geoVISION - sonicVISION - APWD

Gamma Ray - Resistivity - Image - Compressional - APWD

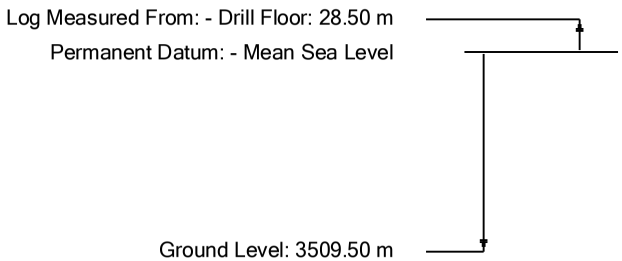
12.25in Recorded Mode Log. True Vertical Depth Sub Sea 1:200

Schlumberger

Company:	JAMSTEC
Well:	C0012H
Field:	Nankai Trough - Kumano Basin
Rig Name:	Chikyu
Prefecture:	Wakayama
Country:	Japan

Latitude:	32° 44' 52.698" N	Custom:	12JAP0016
Longitude:	136° 55' 2.106" E	Rig Name:	Chikyu
Block:		Rig Type:	Drill Vessel

FL:	Philippine Sea
FL1:	X= 679 623.175 m
FL2:	Y=3 624 973.513 m



Acquisition Dates:	04-Dec-2012 -- 06-Dec-2012	Other Services:
Log Interval:	3525.00(m) -- 4247.73(m)	DWOB, DTOR
Index Types:	SSTVD	Direction and Inclination
Index Scales:	1:200	Drilling Mechanics
Depth Source:	Driller's Depth	
Depth Sensor:	DES	
Print Type:	Final	
Spud Date:	03-Dec-2012	

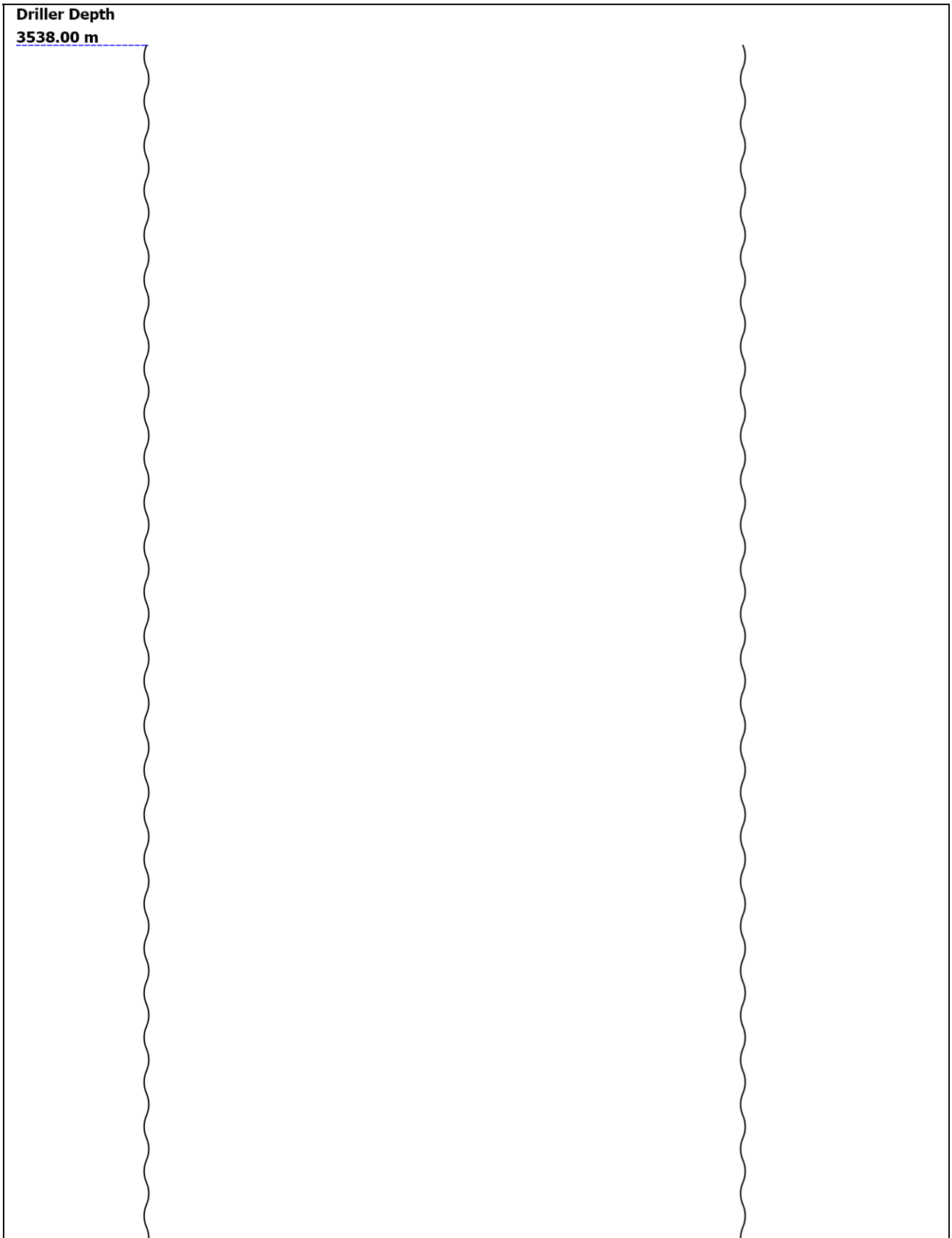
Disclaimer

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.

Contents

Country: Japan
Prefecture: Wakayama
Rig Name: Chikyu
Field: Nankai Trough - Kumano Basin
Well: C0012H
Company: JAMSTEC

Well Sketch



Borehole Size/Casing Record

Bit						
Bit Size (in)	12.25					
Top Driller (m)	3538					
Bottom Driller (m)	4248					

Operational Run Summary

Parameter (unit)	002					
Date Log Started	04-Dec-2012					
Time Log Started	07:17:28					
Date Log Finished	06-Dec-2012					
Time Log Finished	20:37:57					
Bit Size (in)	12.250					
Bit Start Depth (m)	3538.00					
Bit Stop Depth (m)	4248.00					
Top Log Interval (m)	3538.00					
Bottom Log Interval (m)	4247.74					
Max Hole Deviation (deg)	2.63					
Azimuth of Max Deviation (deg)	328.45					
Logging Unit Number	OLU-KC-504					
Logging Unit Location	Comp Deck					
Recorded By	Wang Feng Shao Kai					
Witnessed By	Yoshi Sanada Yukari Kido					
Service Order Number	12JAP0016					

Borehole Fluids

Parameter(unit)	002					
Fluid Type	Water					
Fluid Name	Sea Water					
Max Recorded Temperatures (degC)	10					
Source of Sample	Active Tank					
Salinity (ppm)	30470.42					
Density (g/cm3)	1.04					

Funnel Viscosity (s)						
Fluid Loss (cm3)						
PH	11.6					
Source RMF						
RMC	Pressed					
RM @ Meas Temp (ohm.m@degC)	0.22 @ 20.3					
RMF @ Meas Temp (ohm.m@degC)	0.15 @ 20					
RMC @ Meas Temp (ohm.m@degC)						
RM @ BHT (ohm.m@degC)	0.3 @ 10					
RMF @ BHT (ohm.m@degC)	0.2 @ 10					
RMC @ BHT (ohm.m@degC)	NaN @ 10					
Total Solid (%)						
High Gravity Solids (%)						

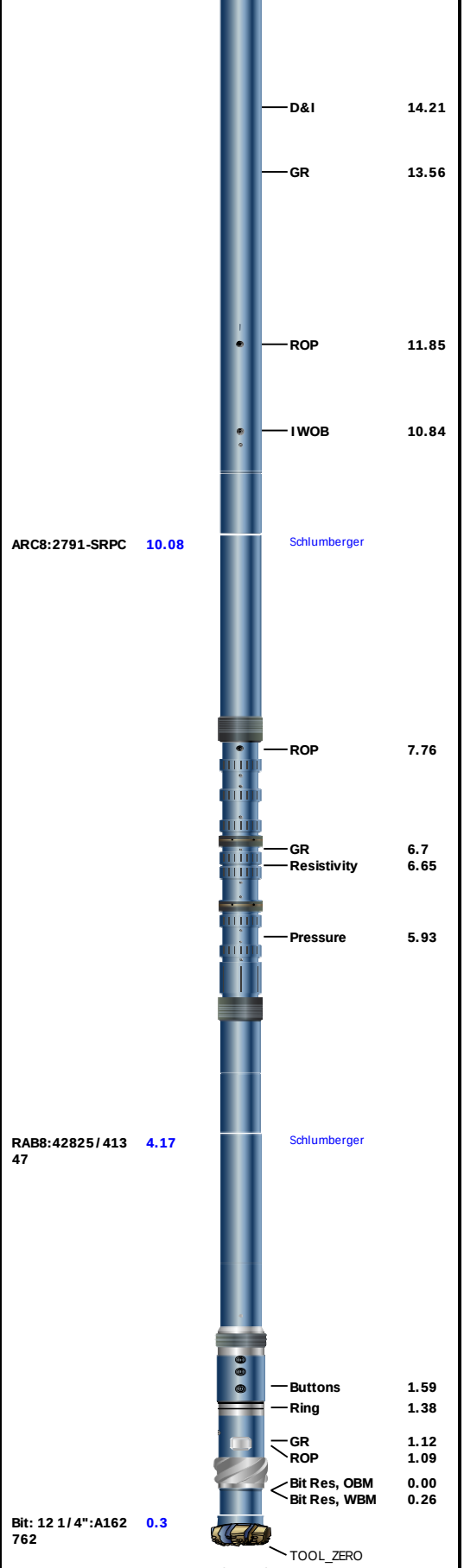
Remarks and Equipment Summary

002: Toolstring

Equip name	Length	MP name	Offset
Stab: 8 1/4":767188	29.08	Schumberger	
SONICVISION8:E6207	26.7	Schlumberger	
		Delta-T	23.61
		ROP	23.22
TELE825-IWOB:G0159	18.51	Schlumberger	

002: Remarks

- Data presented is Recorded Mode data which was acquired while drilling.
- Depth reference is driller's depth measured from Rotary Table.
- geoVISION record rate is 10s, sonicVISION record rate is 10s, APWD record rate is 10s.
- geoVISION GR is corrected for bit size, tool size and mud weight. No potassium concentration in mud.
- geoVISION resistivity is environmentally corrected for bit size and mud resistivity.
- sonicVISION compressional slowness is processed by DCS.
- Reason for POOH: Well TD.
- Drilling Time: 25.18 hrs
- Pumping Time: 36.30 hrs
- Warning in calibration list is due to MaxWell bug.



Lengths are in m
Maximum Outer Diameter = 12.250 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Survey Record

Survey Calculation

Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	Grid North	Total Correction Formula :	Magnetic Dec - Grid Convergence
Grid Convergence :	1.03 deg		

Rig Location

Rig Location

Latitude :	32° 44' 52.698" N	Longitude :	136° 55' 2.106" E

Tie In Point

Measured Depth:	0.00 m	Inclination:	0.00 deg	Azimuth:	0.00 deg
True Vertical Depth:	0.00 m	North Displacement:	0.00 m	East Displacement:	0.00 m
N/-S VSec Origin:	0.00 m	E/-W VSec Origin:	0.00 m	Vertical Section Azimuth:	0.00 deg

D&I Inits Computed and Values Used - 002

Geomagnetic Model :	BGGM 2011	Geomagnetic Date :	04-Dec-2012
Computed Location B :	45580.54 nT +/- 300.00nT	Used Location B :	45580.54 nT +/- 300.00nT
Computed Location G :	9.80 m/s2 +/- 0.02m/s2	Used Location G :	9.80 m/s2 +/- 0.02m/s2
Computed Magnetic Dip :	46.04 deg +/- 0.45deg	Used Magnetic Dip :	46.04 deg +/- 0.45deg
Computed Magnetic Dec :	-6.53 deg	Used Magnetic Dec :	-6.53 deg
Computed Total Correction :	-7.56 deg	Used Total Correction :	-7.56 deg

Survey Quality Index

2 : Long Survey failed mag criteria 4 : Long Survey failed all criteria 9 : Manual

28 : Tie-In Point

Survey Correction Index

0 : No correction

Survey Description Index

0 : Not Flagged Survey

Seq	MD (m)	Incl (deg)	Azim (deg)	Course (m)	TVD (m)	V Sec (m)	N/ -S (m)	E/ -W (m)	Closure (m)	at Azim (deg)	DLS deg/30m	Tool Type	QI	CI	DI
1	0.00	0.00	0.00	- - - -	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP	28	0	0
2	3538.00	0.00	0.00	3538.00	3538.00	0.00	0.00	0.00	0.00	90.00	0.00	Other	9	0	0
3	3655.73	1.75	349.87	117.73	3655.71	1.77	1.77	-0.32	1.79	349.87	0.45	TeleScope	2	0	0
4	3693.83	1.51	351.80	38.09	3693.79	2.83	2.83	-0.49	2.88	350.21	0.19	TeleScope	4	0	0
5	3732.14	1.40	344.53	38.32	3732.10	3.78	3.78	-0.69	3.85	349.72	0.17	TeleScope	2	0	0
6	3770.57	1.23	341.43	38.43	3770.51	4.63	4.63	-0.94	4.72	348.49	0.15	TeleScope	2	0	0
7	3808.99	1.20	347.84	38.42	3808.93	5.41	5.41	-1.16	5.53	347.92	0.11	TeleScope	4	0	0
8	3847.15	1.24	342.38	38.16	3847.08	6.19	6.19	-1.37	6.34	347.56	0.10	TeleScope	4	0	0
9	3885.57	1.29	340.44	38.42	3885.49	7.00	7.00	-1.64	7.18	346.83	0.05	TeleScope	4	0	0
10	3923.41	1.32	334.69	37.84	3923.32	7.79	7.79	-1.97	8.04	345.84	0.11	TeleScope	2	0	0
11	3961.64	1.39	331.68	38.23	3961.54	8.60	8.60	-2.38	8.92	344.56	0.08	TeleScope	2	0	0
12	3999.88	1.32	329.17	38.24	3999.77	9.39	9.39	-2.82	9.80	343.27	0.07	TeleScope	4	0	0
13	4037.88	1.38	326.23	38.00	4037.75	10.14	10.14	-3.30	10.67	341.97	0.07	TeleScope	4	0	0
14	4075.87	1.52	331.96	38.00	4075.74	10.97	10.97	-3.79	11.61	340.93	0.16	TeleScope	2	0	0
15	4113.78	1.89	321.90	37.91	4113.63	11.91	11.91	-4.42	12.70	339.65	0.38	TeleScope	2	0	0
16	4152.27	2.08	326.15	38.49	4152.10	12.99	12.99	-5.20	13.99	338.19	0.18	TeleScope	4	0	0
17	4190.73	2.46	326.26	38.46	4190.53	14.25	14.25	-6.04	15.48	337.02	0.30	TeleScope	2	0	0
18	4231.12	2.63	328.45	40.39	4230.87	15.77	15.77	-7.01	17.26	336.02	0.14	TeleScope	2	0	0

UDComposite 1

Integration Summary

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

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
002	Drilling	Down	3529.43 m	4248.00 m	04-Dec-2012 7:17:28 AM	06-Dec-2012 8:37:57 PM	

