

Company: Smith Production Co.

Well: Randall J Boudoin etal #1

Field: Little Cheniere

County: Cameron Country: USA

Platform Express 5" = 100' TVD

Array Induction - SP - GR

Compensated Neutron - Litho Density

County:	Cameron		Elev.:	1.00 ft
Field:	Little Cheniere		K.B.:	15.00 ft
Location:	N 42D 43' 26" E - 24,504.69' Fr		G.L.:	1.00 ft
Well:	Randall J Boudoin etal #1		D.F.:	14.00 ft
Company:	Smith Production Co.			
	Location:		Ground Level	
	N 42D 43' 26" E - 24,504.69' From NGS MONU			
	"oil" in Sec 13			
	Permanent Datum:			
	Log Measured From:	Kelly Bushing	14.00 ft	above Perm. Datum
	Drilling Measured From:	Kelly Bushing		
	API Serial No.	Section:	Township:	Range:
	17023230870000	013T	14S	06W
Logging Date	09-Nov-2011			

Run Number One

Depth Driller 50000.00 ft

Schlumberger Depth 50000.00 ft

Bottom Log Interval 8190.00 ft

Top Log Interval 2521.00 ft

Casing Driller Size @ Depth 9.625 in @ 2521.00 ft

Casing Schlumberger 2521 ft

Bit Size 8.5 in

Type Fluid In Hole Fresh Water

Density 9.4 lbm/gal

Viscosity 6.4 cm3

PH 10.5

Source of Sample Active Tank

MUD				
RM @ Meas Temp	0.2 ohm.m	@	77 degF	
RMF @ Meas Temp	0.71 ohm.m	@	77 degF	
RMC @ Meas Temp	1.25 ohm.m	@	68 degF	
Source RMF	Calculated	Pressed		
RM @ BHT	0.1 @	163	0.35 @	163
Max Recorded Temperatures	163 degF	163	263	
Circulation Stopped	09-Nov-2011	09:00:00		
Logger on Bottom	09-Nov-2011	18:00:00		
Unit Number	2355			
Recorded By	James Cross			
Witnessed By	Herbert Antie			

Disclaimer

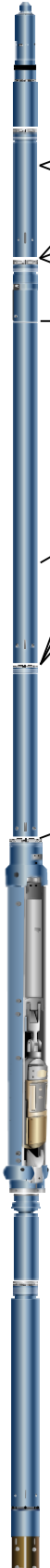
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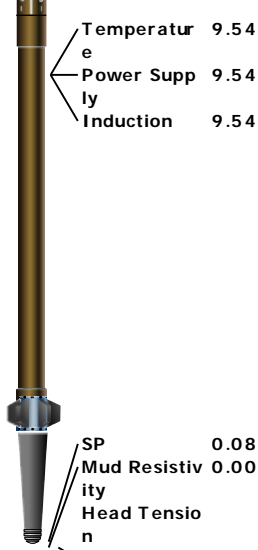
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Remarks and Equipment Summary

One: Toolstring				One: Remarks
Equip name LEH-QT LEH-QT	Length 47.19	MP name	Offset	Log Objectives: Well Evaluation
				Log run on a sandstone matrix 2.65g/cc
				Caliper check in casin within tolerance
DTC-H:8387 ECH-KC:9549 DTC-H:8387	44.28	CTEM HV	43.38 0.00	Washout may affect density porosity data
				Repeat done below casing as per client request
		TeIStatus ToolStatus Temperatur e	41.27 41.27 41.25	Bowspring removed due to deviation
HGNS-H:3847 HGNS-H:3847 NSR-F:5079 NPV-N HACCZ-H:1385 HMCA H	41.28	GR	40.53	Log tied in near casing due to deviation
		CNL Porosit y HMCA HGNS Accelerome ter	34.2 31.87 31.87 0.00	
HDRS-H:3915 ECH-MEB:3851 HRC C-H:3971 HRMS-H:3915 Long Spacing:28 437 GSR-J:5079 Short Spacing:27 536 Backscatter:2644 9 HRGD-H:3993 GPV-Q:5079	31.87	HRCC	27.87	
		MCFL Caliper TLD Density	22.43 21.95 21.56	
AH-107:6272	19.62			
AIT-M:132 AMIS:132 AMHF:132	17.62			





