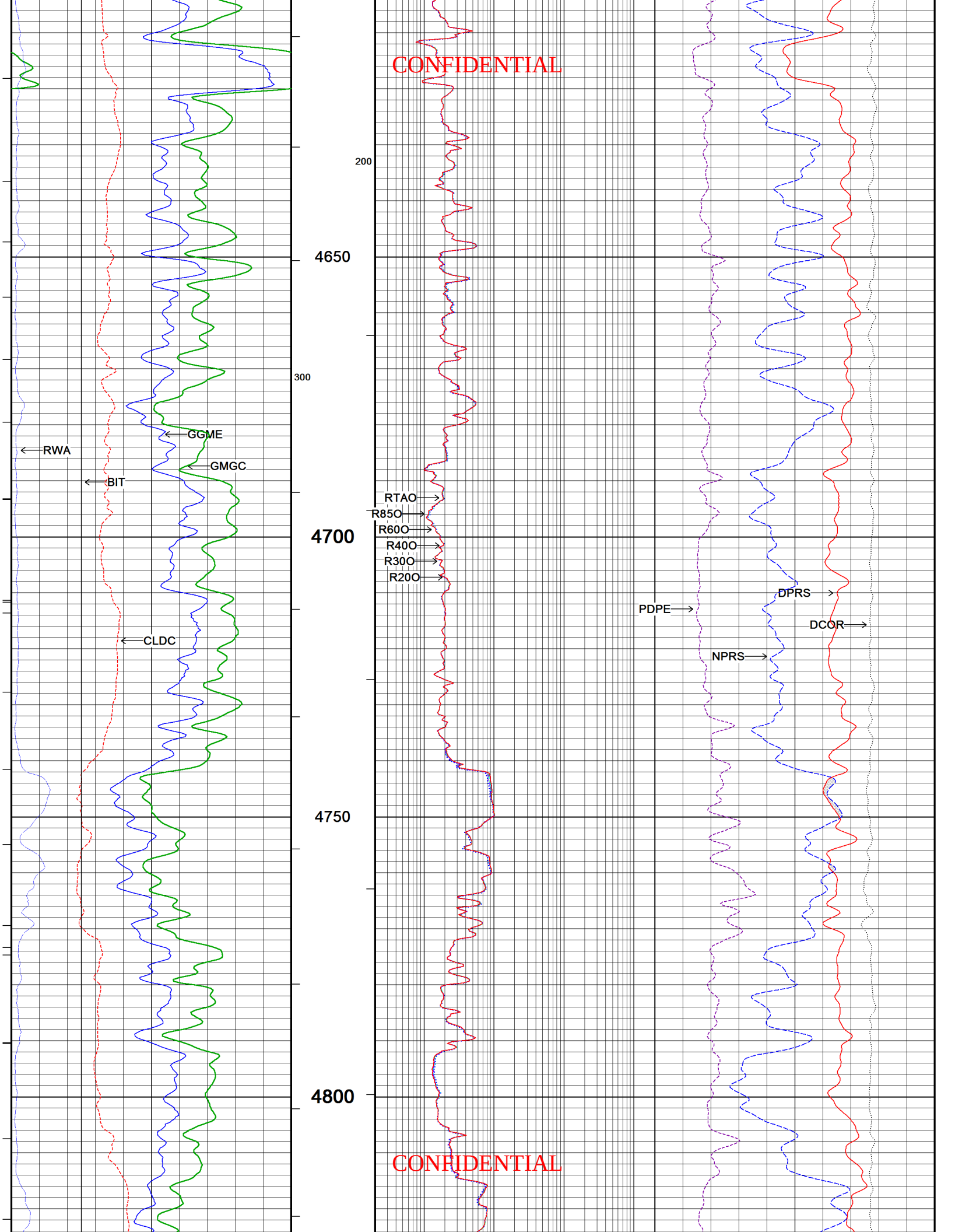
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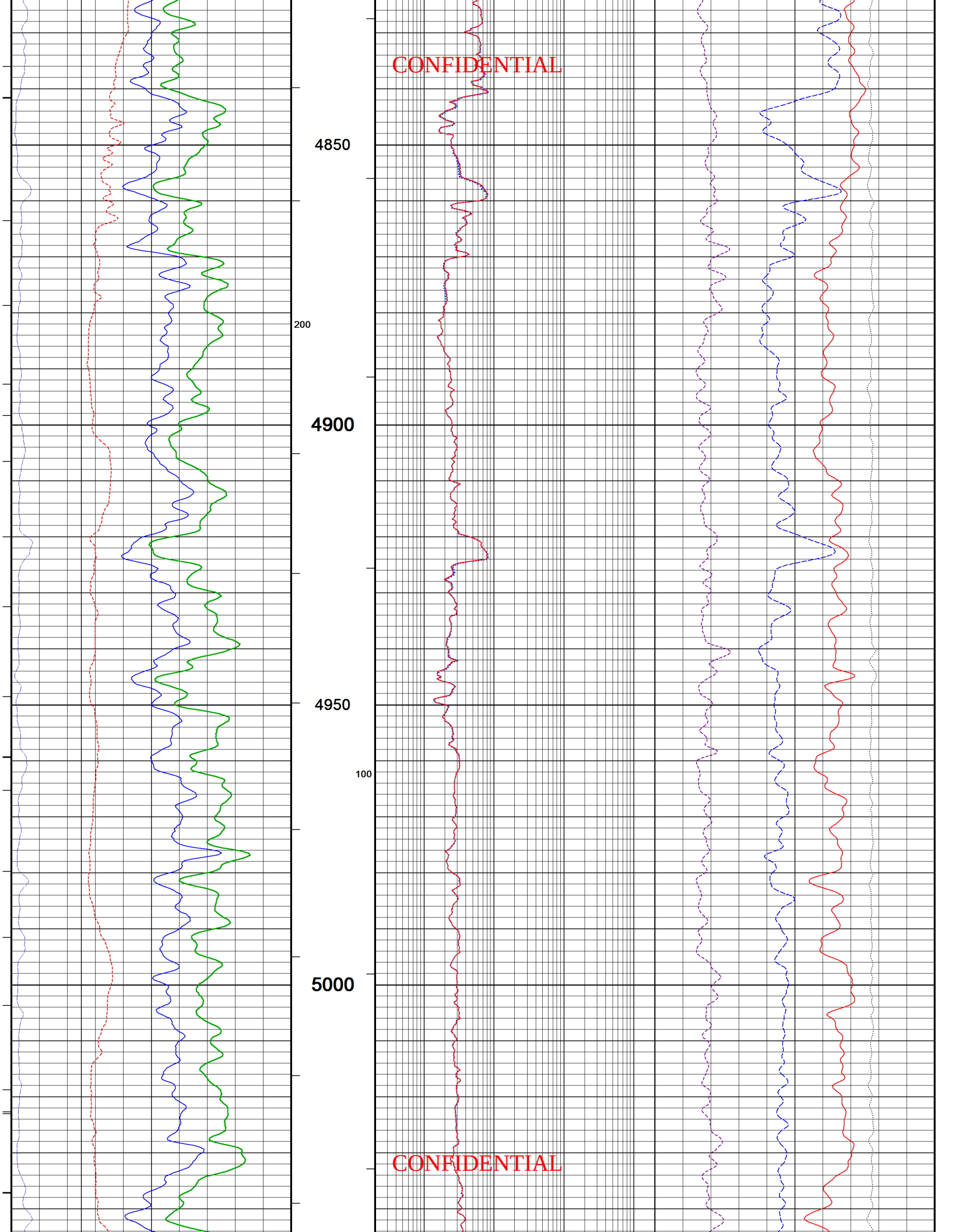
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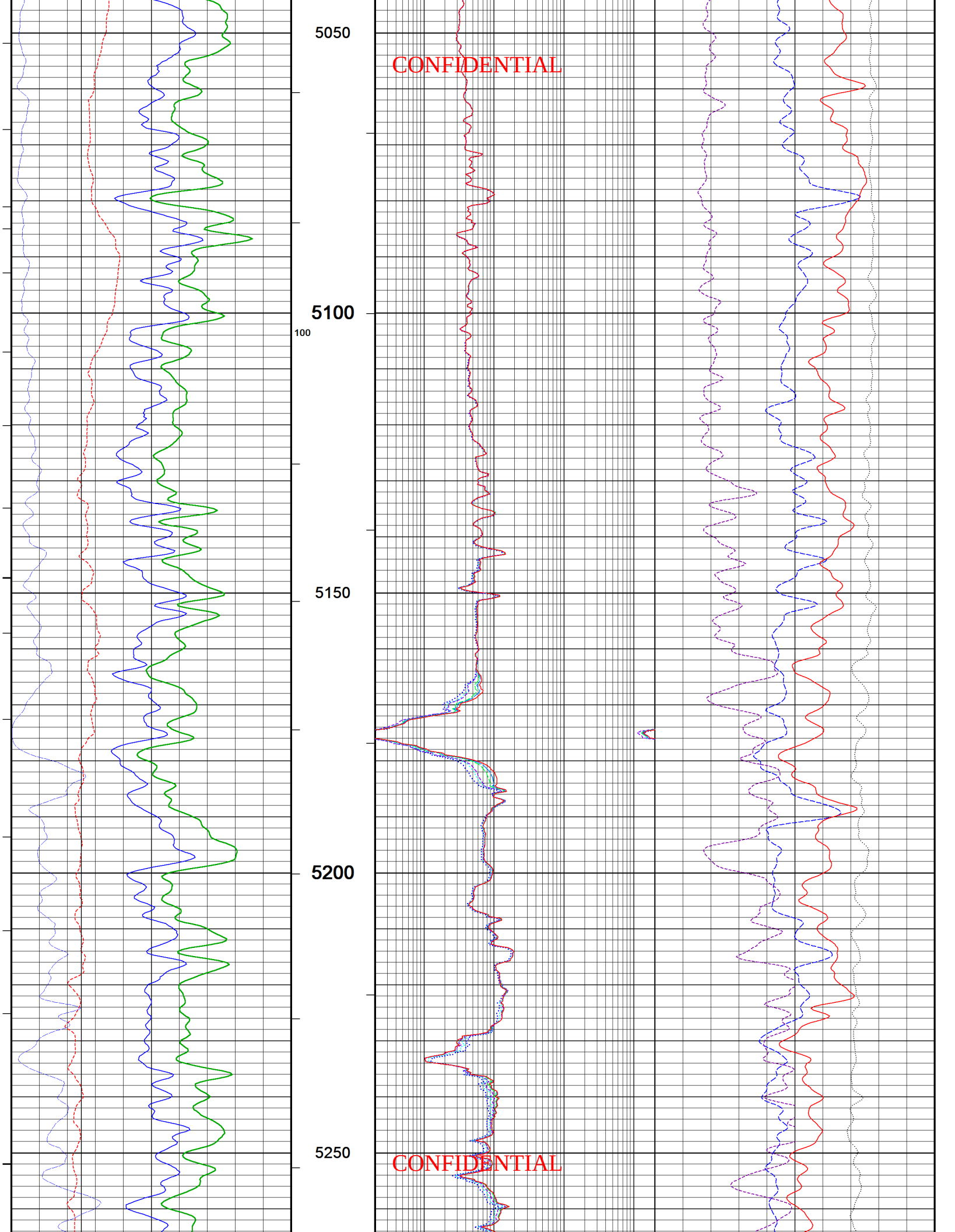