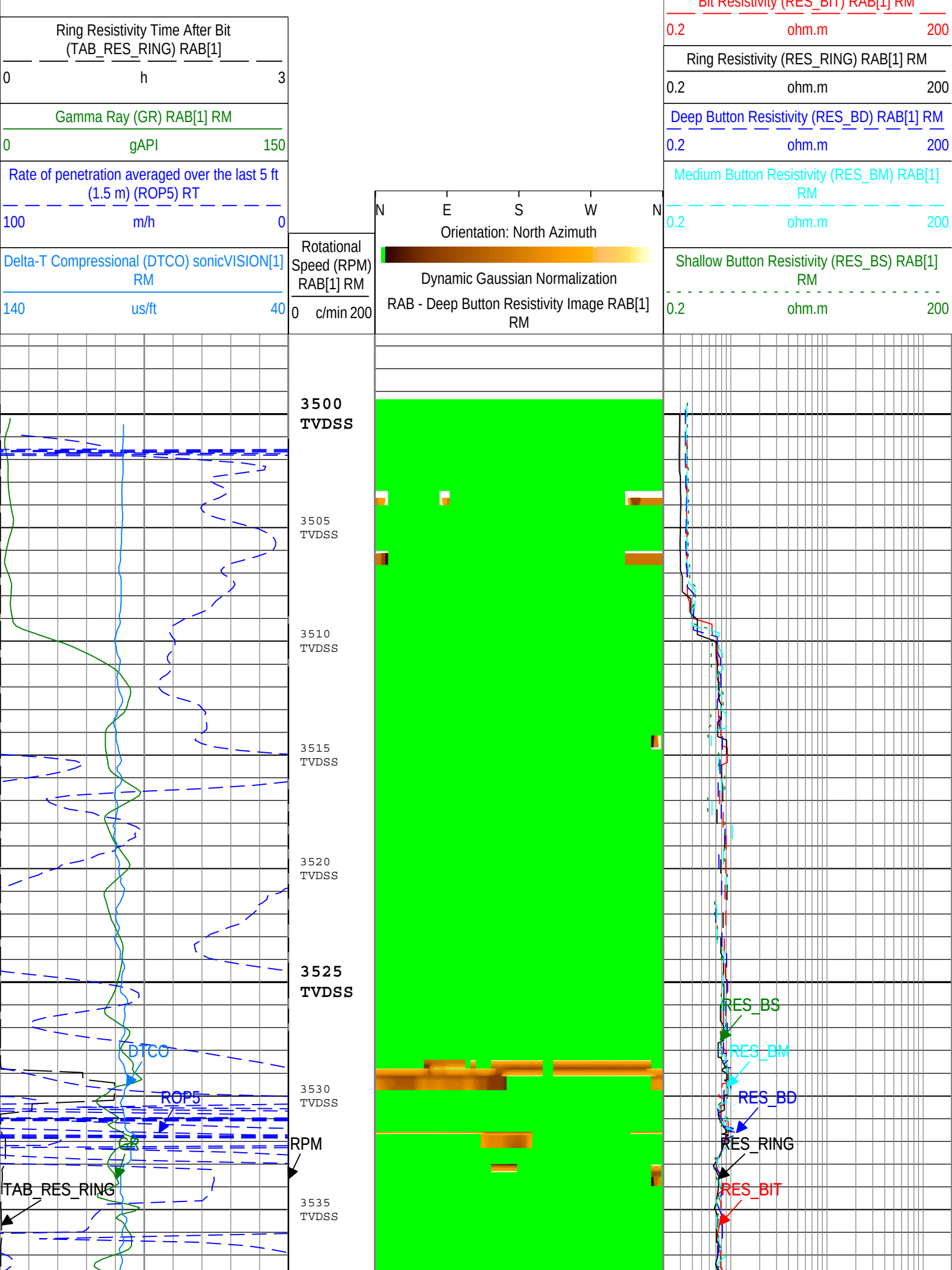
All depths are referenced to toolstring zero

Log

UDComposite 1

Description: GVR Resistivity, Deep Button Image Format: Log (Sonic-GVR Image-APWD Depth RM No Tick) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 08-Dec-2012 12:11:48