Lengths are in ft
 Maximum Outer Diameter = 7.000 in
 Line: Sensor Location, Value: Gating Offset
 All measurements are relative to TOOL_ZERO

Depth Summary

Depth Control Parameters	One		
Conveyance Type	Wireline		
Rig Type	Land		
Depth Measuring Device	One		
Type	IDW-B		
Serial Number	82		
Calibration Date	08-SEP-2011		
Calibrator Serial Number	33		
Calibration Cable Type	7-46AXS		
Wheel Correction 1	-7		
Wheel Correction 2	-5		
Tension Device	One		
Type	CMTD-B/A		
Serial Number	1171		
Calibration Date	02-NOV-2011		
Calibrator Serial Number	174608		
Calibration Points	10		
Calibration RMS	6		
Calibration Peak Error	11		
Logging Cable	One		
Type	7-46A-XS		
Serial Number	710146		
Logging Cable Length (ft)	24000.00		

Survey Record

Survey Calculation			
Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	True North	Total Correction Formula :	Magnetic Dec
Rig Location			
Latitude :	29° 49' 44.76" N	Longitude :	92° 56' 16.8" W
Tie In Point			
Measured Depth:	0.00 ft	Inclination:	0.00 deg
True Vertical Depth:	0.00 ft	North Displacement:	0.00 ft
		Azimuth:	0.00 deg
		East Displacement:	0.00 ft