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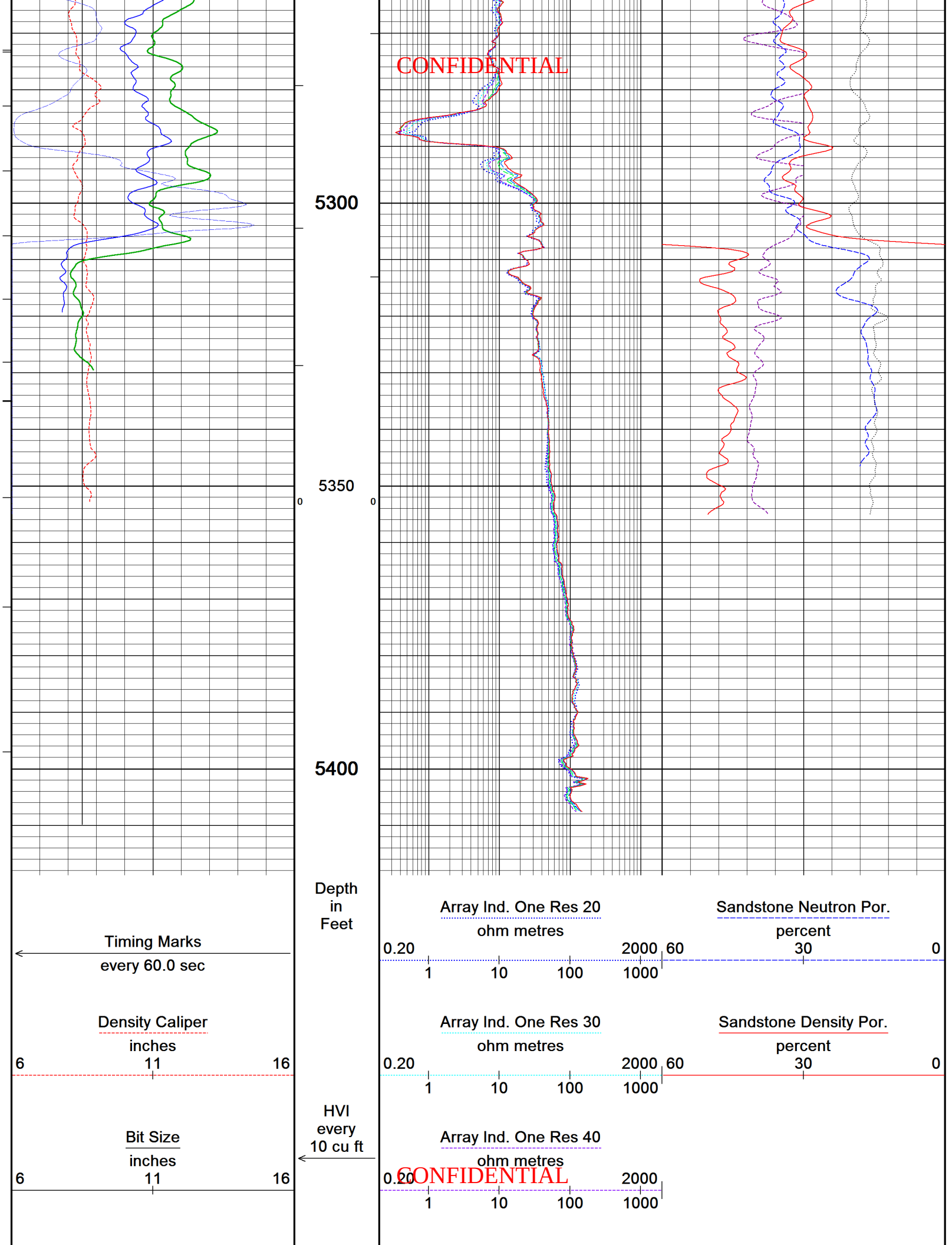
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5300
5350
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0
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Depth
