geoVISION - sonicVISION - APWD

Gamma Ray - Resistivity - Image - Compressional - APWD

12.25 X 20in Recorded Mode Log. True Vertical Depth Sub Sea 1:200

Schlumberger

Company:	JAMSTEC
Well:	C0002F
Field:	Nankai Trough - Kumano Basin
Rig Name:	Chikyu
Prefecture:	Wakayama
Country:	Japan

Latitude:	33° 18' 3.042" N	Custom:	12JAP0003
Longitude:	136° 38' 12.174" E	Rig Name:	Chikyu
Block:		Rig Type:	Drill Vessel

FL:	Philippine Sea
FL1:	X= 652,382.39 m
FL2:	Y= 3,685,834.62 m

Log Measured From: - Drill Floor: 28.50 m

Permanent Datum: - Mean Sea Level

Ground Level: 1939.00 m

Acquisition Dates:	03-Nov-2012 -- 12-Nov-2012	Other Services:
Log Interval:	2839.99(m) -- 3973.92(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:	02-Nov-2012	

Disclaimer

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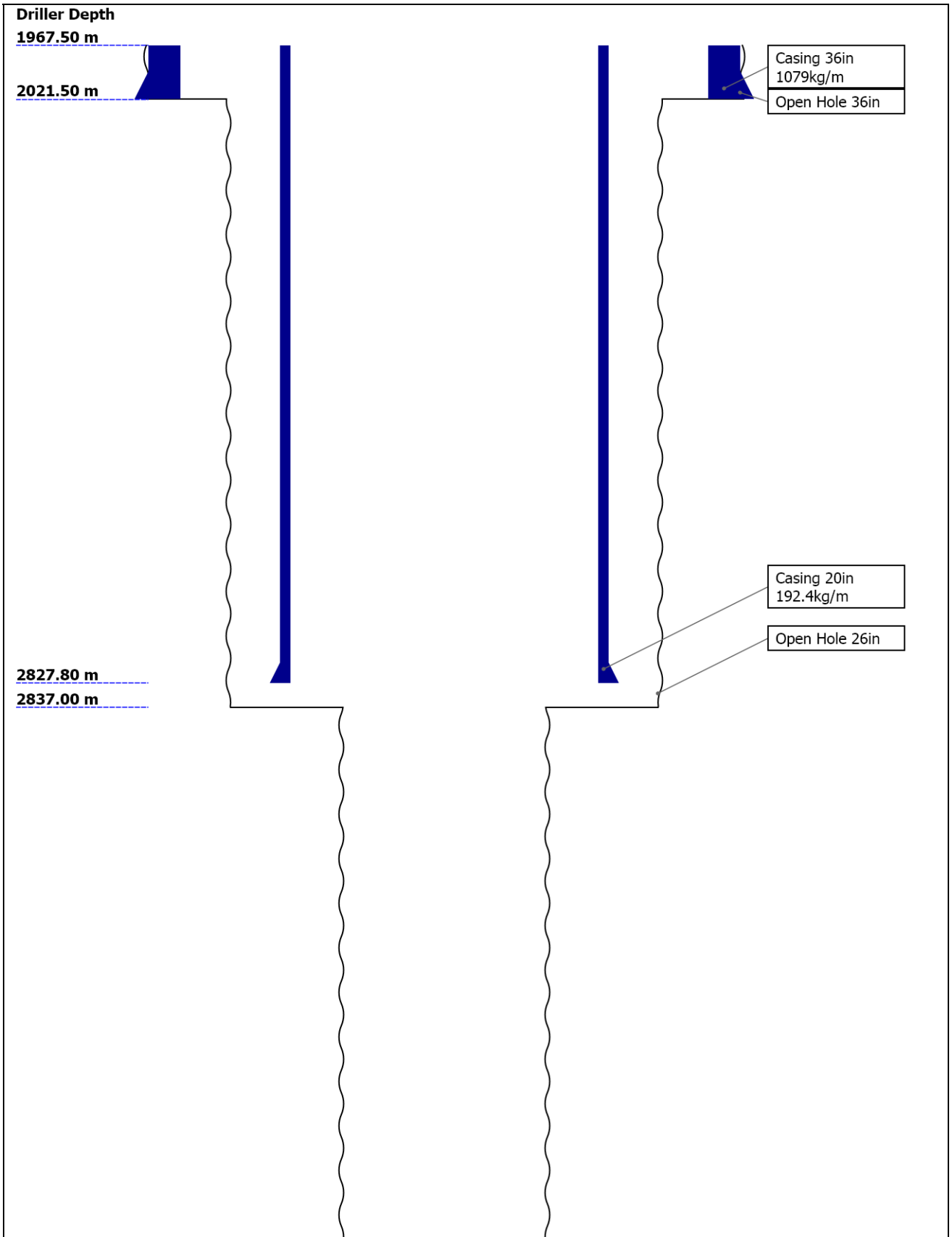
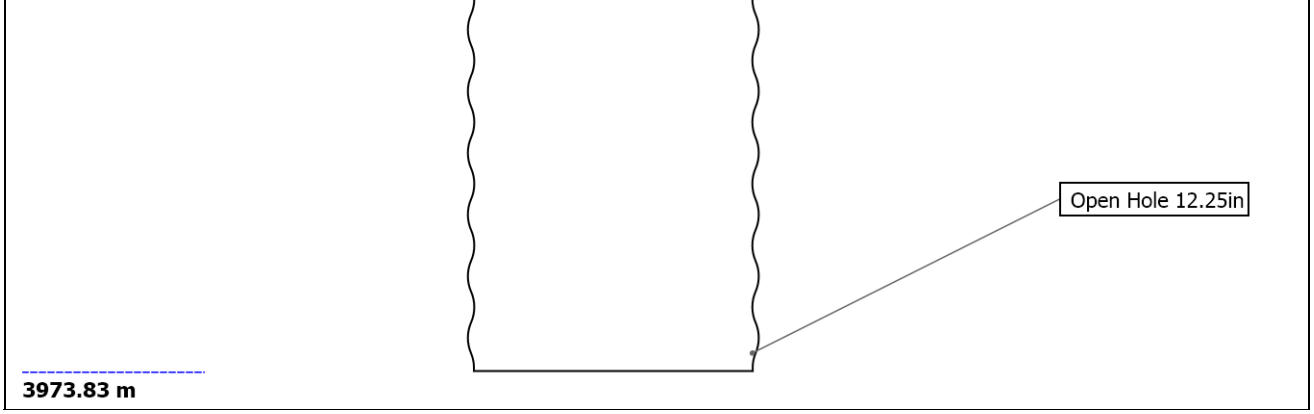
Well Sketch





Borehole Size/Casing Record

Bit						
Bit Size (in)	36	26	12.25			
Top Driller (m)	1967.5	2021.5	2837			
Bottom Driller (m)	2021.5	2837	3973.83			
Casing						
Size (in)	36	20				
Weight (kg/m)	1079	192.4				
Inner Diameter (in)	32.101	18.75				
Grade	X56	X56				
Top Driller (m)	1967.5	1967.5				
Bottom Driller (m)	2021.5	2827.8				

Operational Run Summary

Parameter (unit)	Run001					
Date Log Started	02-Nov-2012					
Time Log Started	04:22:48					
Date Log Finished	12-Nov-2012					
Time Log Finished	10:34:01					
Bit Size (in)	12.250					
Bit Start Depth (m)	2843.12					
Bit Stop Depth (m)	3973.83					
Top Log Interval (m)	2819.77					
Bottom Log Interval (m)	3973.56					
Max Hole Deviation (deg)	1.01					
Azimuth of Max Deviation (deg)	137.93					
Logging Unit Number	OLU-KC-504					
Logging Unit Location	Comp Deck					
Recorded By	Wang Feng Shao Kai					
Witnessed By	Yoshi Sanada Yukari Kido Yuichi Shinmoto					
Service Order Number	12JAP0003					

Borehole Fluids

Parameter(unit)	Run001					
Fluid Type	Water					
Max Recorded Temperatures (degC)	30					
Source of Sample	Active Tank					
Salinity (ppm)	73620.44					
Density (g/cm3)	1.1					
Funnel Viscosity (s)	80					
Fluid Loss (cm3)						
PH	10.6					
Source RMF	Pressed					
RMC	Pressed					
RM @ Meas Temp (ohm.m@degC)	0.1 @ 22					
RMF @ Meas Temp (ohm.m@degC)	0.15 @ 20					
RMC @ Meas Temp (ohm.m@degC)	0.08 @ 20					
RM @ BHT (ohm.m@degC)	0.08 @ 33					
RMF @ BHT (ohm.m@degC)	0.11 @ 33					
RMC @ BHT (ohm.m@degC)	0.06 @ 33					
Total Solid (%)	6					
High Gravity Solids (%)	3.6					

Remarks and Equipment Summary

Run001: Toolstring

Equip name	Length	MP name	Offset
Stab: 8 1/4":7171 8	28.77	Schumberger	
SONICVISION8:E 4674-1	26.39	Schlumberger	
Delta-T			23.35
ROP			22.96
TELE825-IWOB:G 0159	18.26	Schlumberger	

Run001: 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 15s, sonicVISION record rate is 15s, APWD record rate is 10s.

geoVISION GR is corrected for bit size, tool size, mud weight and 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 Condition.

Drilling Time: 90.40 hrs

Pumping Time: 168.53 hrs

Warning in calibration list is due to MaxWell bug.

D&I 13.95
GR 13.31
ROP 11.6
IWOB 10.59
ARC8:1942-SRPC 9.82
Schlumberger
ROP 7.69
GR 6.62
Resistivity 6.57
Pressure 5.86
RAB8:34704 4.18
Schlumberger
Buttons 1.58
Ring 1.38
GR 1.12
ROP 1.09
Bit Res, OBM 0.00
Bit Res, WBM 0.26
Bit: 12 1/4":RSF6 16M-A21 0.3
TOOL ZERO

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 :	0.89 deg		

Rig Location

Latitude :	33° 18' 3.042" N	Longitude :	136° 38' 12.174" 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 - Run001

Geomagnetic Model :	BGGM 2011	Geomagnetic Date :	27-Oct-2012
Computed Location B :	45961.16 nT +/- 300.00nT	Used Location B :	45961.16 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 :	46.83 deg +/- 0.45deg	Used Magnetic Dip :	46.83 deg +/- 0.45deg
Computed Magnetic Dec :	-6.74 deg	Used Magnetic Dec :	-6.74 deg
Computed Total Correction :	-7.63 deg	Used Total Correction :	-7.63 deg

Survey Quality Index

0 : Long Survey passed all criteria 9 : Manual 28 : Tie-In Point

Survey Correction Index

0 : No correction

Survey Description Index

0 : Not Flagged Survey 11 : Secondary Tie-In Point

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	1967.50	0.00	0.00	1967.50	1967.50	0.00	0.00	0.00	0.00	90.00	0.00	Other	9	0	11
3	2866.60	0.54	179.22	899.10	2866.59	-4.27	-4.27	0.06	4.27	179.22	0.02	TeleScope	0	0	0
4	2878.95	0.51	176.56	12.35	2878.94	-4.38	-4.38	0.06	4.39	179.19	0.11	TeleScope	0	0	0
5	2914.04	0.52	176.97	35.08	2914.02	-4.70	-4.70	0.08	4.70	179.03	0.01	TeleScope	0	0	0
6	2952.27	0.55	185.56	38.24	2952.26	-5.05	-5.05	0.07	5.05	179.19	0.07	TeleScope	0	0	0
7	2990.43	0.55	200.51	38.16	2990.41	-5.41	-5.41	-0.01	5.41	180.11	0.11	TeleScope	0	0	0
8	3030.05	0.62	198.26	39.62	3030.03	-5.79	-5.79	-0.14	5.79	181.42	0.06	TeleScope	0	0	0
9	3069.22	0.56	194.83	39.16	3069.19	-6.18	-6.18	-0.26	6.18	182.41	0.05	TeleScope	0	0	0
10	3106.35	0.53	189.40	37.13	3106.32	-6.52	-6.52	-0.33	6.53	182.94	0.05	TeleScope	0	0	0
11	3143.09	0.56	194.71	36.74	3143.07	-6.87	-6.87	-0.41	6.88	183.40	0.04	TeleScope	0	0	0
12	3181.17	0.63	194.45	38.08	3181.14	-7.25	-7.25	-0.51	7.26	184.00	0.06	TeleScope	0	0	0
13	3219.49	0.55	193.39	38.31	3219.46	-7.63	-7.63	-0.60	7.65	184.51	0.06	TeleScope	0	0	0
14	3255.97	0.61	196.03	36.49	3255.94	-7.99	-7.99	-0.70	8.02	184.99	0.06	TeleScope	0	0	0
15	3296.31	0.66	202.77	40.34	3296.28	-8.41	-8.41	-0.85	8.45	185.75	0.07	TeleScope	0	0	0
16	3334.22	0.60	200.03	37.91	3334.18	-8.80	-8.80	-1.00	8.86	186.48	0.05	TeleScope	0	0	0
17	3372.69	0.68	189.74	38.47	3372.65	-9.21	-9.21	-1.11	9.28	186.85	0.11	TeleScope	0	0	0
18	3411.49	0.47	174.45	38.80	3411.44	-9.60	-9.60	-1.13	9.67	186.72	0.20	TeleScope	0	0	0
19	3449.55	0.35	162.27	38.06	3449.51	-9.87	-9.87	-1.08	9.93	186.25	0.12	TeleScope	0	0	0
20	3489.60	0.34	174.03	40.05	3489.56	-10.10	-10.10	-1.03	10.15	185.83	0.05	TeleScope	0	0	0
21	3524.48	0.34	153.31	34.88	3524.43	-10.30	-10.30	-0.97	10.34	185.41	0.11	TeleScope	0	0	0
22	3562.73	0.20	126.68	38.25	3562.68	-10.44	-10.44	-0.87	10.47	184.77	0.14	TeleScope	0	0	0
23	3601.82	0.32	144.45	39.09	3601.77	-10.57	-10.57	-0.75	10.59	184.06	0.11	TeleScope	0	0	0
24	3639.57	0.39	142.68	37.76	3639.53	-10.76	-10.76	-0.61	10.77	183.25	0.05	TeleScope	0	0	0
25	3678.50	0.45	151.27	38.93	3678.46	-11.00	-11.00	-0.46	11.00	182.39	0.07	TeleScope	0	0	0
26	3717.42	0.61	149.48	38.91	3717.37	-11.31	-11.31	-0.28	11.31	181.42	0.12	TeleScope	0	0	0
27	3754.59	0.79	148.47	37.18	3754.54	-11.69	-11.69	-0.05	11.69	180.23	0.15	TeleScope	0	0	0

28	3791.84	0.94	138.16	37.25	3791.79	-12.14	-12.14	0.29	12.15	178.62	0.18	TeleScope	0	0	0
29	3830.30	1.00	137.82	38.46	3830.24	-12.63	-12.63	0.73	12.65	176.69	0.05	TeleScope	0	0	0
30	3869.01	1.01	137.93	38.71	3868.95	-13.13	-13.13	1.19	13.19	174.83	0.01	TeleScope	0	0	0
31	3906.90	0.95	140.16	37.88	3906.82	-13.62	-13.62	1.61	13.72	173.25	0.06	TeleScope	0	0	0
32	3947.96	0.95	139.78	41.07	3947.89	-14.15	-14.15	2.05	14.29	171.74	0.00	TeleScope	0	0	0

UDComposite 1

Integration Summary

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

Composite Summary

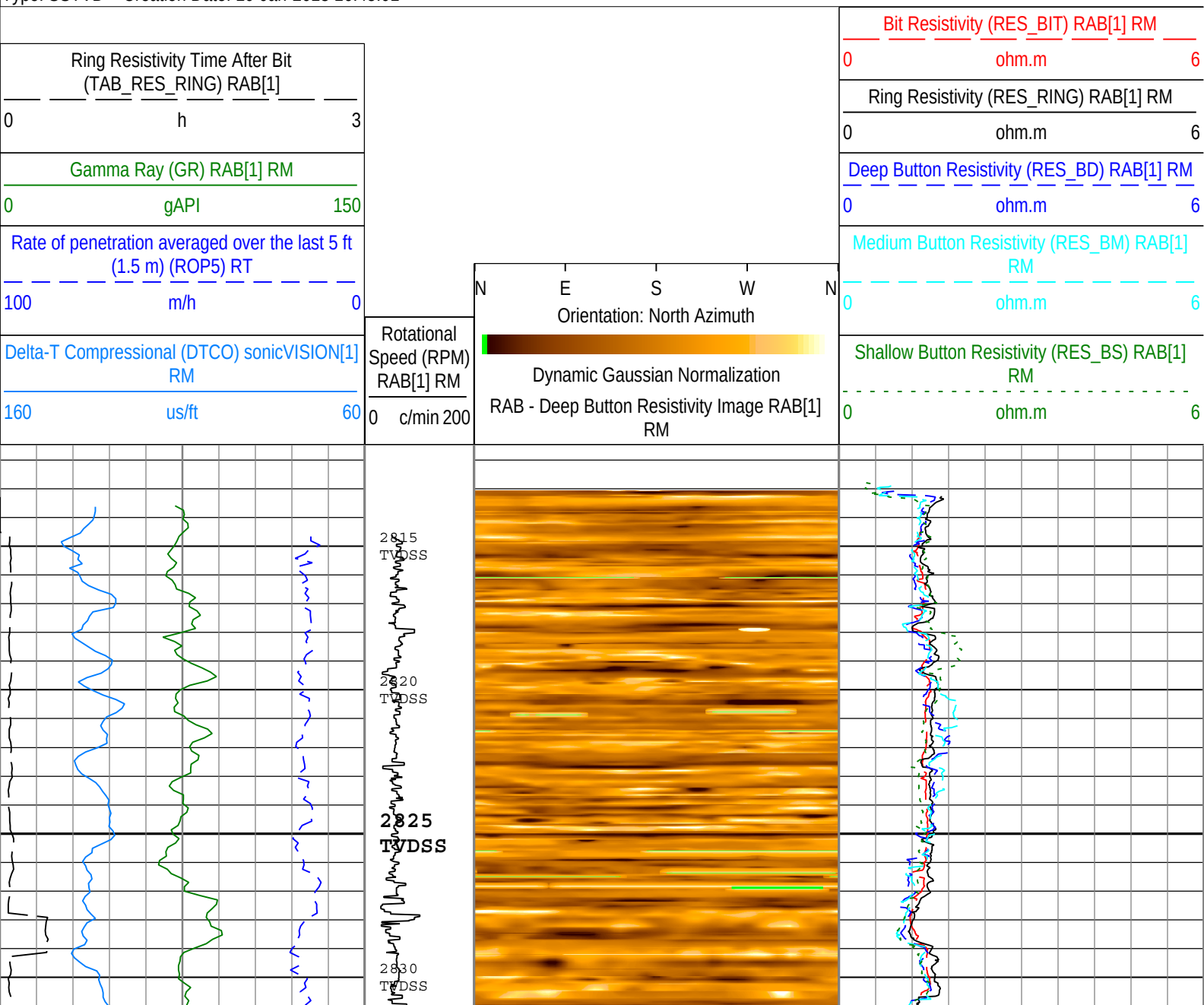
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run001	Drilling	Down	2843.12 m	3973.83 m	03-Nov-2012 3:03:09 AM	12-Nov-2012 10:34:01 AM	

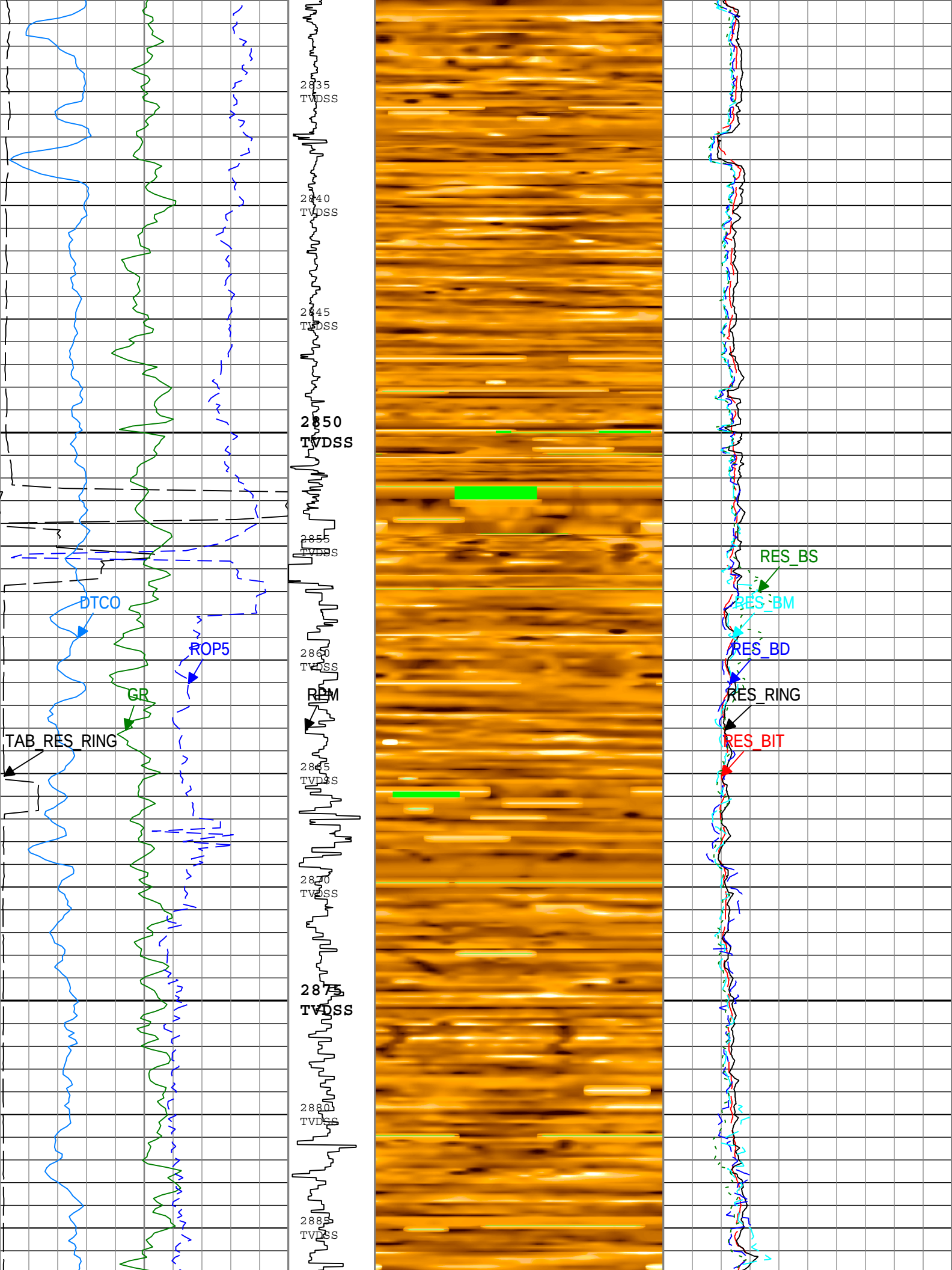
All depths are referenced to toolstring zero

Log

UDComposite 1

Description: GVR Resistivity, Deep Button Image Format: Log (Sonic-GVR Image-APWD Depth RM NoTick) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 16:45:01