Survey Quality Index			
9 : Manual	28 : Tie-In Point		

Survey Correction Index															
0 : No correction															
Survey Description Index															
0 : Not Flagged Survey															
Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/ -S (ft)	E/ -W (ft)	Closure (ft)	at Azim (deg)	DLS deg/100ft	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	3700.00	0.29	249.50	3700.00	3699.98	-3.28	-3.28	-8.77	9.35	249.50	0.01	Other	9	0	0
3	3900.00	0.43	236.21	200.00	3899.98	-3.87	-3.87	-9.87	10.60	248.57	0.08	Other	9	0	0
4	3948.00	0.70	244.50	48.00	3947.98	-4.10	-4.10	-10.28	11.06	248.26	0.59	Other	9	0	0
5	4012.00	0.40	342.30	64.00	4011.98	-4.06	-4.06	-10.70	11.45	249.25	1.33	Other	9	0	0
6	4074.00	0.90	49.60	62.00	4073.97	-3.53	-3.53	-10.40	10.99	251.23	1.34	Other	9	0	0
7	4136.00	1.20	43.10	62.00	4135.96	-2.74	-2.74	-9.58	9.97	254.02	0.52	Other	9	0	0
8	4198.00	1.20	55.00	62.00	4197.95	-1.90	-1.90	-8.61	8.83	257.57	0.40	Other	9	0	0
9	4260.00	1.10	36.20	62.00	4259.94	-1.05	-1.05	-7.73	7.81	262.29	0.63	Other	9	0	0
10	4322.00	1.20	26.20	62.00	4321.92	0.02	0.02	-7.09	7.09	270.14	0.36	Other	9	0	0
11	4384.00	1.60	40.30	62.00	4383.91	1.26	1.26	-6.24	6.36	281.42	0.85	Other	9	0	0
12	4446.00	1.40	67.90	62.00	4445.88	2.21	2.21	-4.98	5.45	293.89	1.20	Other	9	0	0
13	4508.00	1.80	54.30	62.00	4507.86	3.06	3.06	-3.49	4.63	311.26	0.89	Other	9	0	0
14	4571.00	1.90	71.70	63.00	4570.83	3.96	3.96	-1.69	4.30	336.89	0.90	Other	9	0	0
15	4634.00	1.80	74.50	63.00	4633.80	4.56	4.56	0.25	4.56	3.18	0.21	Other	9	0	0
16	4697.00	1.80	73.10	63.00	4696.76	5.11	5.11	2.15	5.54	22.86	0.07	Other	9	0	0
17	4759.00	1.90	63.10	62.00	4758.73	5.86	5.86	4.00	7.09	34.35	0.54	Other	9	0	0
18	4821.00	1.20	60.30	62.00	4820.71	6.64	6.64	5.48	8.63	39.53	1.14	Other	9	0	0
19	4883.00	0.70	55.60	62.00	4882.70	7.18	7.18	6.36	9.58	41.53	0.82	Other	9	0	0
20	4945.00	1.10	25.30	62.00	4944.69	7.93	7.93	6.93	10.53	41.13	0.98	Other	9	0	0
21	5007.00	1.10	32.70	62.00	5006.68	8.97	8.97	7.50	11.68	39.91	0.23	Other	9	0	0
22	5069.00	1.20	1.90	62.00	5068.67	10.12	10.12	7.84	12.80	37.78	1.00	Other	9	0	0
23	5131.00	1.20	7.70	62.00	5130.66	11.41	11.41	7.95	13.91	34.87	0.20	Other	9	0	0
24	5192.00	1.60	357.00	61.00	5191.64	12.89	12.89	7.99	15.16	31.80	0.78	Other	9	0	0
25	5255.00	2.80	354.60	63.00	5254.59	15.31	15.31	7.80	17.19	27.01	1.91	Other	9	0	0
26	5317.00	4.00	0.70	62.00	5316.48	18.98	18.98	7.69	20.47	22.05	2.02	Other	9	0	0
27	5379.00	4.40	9.30	62.00	5378.31	23.48	23.48	8.10	24.84	19.02	1.20	Other	9	0	0
28	5442.00	4.80	3.70	63.00	5441.11	28.50	28.50	8.66	29.79	16.90	0.95	Other	9	0	0
29	5502.00	5.10	6.20	60.00	5500.89	33.66	33.66	9.11	34.88	15.14	0.62	Other	9	0	0
30	5565.00	5.30	0.50	63.00	5563.63	39.35	39.35	9.44	40.45	13.49	0.88	Other	9	0	0
31	5627.00	6.00	7.70	62.00	5625.33	45.42	45.42	9.90	46.49	12.29	1.60	Other	9	0	0
32	5690.00	6.70	4.60	63.00	5687.94	52.35	52.35	10.63	53.41	11.48	1.24	Other	9	0	0
33	5751.00	7.20	4.80	61.00	5748.49	59.71	59.71	11.24	60.76	10.66	0.82	Other	9	0	0
34	5885.00	8.30	11.30	134.00	5881.27	77.56	77.56	13.83	78.77	10.11	1.05	Other	9	0	0
35	5947.00	7.70	9.30	62.00	5942.67	86.05	86.05	15.38	87.40	10.14	1.07	Other	9	0	0
36	6009.00	8.80	8.30	62.00	6004.02	94.84	94.84	16.74	96.29	10.01	1.79	Other	9	0	0
37	6070.00	10.20	6.50	61.00	6064.19	104.82	104.82	18.02	106.36	9.76	2.35	Other	9	0	0
38	6133.00	11.10	11.60	63.00	6126.10	116.31	116.31	19.87	117.98	9.70	2.07	Other	9	0	0
39	6195.00	13.00	14.40	62.00	6186.73	128.91	128.91	22.81	130.91	10.03	3.21	Other	9	0	0
40	6257.00	14.80	15.70	62.00	6246.91	143.29	143.29	26.69	145.77	10.55	2.95	Other	9	0	0
41	6319.00	16.40	13.50	62.00	6306.63	159.42	159.42	30.87	162.37	10.96	2.75	Other	9	0	0
42	6382.00	18.50	13.00	63.00	6366.73	177.81	177.81	35.20	181.27	11.20	3.34	Other	9	0	0
43	6443.00	20.90	15.00	61.00	6424.15	197.75	197.75	40.19	201.80	11.49	4.09	Other	9	0	0
44	6506.00	22.20	15.80	63.00	6482.75	220.06	220.06	46.34	224.90	11.89	2.12	Other	9	0	0
45	6568.00	23.40	15.30	62.00	6539.90	243.21	243.21	52.78	248.88	12.24	1.96	Other	9	0	0
46	6630.00	25.20	13.70	62.00	6596.41	267.91	267.91	59.15	274.38	12.45	3.09	Other	9	0	0
47	6692.00	27.30	13.20	62.00	6652.01	294.58	294.58	65.53	301.77	12.54	3.41	Other	9	0	0
48	6754.00	28.50	12.00	62.00	6706.80	322.89	322.89	71.85	330.77	12.55	2.14	Other	9	0	0