Bit Resistivity (RES_BIT) RAB[1] RM


Ring Resistivity Time After Bit (TAB_RES_RING) RAB[1]
0
h
3
Gamma Ray (GR) RAB[1] RM
0
gAPI
150
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT
100
m/h
0
Delta-T Compressional (DTCO) sonicVISION[1] RM
140
us/ft
40
Rotational Speed (RPM) RAB[1] RM
0
c/min 200
N
E
S
W
N
Orientation: North Azimuth
Dynamic Gaussian Normalization
RAB - Deep Button Resistivity Image RAB[1] RM
Bit Resistivity (RES_BIT) RAB[1] RM
0.2
ohm.m
200
Ring Resistivity (RES_RING) RAB[1] RM
0.2
ohm.m
200
Deep Button Resistivity (RES_BD) RAB[1] RM
0.2
ohm.m
200
Medium Button Resistivity (RES_BM) RAB[1] RM
0.2
ohm.m
200
Shallow Button Resistivity (RES_BS) RAB[1] RM
0.2
ohm.m
200
3500 TVDSS
3505 TVDSS
3510 TVDSS
3515 TVDSS
3520 TVDSS
3525 TVDSS
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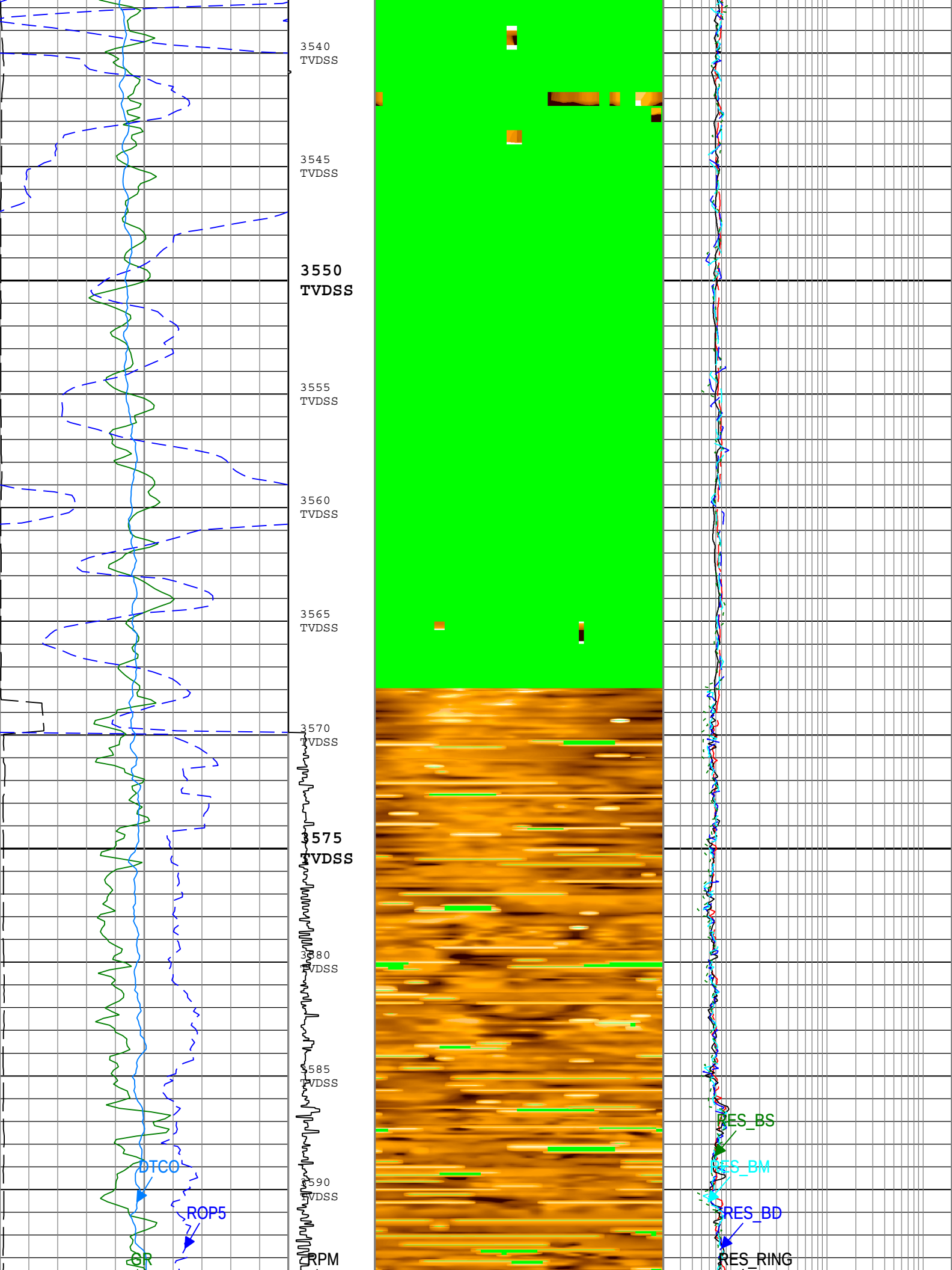
RES_BS
RES_BM
RES_BD
RES_RING
RES_BIT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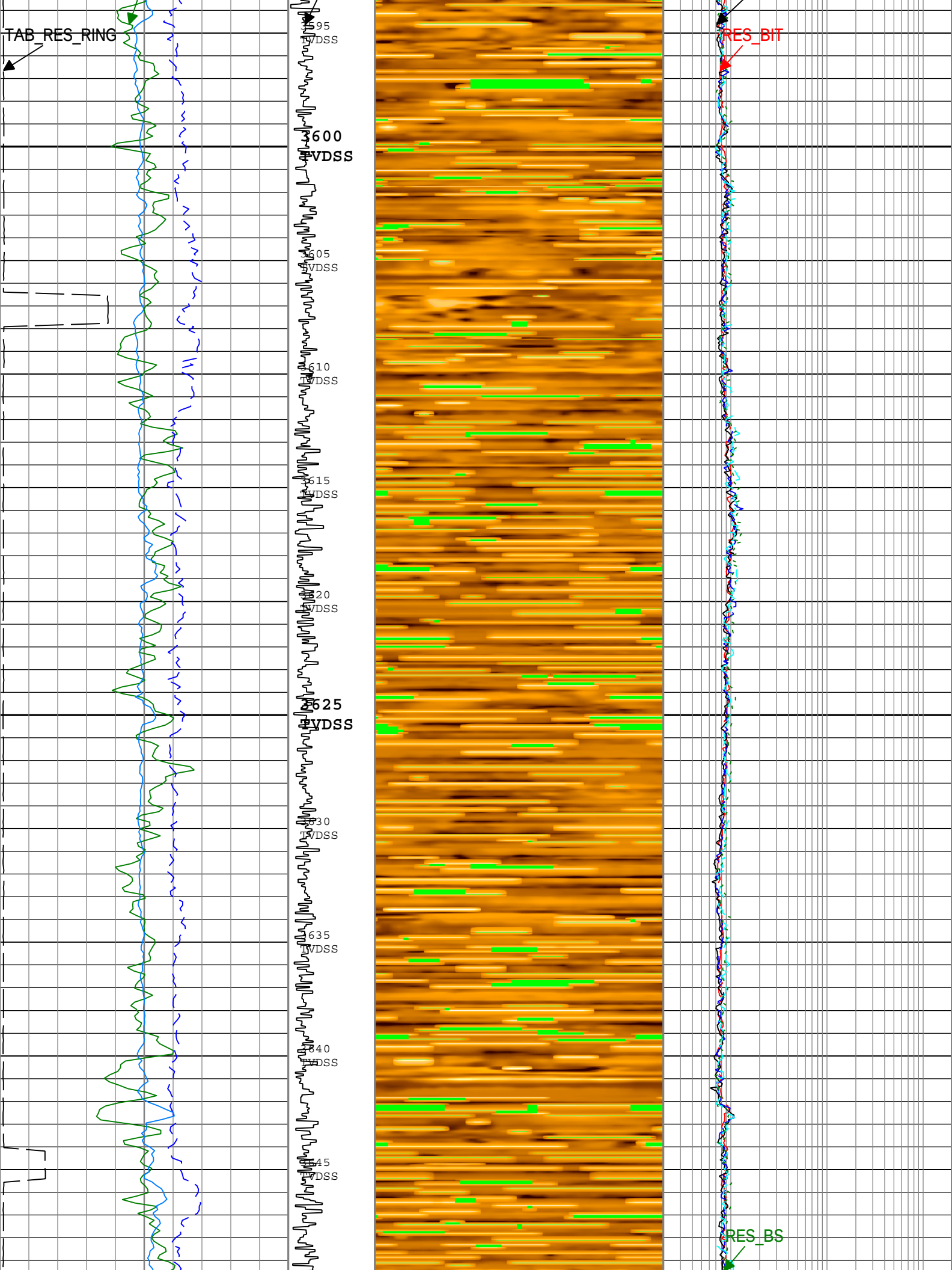
RPM
RES_BS
RES_BM
RES_BD
RES_RING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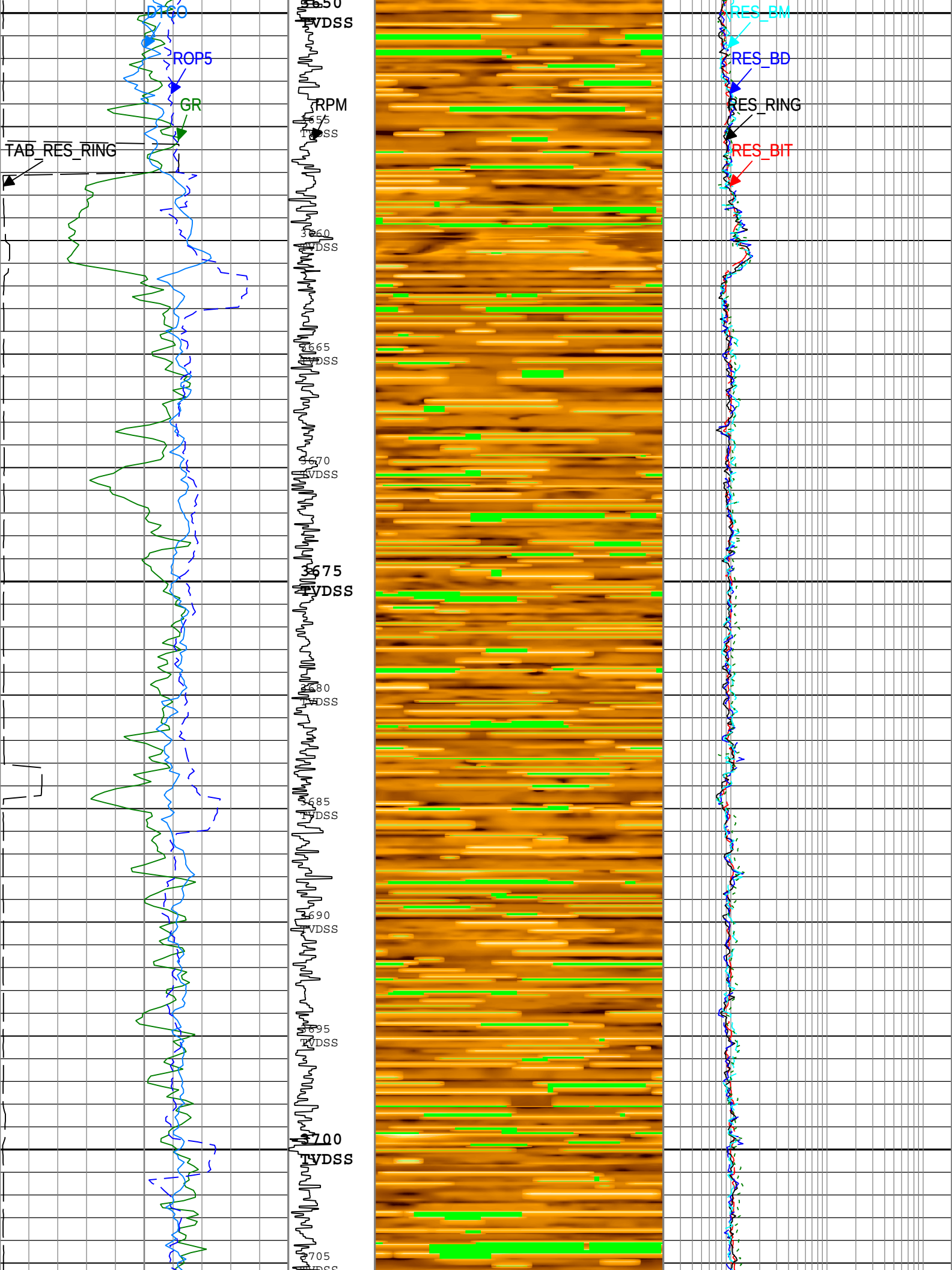