in
Feet
Timing Marks
every 60.0 sec
Array Ind. One Res 20
ohm metres
0.20
2000
1
10
100
1000
Sandstone Neutron Por.
percent
60
30
0
Density Caliper
inches
6
11
16
Array Ind. One Res 30
ohm metres
0.20
2000
1
10
100
1000
Sandstone Density Por.
percent
60
30
0
HVI
every
10 cu ft
Bit Size
inches
6
11
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Array Ind. One Res 40
ohm metres
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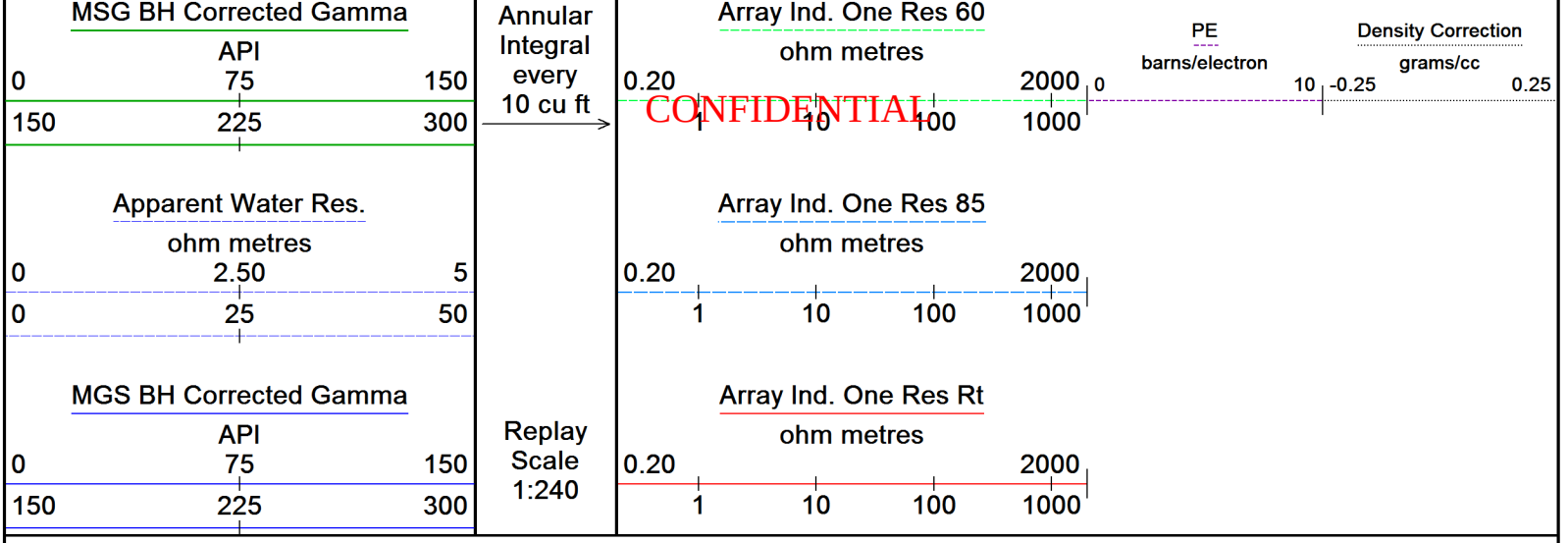


Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 20-FEB-2018 09:56
Filename: C:\LOGS\ALTA MESA\FALLON 1-10\MAIN LOG.dta — Recorded on 19-FEB-2018 23:06
System Versions: Logged with 17.05.7583 Processed with 17.05.7583 Plotted with 17.05.7583

5 INCH MAIN PASS

BEFORE SURVEY CALIBRATION

C:\LOGS\ALTA MESA\FALLON 1-10\MAIN LOG.dta

General Constants All 000

Last Edited on 20-FEB-2018,00:28

General Parameters		
Mud Resistivity	2.500	ohm-metres
Mud Resistivity Temperature	100.000	degrees F
Water Level	0.000	feet
Borehole Fluid Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Method	Single Caliper	
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	5.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. Two Res Rt	
RWA Constant A	0.620	
RWA Constant M	2.150	
SW/APOR Tool Source	0.000	

Gamma Calibration MGS-D.A 218

Field Calibration on 17-FEB-2018 15:15

	Measured	Calibrated (API)
Background	107	69
Calibrator (Gross)	933	603
Calibrator (Net)	826	534

Gamma Calibration Tolerances MGS-D.A 218

Ratio 1.547 (1.40 – 1.475 – 1.55) Counts/API

Gamma Constants MGS-D.A 218

Last Edited on 19-FEB-2018,00:28

Gamma Calibrator Number	GRCC-225	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.52	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

K Mud Concentration 0.00 %

Neutron Calibration MDN-C.A 464

Base Calibration on 31-JAN-2018 09:59
Field Check on 17-FEB-2018 14:40

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3027	93	3714	110
Ratio	32.541		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1808	2701
Ratio	0.669	

Field Check

	Calibrated (cps)	
	1801	2681
Ratio	0.672	

Neutron Calibration Tolerances MDN-C.A 464

Ratio	32.541	-5% 33 +5%
Base Check	0.669	0.65 0.7 0.75
Field Check	0.672	0.649 0.669 0.689

Neutron Constants MDN-C.A 464

Last Edited on 17-FEB-2018,14:31

Neutron Source Id	P62413B	
Neutron Jig Number	NJ6677	
Air Hole Processing	Modified Ratio	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	7.00	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	None	
Temperature	N/A	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

Induction Calibration MAI-C.A 456

Factory Loop Calibration on 06-FEB-2018 09:39
Field Check on 17-FEB-2018 14:56

Factory Loop Calibration

High Conductivity Reference Resistor	3.3	ohm
Low Conductivity Reference Resistor	333.3	ohm

	Measured Signal (unitless)		Reference Conductivity (mmho/m)		Calibration	
Array	Low	High	Low	High	Gain	Offset
1 (near)	16.2	452.6	9.3	966.2	2.193	-26.2
2	5.6	366.0	7.6	821.4	2.258	-5.1
3	2.9	251.0	5.2	566.0	2.260	-1.3
4 (far)	1.3	130.8	2.6	279.2	2.136	-0.1