49	6815.00	30.80	12.80	61.00	6759.81	352.36	352.36	78.34	360.96	12.53	3.83	Other	9	0	0
50	6878.00	31.70	13.90	63.00	6813.67	384.16	384.16	85.89	393.64	12.60	1.69	Other	9	0	0
51	6939.00	31.70	13.70	61.00	6865.57	415.29	415.29	93.53	425.69	12.69	0.17	Other	9	0	0
52	7001.00	32.70	11.60	62.00	6918.04	447.52	447.52	100.76	458.73	12.69	2.42	Other	9	0	0
53	7064.00	33.80	11.40	63.00	6970.72	481.37	481.37	107.65	493.24	12.61	1.75	Other	9	0	0
54	7126.00	32.90	11.30	62.00	7022.51	514.79	514.79	114.35	527.33	12.52	1.45	Other	9	0	0
55	7189.00	33.40	12.70	63.00	7075.26	548.48	548.48	121.52	561.78	12.49	1.45	Other	9	0	0
56	7251.00	34.10	13.20	62.00	7126.81	582.05	582.05	129.24	596.23	12.52	1.21	Other	9	0	0
57	7312.00	34.00	13.00	61.00	7177.35	615.32	615.32	136.98	630.38	12.55	0.25	Other	9	0	0
58	7374.00	34.50	14.40	62.00	7228.60	649.21	649.21	145.25	665.26	12.61	1.51	Other	9	0	0
59	7435.00	34.50	16.00	61.00	7278.87	682.55	682.55	154.30	699.77	12.74	1.49	Other	9	0	0
60	7498.00	32.90	15.30	63.00	7331.28	716.21	716.21	163.74	734.68	12.88	2.61	Other	9	0	0
61	7559.00	32.60	15.50	61.00	7382.59	748.02	748.02	172.50	767.65	12.99	0.52	Other	9	0	0
62	7622.00	32.40	15.00	63.00	7435.72	780.68	780.68	181.40	801.48	13.08	0.53	Other	9	0	0
63	7684.00	32.20	15.10	62.00	7488.13	812.68	812.68	190.01	834.58	13.16	0.33	Other	9	0	0
64	7747.00	32.20	16.40	63.00	7541.44	844.98	844.98	199.12	868.14	13.26	1.10	Other	9	0	0
65	7808.00	32.00	16.90	61.00	7593.11	876.04	876.04	208.41	900.49	13.38	0.55	Other	9	0	0
66	7872.00	31.80	16.40	64.00	7647.45	908.44	908.44	218.10	934.25	13.50	0.52	Other	9	0	0
67	7934.00	31.50	16.50	62.00	7700.23	939.64	939.64	227.31	966.73	13.60	0.49	Other	9	0	0
68	7996.00	31.10	16.70	62.00	7753.20	970.51	970.51	236.51	998.92	13.70	0.67	Other	9	0	0
69	8059.00	31.30	17.20	63.00	7807.09	1001.73	1001.73	246.03	1031.50	13.80	0.52	Other	9	0	0
70	8090.00	31.10	16.70	31.00	7833.61	1017.09	1017.09	250.71	1047.54	13.85	1.06	Other	9	0	0
71	8190.00	31.10	16.70	100.00	7919.23	1066.56	1066.56	265.55	1099.11	13.98	0.00	Other	9	0	0
72	13800.00	0.29	217.31	5610.00	13260.13	2478.49	2478.49	683.80	2571.10	15.42	0.56	Other	9	0	0

One

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
ICV	Integrated Cement Volume	GCSE_UP_PASS, FCD	2484.42	ft3
IHV	Integrated Hole Volume	GCSE_UP_PASS	3376.35	ft3

Software Version

Acquisition System	Version
MaxWell	3.0.9609.0
Application Patch	SP-20110816-3.0.9609.1150

Computation	Description	Version
Borehole	Borehole Ensemble provides common Borehole Parameters and Channels	3.0.9609.0
HENVIR	Computation Ensemble for the HGNS Neutron environmental corrections	3.0.9609.0
PEQL	Platform Express Quicklook	3.0.9609.0
DepthCorrection	DepthCorrection	3.0.9609.0

Tool Elements	Description	Software Version	Firmware Version
HRGD-H	HILT Resistivity Gamma-Ray Density Device, 150 degC	3.0.9609.0	3.0
HGNS-H	HILT Gamma-Ray and Neutron Sonde, 150 degC	3.0.9609.0	2.0
AMIS	Array Induction Sonde - M	3.0.9609.1150	1