FVDSS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TAB_RES_RING
RPM
RES_BM
RES_BD
RES_RING
RES_BIT
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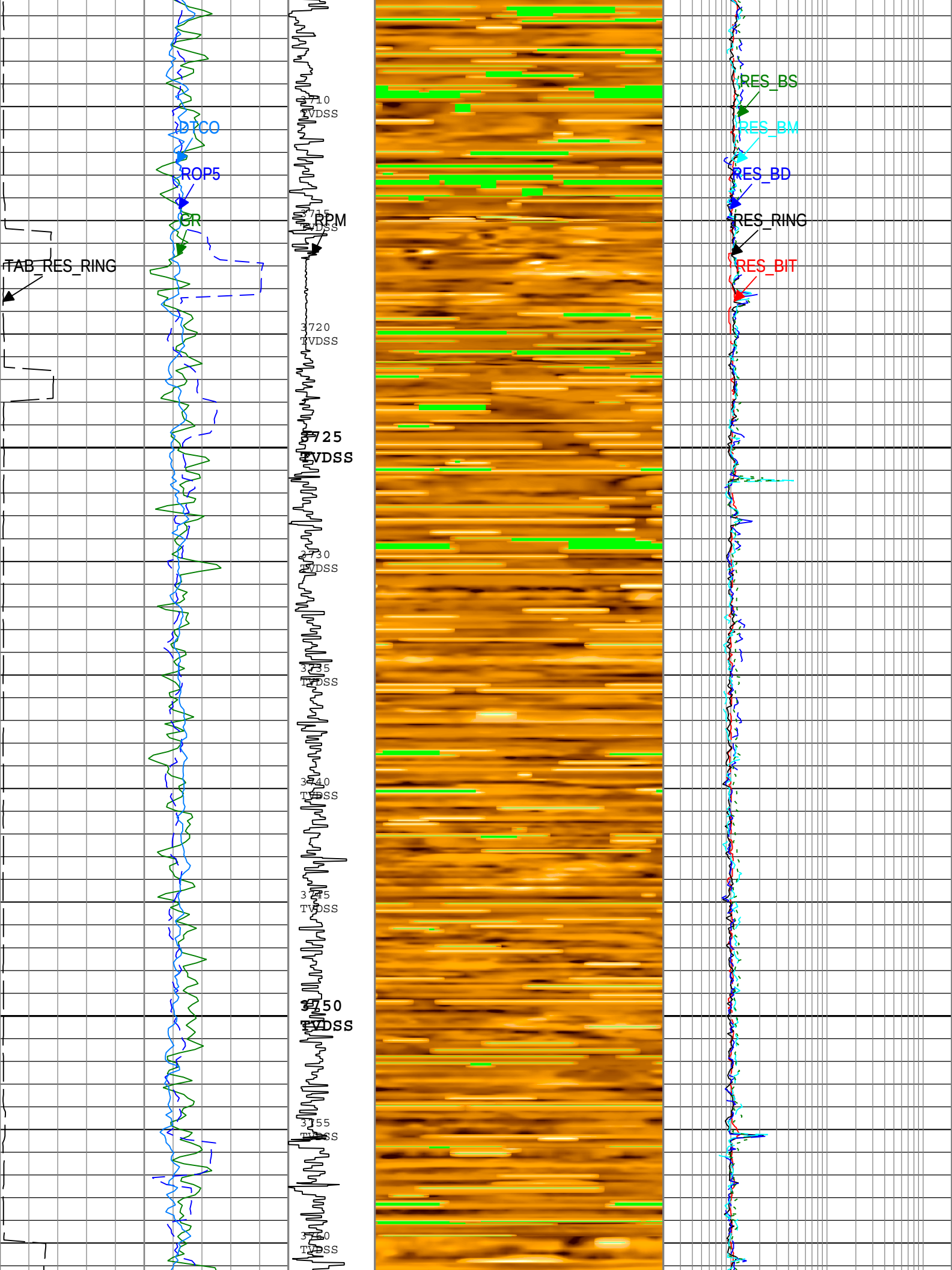
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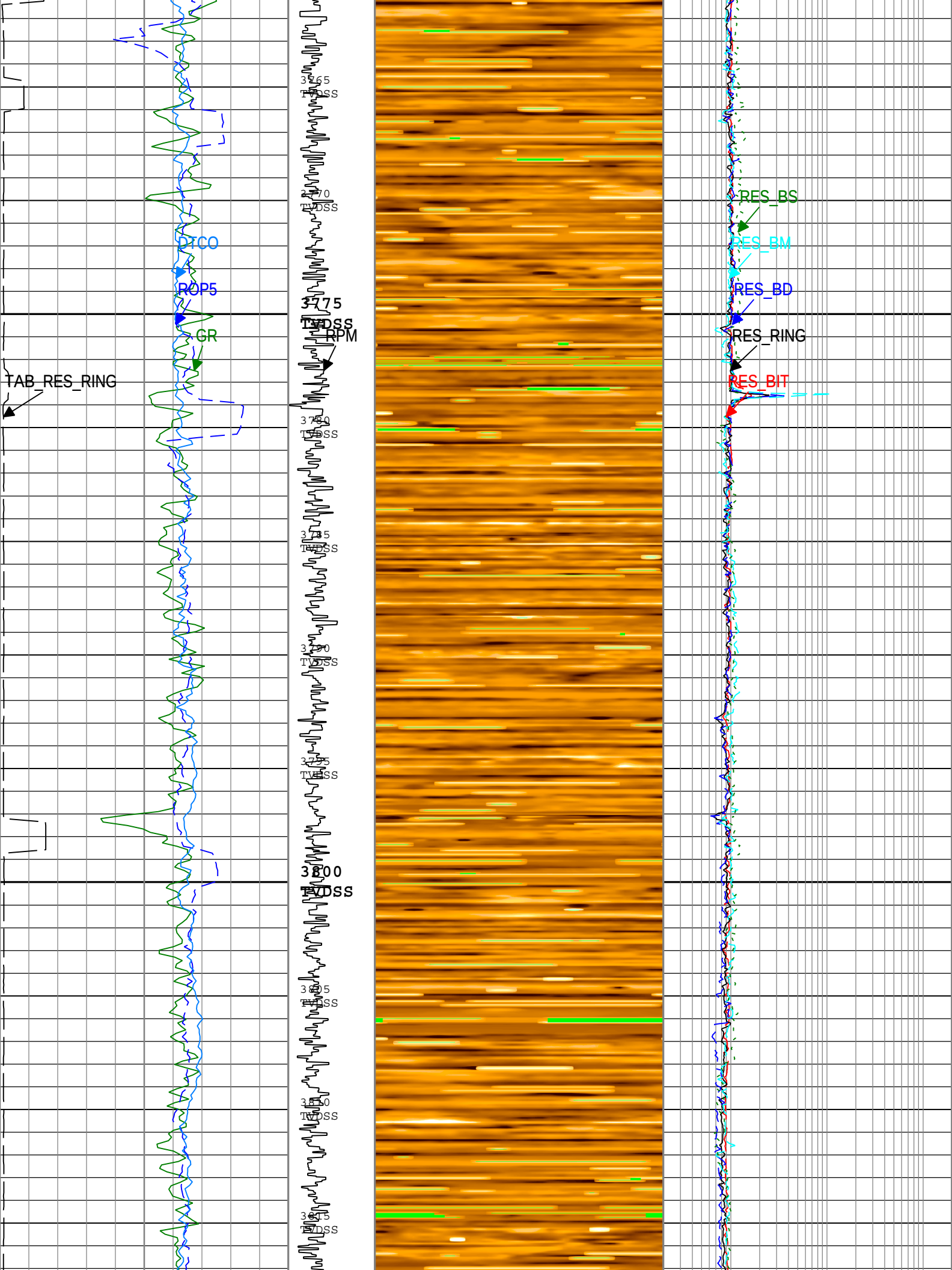
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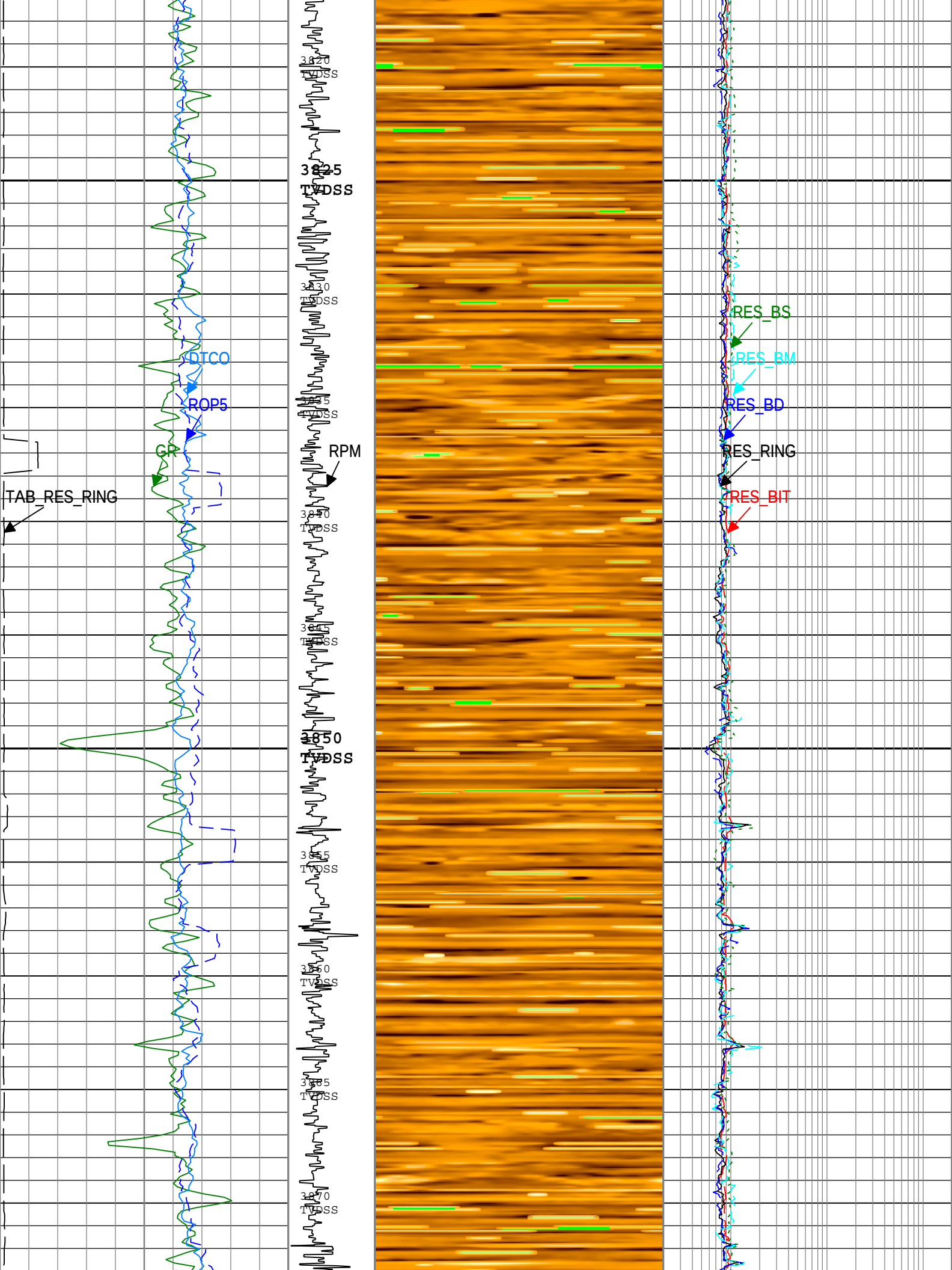
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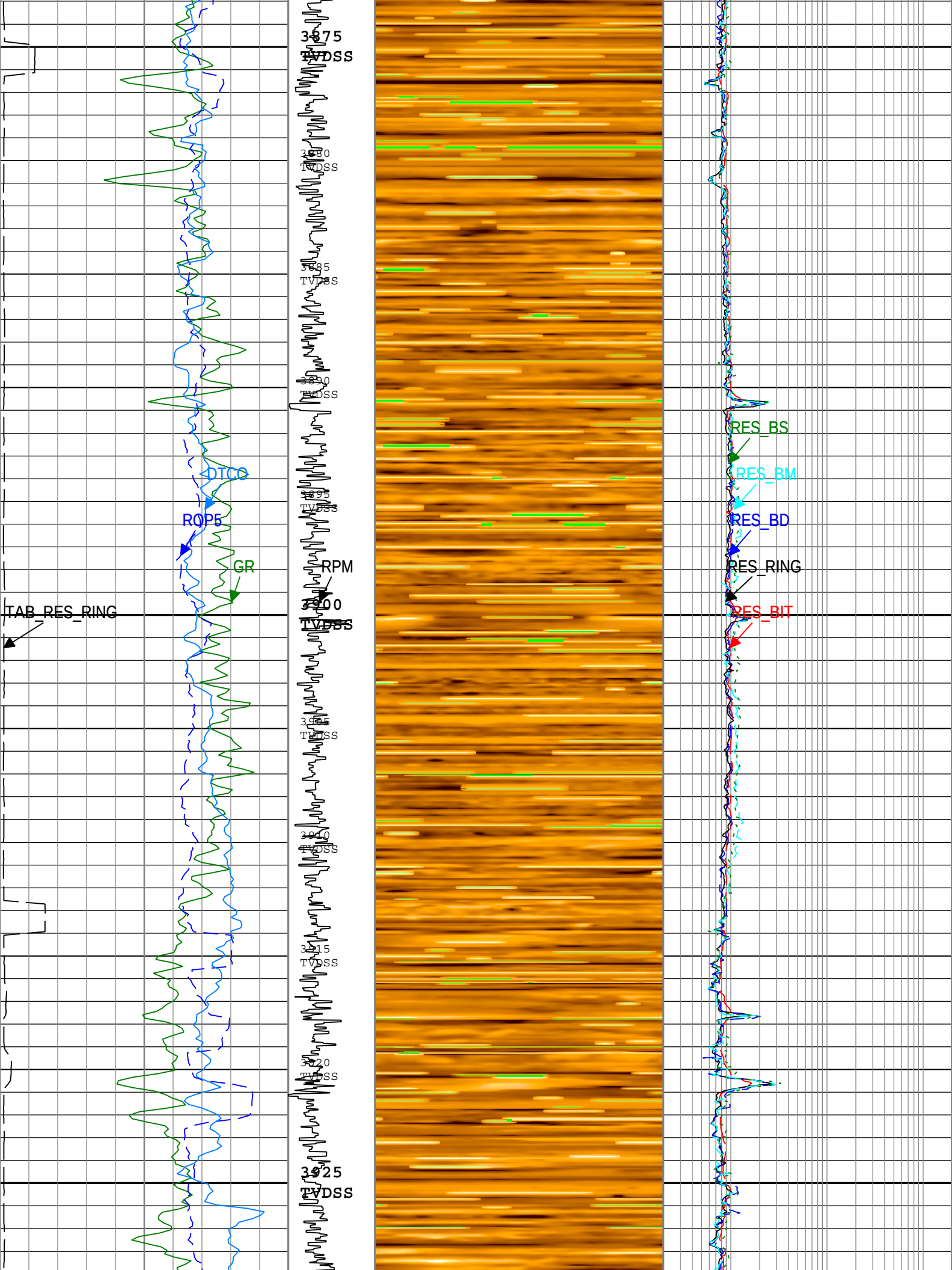
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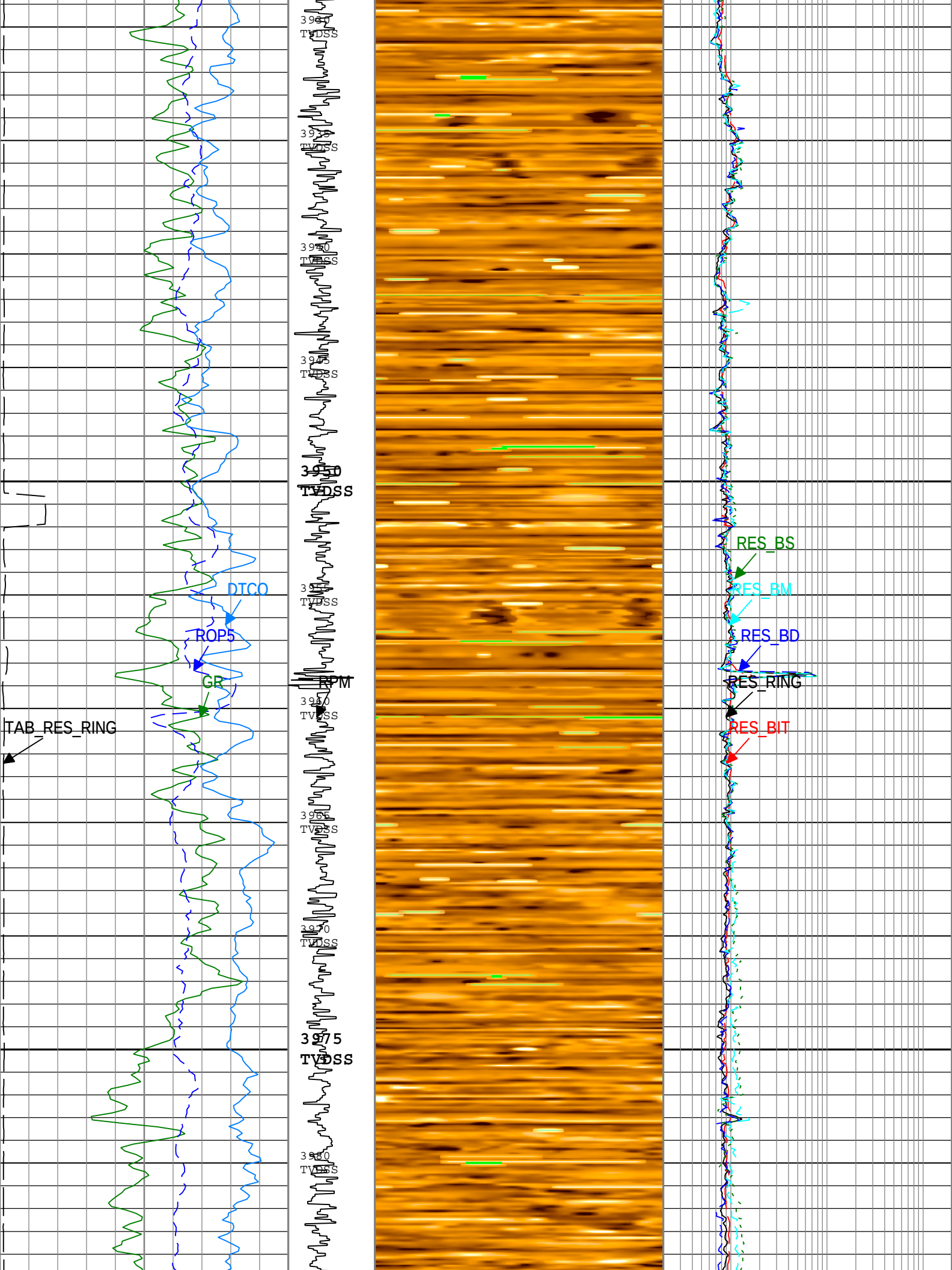
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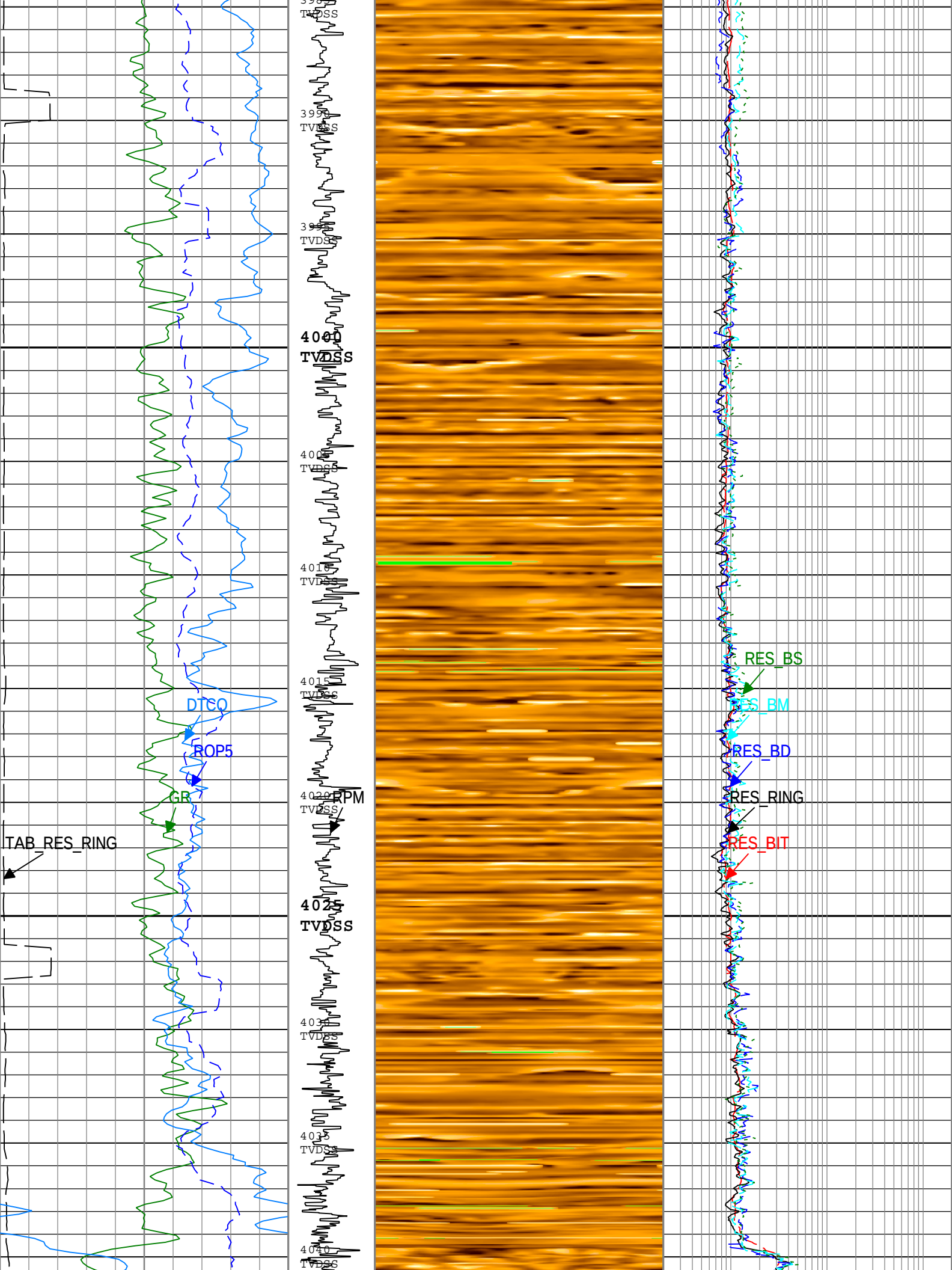
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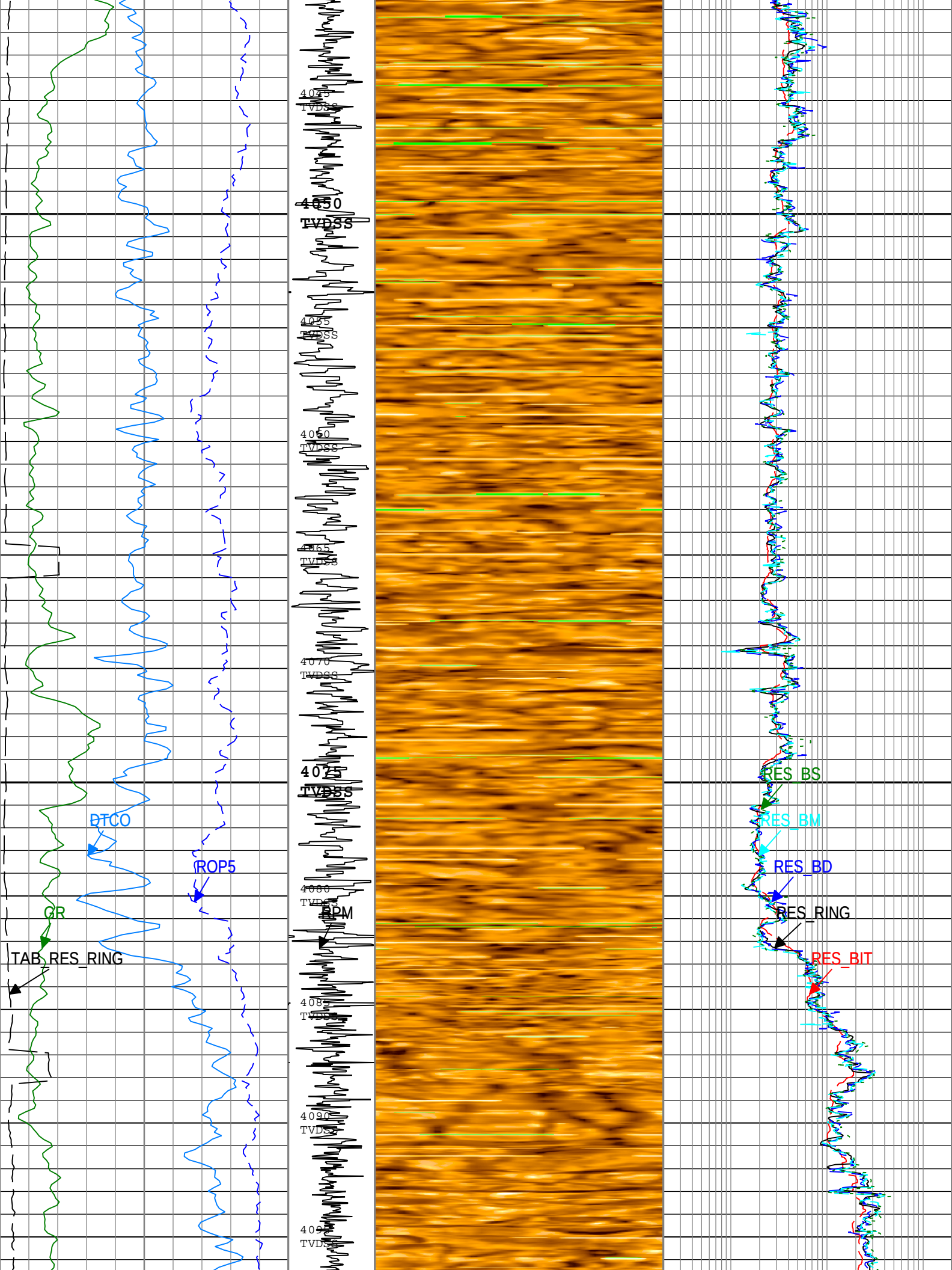
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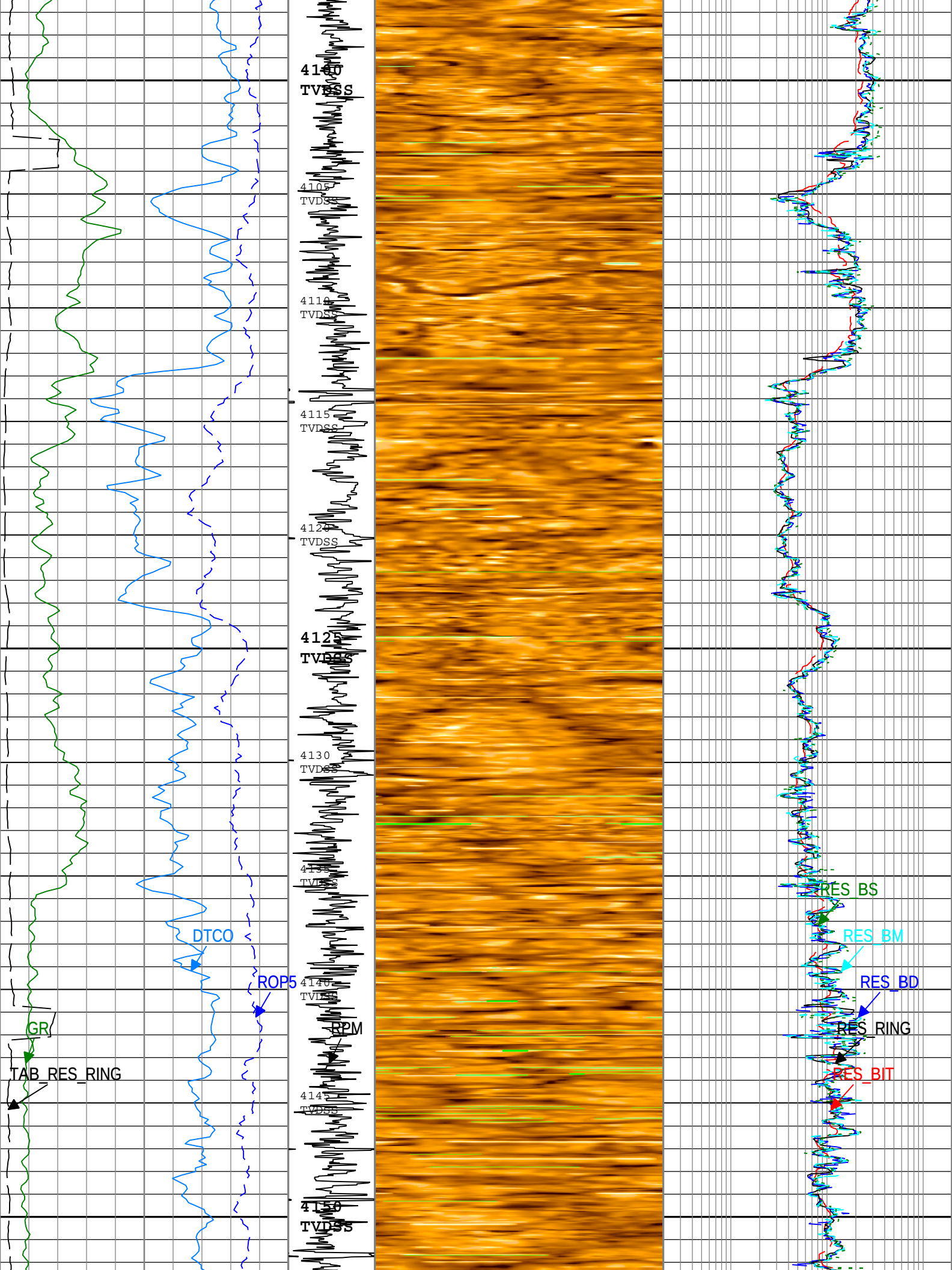
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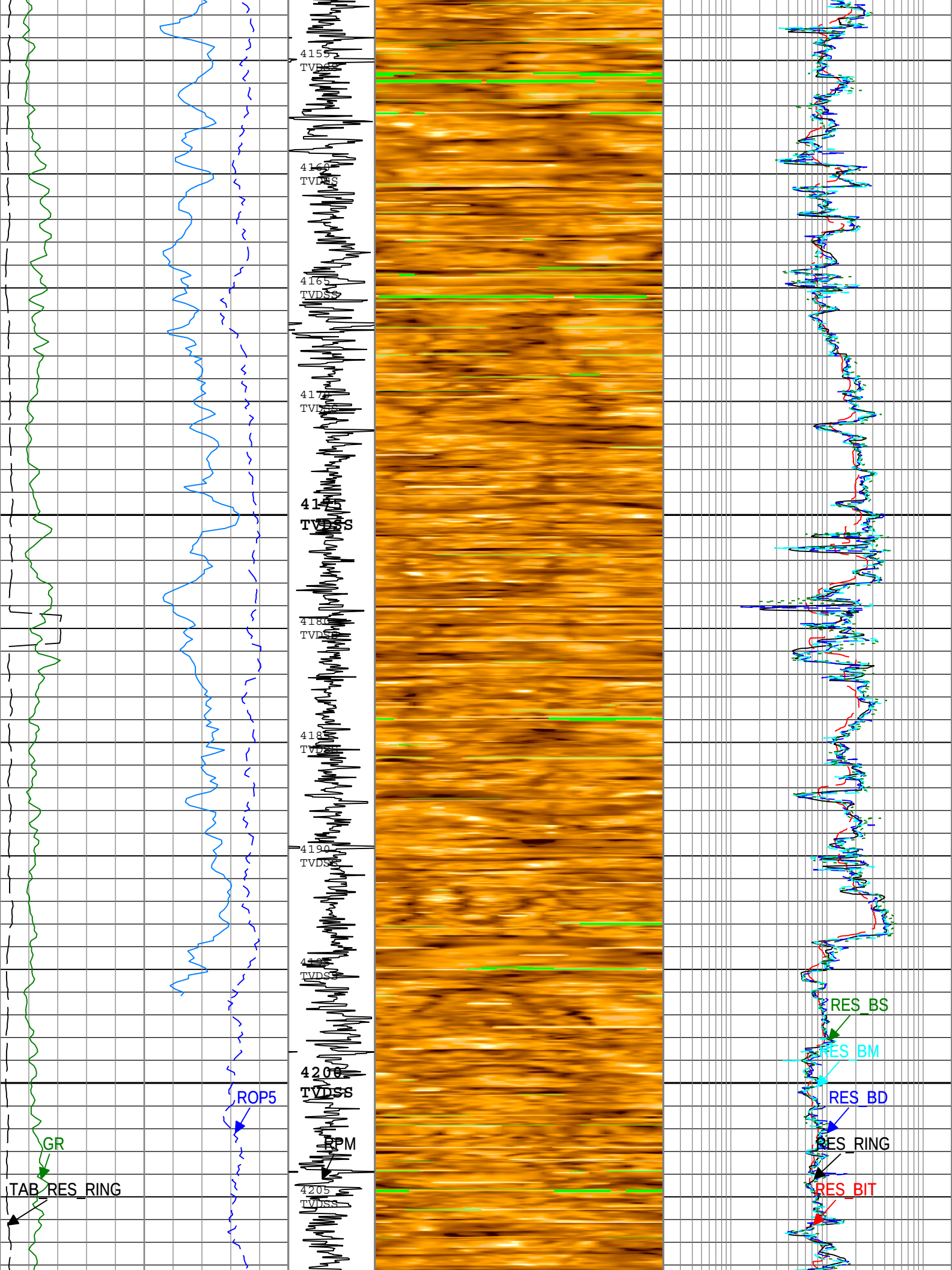
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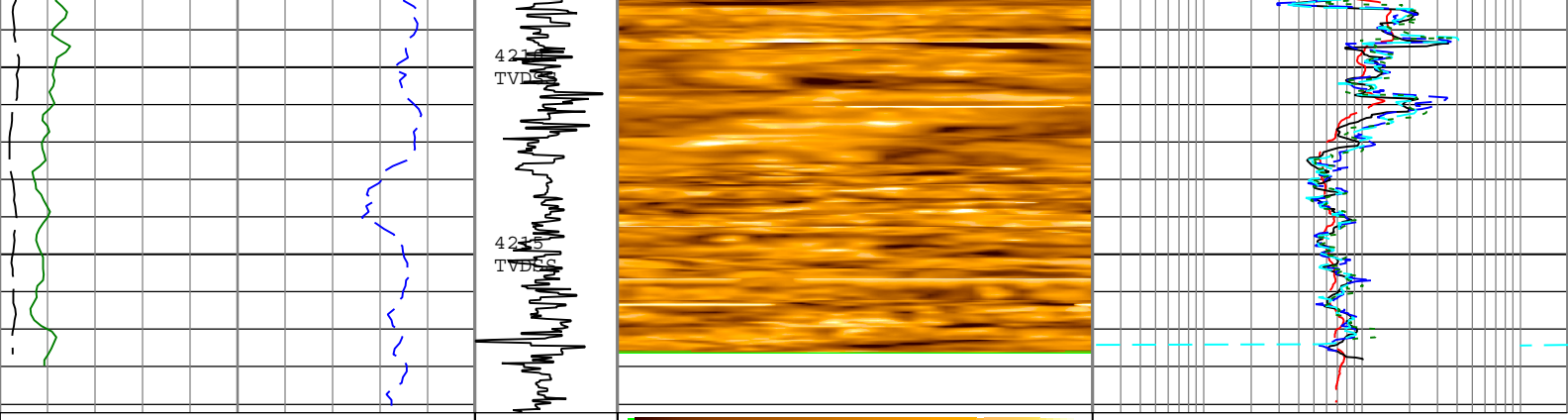