Array Temperature 73.2 Deg F

Tool Checks

	Factory Reference (mmho/m)		Before Survey (mmho/m)	
Array	Low	High	Low	High
1 (near)	-4.4	2129.0	-4.4	2128.8
2	14.8	1960.4	14.8	1960.1
3	15.6	1677.6	15.6	1677.3
4 (far)	11.2	1123.7	11.2	1123.5

Array Temperature 47.9 48.2 Deg F

Induction Check Tolerances MAI-C.A 456

Low Array 1	-4.4	-5.9	-4.4	-2.9	mmho/m	High Array 1	2128.8	-0.5%	2129.0	+0.5%	mmho/m
Low Array 2	14.8	13.3	14.8	16.3	mmho/m	High Array 2	1960.1	-0.5%	1960.4	+0.5%	mmho/m
Low Array 3	15.6	14.1	15.6	17.1	mmho/m	High Array 3	1677.3	-0.5%	1677.6	+0.5%	mmho/m
Low Array 4	11.2	9.7	11.2	12.7	mmho/m	High Array 4	1123.5	-0.5%	1123.7	+0.5%	mmho/m

Induction Constants MAI-C.A 456

Last Edited on 17-FEB-2018,14:52

Induction Model	RtAP-WBM	
Borehole Correction Constants		
Tool Centred	No	
Hole Size Source	Density Caliper	
Hole Size Constant Value	N/A	inches
Stand-off Type	Pineapple	
Stand-off	0.49	inches
Number of Fins on Stand-off	5.0000	
Stand-off Fin Angle	72.00	degrees
Stand-off Fin Width	1.3878	inches
Rm Source	Global Value: Temperature Corrected	
Temp. for Rm Corr.	MGS External Temperature	
Borehole Correction Method	Default	
Squasher Start	0.0020	mhos/metre
Squasher Offset	N/A	mhos/metre

Borehole Normalisation

DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre

Symmetrised Receiver Gains

Receiver 1	1.00
Receiver 2	1.00
Receiver 3	1.00
Receiver 4	1.00

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m
Source for Rt	0.00	
Source for Rxo	0.00	

Compact Spectral Gamma Calibration MSG-A.A 105

Base Calibration on 15-JAN-2018 13:48
Field Calibration on 17-FEB-2018 11:47

Base Calibration

Gamma Ray

	Measured	Calibrated (API)
Background	66	29
Calibrator (Gross)	683	300
Calibrator (Net)	617	271

Mixture Calibrator

	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
Background	53.6	8.6	2.2	0.6	1.0

Calibrator (Gross)	542.0	96.5	27.4	7.7	9.9
Calibrator (Net)	488.4	87.9	25.2	7.1	8.9

	K %	U ppm	Th ppm
Concentrations	5.9	13.6	43.7

Potassium Calibrator

	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
Background	53.6	8.6	2.2	0.6	1.0
Calibrator (Gross)	128.4	38.3	15.4	0.7	1.1
Calibrator (Net)	74.8	29.7	13.2	0.1	0.1

	K %	U ppm	Th ppm
Concentrations	5.9	0.0	0.0

Uranium Calibrator

	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
Background	53.6	8.6	2.2	0.6	1.0
Calibrator (Gross)	333.4	47.2	11.3	5.3	2.6
Calibrator (Net)	279.9	38.6	9.2	4.7	1.6

	K %	U ppm	Th ppm
Concentrations	0.0	17.8	0.0

Thorium Calibrator

	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
Background	53.6	8.6	2.2	0.6	1.0
Calibrator (Gross)	253.6	36.5	7.5	4.1	8.6
Calibrator (Net)	200.0	27.9	5.4	3.5	7.6

	K %	U ppm	Th ppm
Concentrations	0.0	0.0	46.3

Field @ Base Calibration

Calibration Type	SG Jigs
SGB Calibrator Serial Number	440
SGM Calibrator Serial Number	450

Gamma Ray

	Measured	Calibrated (API)
Background	62.4	27.2
Calibrator (Gross)	683.7	298.4
Calibrator (Net)	621.3	271.2

Mixture Calibrator

	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
Background	50.5	8.3	2.1	0.6	0.9
Calibrator (Gross)	542.9	95.7	27.9	7.5	9.7
Calibrator (Net)	492.4	87.5	25.8	6.9	8.8

Field Calibration

Calibration Type	SG Jigs
SGB Calibrator Serial Number	440
SGM Calibrator Serial Number	450

Gamma Ray

	Measured	Calibrated (API)
Background	65.2	28.5
Calibrator (Gross)	684.4	299.7
Calibrator (Net)	619.2	271.2