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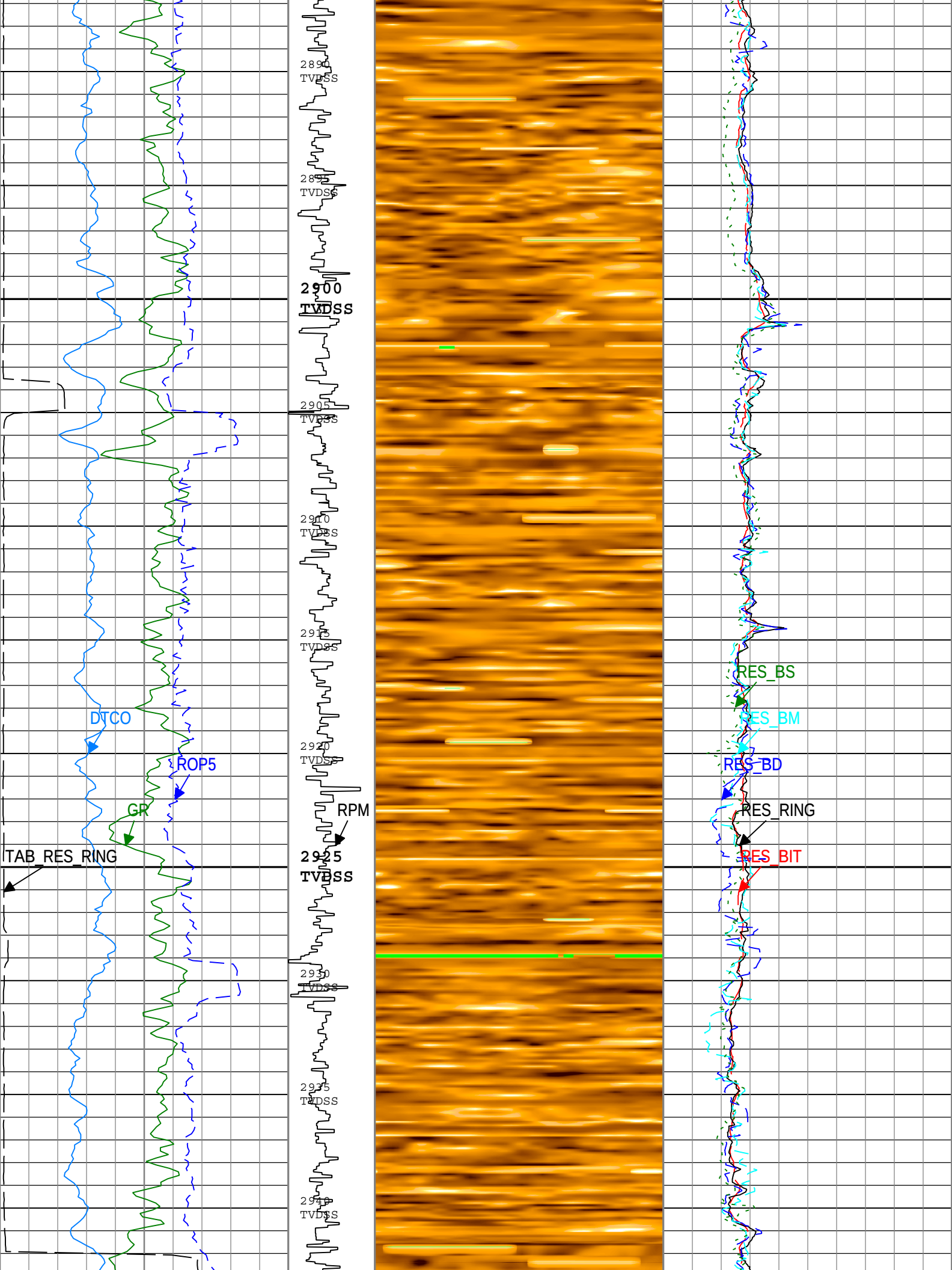
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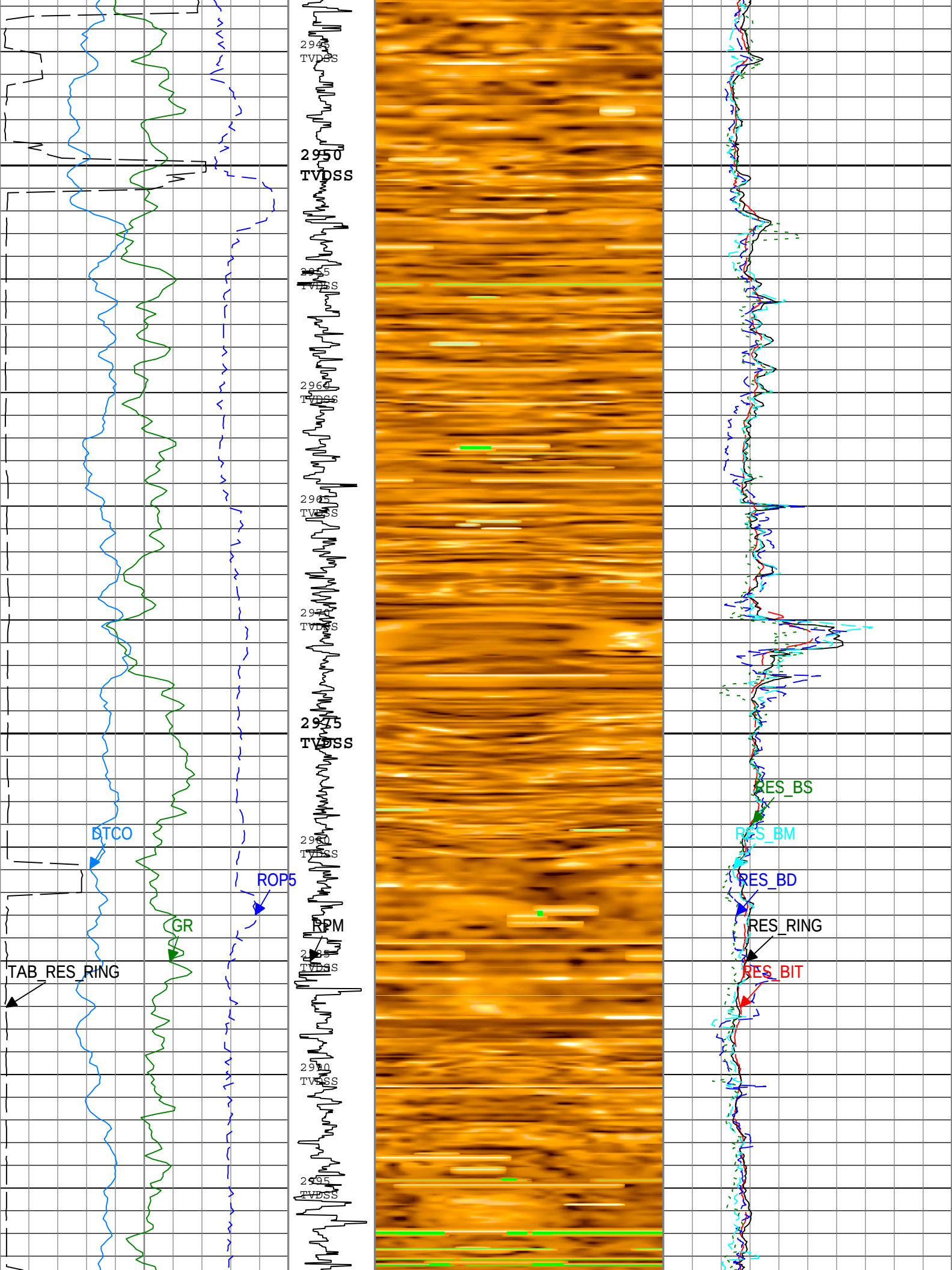
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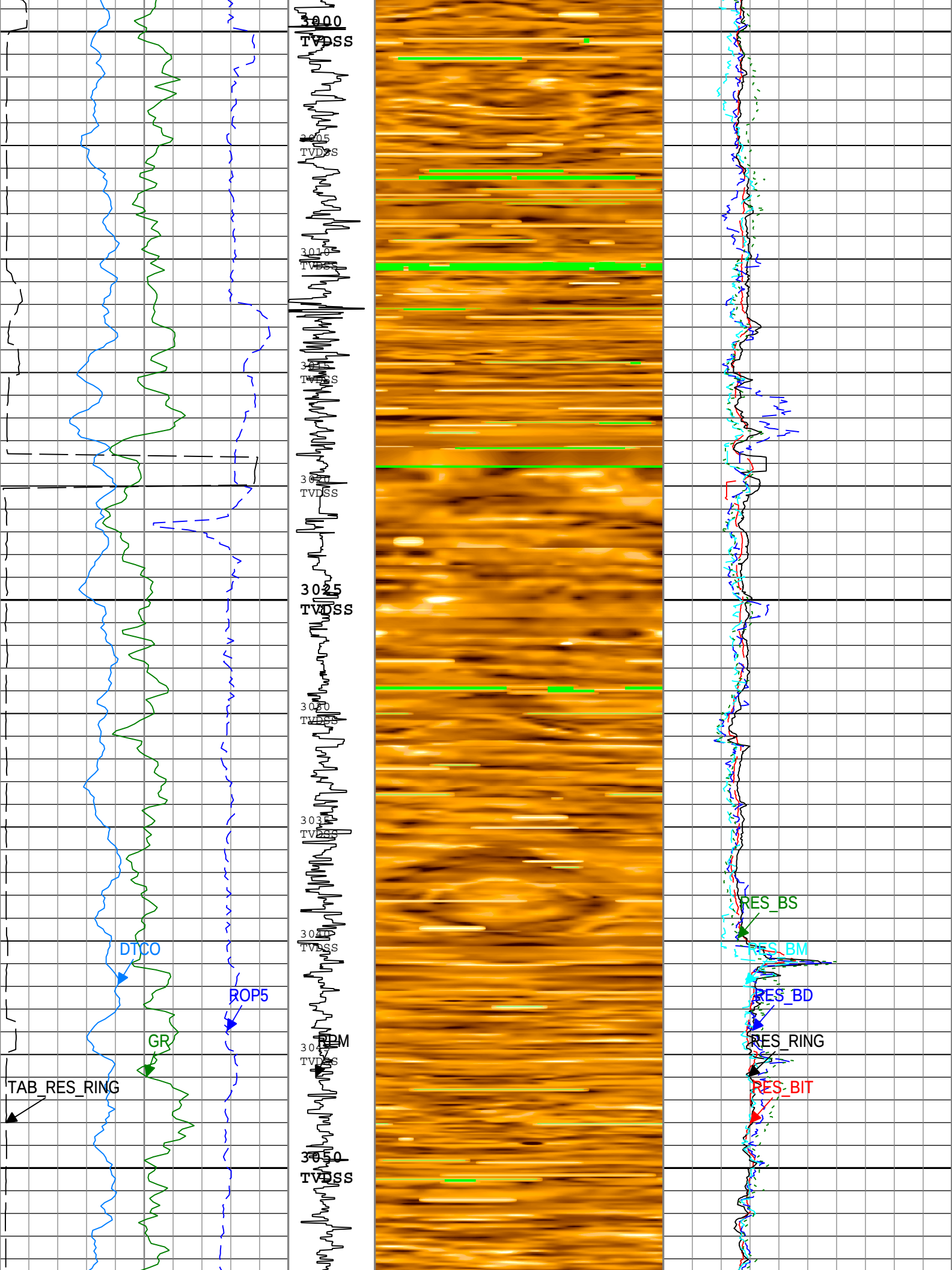
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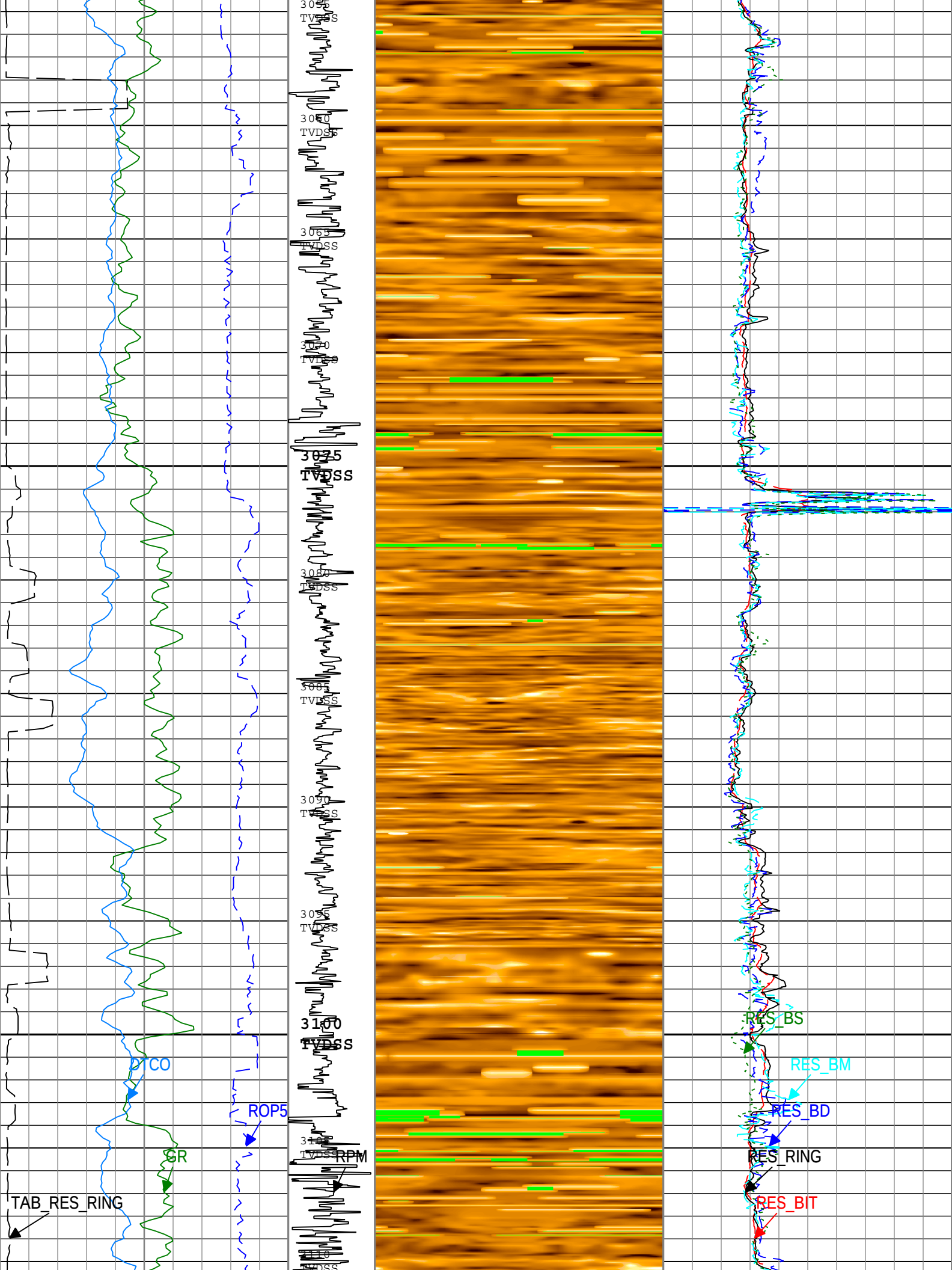
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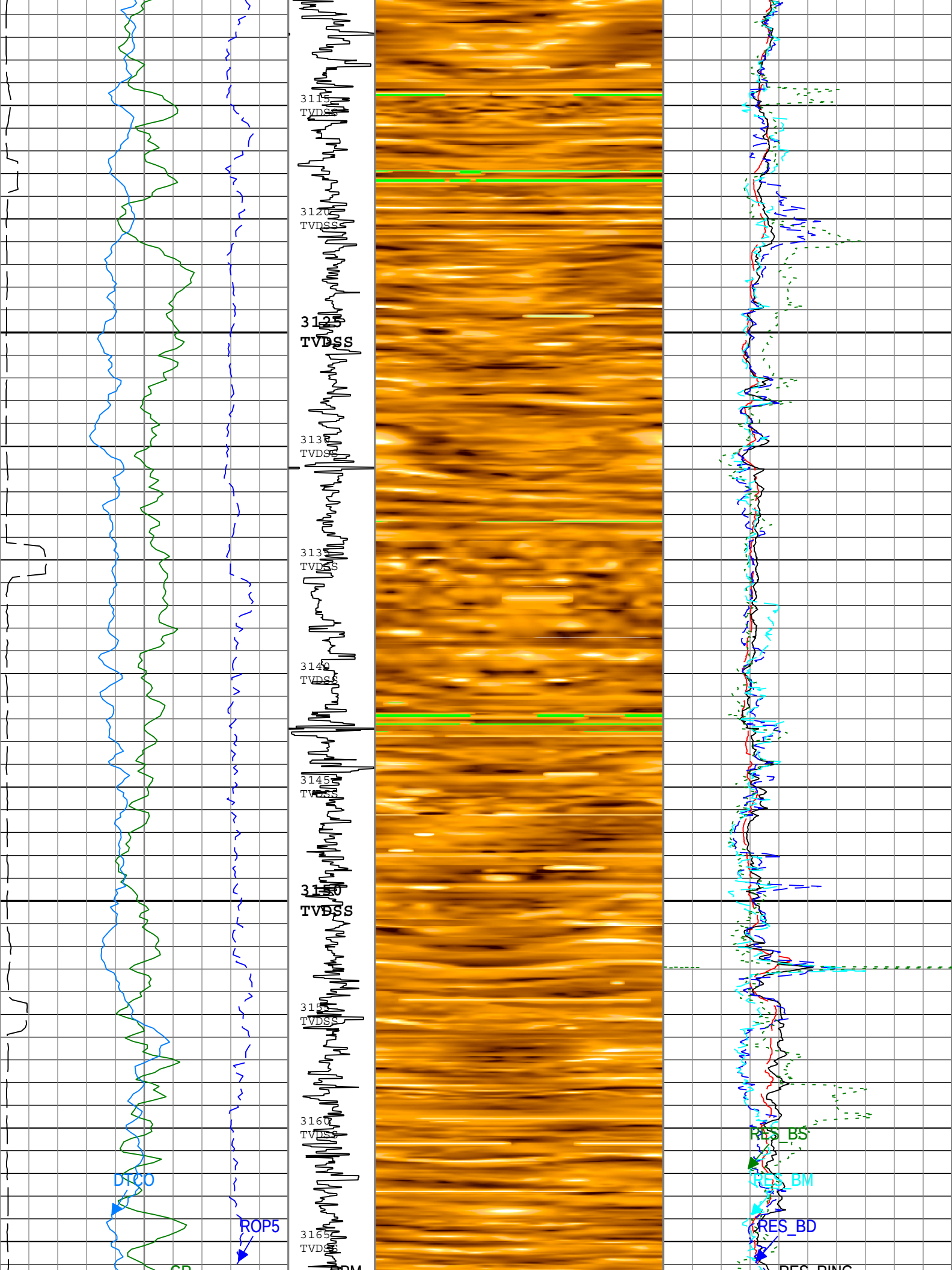
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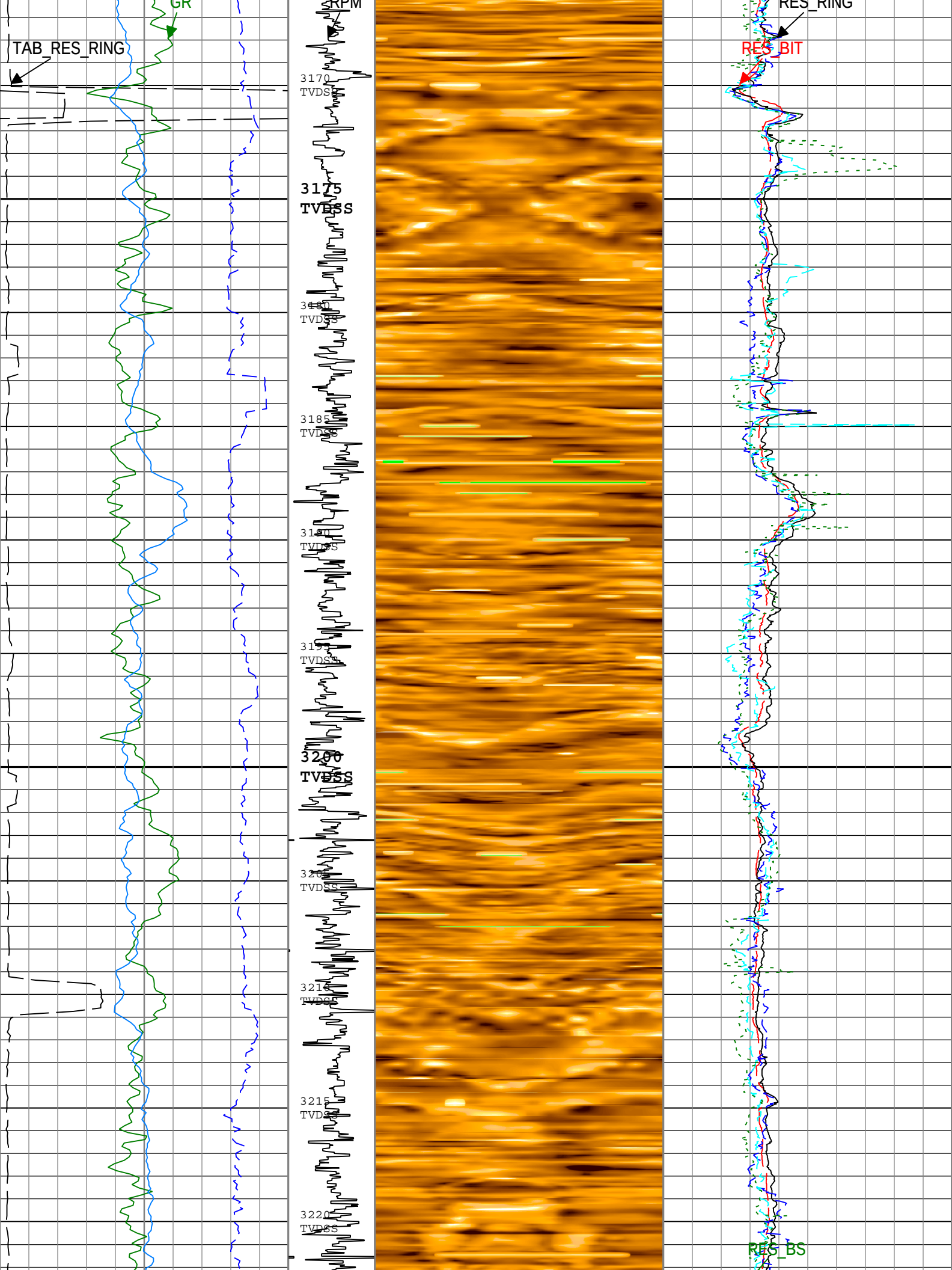
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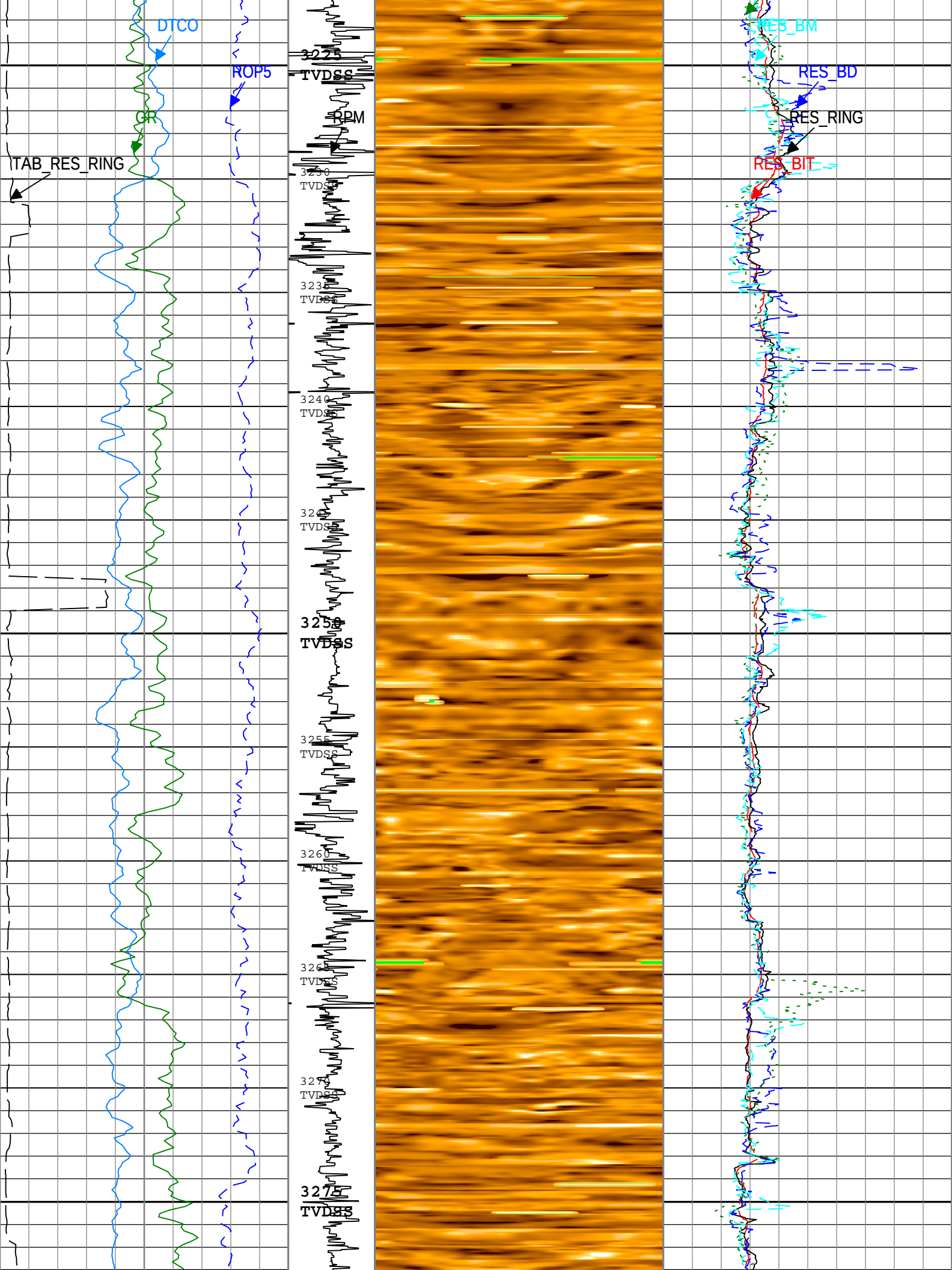
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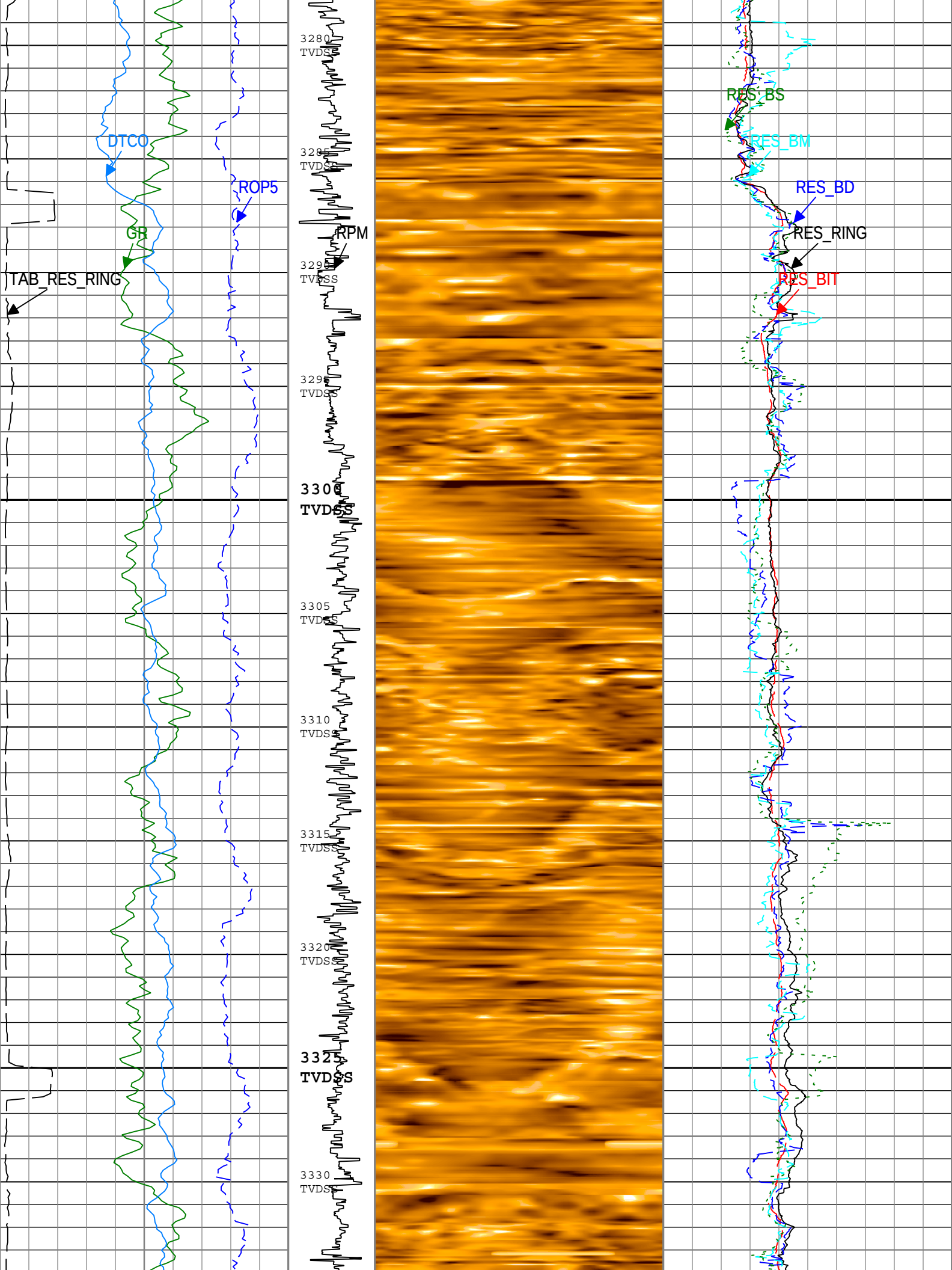
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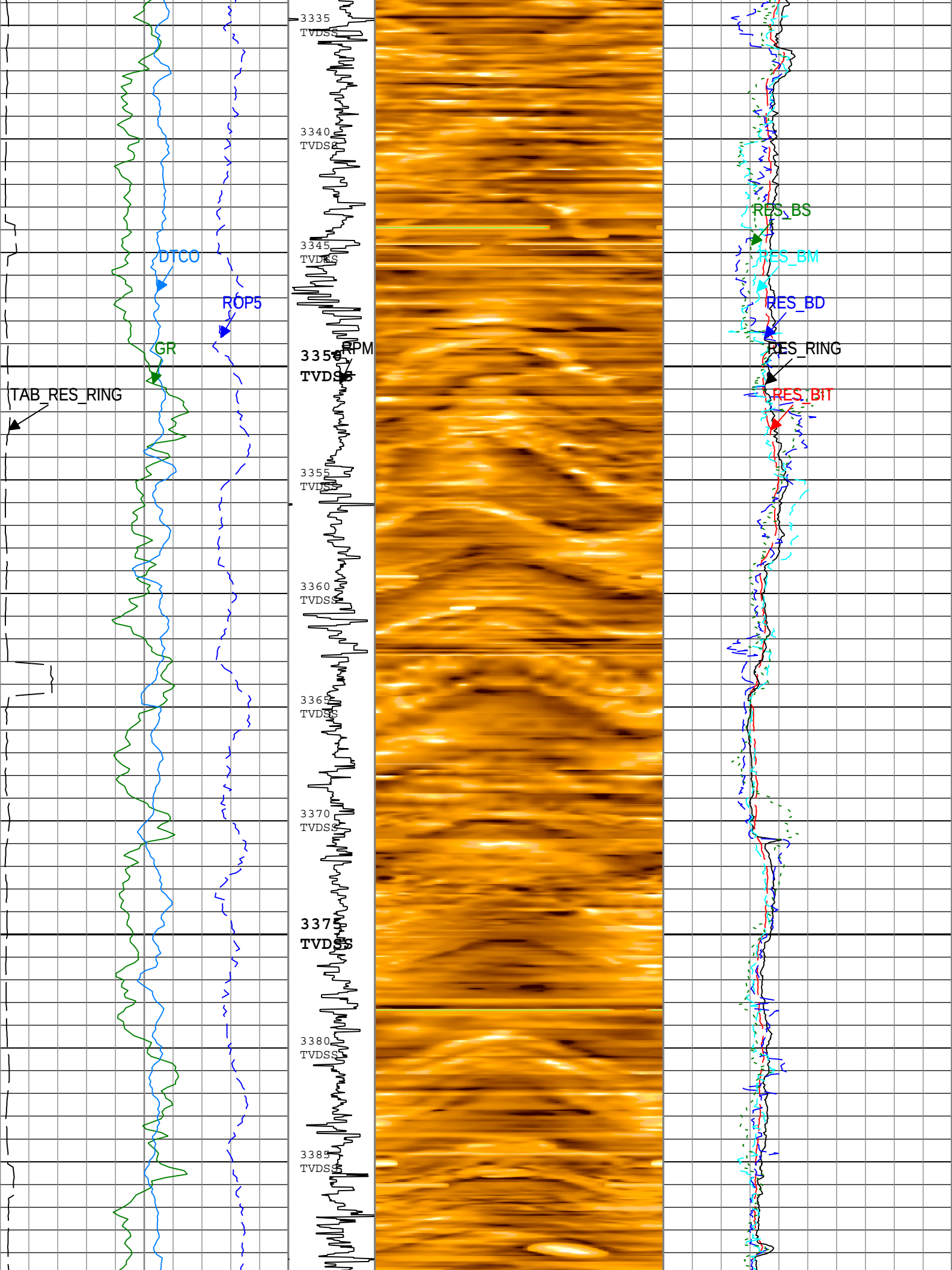
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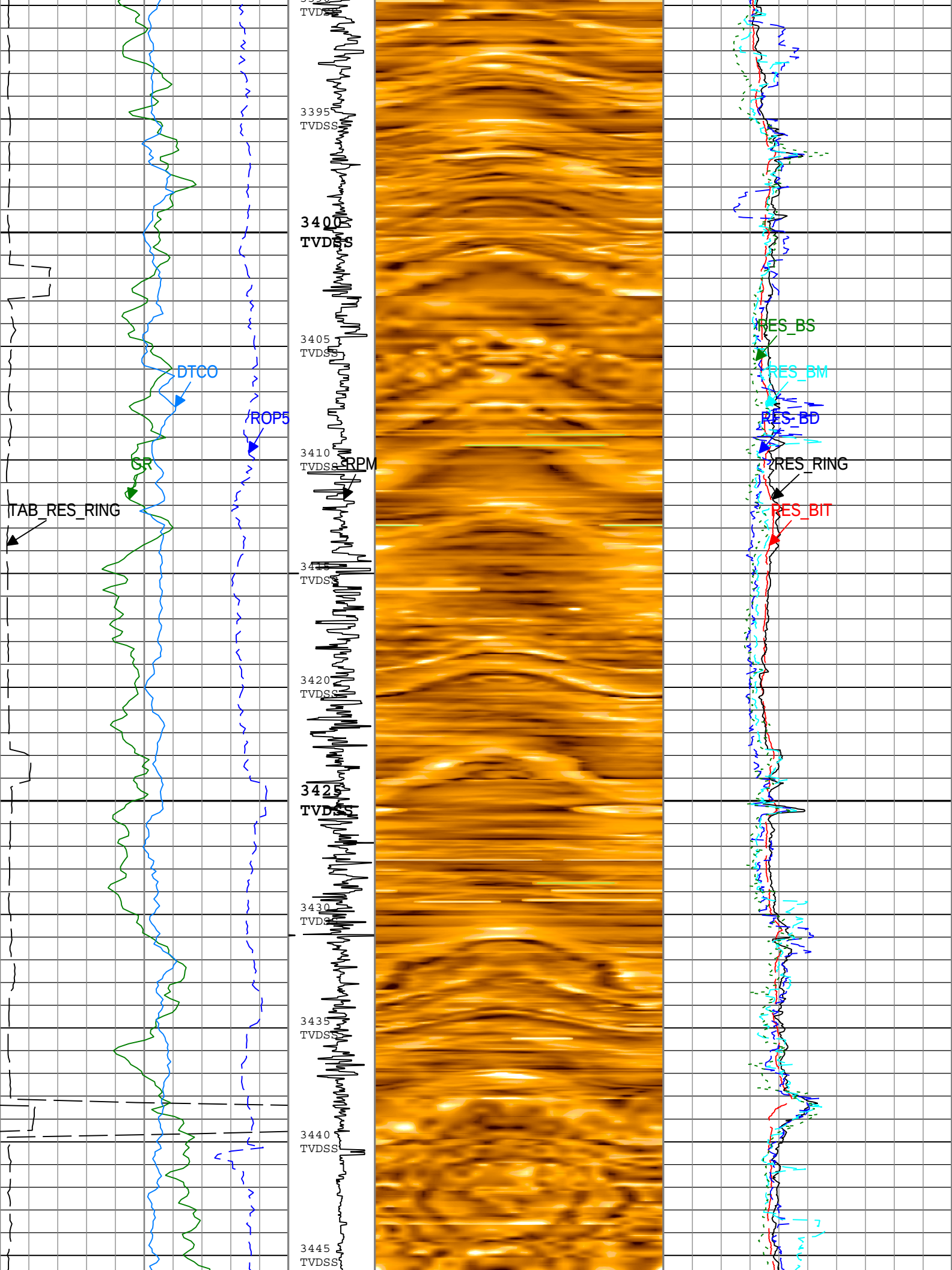
RES_BIT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TVDSS
3435
TVDSS
3440
TVDSS
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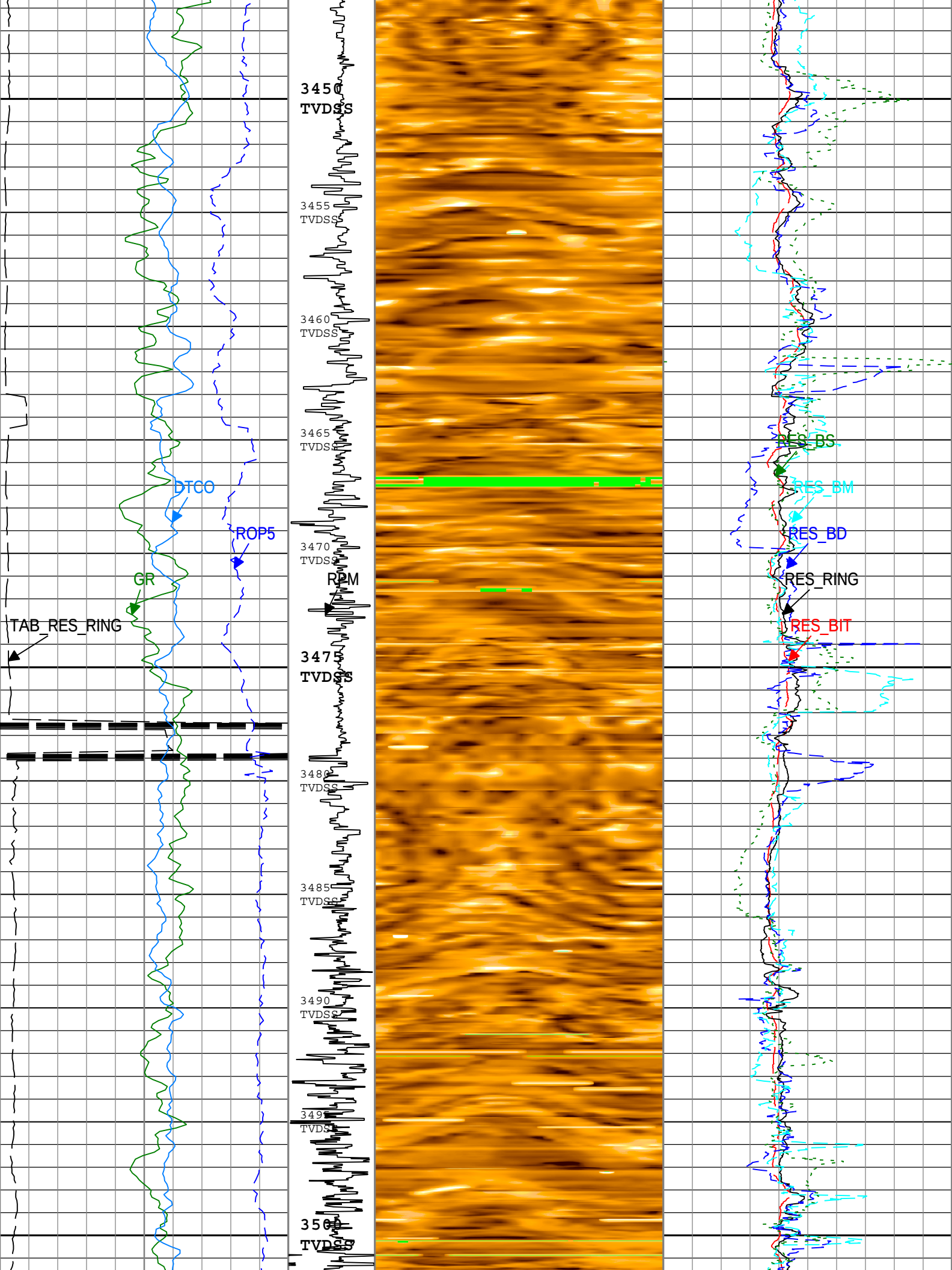
DTCO
ROP5
GR
TAB_RES_RING
RPM
RES_BS
RES_BM
RES_BD
RES_RING
RES_BIT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3490
TVDSS
3495
TVDSS
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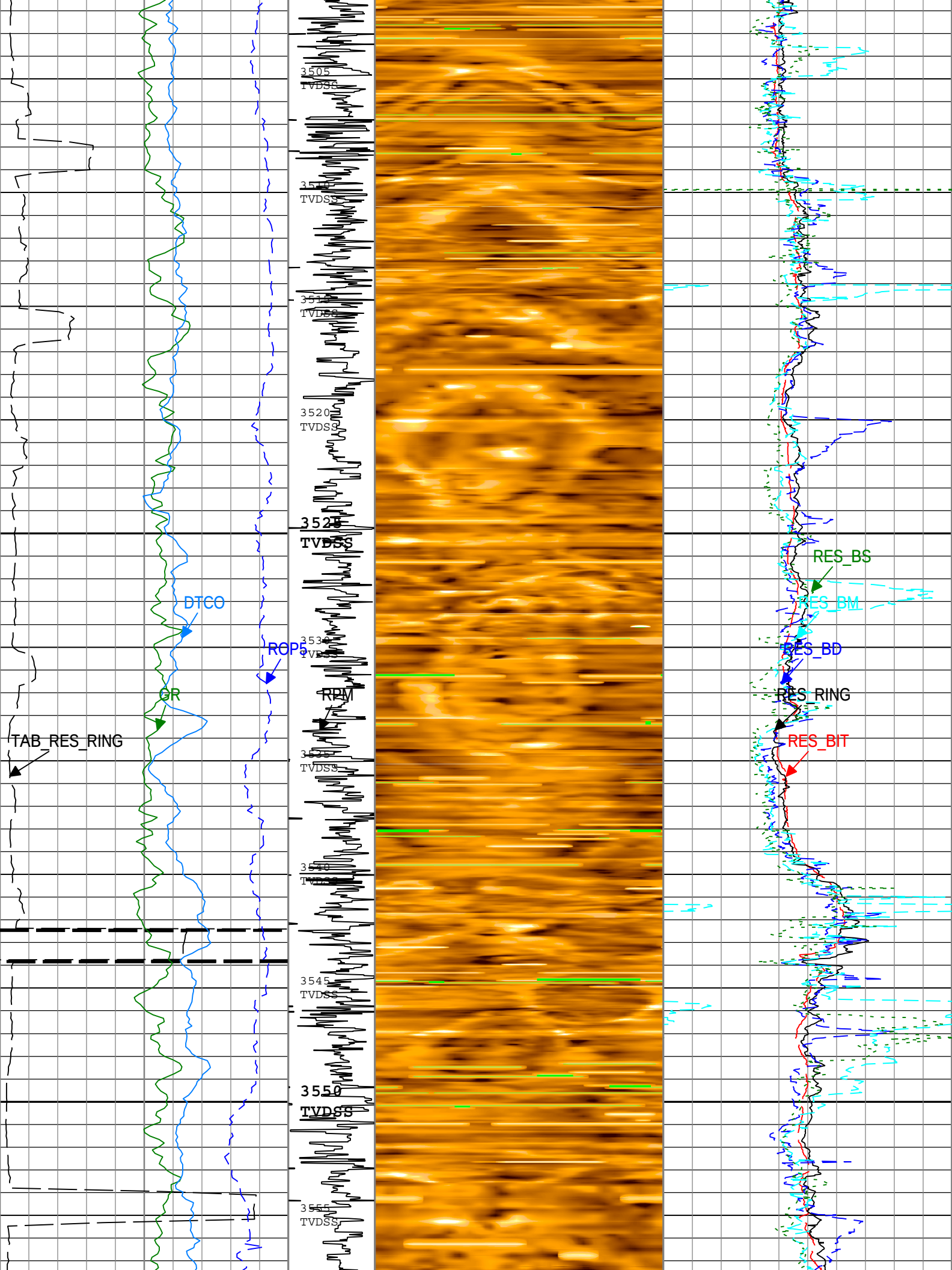
DTCO
ROP5
GR
TAB_RES_RING
RPM
RES_BS
RES_BM
RES_BD
RES_RING
RES_BIT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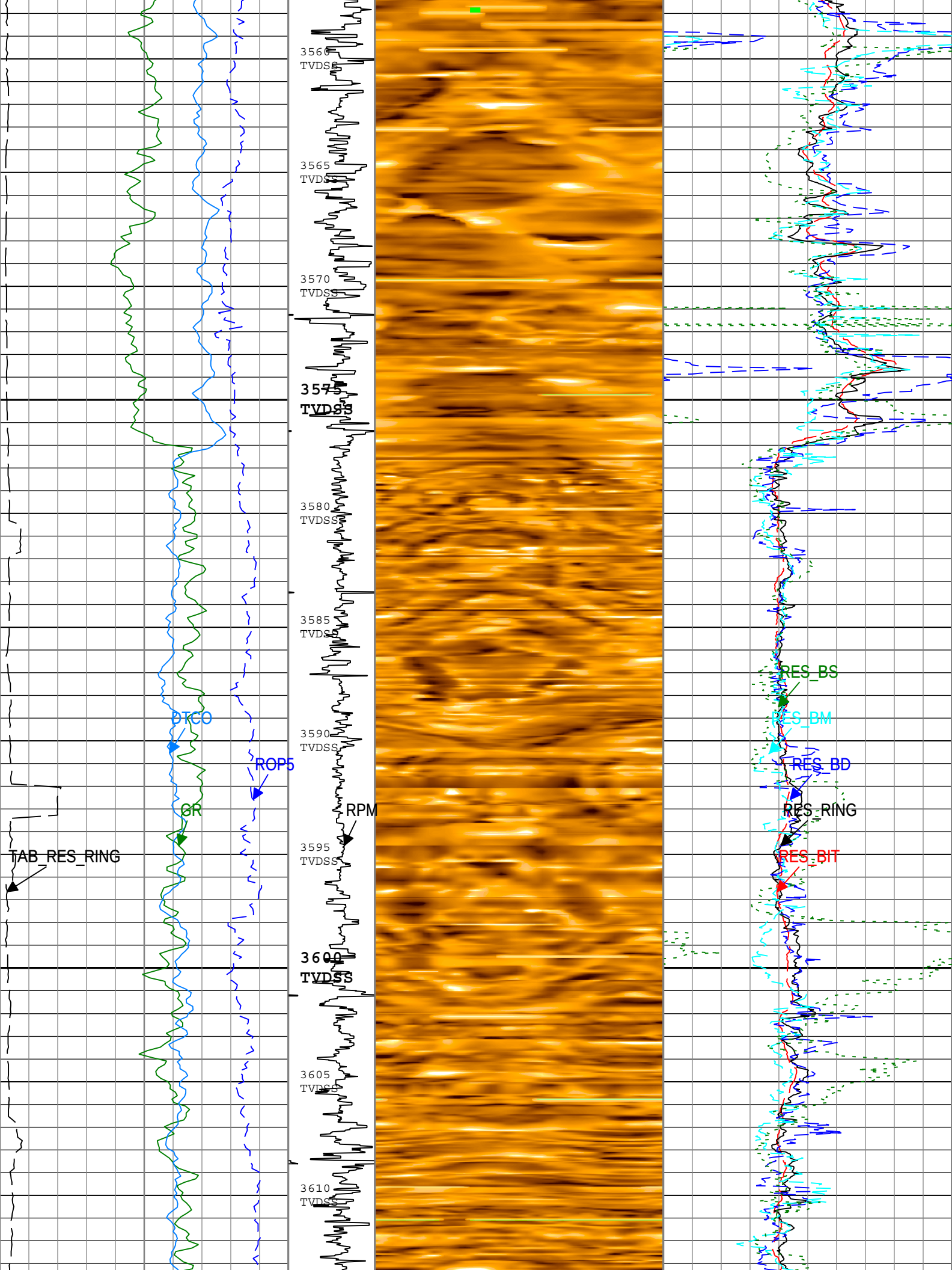
ROP5
GR
RPM
TAB_RES_RING
RES_BS
RES_BM
RES_BD
RES_RING
RES_BIT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3605
TVDSS
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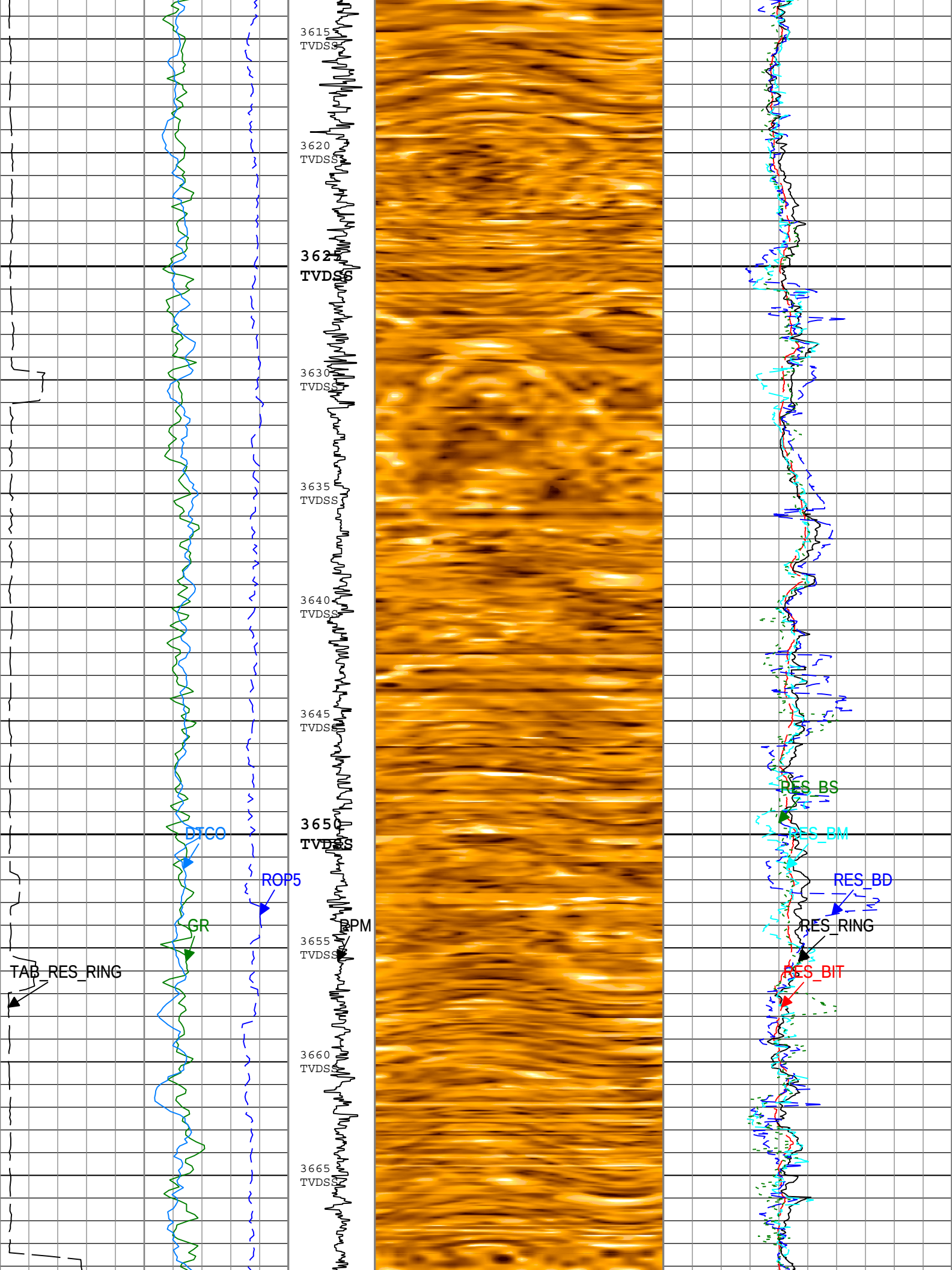
GR
RPM
TAB_RES_RING
RES_BS
RES_BM
RES_BD
RES_RING
RES_BIT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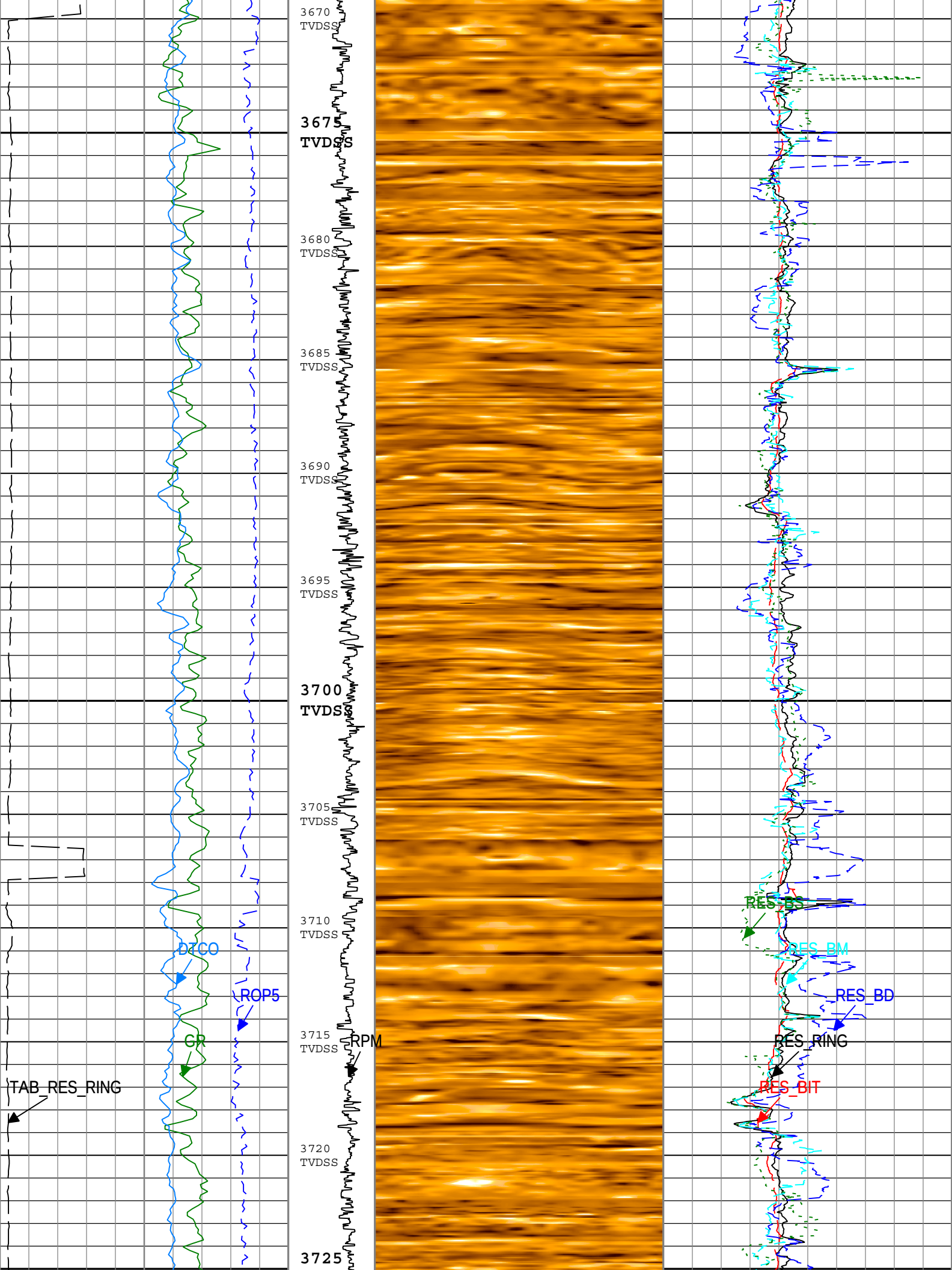
DTCO
ROP5
GR
TAB_RES_RING
RPM
RES_BS
RES_BM
RES_BD
RES_RING
RES_BIT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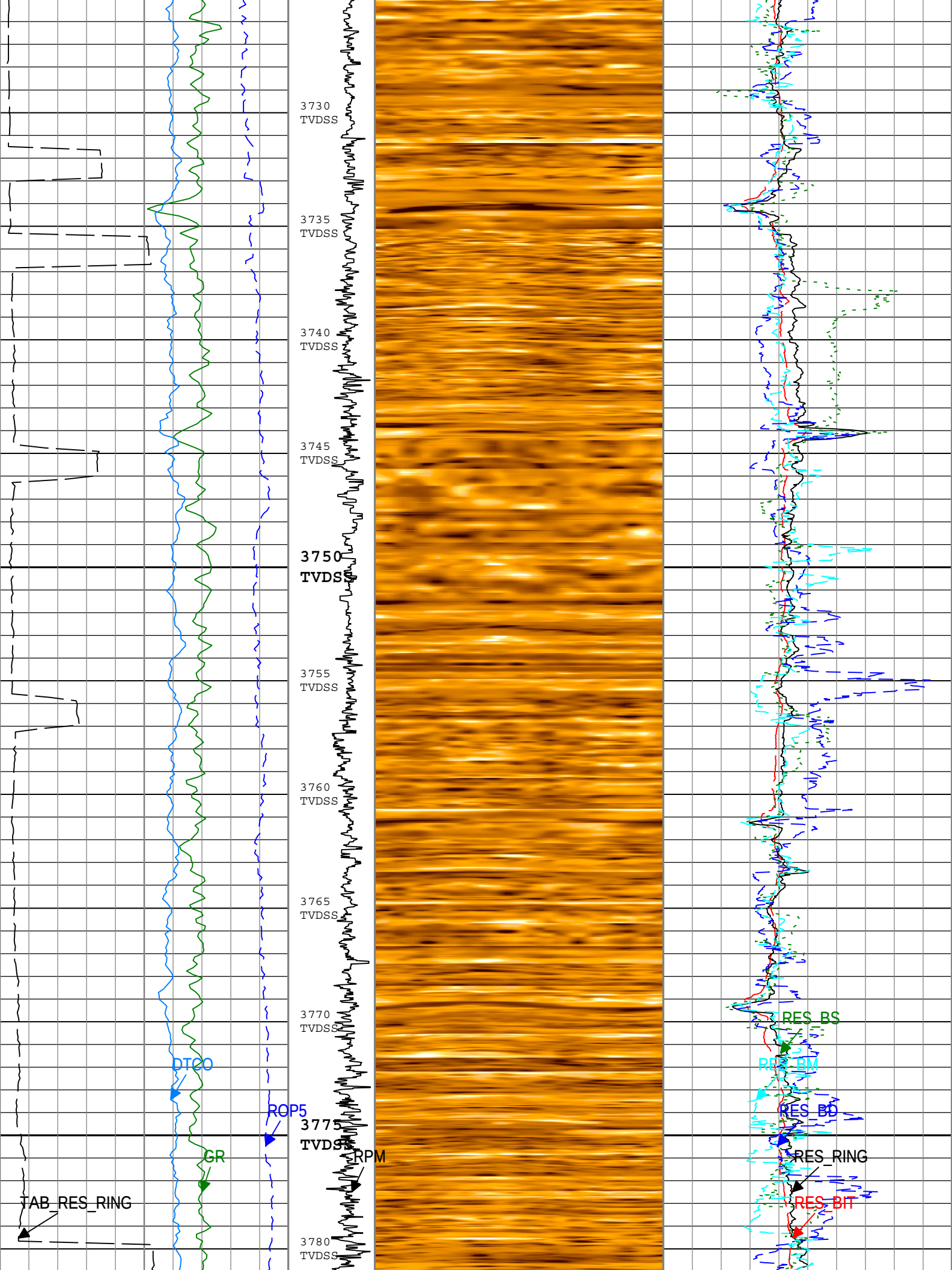
RPM
TAB_RES_RING
RES_BS
RES_BM
RES_BD
RES_RING
RES_BIT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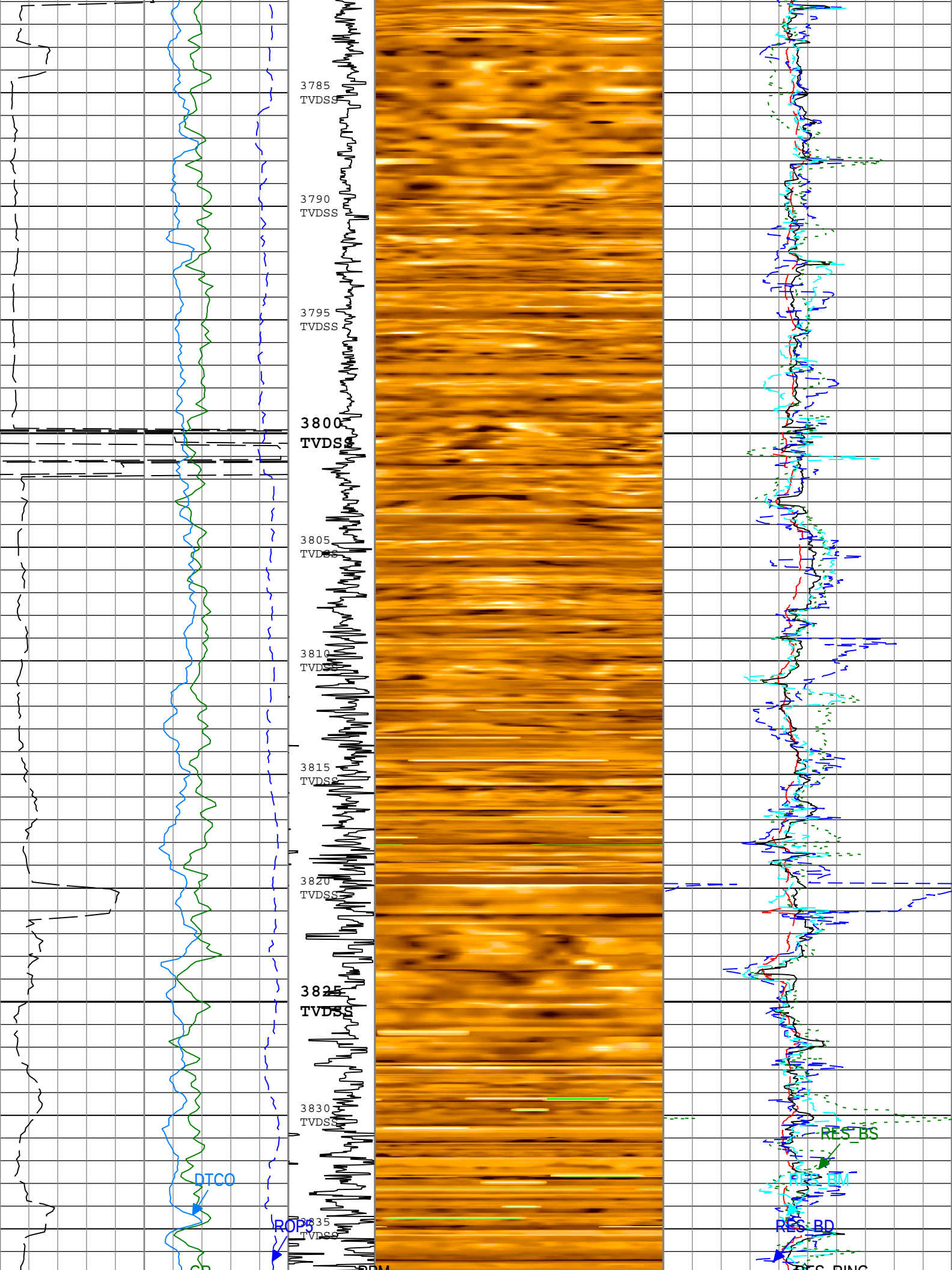
RES_BIT