Ring Resistivity Time After Bit (TAB_RES_RING) RAB[1]

0 h 3

Gamma Ray (GR) RAB[1] RM

0 gAPI 150

Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT

100 m/h 0

Delta-T Compressional (DTCO) sonicVISION[1] RM

140 us/ft 40

Rotational Speed (RPM) RAB[1] RM

0 c/min 200

Dynamic Gaussian Normalization

RAB - Deep Button Resistivity Image RAB[1] RM

Orientation: North Azimuth

N E S W N

Bit Resistivity (RES_BIT) RAB[1] RM

0.2 ohm.m 200

Ring Resistivity (RES_RING) RAB[1] RM

0.2 ohm.m 200

Deep Button Resistivity (RES_BD) RAB[1] RM

0.2 ohm.m 200

Medium Button Resistivity (RES_BM) RAB[1] RM

0.2 ohm.m 200

Shallow Button Resistivity (RES_BS) RAB[1] RM

0.2 ohm.m 200

Description: GVR Resistivity, Deep Button Image Format: Log (Sonic-GVR Image-APWD Depth RM No Tick) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 08-Dec-2012 12:11:48

Channel Processing Parameters

002: Parameters

Parameter	Description	Tool	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	0	%
BHT	Bottom Hole Temperature	Borehole	10	degC
BS	Bit Size	DNMSESSION	12.25	in
CDTS	Correction for Delta-T Shale, Empirical	Borehole	100	us/ft
COLL	Label Slowness Lower Limit - Monopole P&S Compressional	SONICVISION8	65	us/ft
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	SONICVISION8	110	us/ft
DDEL	Digitizing Delay	SONICVISION8	300	us
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	1.04	g/cm3
DFT	Drilling Fluid Type	Borehole	Water	
DTF	Delta-T Fluid	Borehole	189	us/ft
DTM	Delta-T Matrix	Borehole	56	us/ft
FIN_DTCO_MODE	Final DT Compressional STC Processing Mode	SONICVISION8	DDBHC	
FIN_DTCO_SRC	Final DT Compressional Source	SONICVISION8	Reassigned Uphole	
FIN_DTSH_MODE	Final DT Shear Slowness STC Processing Mode	SONICVISION8	DDBHC	
GGRD	Geothermal Gradient	Borehole	18.23	degC/km
GRSE_RM	Generalized Mud Resistivity Selection for Recorded Mode	Borehole	REMS	
GTSE_RT	Generalized Temperature Selection for Realtime Mode	Borehole	GTEM_LINEST(RT)	
ITT_OFFSET	Integrated Transit Time Offset	SONICVISION8	0	ms
MST	Mud Sample Temperature	Borehole	20.3	degC
NWED	Noise Window End	SONICVISION8	2200	us

NWST	Noise Window Start	SONICVISION8	600	us
RES_BD_IMG_SEL	GVR Output Resistivity Image Selection, Deep Button	RAB8	Compensated Uphole	
RMS	Resistivity of Mud Sample	Borehole	0.22	ohm.m
SBIN	Search Band Inset	SONICVISION8	200	
SBWD	Search Band Width	SONICVISION8	1600	
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	SONICVISION8	75	us/ft
SHT	Surface Hole Temperature	Borehole	2	degC
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	SONICVISION8	240	us/ft
SIGE	Waveform Signal End Time	SONICVISION8	2000	us
SIGM	Waveform Signal Move Out	SONICVISION8	130	us/ft
SIGST	Waveform Signal Start Time	SONICVISION8	1500	us
SPFS	Sonic Porosity Formula	Borehole	Raymer-Hunt	
SPSO_LWD	Sonic Porosity Source Logging While Drilling	SONICVISION8	DTRA	
SWD_FIL_HIGH	Pre-STC filter high frequency cuttoff (in kHz)	SONICVISION8	0	kHz
SWD_FIL_LENG	Pre-STC filter length	SONICVISION8	1	
SWD_FIL_LOW	Pre-STC filter low frequency cuttoff (in kHz)	SONICVISION8	0	kHz
SWD_FILTER	Pre-STC Filter Selection	SONICVISION8	No Filter	
SWD_PR_SEL	Sonic Processing Option	SONICVISION8	Both	
TD	Total Measured Depth	Borehole	4248	m
TEMP_SEL_RAB	RAB Temperature Selection	RAB8	Tool	

Tool Control Parameters

002: Parameters

Parameter	Description	Tool	Value	Unit
OFFBTM_TH	Threshold for deciding whether the bit is off bottom	DNMSESSION	0.6	m

002

Integration Summary

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

Pass Summary

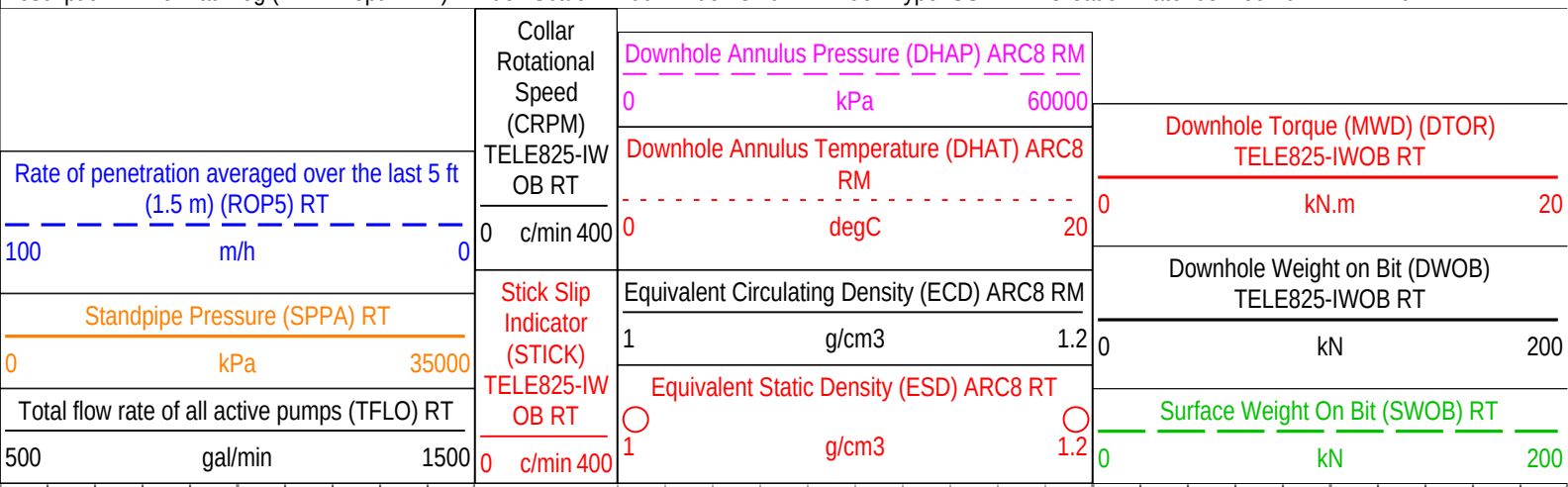
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
002	Drilling	Down	3529.43 m	4248.00 m	04-Dec-2012 7:17:28 AM	06-Dec-2012 8:37:57 PM	

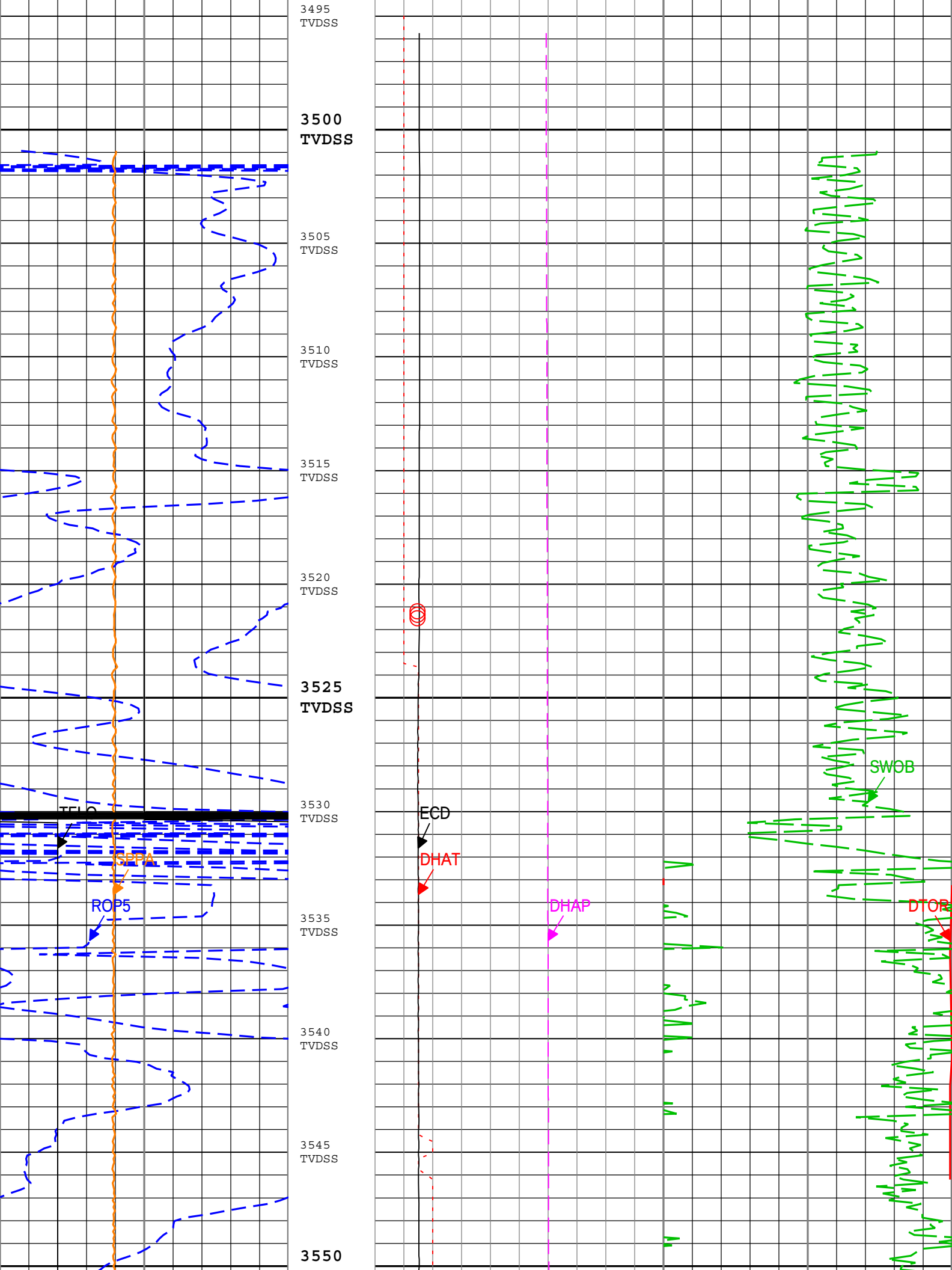
All depths are referenced to toolstring zero

Log

002: Drilling

Description: Format: Log (DML Depth RM) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 08-Dec-2012 12:12:19