Mixture Calibrator

	Gate 1	Gate 2	Gate 3	Gate 4	Gate 5
Background	52.7	8.6	2.2	0.6	1.0
Calibrator (Gross)	542.8	96.3	27.9	7.6	9.8
Calibrator (Net)	490.1	87.7	25.7	6.9	8.8

Compact Spectral Gamma Calibration Tolerances MSG-A.A 105

Base Check K	5.92	-13.80% 5.90 +13.80%	%	Field @ Base Check K	5.95	-13.80% 5.90 +13.80% %
Base Check U	13.53	-13.80% 13.60 +13.80%	ppm	Field @ Base Check U	14.02	-13.80% 13.60 +13.80% ppm
Base Check T	46.47	-13.80% 43.70 +13.80%	ppm	Field @ Base Check T	45.35	-13.80% 43.70 +13.80% ppm

Field Check K	6.01	-13.80% 5.90 +13.80%	%
Field Check U	13.79	-13.80% 13.60 +13.80%	ppm
Field Check T	45.56	-13.80% 43.70 +13.80%	ppm

Compact Spectral Gamma Constants MSG-A.A 105

Last Edited on 19-FEB-2018,00:50

Background Calibrator Number	440	
Mixture Calibrator Number	450	
Potassium Calibrator Number	500	
Uranium Calibrator Number	506	
Thorium Calibrator Number	503	
Mud Density	1.52	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

Photo Density Calibration MPD-D.A 478

Base Calibration on 31-JAN-2018 11:28
Field Check on 17-FEB-2018 14:30

Density Calibration

Base Calibration	Measured Near	Measured Far	Calibrated (sdu) Near	Calibrated (sdu) Far
Background	1155	1311		
Reference 1	51822	25931	59898	31131
Reference 2	21012	2460	24540	2525

Field Check at Base		
	1155.4	1310.7

Field Check		
	1158.2	1320.0

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	222	1033		
Reference 1	21873	51634	0.428	0.369
Reference 2	6286	20884	0.305	0.271

Field Check at Base		
	221.9	1033.3

Field Check		
	224.6	1034.1

Photo Density Calibration Tolerances MPD-D.A 478

Near Density Ratio	2.55	-5% 2.52 +5%	Far Density Ratio	21.42	-5% 21.00 +5%
PE Calibration	0.115	0.089 0.110 0.131			
Near Den. Field Check	1158.2	-3% 1155.4 +3%	Far Den. Field Check	1320.0	-3% 1310.7 +3%
PE WS Field Check	224.6	-6% 221.9 +6%	PE WH Field Check	1034.1	-6% 1033.3 +6%

Density Constants MPD-D.A 478

Last Edited on 19-FEB-2018,09:20

Density Source Id	P74825B	
Nylon Calibrator Number	DNCE631	
Aluminium Calibrator Number	DACD631	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.52	gm/cc
Mud Density Type		
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	

Precision Enhanced Density Processing	Not Applied
Matrix Density (gm/cc)	Depth (ft)
2.65	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

Caliper Calibration MPD-D.A 478

Base Calibration on 31-JAN-2018 11:35
Field Calibration on 17-FEB-2018 14:23

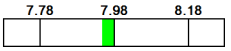
Base Calibration

Reading No	Measured	Calibrator Size (in)
1	18010	4.00
2	26360	5.96
3	34907	7.98
4	43095	9.86
5	52164	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.94	7.98

Caliper Calibration Tolerances MPD-D.A 478

Short Arm Field Cal. 7.94 

in

DOWNHOLE EQUIPMENT

C:\LOGS\ALTA MESA\FALLON 1-10\MAIN LOG.dta

Shuttle Running Tool 3.5"
SRT-A.A 59 LG: 5.90 ft WT: 37.5 lb OD: 2.520 in

Compact Swivel Head Adaptor
SHA-J.B 504 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Knuckle Joint
SKJ-E.B 533 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Linker
MLK-A 1 LG: 4.80 ft WT: 30.9 lb OD: 2.240 in

Compact Linker
MLK-A 2 LG: 14.23 ft WT: 30.9 lb OD: 2.240 in

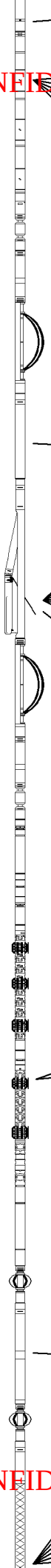
Compact Linker
MLK-A 3 LG: 14.23 ft WT: 30.9 lb OD: 2.240 in