3785
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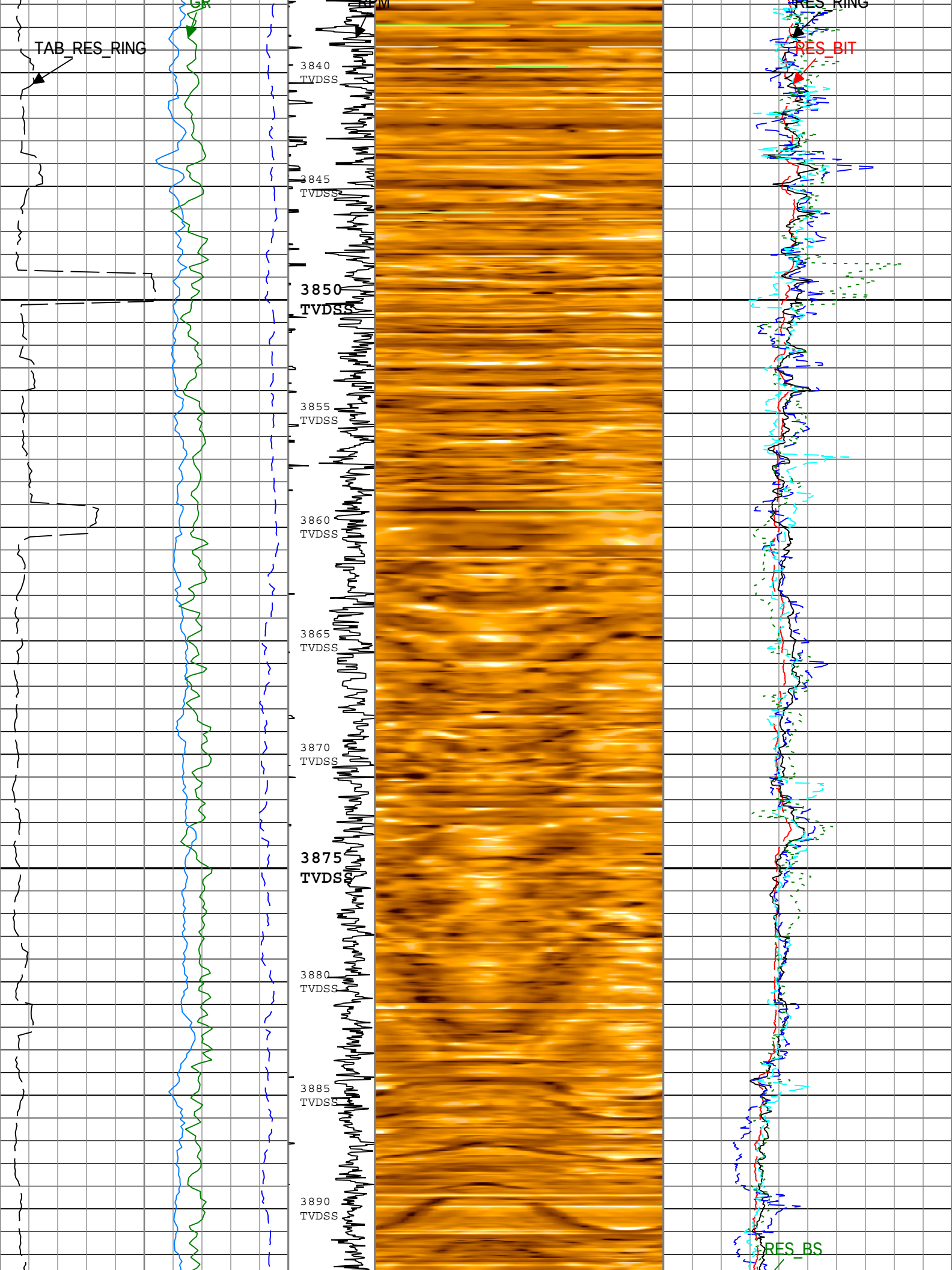
DTCO
ROP5
RES_BS
RES_BM
RES_BD