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TVDSS
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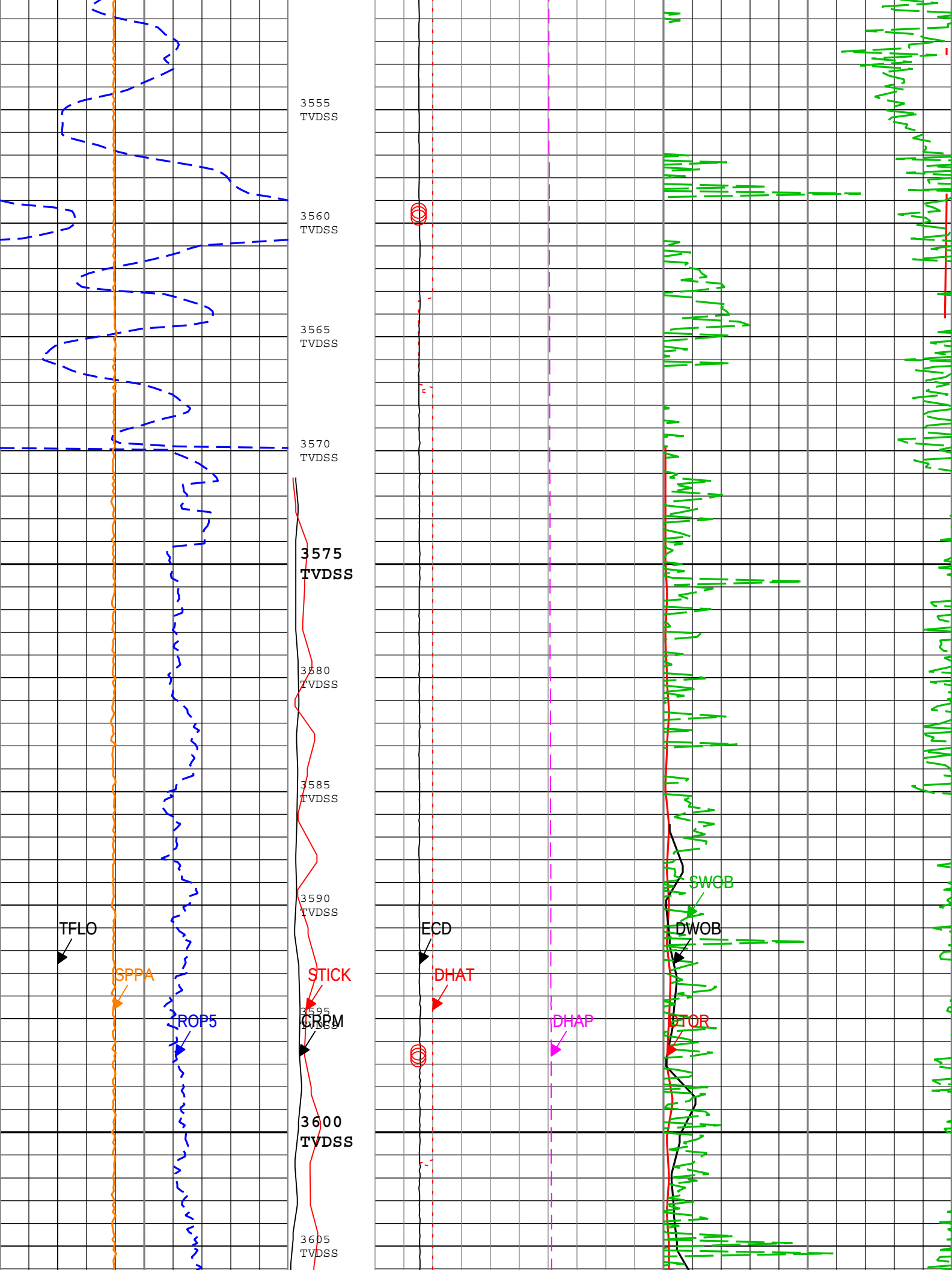
SPPA
ROP5
ECD
DHAT
DHAP
SWOB
DTOR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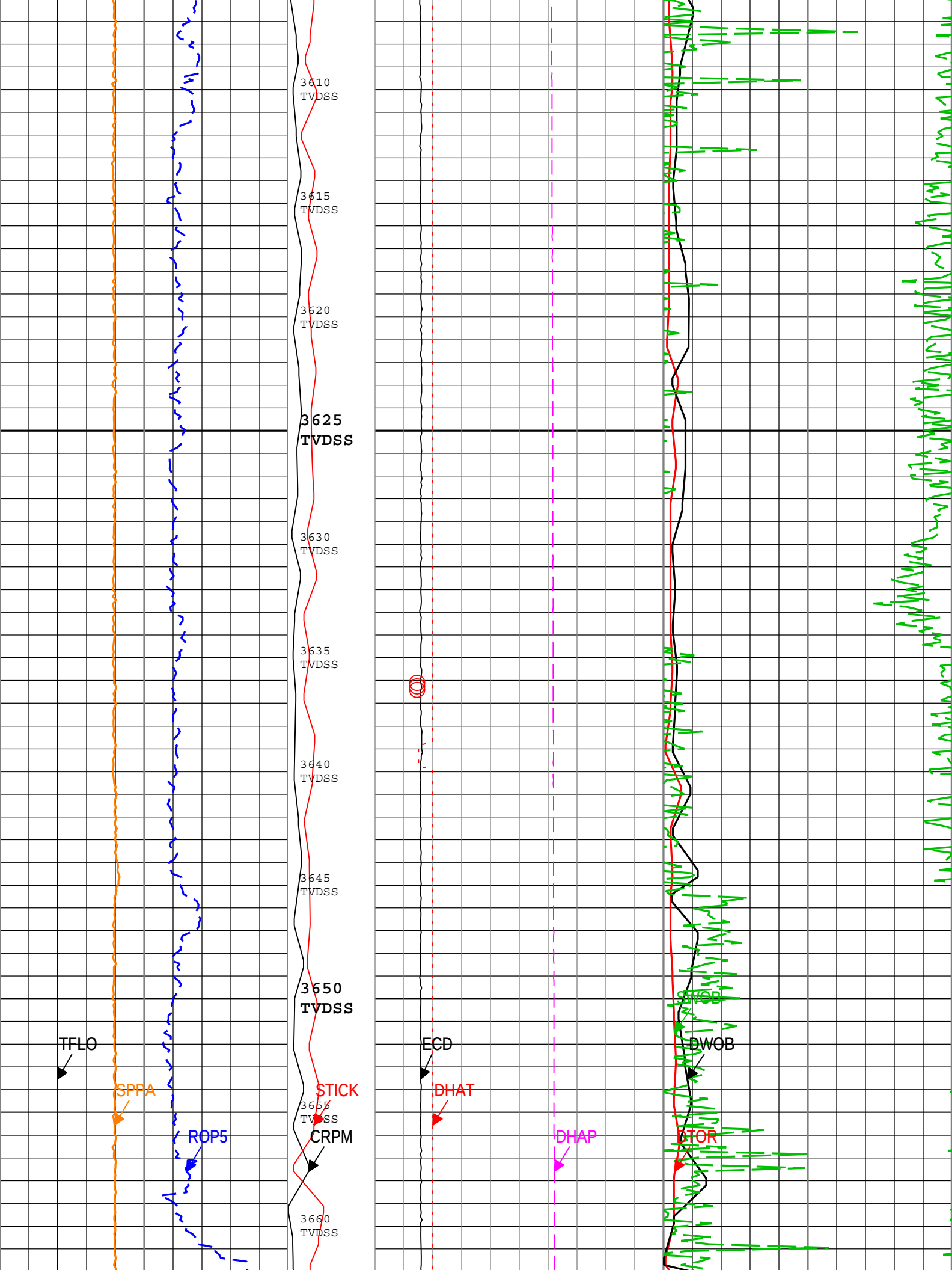
GRPM
ECD
DHAT
DHAP
SWOB
DWOB
RTOR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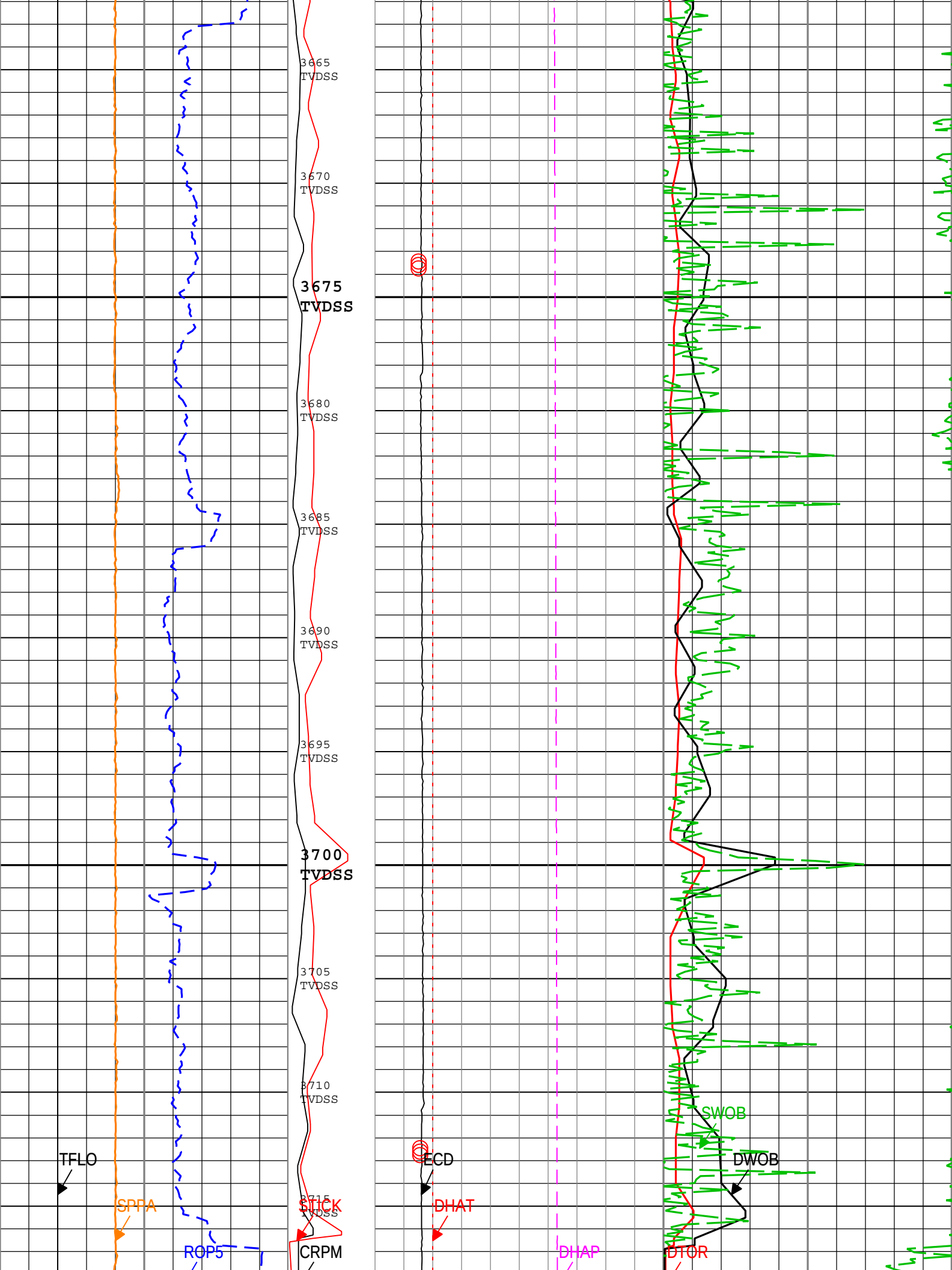
SWOB
DWOB
BTOR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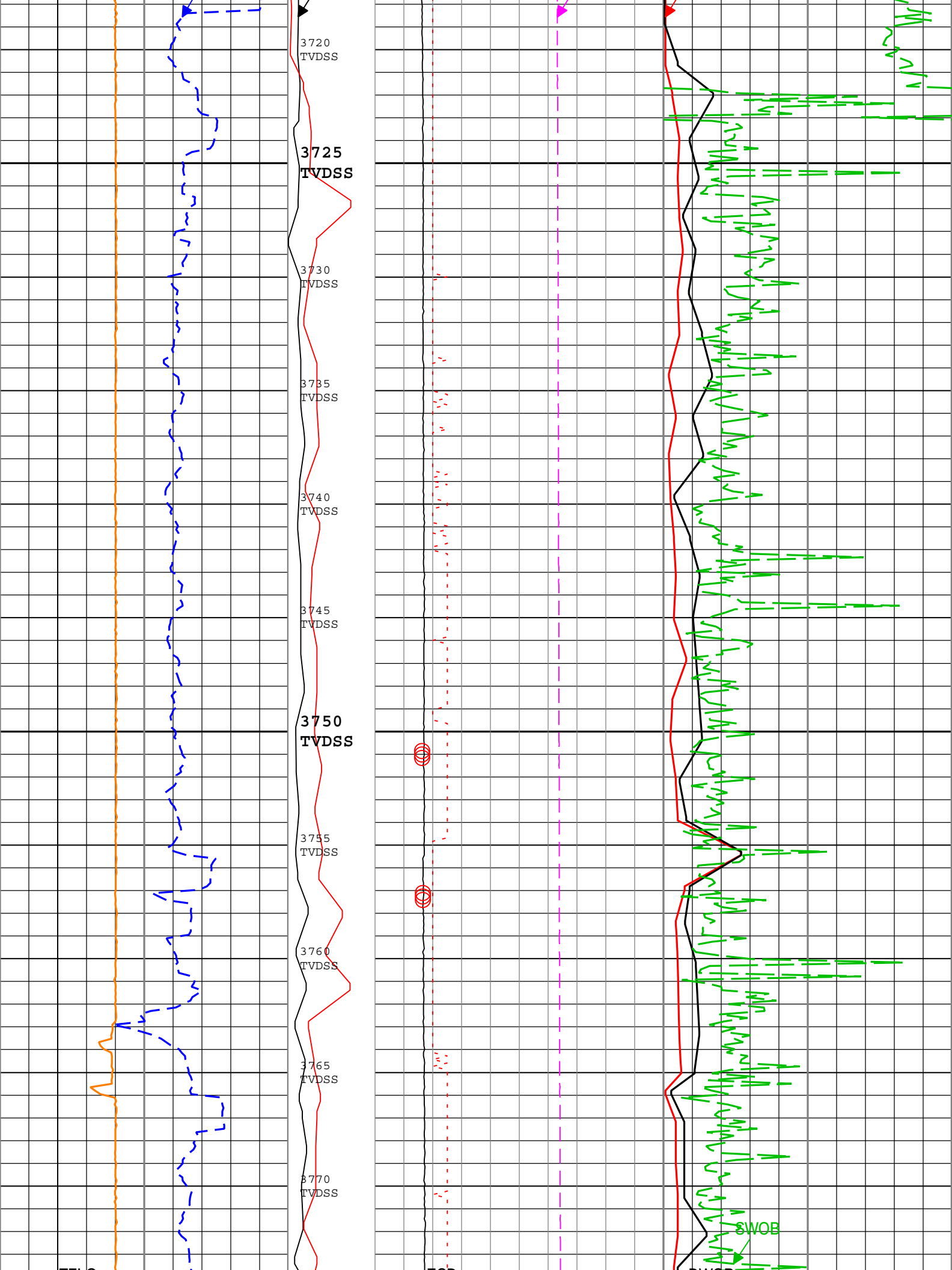
DHAP
SWOB
DWOB
DTOR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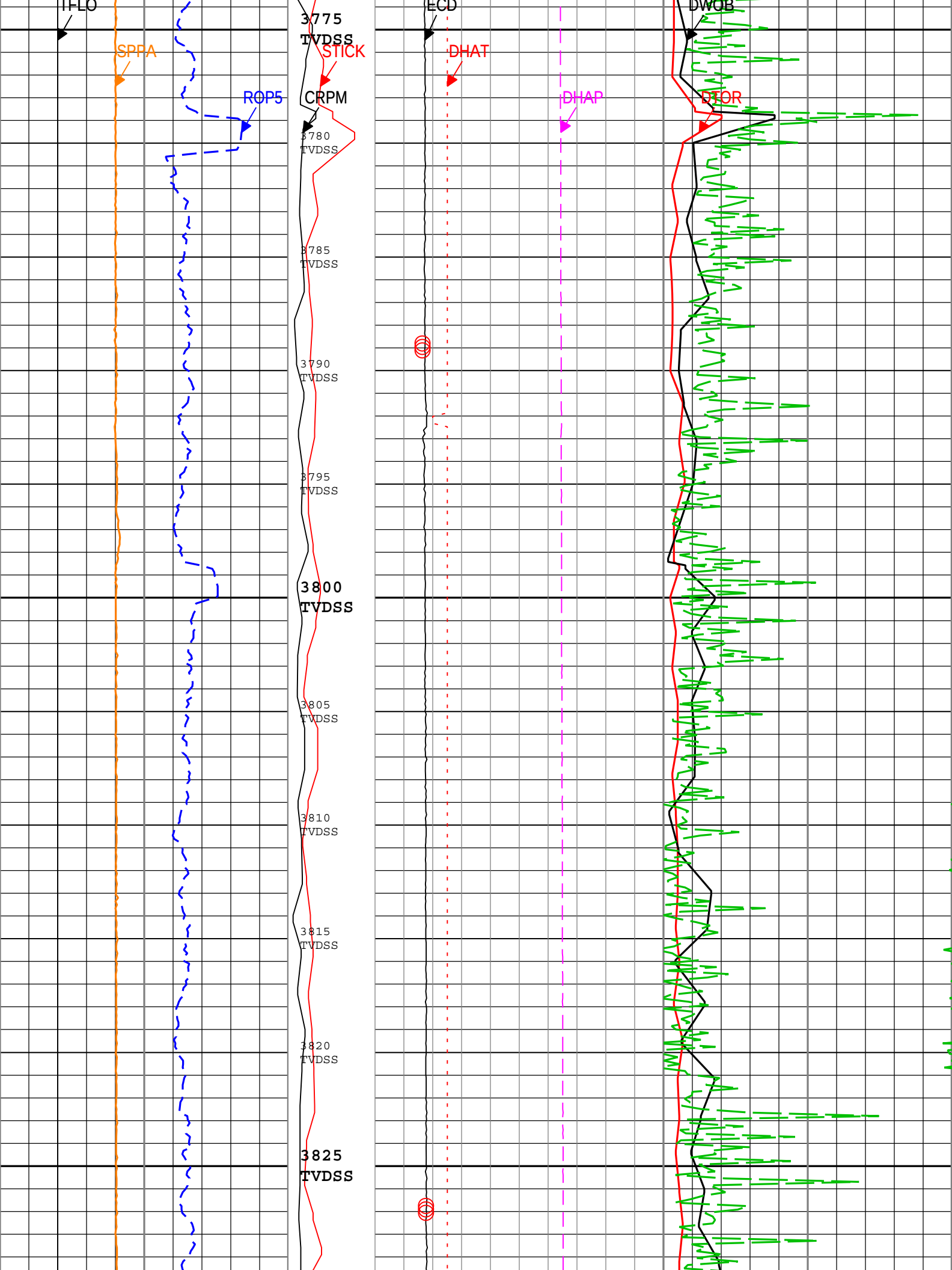