Compact Knuckle Joint
SKJ-E.B 534 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

200v Compact Battery Sub
MBS-F.A 119 LG: 17.06 ft WT: 123.5 lb OD: 2.240 in

Compact Memory Sub F.A
MMS-F.A 249 LG: 5.20 ft WT: 37.5 lb OD: 2.244 in

95.52 ft GRGM - MGS Gamma Ray



Compact Tool Isolator sub.
MTI-C.A 99 LG: 1.54 ft WT: 13.2 lb OD: 2.244 in

Compact Short Gamma
MGS-D.A 218 LG: 3.41 ft WT: 24.3 lb OD: 2.244 in

Compact Spectral Gamma
MSG-A.A 105 LG: 10.94 ft WT: 90.4 lb OD: 2.244 in

Compact Knuckle Joint
SKJ-E.B 597 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Swivel Head Adaptor
SHA-J.B 571 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Inline Bowspring sub
MIS-D.B 726 LG: 5.70 ft WT: 33.1 lb OD: 2.244 in

Compact Neutron
MDN-C.A 464 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper
MPD-D.A 478 LG: 9.59 ft WT: 90.4 lb OD: 2.244 in

Compact Inline Bowspring sub
MIS-D.B 810 LG: 5.70 ft WT: 33.1 lb OD: 2.244 in

Compact Swivel Head Adaptor
SHA-J.B 588 LG: 2.30 ft WT: 22.0 lb OD: 2.244 in

Compact Knuckle Joint
SKJ-E.B 614 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Dipole Memory
MDM-C.A 211 LG: 4.48 ft WT: 39.7 lb OD: 2.244 in

Compact Dipole Receiver
MRD-C.A 211 LG: 8.89 ft WT: 88.2 lb OD: 2.244 in

Compact Dipole Transmitter
MTD-C.A 211 LG: 12.63 ft WT: 110.2 lb OD: 2.244 in

Compact Inline Standoff sub
MIS-E.B 785 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

Compact Focussed Electric
MFE-C.A 430 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

Compact Inline Standoff sub
MIS-E.B 787 LG: 2.14 ft WT: 15.4 lb OD: 2.244 in

Compact Induction

93.53 ft GSXT - MGS External Temperature

89.97 ft GGRM - Uranium Stripped Gamma
89.97 ft GMPO - Potassium Gamma
89.97 ft GMUR - Uranium Gamma
89.97 ft GMTH - Thorium Gamma
89.97 ft GMSG - MSG Gamma Ray

68.88 ft NPRS - Sandstone Neutron Por.

61.64 ft AVOL - Annular Volume
61.64 ft HVOL - Hole Volume
61.64 ft CLDC - Density Caliper
59.71 ft DPOR - Base Density Porosity
59.71 ft DEN - Compensated Density
59.71 ft DCOR - Density Correction
59.65 ft PDPE - PE

31.98 ft MCDT - Compressional Delta T RT
31.98 ft RSDT - Shear Delta T RT

16.05 ft FEFC - Shallow FE (Phase Corr.)

3.34 ft R85T - Array Ind. Two Res 85
3.34 ft R60T - Array Ind. Two Res 60
3.34 ft R40T - Array Ind. Two Res 40
3.34 ft R30T - Array Ind. Two Res 30
3.34 ft R20T - Array Ind. Two Res 20
3.34 ft RTAT - Array Ind. Two Res Rt

CONFIDENTIAL

Compact Induction
MAI-C.A 456 LG: 10.81 ft WT: 48.5 lb OD: 2.240 in

Tool Zero (0.13ft from bottom)

Total Length: 166.03 ft Weight: 1155.2 lb

All measurements relative to tool zero.

COMPANY	ALTA MESA SERVICES LLC
WELL	FALLON 1-10
FIELD	WILDCAT
PROVINCE/COUNTY	PAYETTE
COUNTRY/STATE	U.S.A. / IDAHO

Elevation Kelly Bushing	2167	feet	First Reading	5407.00	feet
Elevation Drill Floor	2167	feet	Depth Driller	5434.00	feet
Elevation Ground Level	2155	feet	Depth Logger	5434.00	feet

Weatherford®

COMPACT TRIPLE COMBO
QUICKLOOK LOG