TAB_RES_RING
GR
RPM
RES_RING
RES_BIT
RES_BS
3840 TVDSS
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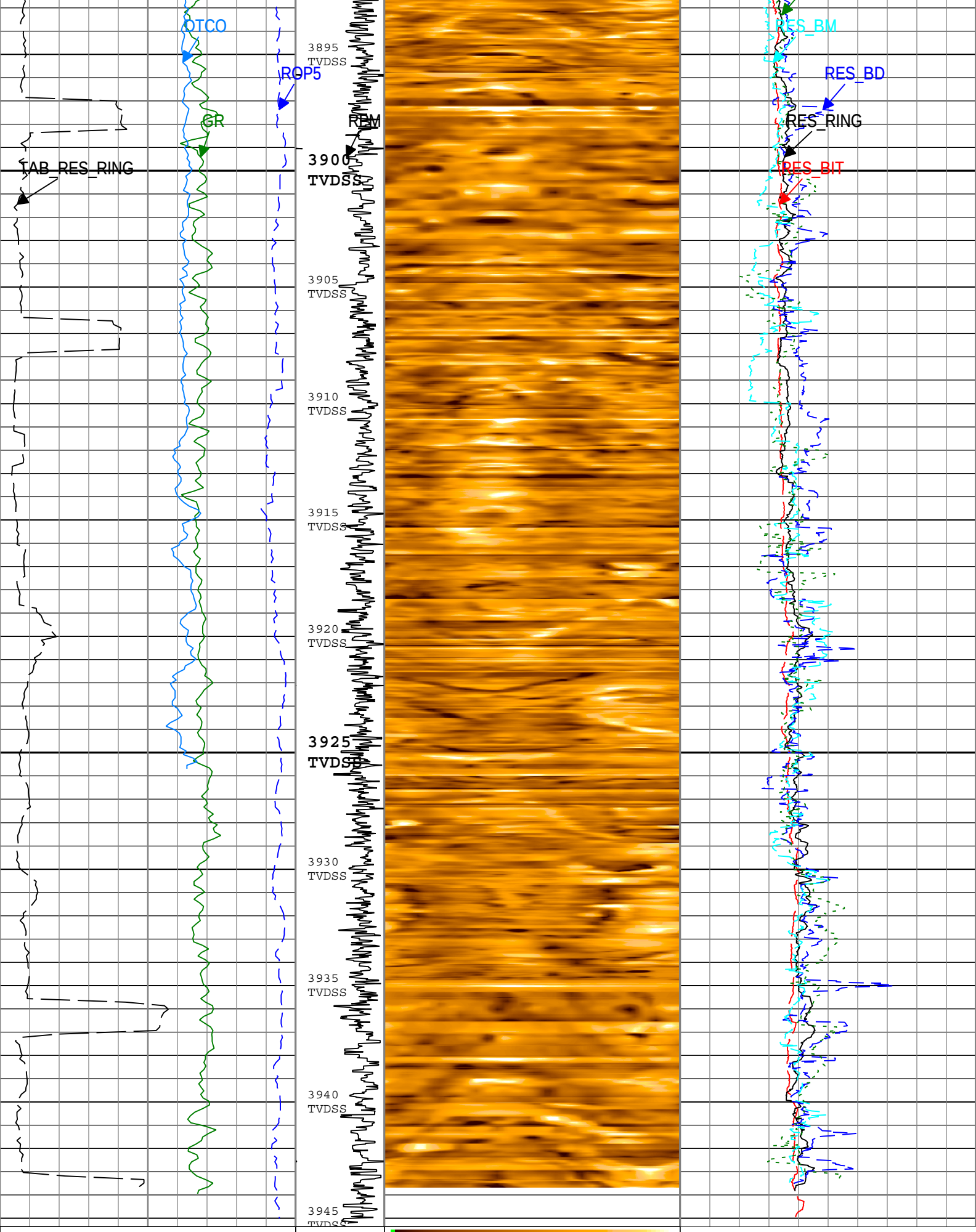
3890 TVDSS



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

0 h 3

Rotational Speed (RPM) RAB[1] RM

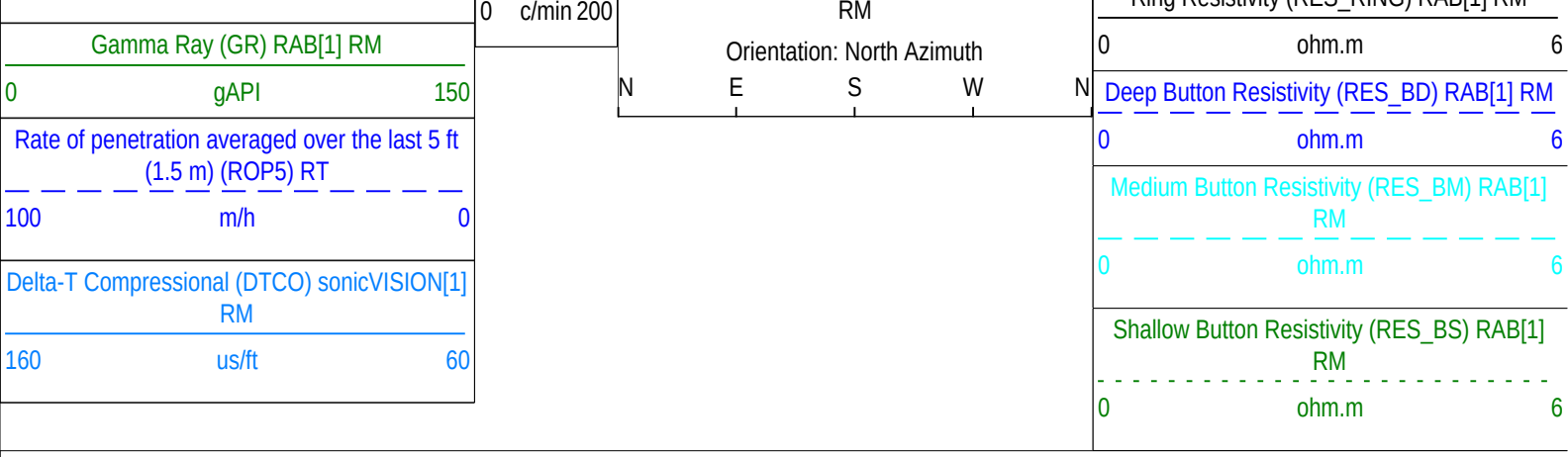
Dynamic Gaussian Normalization

RAB - Deep Button Resistivity Image RAB[1]

Bit Resistivity (RES_BIT) RAB[1] RM

0 ohm.m 6

Ring Resistivity (RES_RING) RAB[1] RM



Description: GVR Resistivity, Deep Button Image Format: Log (Sonic-GVR Image-APWD Depth RM NoTick) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 16:45:01

Channel Processing Parameters

Run001: Parameters

Parameter	Description	Tool	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	2.18	%
BHT	Bottom Hole Temperature	Borehole	33	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	70	us/ft
COUL	Label Slowness Upper Limit - Monopole P&S Compressional	SONICVISION8	120	us/ft
DDEL	Digitizing Delay	SONICVISION8	300	us
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	1.1	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	9.84	degC/km
GRSE_RM	Generalized Mud Resistivity Selection for Recorded Mode	Borehole	REMS	
GTSE_RT	Generalized Temperature Selection for Realtime Mode	Borehole	GTEM_GRDSURF(RT)	
ITT_OFFSET	Integrated Transit Time Offset	SONICVISION8	0	ms
MST	Mud Sample Temperature	Borehole	22	degC
NWED	Noise Window End	SONICVISION8	2000	us
RES_BD_IMG_SEL	GVR Output Resistivity Image Selection, Deep Button	RAB8	Compensated Uphole	
RMS	Resistivity of Mud Sample	Borehole	0.1	ohm.m
SBIN	Search Band Inset	SONICVISION8	200	
SBWD	Search Band Width	SONICVISION8	1400	
SHLL	Label Slowness Lower Limit - Monopole P&S Shear	SONICVISION8	75	us/ft
SHT	Surface Hole Temperature	Borehole	11.7	degC
SHUL	Label Slowness Upper Limit - Monopole P&S Shear	SONICVISION8	240	us/ft
SIGE	Waveform Signal End Time	SONICVISION8	1700	us
SIGM	Waveform Signal Move Out	SONICVISION8	100	us/ft
SIGST	Waveform Signal Start Time	SONICVISION8	1200	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	3974	m
TEMP_SEL_RAB	RAB Temperature Selection	RAB8	Tool	

Tool Control Parameters

Run001: Parameters

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

Run001Time Zoned Parameters

Pass Drilling

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
OFFBTM_TH	0.5	03-Nov-2012 03:03:09	03-Nov-2012 13:40:49	2814.62	2943.3
OFFBTM_TH	0.3	03-Nov-2012 13:40:49	05-Nov-2012 08:09:44	2943.3	3364.38
OFFBTM_TH	0.2	05-Nov-2012 08:09:44	05-Nov-2012 08:51:21	3364.38	3369.21
OFFBTM_TH	0.35	05-Nov-2012 08:51:21	06-Nov-2012 22:42:48	3369.21	3489.65
OFFBTM_TH	0.4	06-Nov-2012 22:42:48	07-Nov-2012 04:16:51	3489.65	3523.74
OFFBTM_TH	0.5	07-Nov-2012 04:16:51	08-Nov-2012 03:35:35	3523.74	3570.73
OFFBTM_TH	0.5	08-Nov-2012 03:35:35	09-Nov-2012 22:33:15	3570.73	3818.03
OFFBTM_TH	0.6	09-Nov-2012 22:33:15	12-Nov-2012 10:34:01	3818.03	3945.33

All depth are at tool zero.