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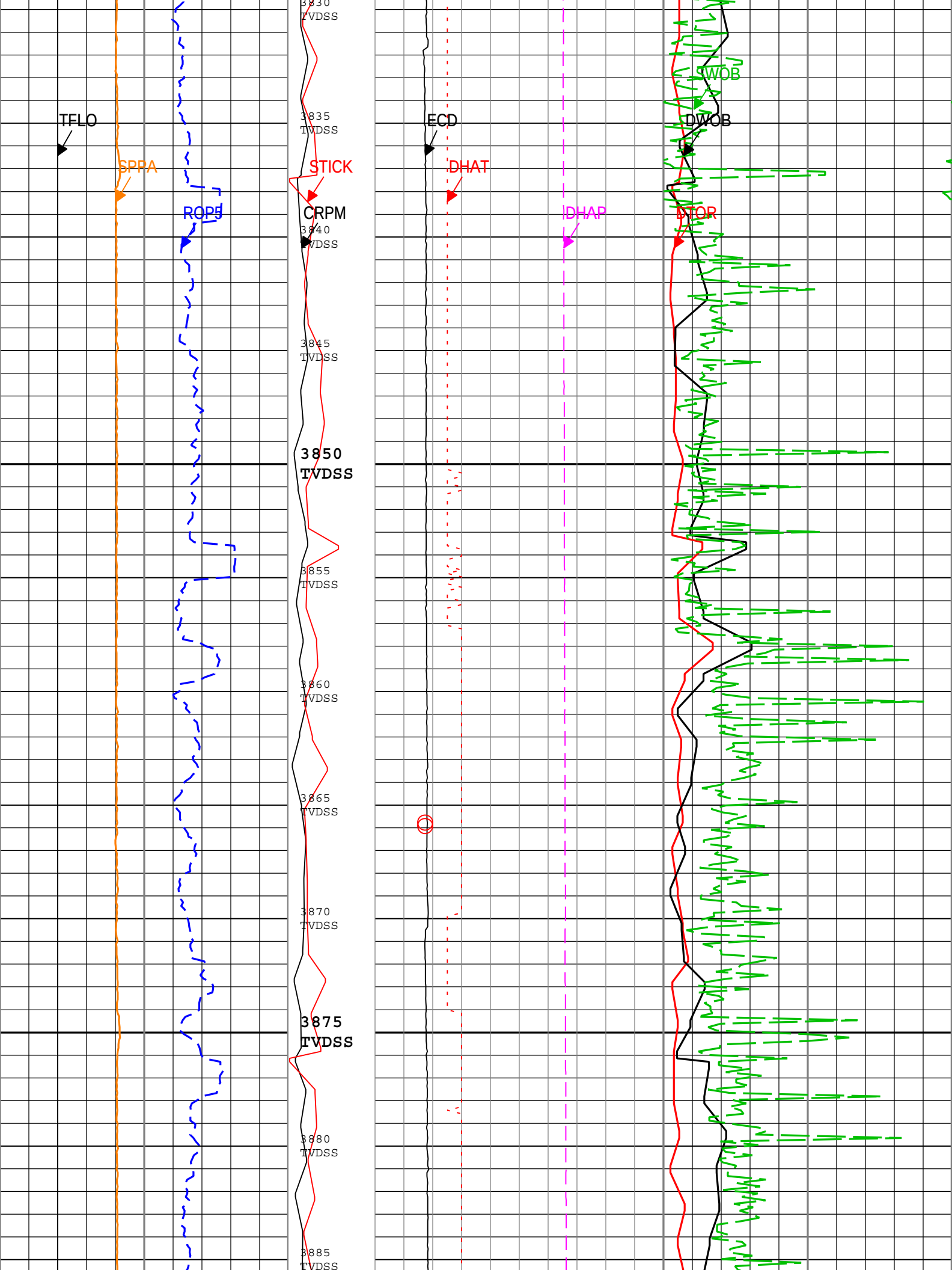
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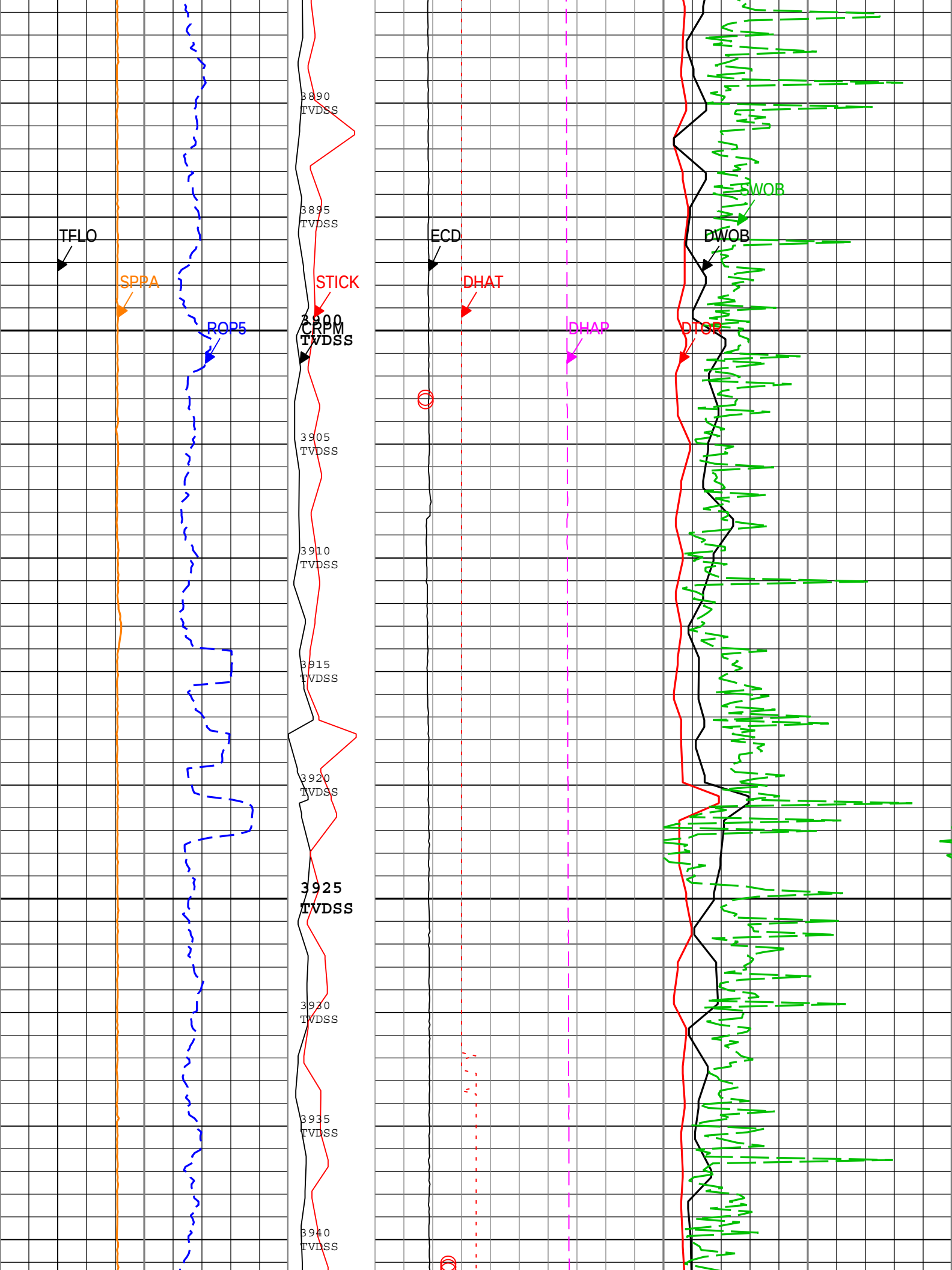
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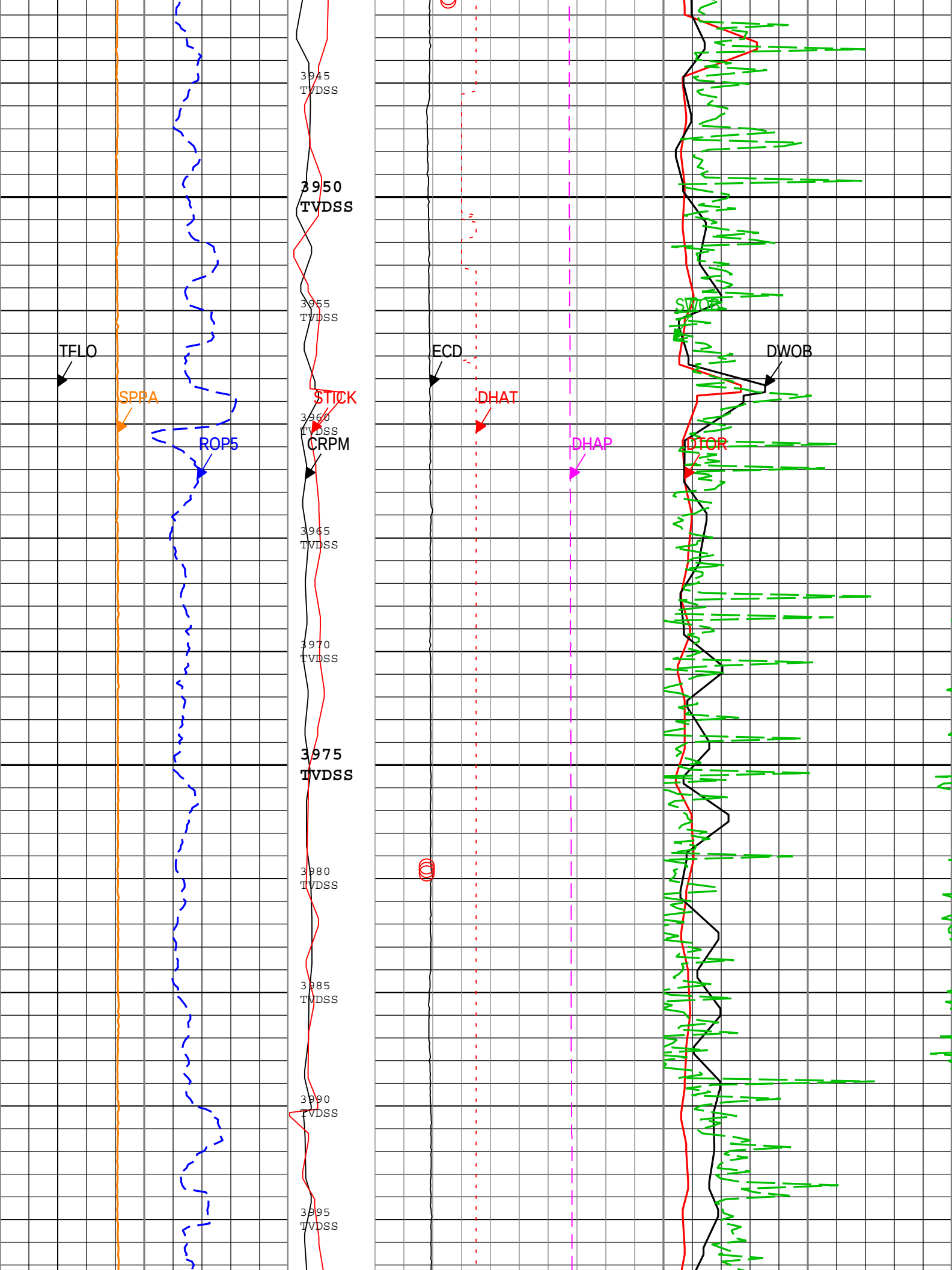
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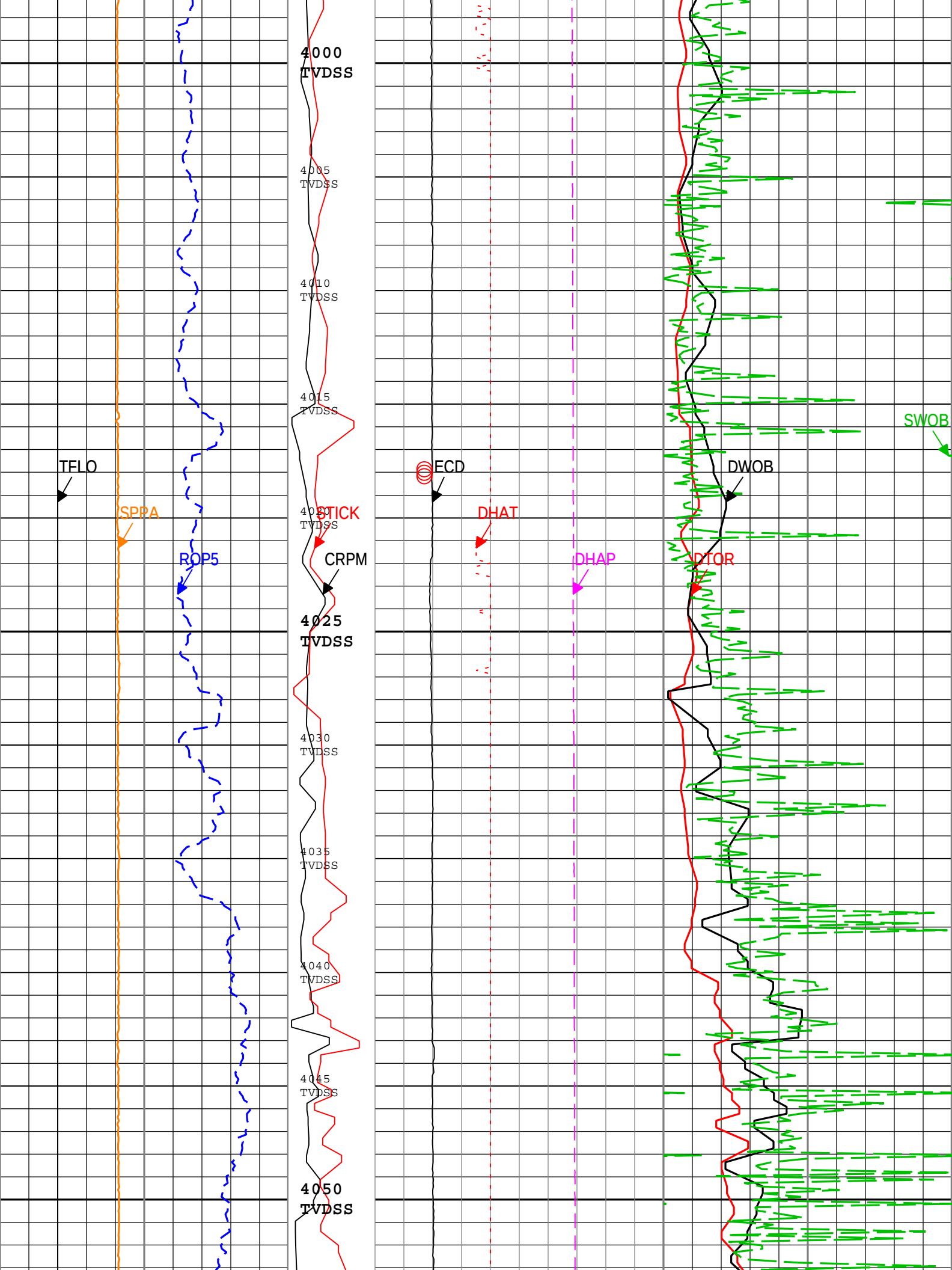
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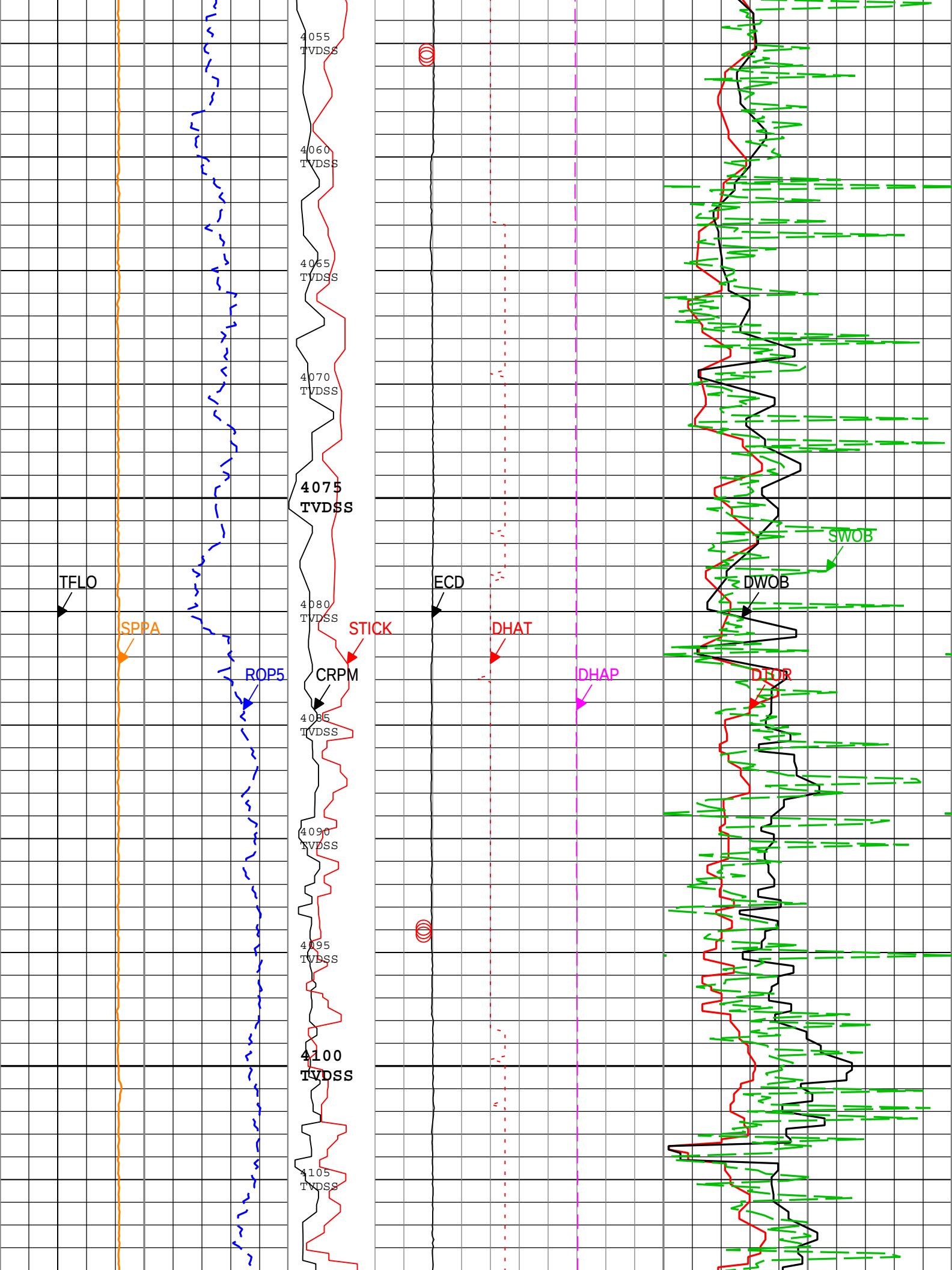
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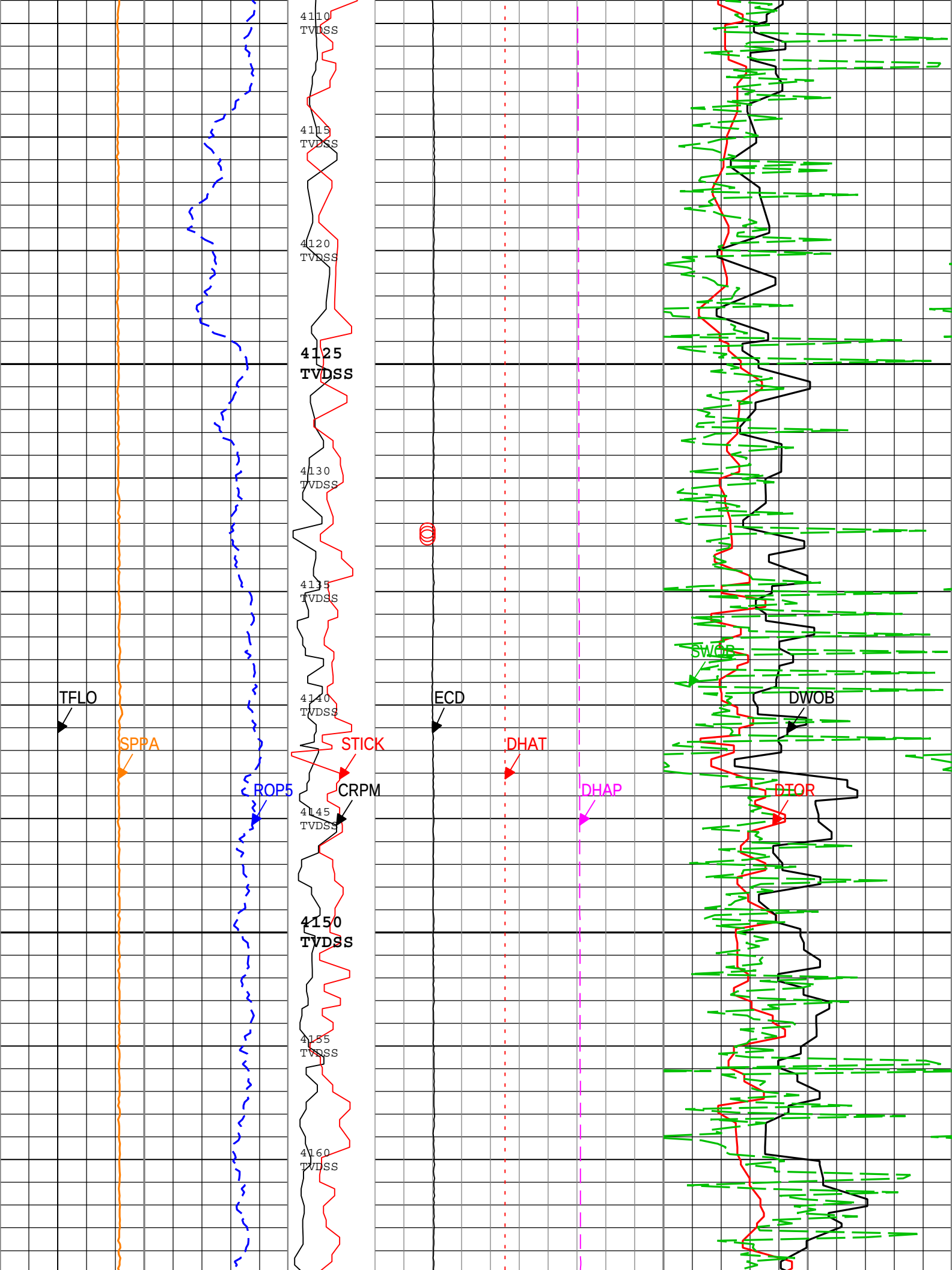
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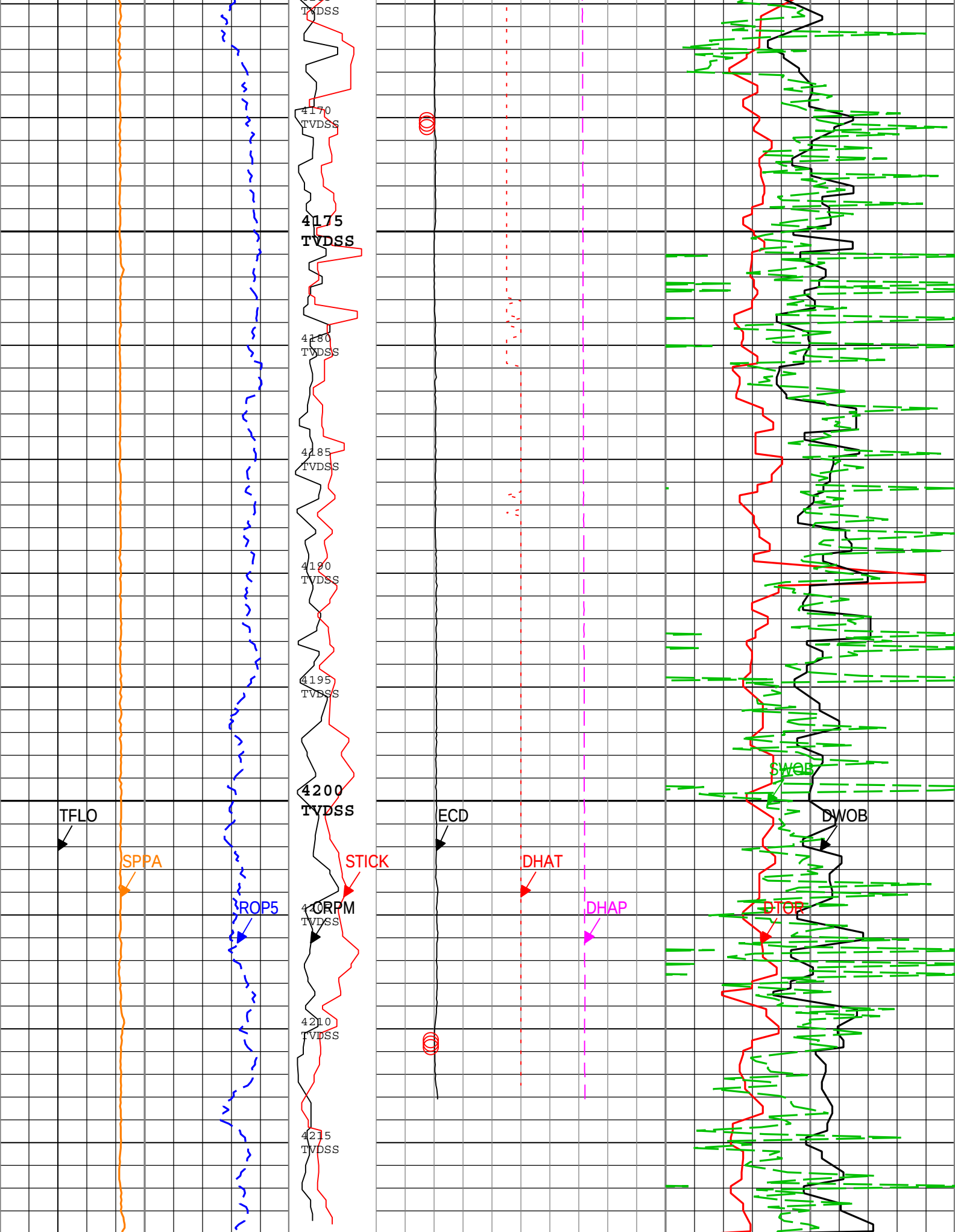
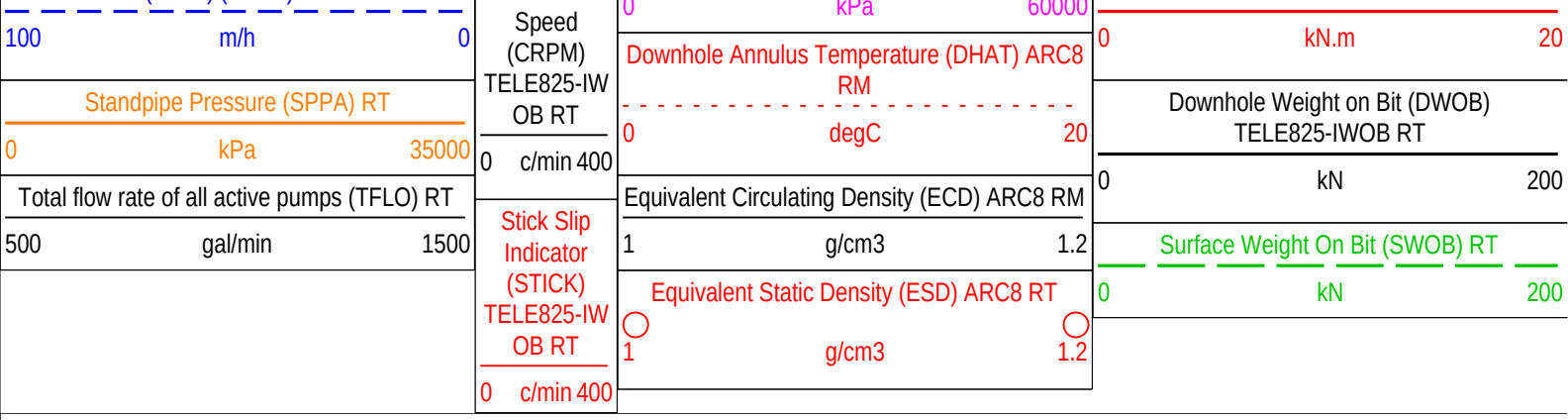


Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT

Collar Rotational

Downhole Annulus Pressure (DHAP) ARC8 RM

Downhole Torque (MWD) (DTOR) TELE825-IWOB RT



Description: Format: Log (DML Depth RM) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 08-Dec-2012 12:12:19

Calibration Report

RAB8 (GeoVision Resistivity 825) Calibration - Run 002

Primary Equipment :

Electronics Chassis	RBEC	865

M21V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Monitor 2 at T1 Calibration Coefficient		Master	1.00000	0.90000	1.02224	1.20000

M22V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Monitor 2 at T2 Calibration Coefficient		Master	1.00000	0.90000	0.99342	1.20000

M01V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Monitor 0 at T1 Calibration Coefficient		Master	1.00000	0.90000	1.05380	1.20000

M02V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Monitor 0 at T2 Calibration Coefficient		Master	1.00000	0.90000	1.04467	1.20000

R1V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Ring at T1 Calibration Coefficient		Master	0.01000	0.00950	0.01096	0.01250

R2V - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Ring at T2 Calibration Coefficient		Master	0.01000	0.00950	0.01097	0.01250

BDM1 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Button Deep at T1 Calibration Coefficient		Master	0.00067	0.00057	0.00066	0.00077

BDM2 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Button Deep at T2 Calibration Coefficient		Master	0.00067	0.00057	0.00066	0.00077

BMM1 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Button Medium at T1 Calibration Coefficient		Master	0.00067	0.00057	0.00069	0.00077

BMM2 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Button Medium at T2 Calibration Coefficient		Master	0.00067	0.00057	0.00069	0.00077

BSM1 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Button Shallow at T1 Calibration Coefficient		Master	0.00067	0.00057	0.00067	0.00077

BSM2 - Resistivity

Master (Time Frame File): 04:11:41 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Button Shallow at T2 Calibration Coefficient		Master	0.00067	0.00057	0.00067	0.00077

PGR - Gamma Ray: Blanket

Master (Time Frame File): 02:46:22 23-Nov-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Gamma Ray API Conversion Factor		Master	8.5500	6.5000	10.2700	10.6000

Company: JAMSTEC

Well: C0012H

Field: Nankai Trough - Kumano Basin

Rig Name: Chikyu

Prefecture: Wakayama

Country: Japan

Schlumberger

geoVISION - sonicVISION - APWD

Gamma Ray - Resistivity - Image - Compressional - APWD

12.25in Recorded Mode Log. True Vertical Depth Sub Sea 1:200