Run001

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
Run001	Ream Up 1	Up	3423.21 m	3463.75 m	05-Nov-2012 2:36:08 PM	05-Nov-2012 4:02:47 PM	

All depths are referenced to toolstring zero

Log

Run001: Ream Up 1

Description: GVR Resistivity, Deep Button Image Format: Log (GVR Image-APWD Depth RM NoTick) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 16:45:20

Bit Resistivity (RES_BIT) RAB8 RM
0 ohm.m 6

Ring Resistivity (RES_RING) RAB8 RM
0 ohm.m 6

Deep Button Resistivity (RES_BD) RAB8 RM
0 ohm.m 6

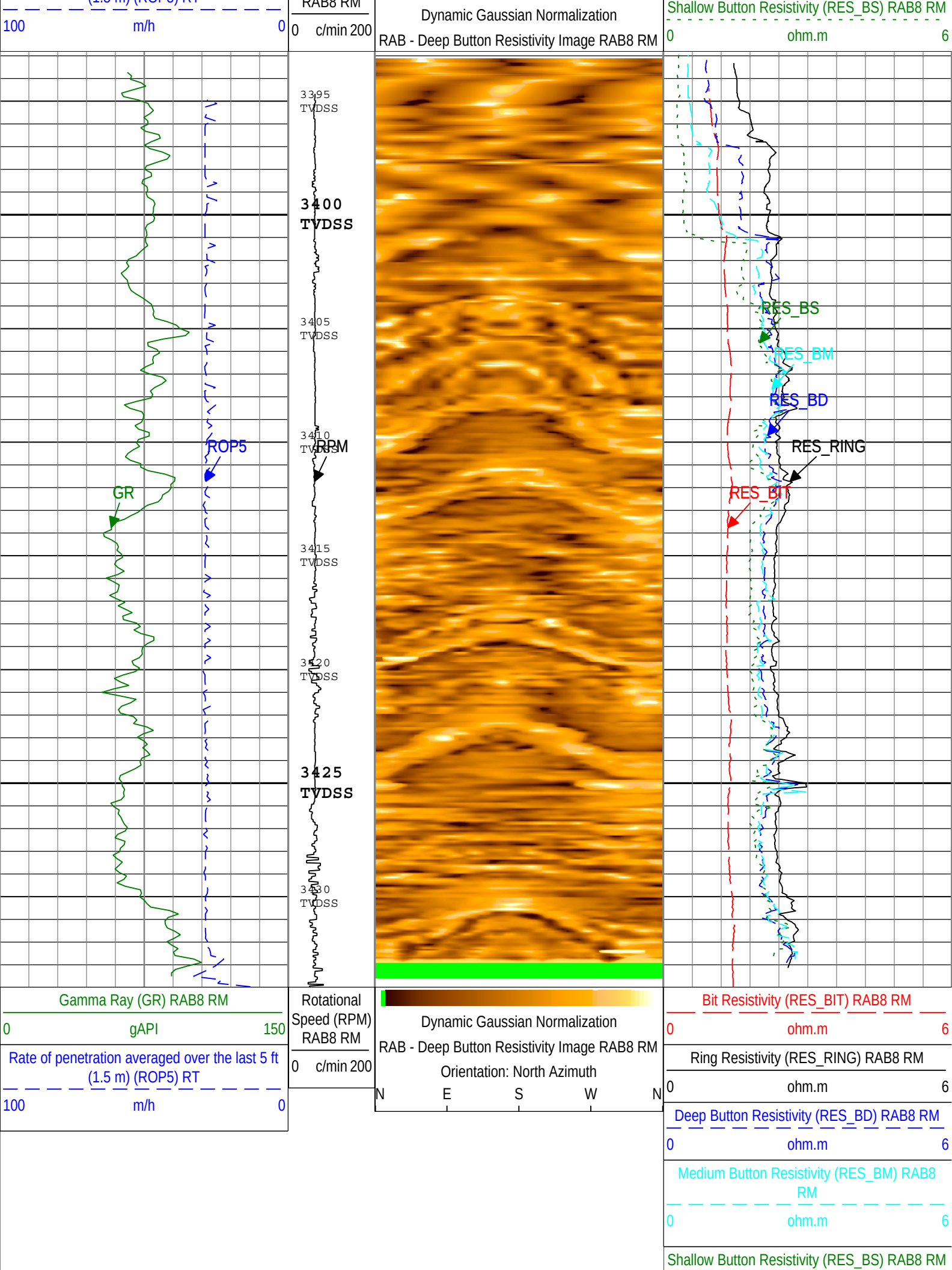
Medium Button Resistivity (RES_BM) RAB8 RM
0 ohm.m 6

Gamma Ray (GR) RAB8 RM
0 gAPI 150

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

Rotational Speed (RPM) RAB8 RM

N E S W N
Orientation: North Azimuth


(1.5 m) (ROP5) RT
100 m/h 0
RAB8 RM
0 c/min 200
Dynamic Gaussian Normalization
RAB - Deep Button Resistivity Image RAB8 RM
Shallow Button Resistivity (RES_BS) RAB8 RM
0 ohm.m 6
3395 TVDSS
3400 TVDSS
3405 TVDSS
3410 TVDSS
3415 TVDSS
3420 TVDSS
3425 TVDSS
3430 TVDSS
ROP5
GR
RPM
RES_BS
RES_BM
RES_BD
RES_RING
RES_BIT
Gamma Ray (GR) RAB8 RM
0 gAPI 150
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT
100 m/h 0
Rotational Speed (RPM) RAB8 RM
0 c/min 200
Dynamic Gaussian Normalization
RAB - Deep Button Resistivity Image RAB8 RM
Orientation: North Azimuth
N E S W N
Bit Resistivity (RES_BIT) RAB8 RM
0 ohm.m 6
Ring Resistivity (RES_RING) RAB8 RM
0 ohm.m 6
Deep Button Resistivity (RES_BD) RAB8 RM
0 ohm.m 6
Medium Button Resistivity (RES_BM) RAB8 RM
0 ohm.m 6
Shallow Button Resistivity (RES_BS) RAB8 RM

0 ohm.m 6

Description: GVR Resistivity, Deep Button Image Format: Log (GVR Image-APWD Depth RM NoTick) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 16:45:20

Run001

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
Run001	Ream Down 2	Down	3471.62 m	3506.19 m	05-Nov-2012 8:26:18 PM	05-Nov-2012 9:40:55 PM	

All depths are referenced to toolstring zero

Log

Run001: Ream Down 2

Description: GVR Resistivity, Deep Button Image Format: Log (GVR Image-APWD Depth RM NoTick) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 16:45:22

Bit Resistivity (RES_BIT) RAB8 RM
0 ohm.m 6

Ring Resistivity (RES_RING) RAB8 RM
0 ohm.m 6

Deep Button Resistivity (RES_BD) RAB8 RM
0 ohm.m 6

Medium Button Resistivity (RES_BM) RAB8 RM
0 ohm.m 6

Shallow Button Resistivity (RES_BS) RAB8 RM
0 ohm.m 6

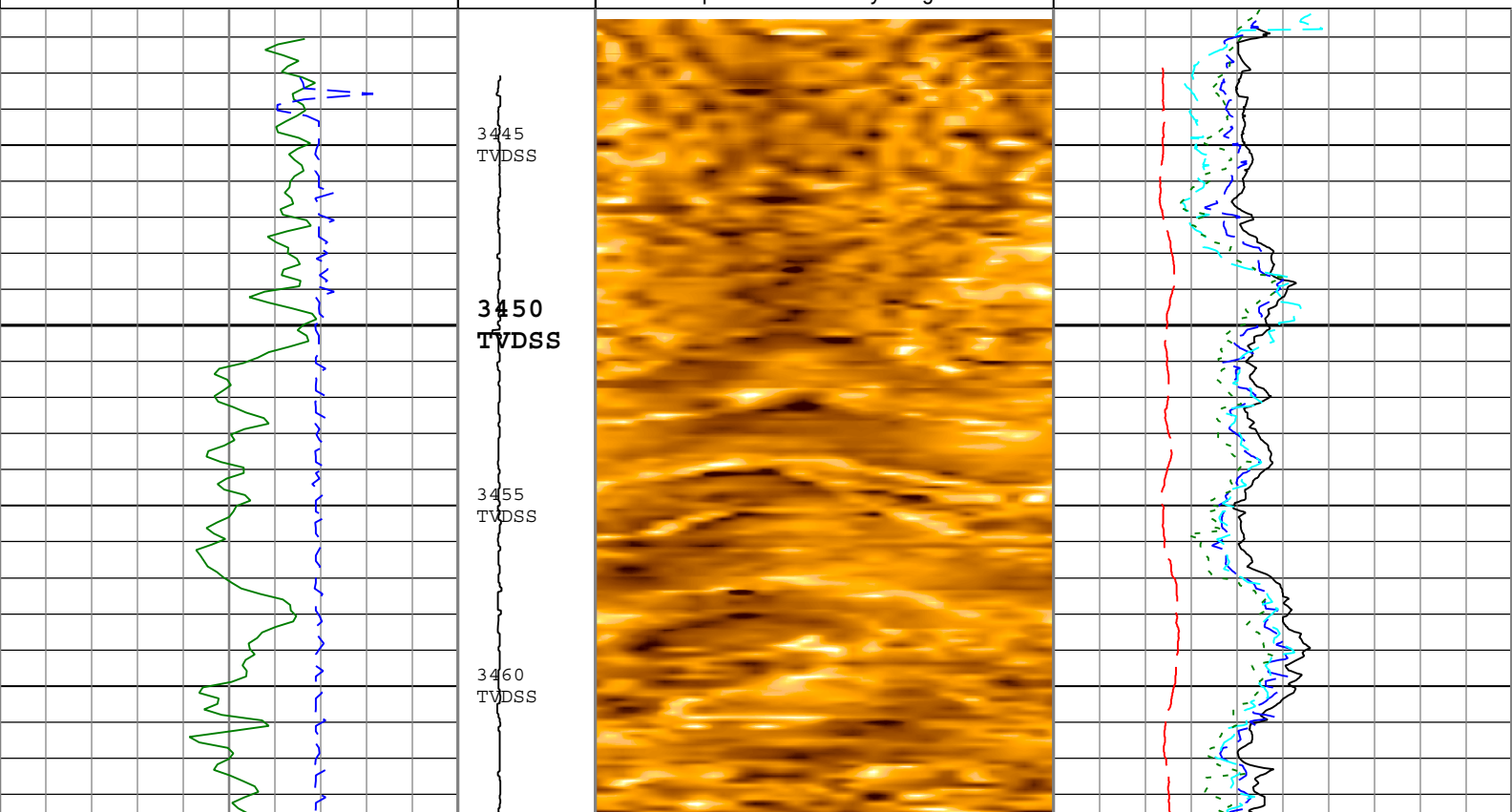
Gamma Ray (GR) RAB8 RM
0 gAPI 150

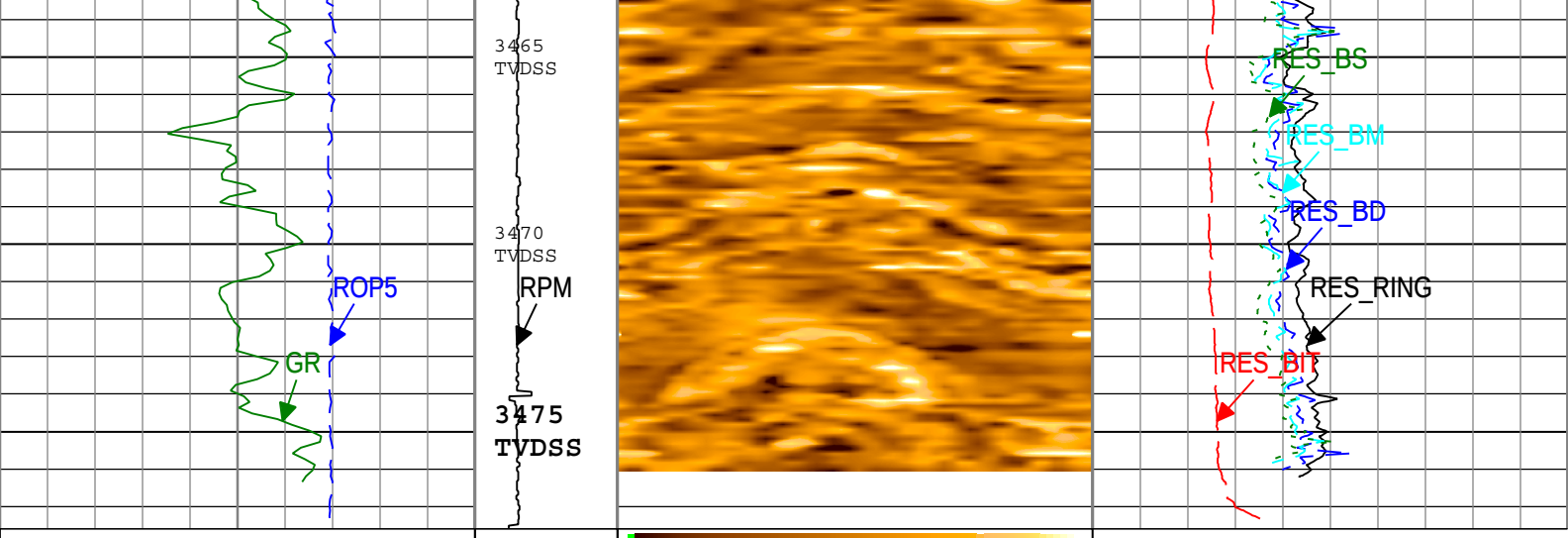
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT
100 m/h 0

Rotational Speed (RPM) RAB8 RM
0 c/min 200

N E S W N
Orientation: North Azimuth

Dynamic Gaussian Normalization
RAB - Deep Button Resistivity Image RAB8 RM





Gamma Ray (GR) RAB8 RM
0 gAPI 150

Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT
100 m/h 0

Rotational Speed (RPM) RAB8 RM
0 c/min 200

Dynamic Gaussian Normalization
RAB - Deep Button Resistivity Image RAB8 RM
Orientation: North Azimuth
N E S W N

Bit Resistivity (RES_BIT) RAB8 RM
0 ohm.m 6

Ring Resistivity (RES_RING) RAB8 RM
0 ohm.m 6

Deep Button Resistivity (RES_BD) RAB8 RM
0 ohm.m 6

Medium Button Resistivity (RES_BM) RAB8 RM
0 ohm.m 6

Shallow Button Resistivity (RES_BS) RAB8 RM
0 ohm.m 6

Description: GVR Resistivity, Deep Button Image Format: Log (GVR Image-APWD Depth RM NoTick) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 16:45:22

Run001

Integration Summary

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

Pass Summary

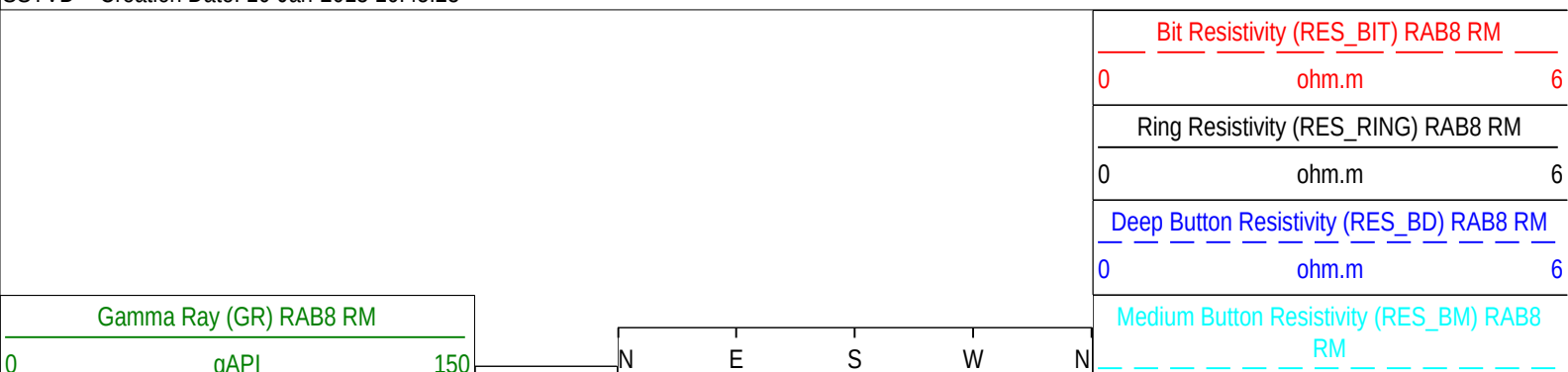
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run001	Ream Down 3	Down	3548.53 m	3582.97 m	08-Nov-2012 1:24:02 AM	08-Nov-2012 2:28:05 AM	

All depths are referenced to toolstring zero

Log

Run001: Ream Down 3

Description: GVR Resistivity, Deep Button Image Format: Log (GVR Image-APWD Depth RM NoTick) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 16:45:23



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

100 m/h 0

Rotational Speed (RPM) RAB8 RM

0 c/min 200

Orientation: North Azimuth

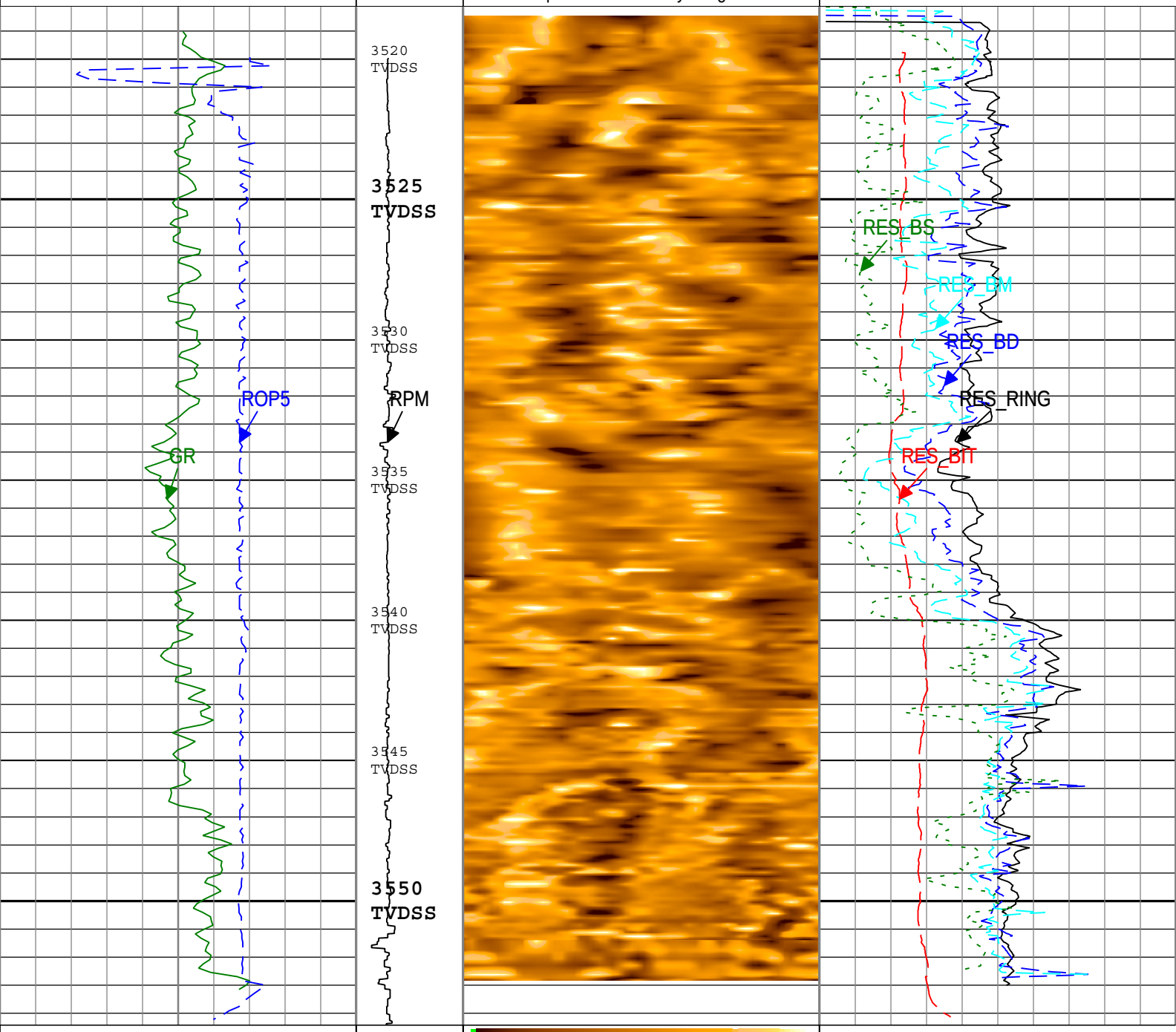
Dynamic Gaussian Normalization

RAB - Deep Button Resistivity Image RAB8 RM

0 ohm.m 6

Shallow Button Resistivity (RES_BS) RAB8 RM

0 ohm.m 6



Gamma Ray (GR) RAB8 RM

0 gAPI 150

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

100 m/h 0

Rotational Speed (RPM) RAB8 RM

0 c/min 200

Dynamic Gaussian Normalization

RAB - Deep Button Resistivity Image RAB8 RM

Orientation: North Azimuth

N E S W N

Bit Resistivity (RES_BIT) RAB8 RM

0 ohm.m 6

Ring Resistivity (RES_RING) RAB8 RM

0 ohm.m 6

Deep Button Resistivity (RES_BD) RAB8 RM

0 ohm.m 6

Medium Button Resistivity (RES_BM) RAB8 RM

0 ohm.m 6

Shallow Button Resistivity (RES_BS) RAB8 RM

0 ohm.m 6

Description: GVR Resistivity, Deep Button Image Format: Log (GVR Image-APWD Depth RM NoTick) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10 Jan 2013 16:45:22

Run001

Integration Summary

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

Pass Summary

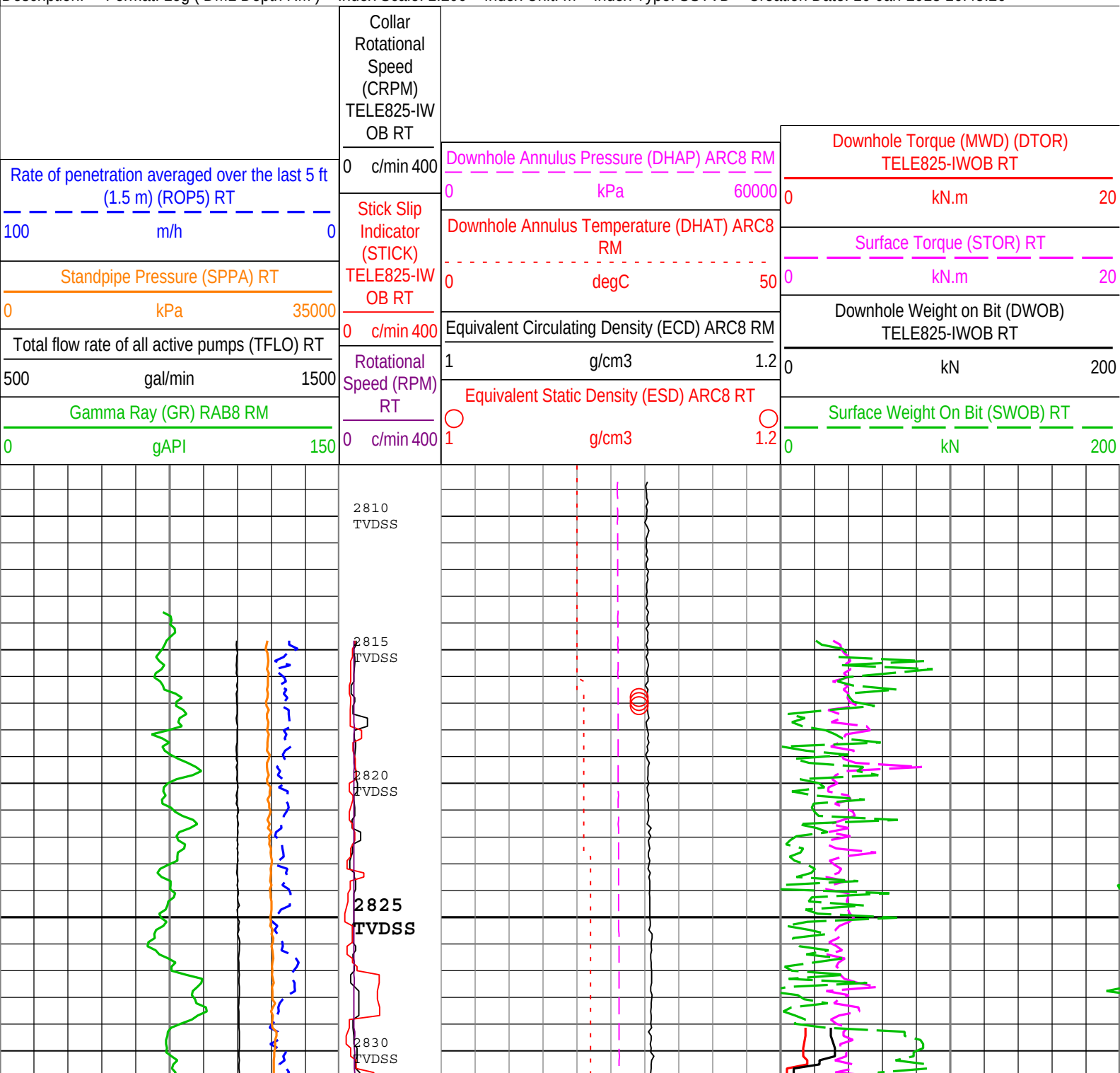
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run001	Drilling	Down	2843.12 m	3973.83 m	03-Nov-2012 3:03:09 AM	12-Nov-2012 10:34:01 AM	

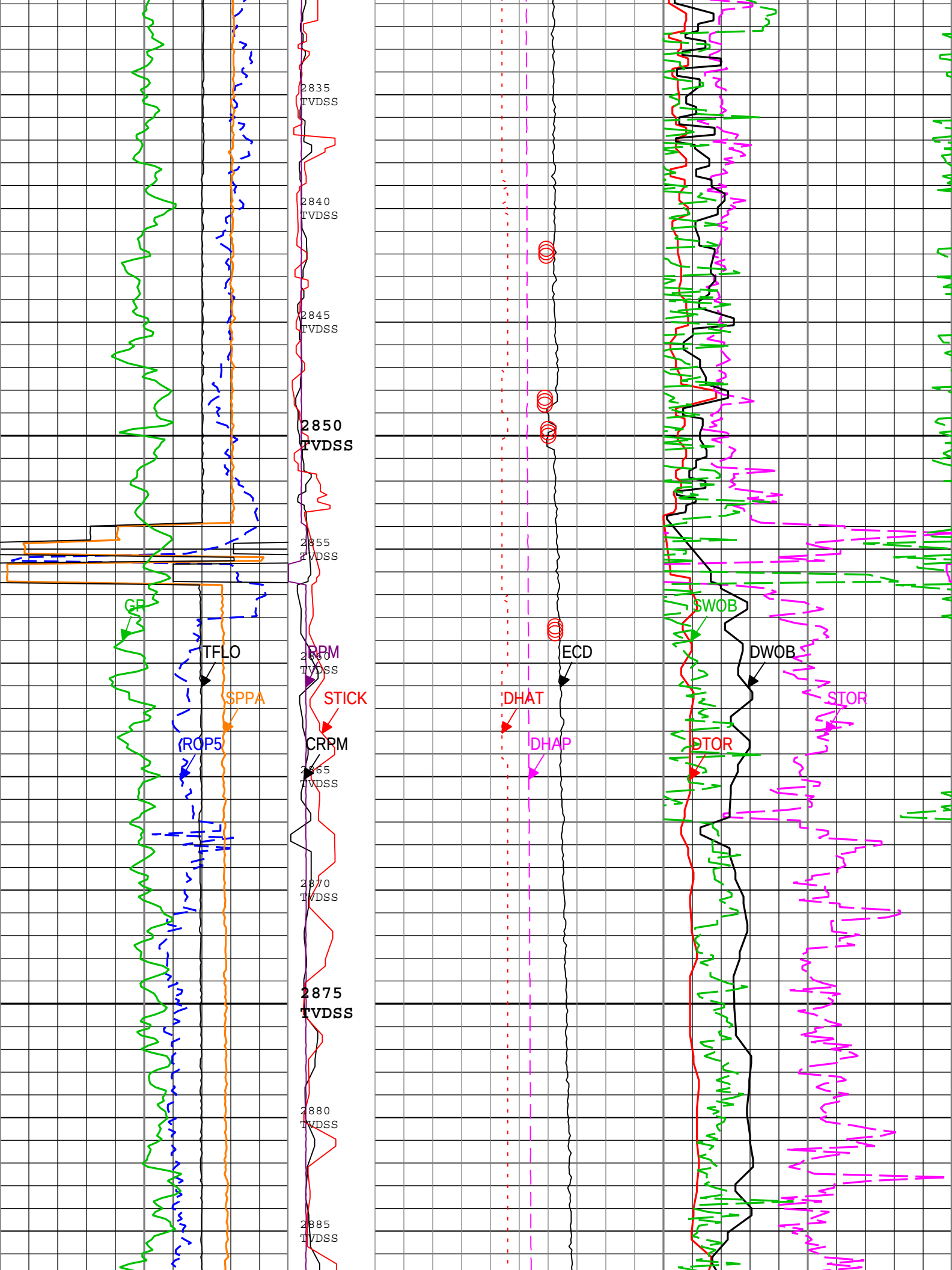
All depths are referenced to toolstring zero

Log

Run001: Drilling

Description: Format: Log (DML Depth RM) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 16:45:26




2835 TVDSS
2840 TVDSS
2845 TVDSS
2850 TVDSS
2855 TVDSS
2860 TVDSS
2865 TVDSS
2870 TVDSS
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2880 TVDSS
2885 TVDSS
GR
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ROP5
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ECD
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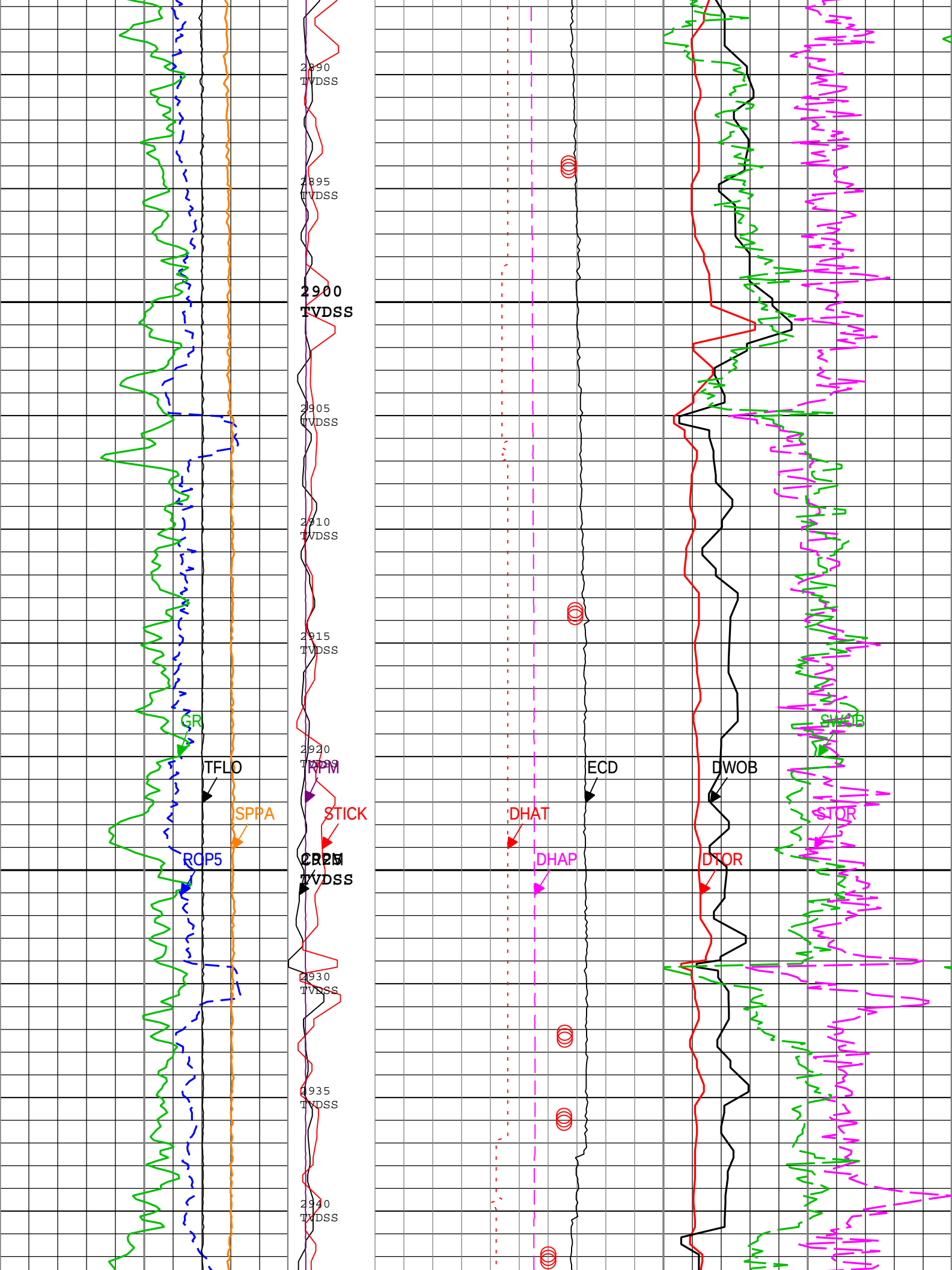
SWOB
DWOB
STOR
DTOR


2890
TVDSS
2895
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TVDSS
2925
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2930
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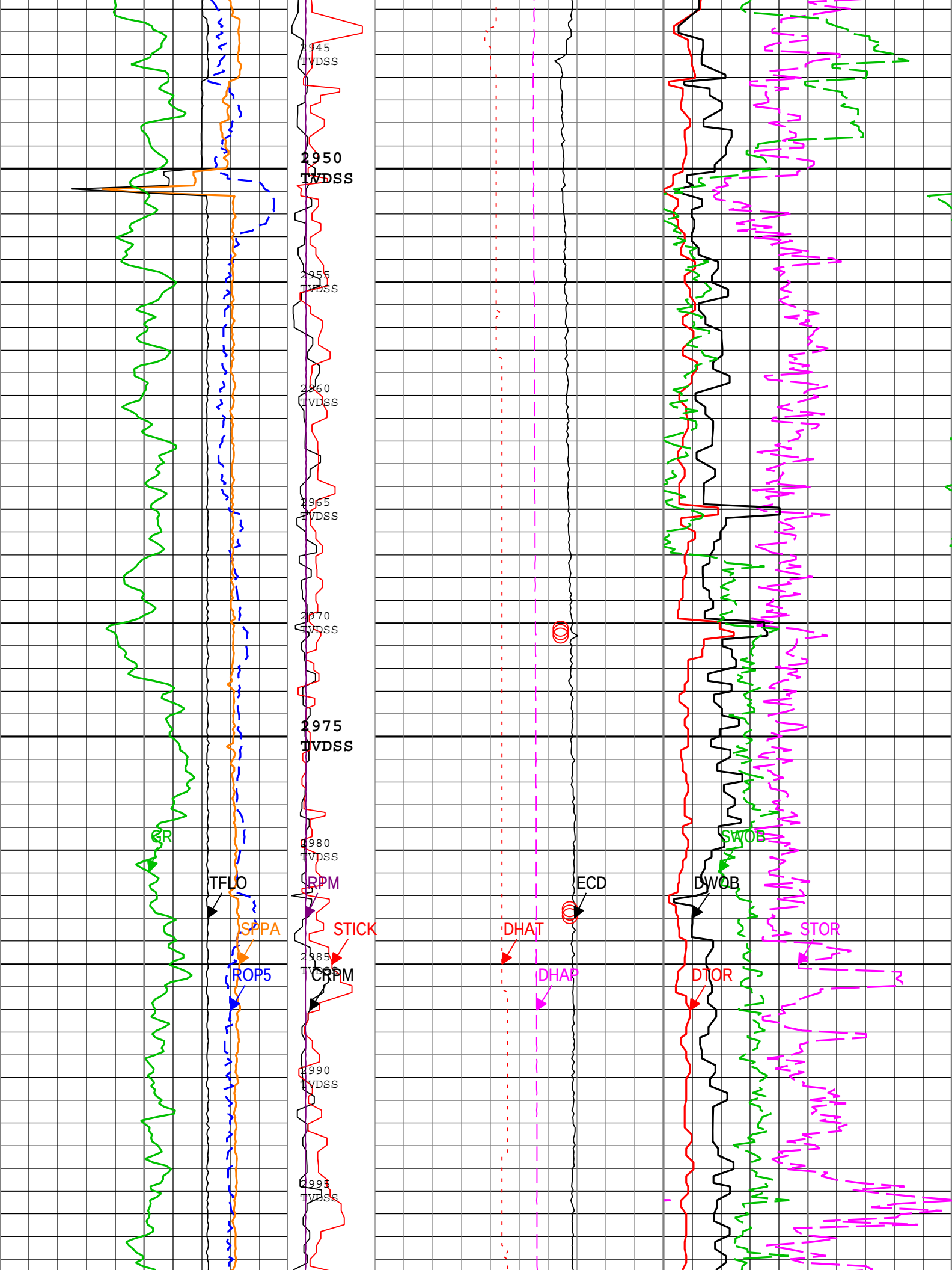
2935
TVDSS
2940
TVDSS
GR
TFLO
SPPA
ROP5
RPM
STICK
ECD
DHAT
DHAP
DWOB
DTOR
SWOB
STOR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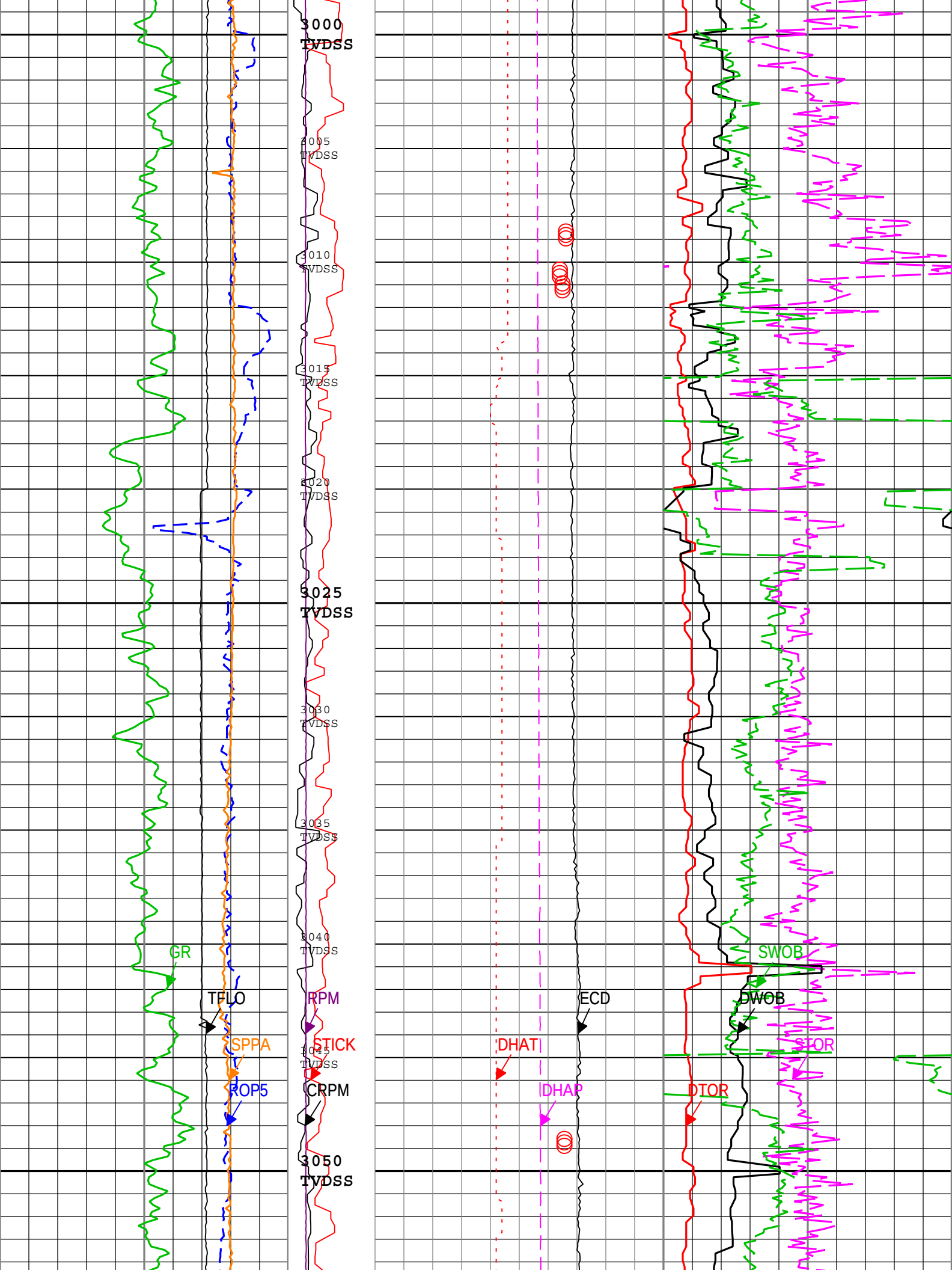
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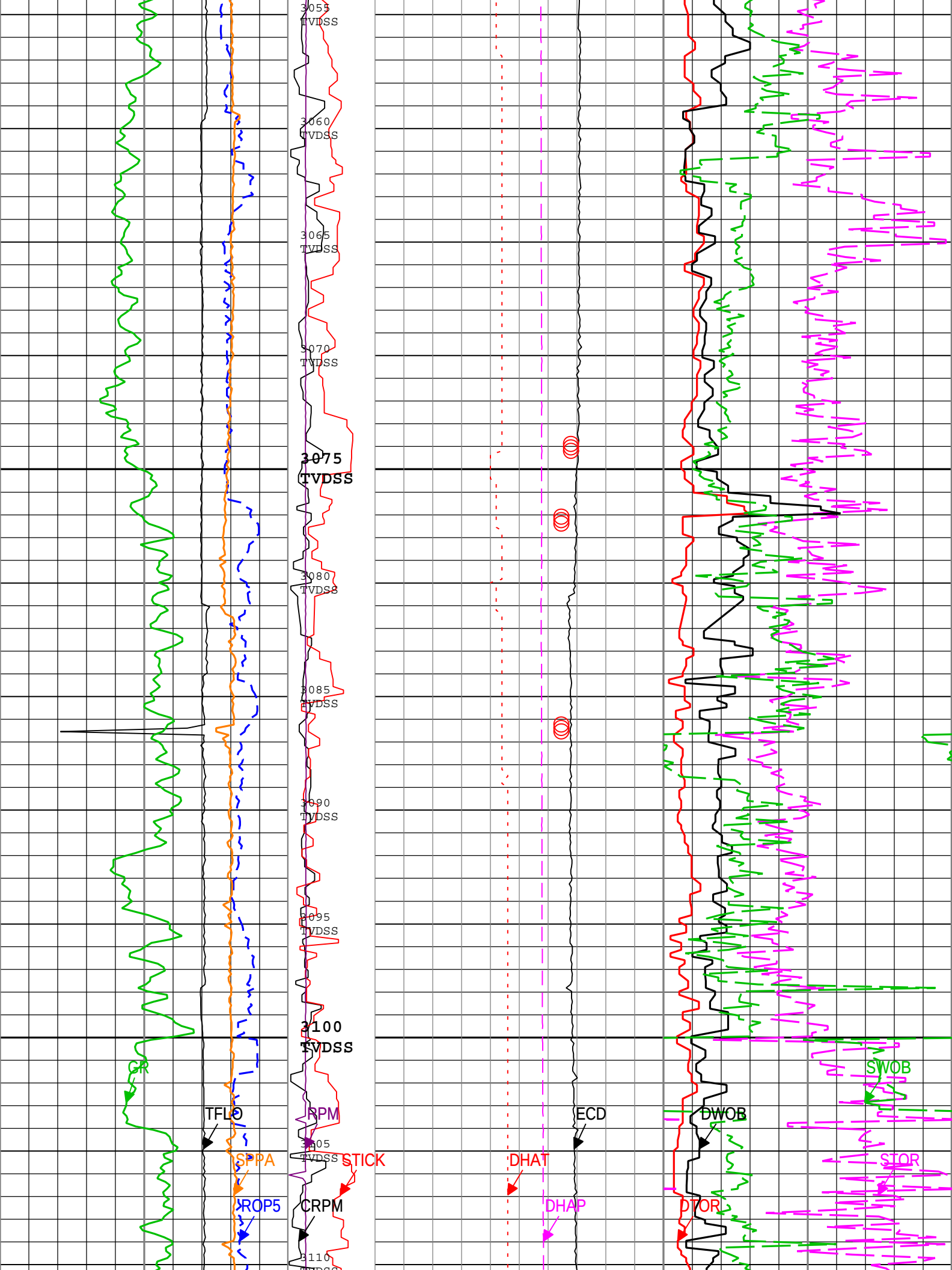
DWOB
STOR
DTOR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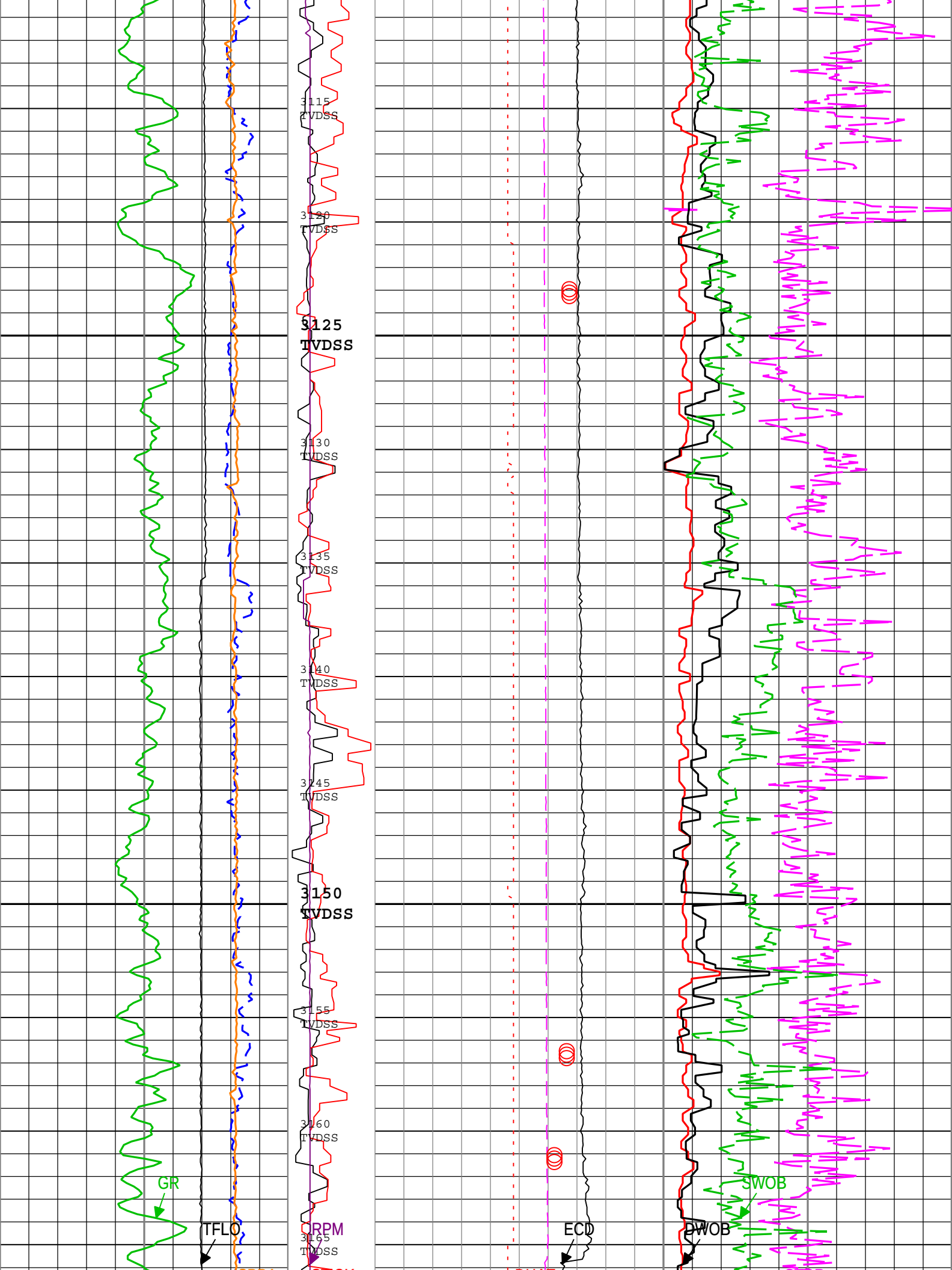
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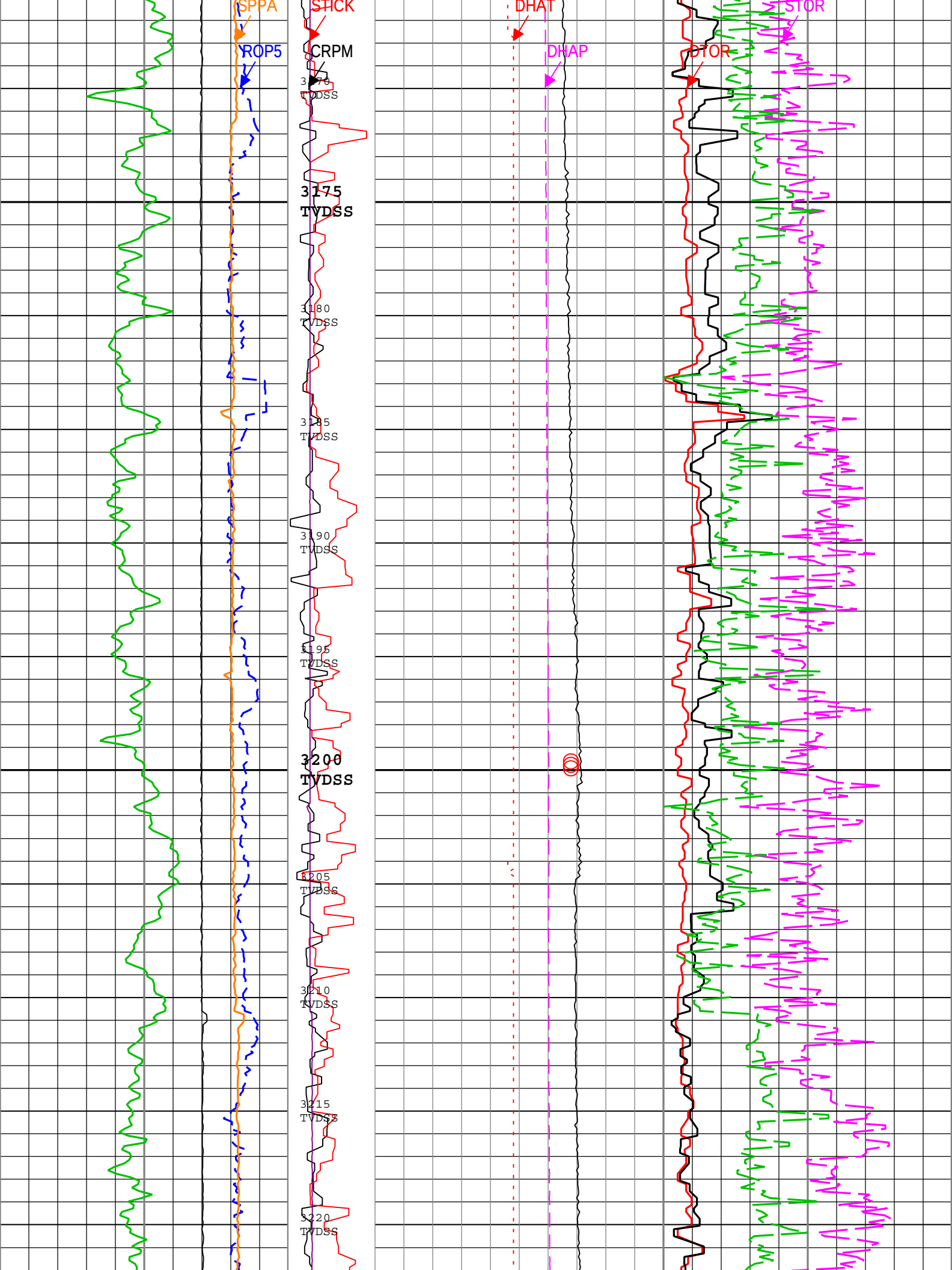
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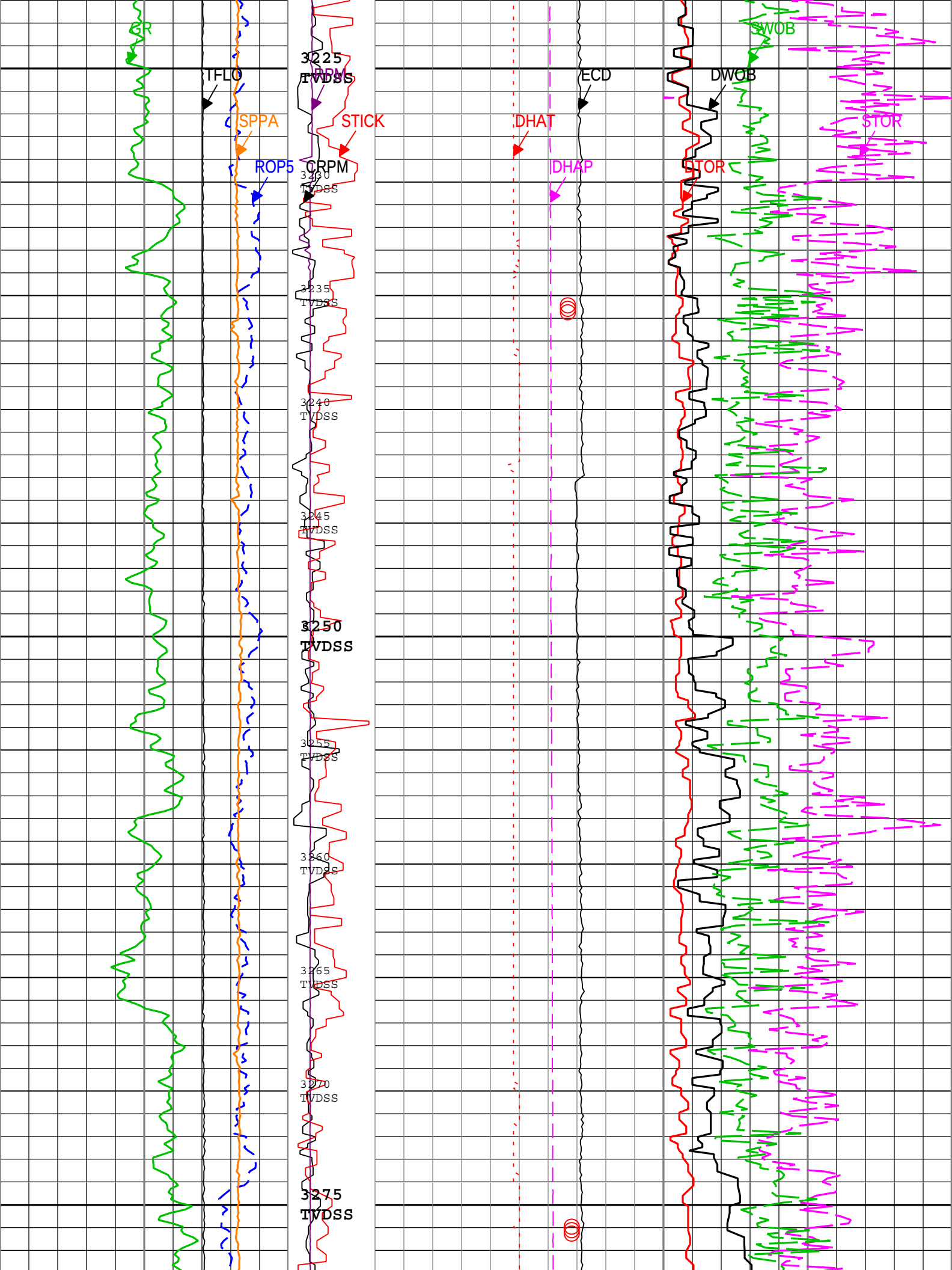
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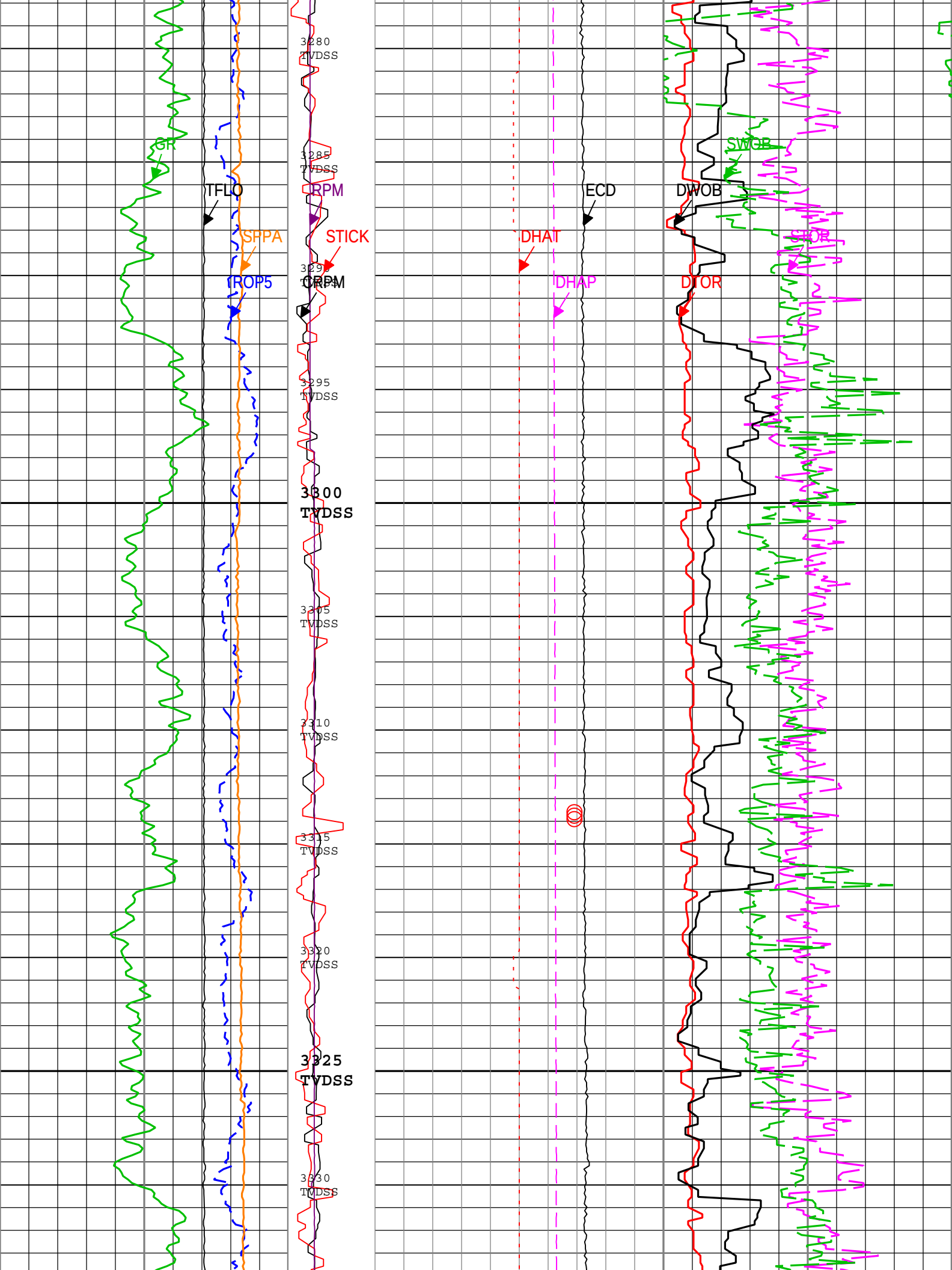
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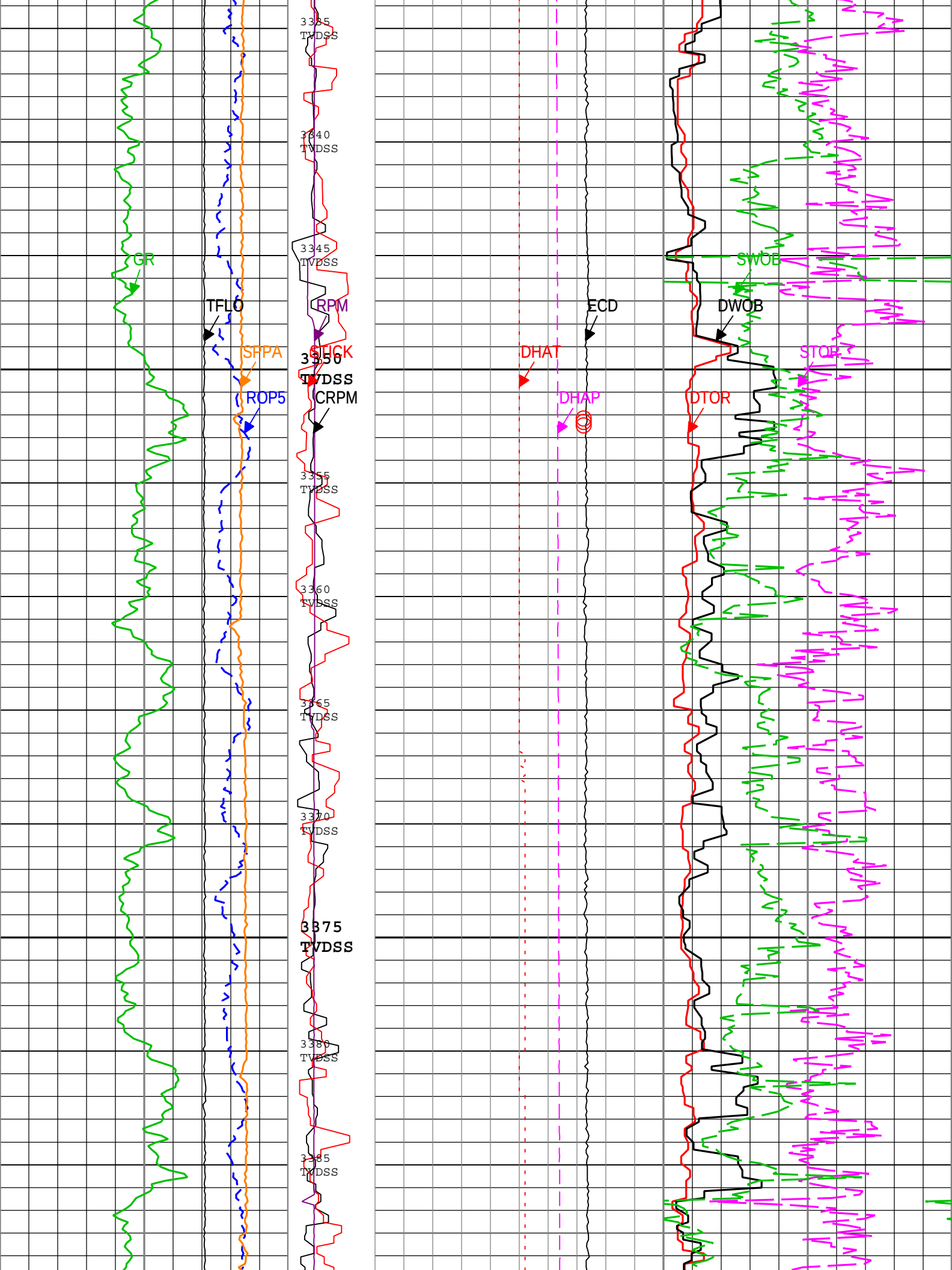
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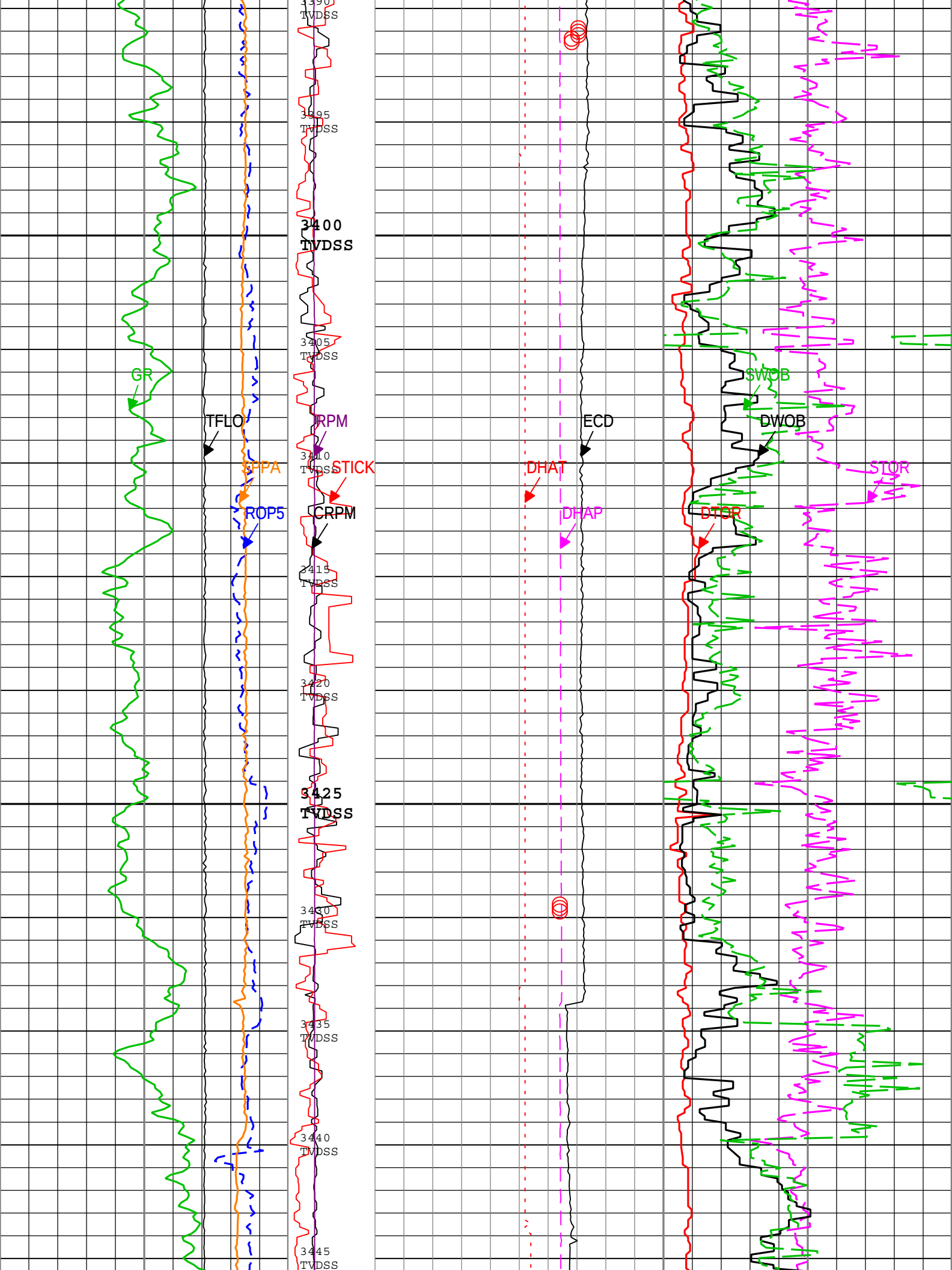
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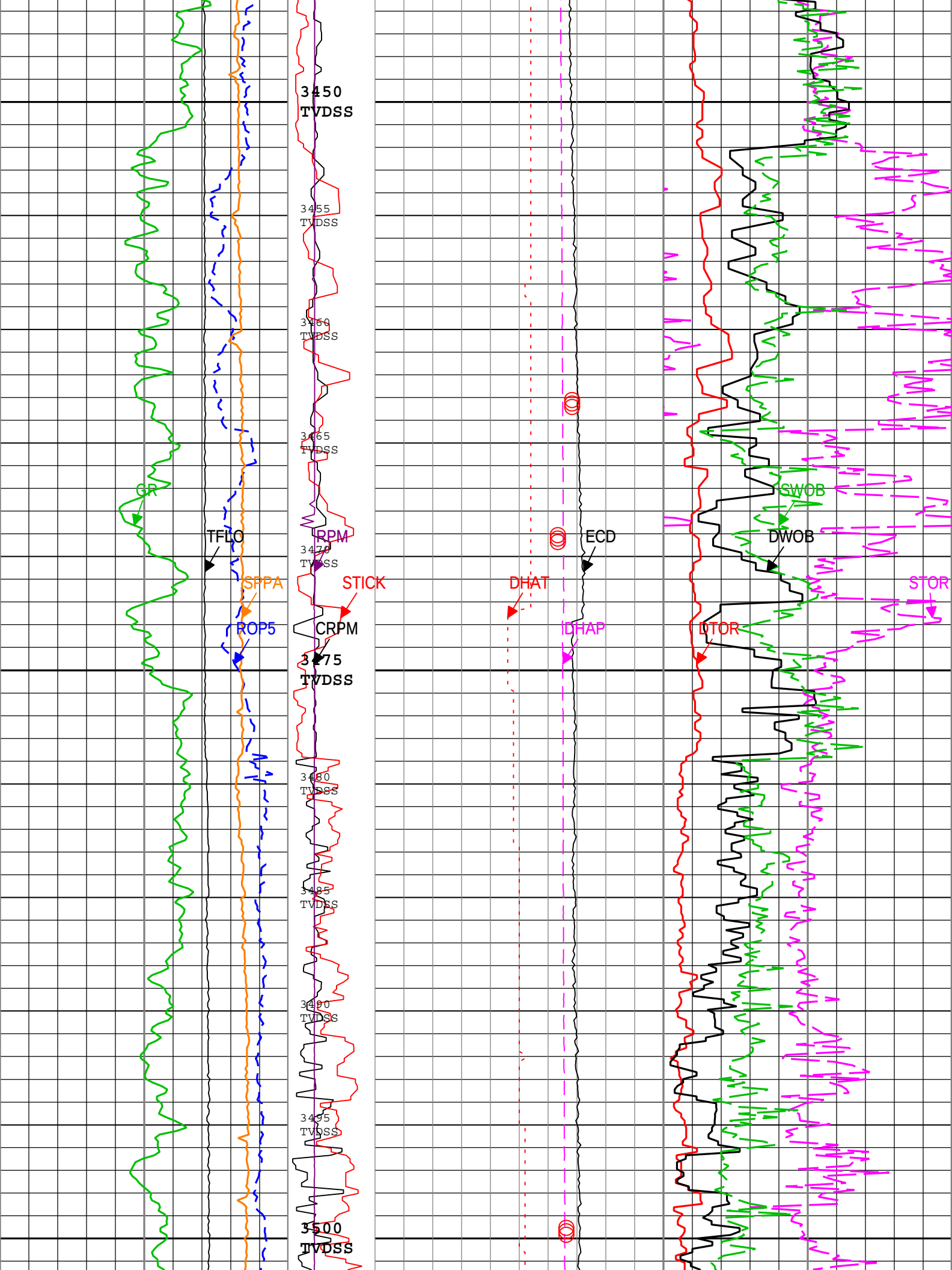
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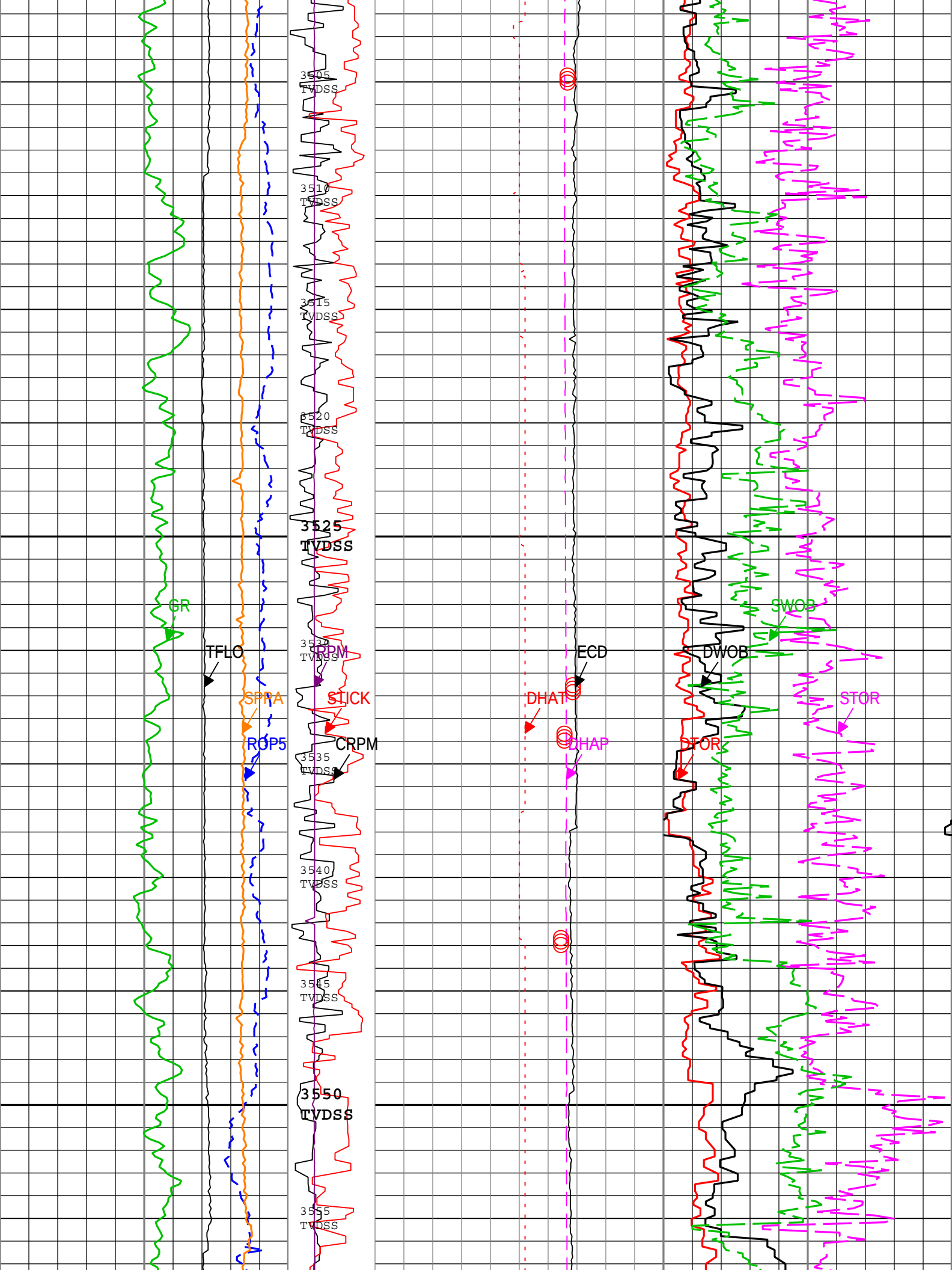
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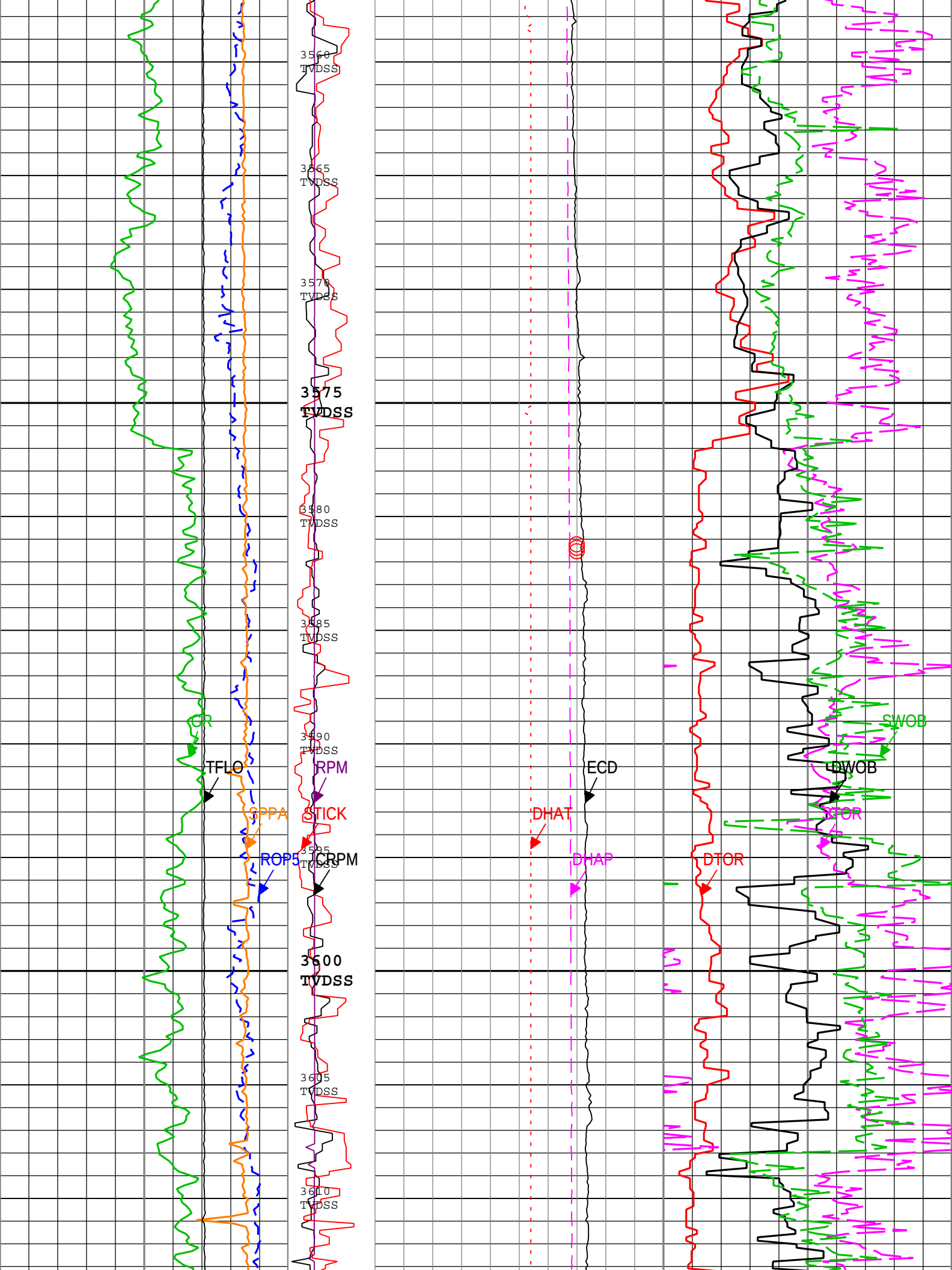
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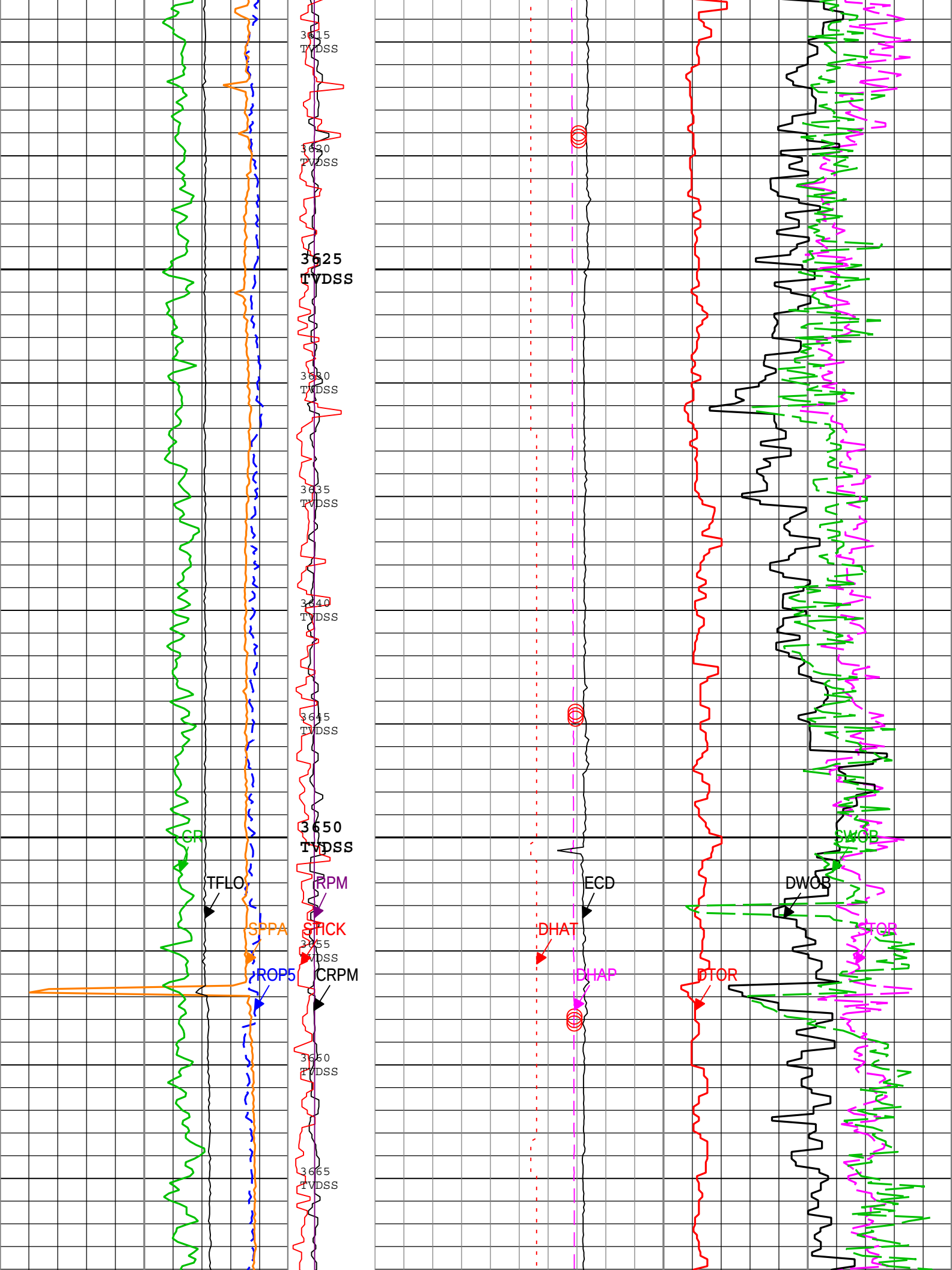
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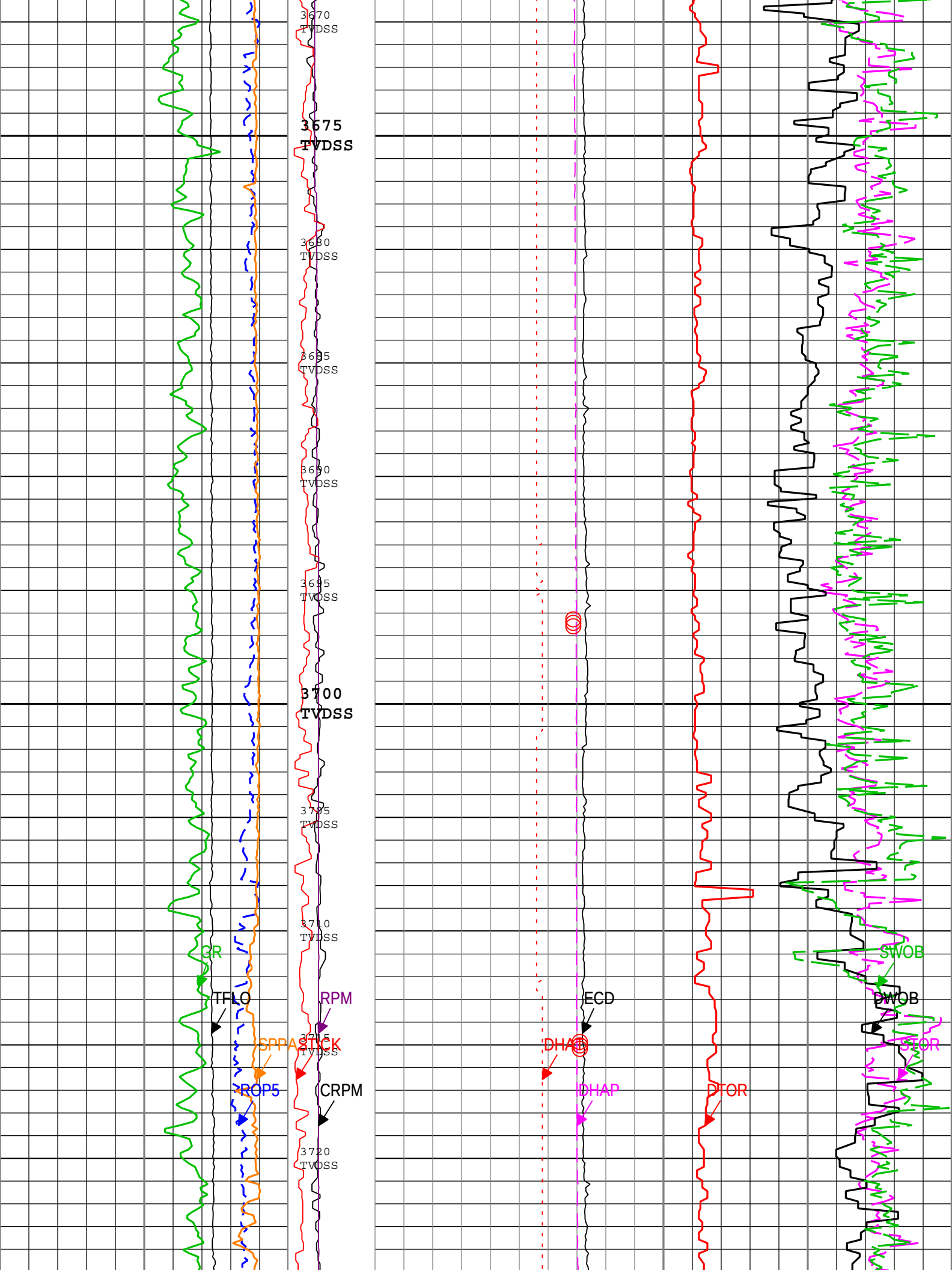
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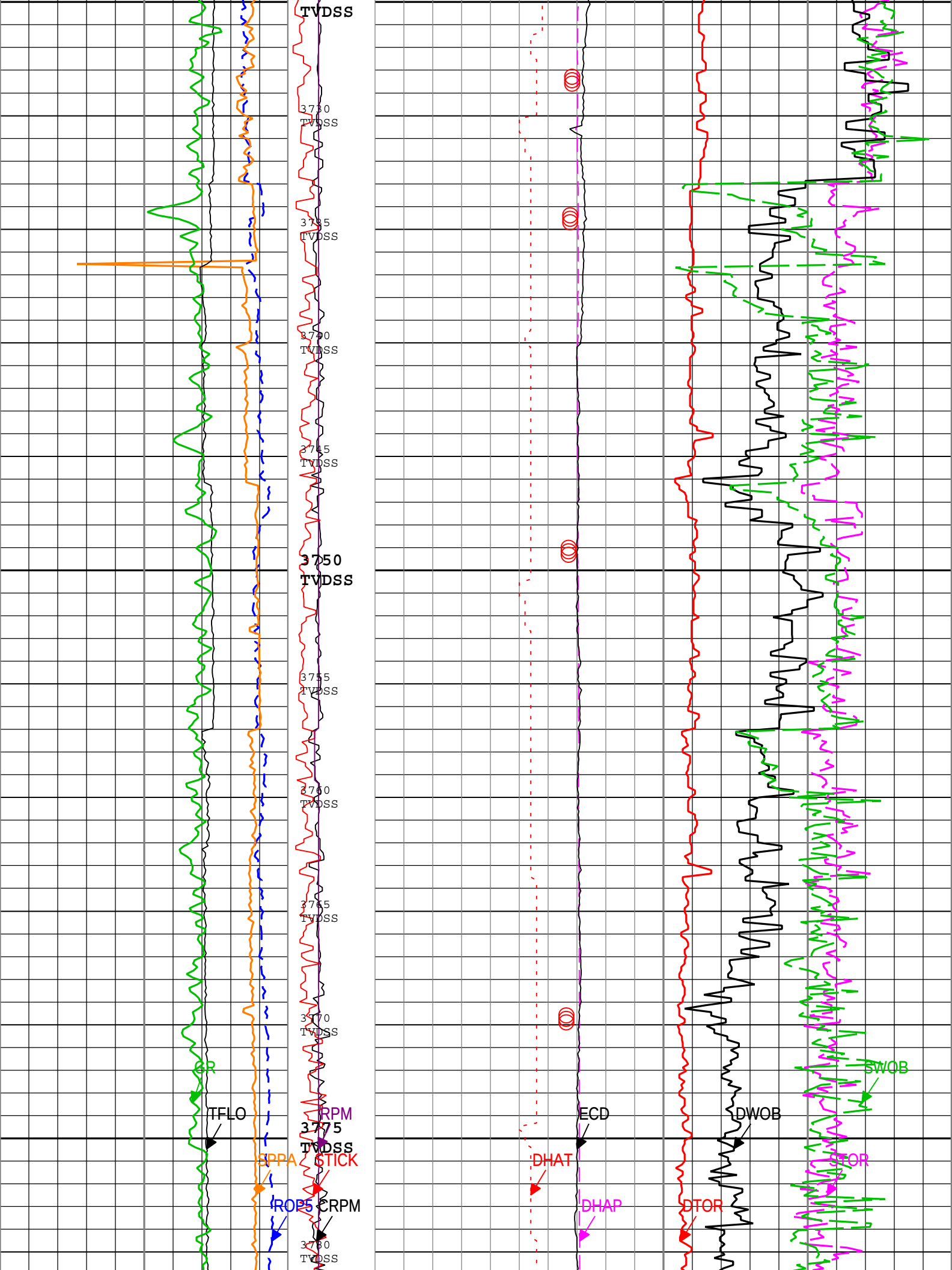
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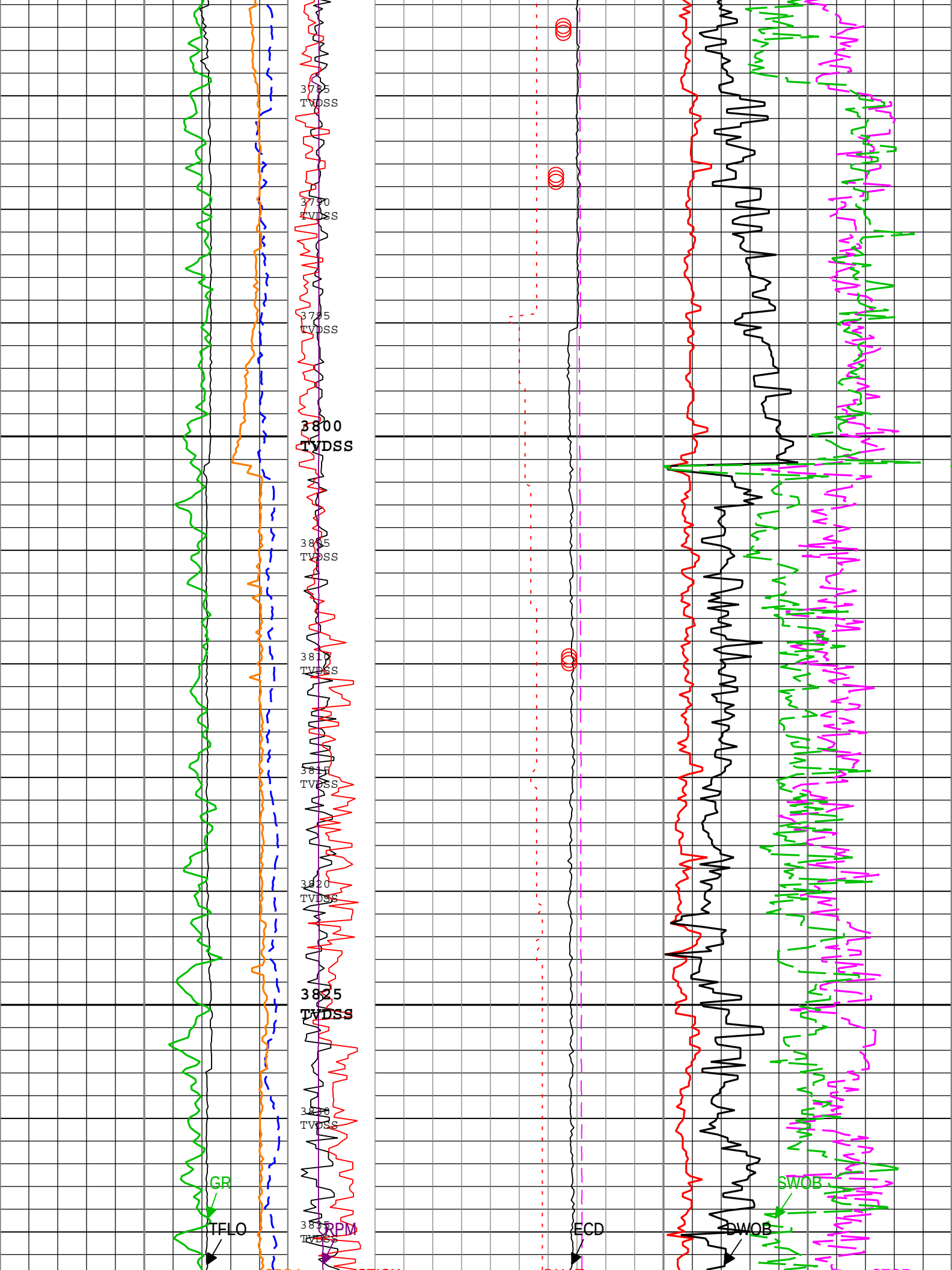
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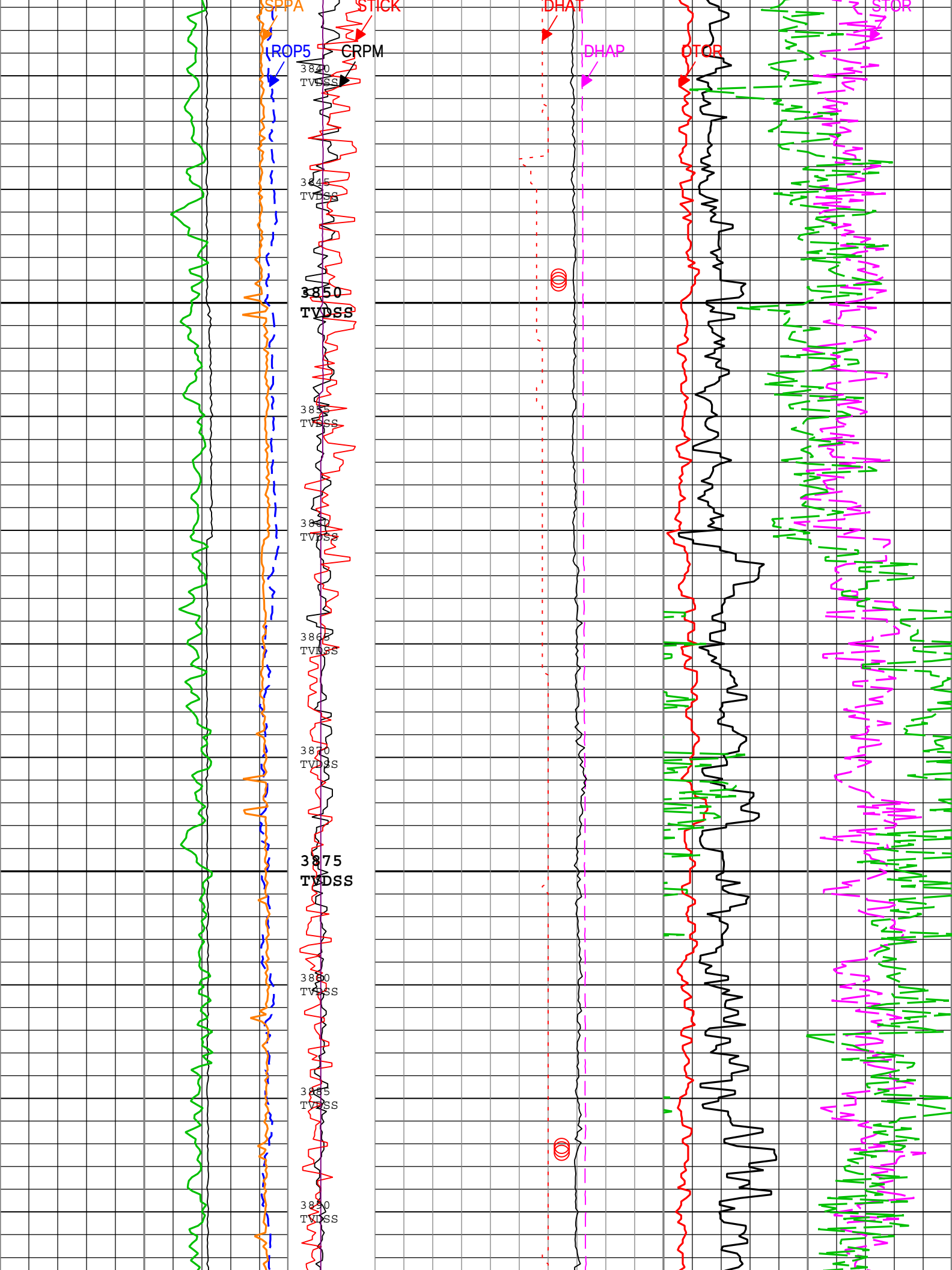
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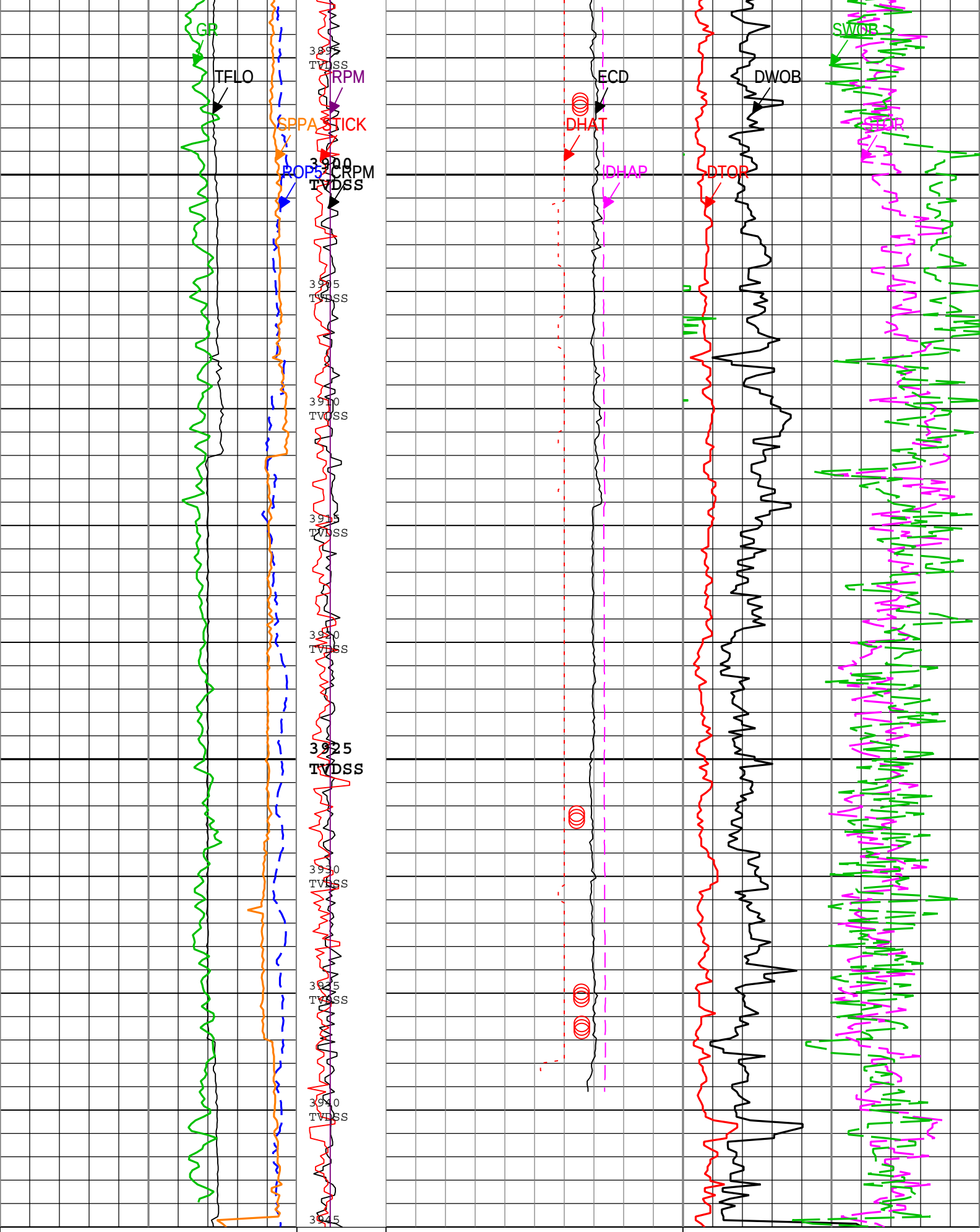
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ECD
DHAT
DHAP
DWOB
DTOR
SWOB
STOR
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT
100
m/h
0
Collar Rotational Speed (CRPM)
Downhole Annulus Pressure (DHAP) ARC8 RM
0
kPa
60000
Downhole Annulus Temperature (DHAT) ARC8
Downhole Torque (MWD) (DTOR) TELE825-IWOB RT
0
kN.m
20

Standpipe Pressure (SPPA) RT 0 kPa 35000	TELE825-IW OB RT 0 c/min 400	RM 0 degC 50
Total flow rate of all active pumps (TFLO) RT 500 gal/min 1500	Stick Slip Indicator (STICK) TELE825-IW OB RT 0 c/min 400	Equivalent Circulating Density (ECD) ARC8 RM 1 g/cm3 1.2
Gamma Ray (GR) RAB8 RM 0 gAPI 150	Rotational Speed (RPM) RT 0 c/min 400	Equivalent Static Density (ESD) ARC8 RT 1 g/cm3 1.2

Surface Torque (STOR) RT 0 kN.m 20	
Downhole Weight on Bit (DWOB) TELE825-IWOB RT 0 kN 200	
Surface Weight On Bit (SWOB) RT 0 kN 200	

Description: Format: Log (DML Depth RM) Index Scale: 1:200 Index Unit: m Index Type: SSTVD Creation Date: 10-Jan-2013 16:45:26

Calibration Report

RAB8 (GeoVision Resistivity 825) Calibration - Run Run001

Primary Equipment :

Electronics Chassis RBEC 878

M21V - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Monitor 2 at T1 Calibration Coefficient		Master	1.00000	0.90000	0.97321	1.20000

M22V - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Monitor 2 at T2 Calibration Coefficient		Master	1.00000	0.90000	0.94870	1.20000

M01V - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Monitor 0 at T1 Calibration Coefficient		Master	1.00000	0.90000	1.05222	1.20000

M02V - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Monitor 0 at T2 Calibration Coefficient		Master	1.00000	0.90000	1.04139	1.20000

R1V - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Ring at T1 Calibration Coefficient		Master	0.01000	0.00950	0.01089	0.01250

R2V - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Ring at T2 Calibration Coefficient		Master	0.01000	0.00950	0.01089	0.01250

BDM1 - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

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

BDM2 - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

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

BMM1 - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

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

BMM2 - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

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

BSM1 - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

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

BSM2 - Resistivity

Master (Time Frame File): 18:20:14 02-Sep-2012

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

PGR - Gamma Ray: Blanket

Master (Time Frame File): 18:47:29 02-Sep-2012

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit
Gamma Ray API Conversion Factor		Master	8.5500	6.5000	8.2164	10.6000

Company: JAMSTEC

Well: C0002F

Field: Nankai Trough - Kumano Basin

Rig Name: Chikyu

Prefecture: Wakayama

Country: Japan

Schlumberger

geoVISION - sonicVISION - APWD

Gamma Ray - Resistivity - Image - Compressional - APWD

12.25 X 20in Recorded Mode Log. True Vertical Depth Sub Sea 1:200