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Depth Shift
One	Log[3]:Up	Up	2330.48 ft	8199.19 ft	09-Nov-2011 6:01:30 PM	09-Nov-2011 7:41:54 PM	5.21 ft

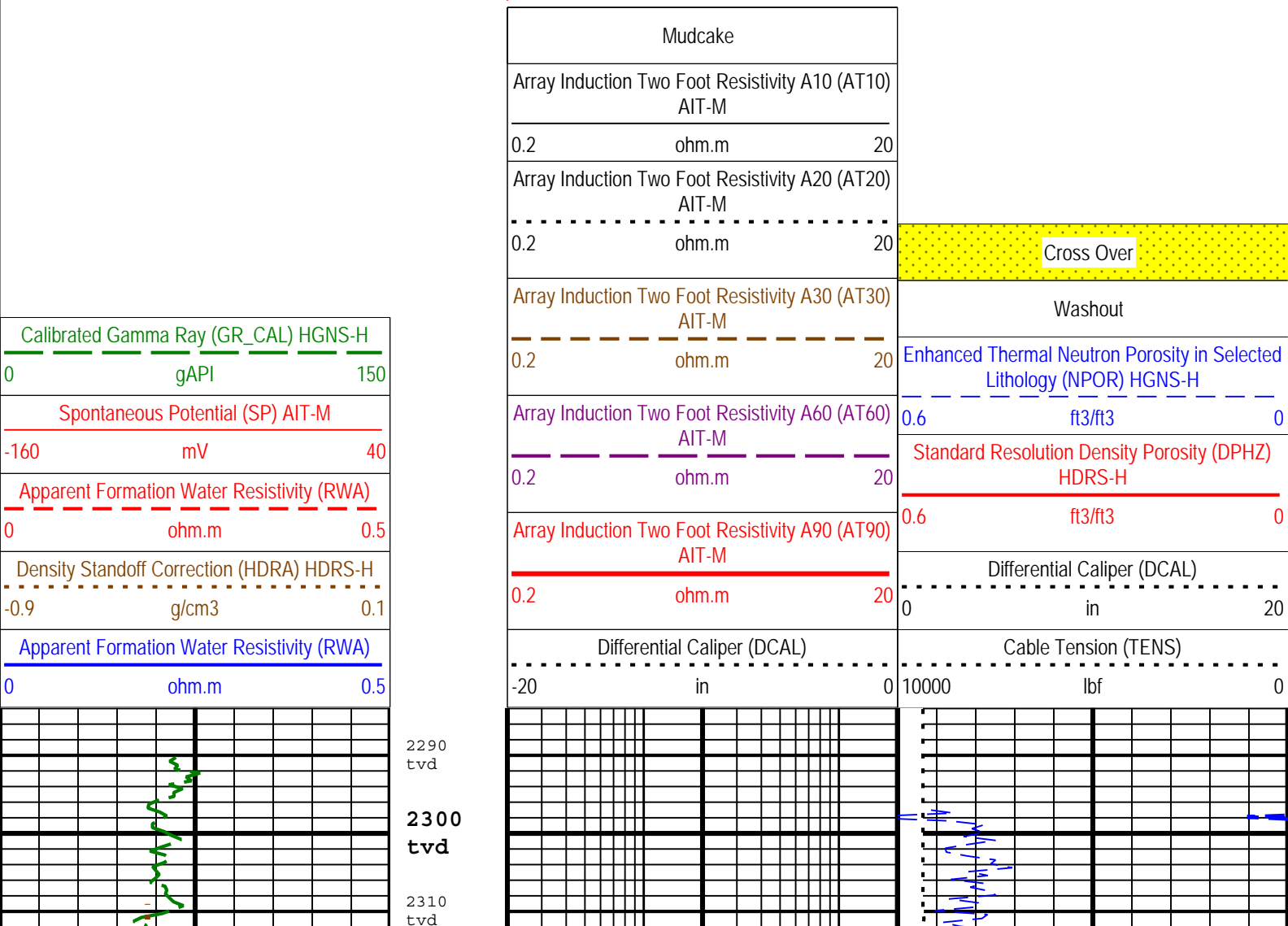
All depths are referenced to toolstring zero

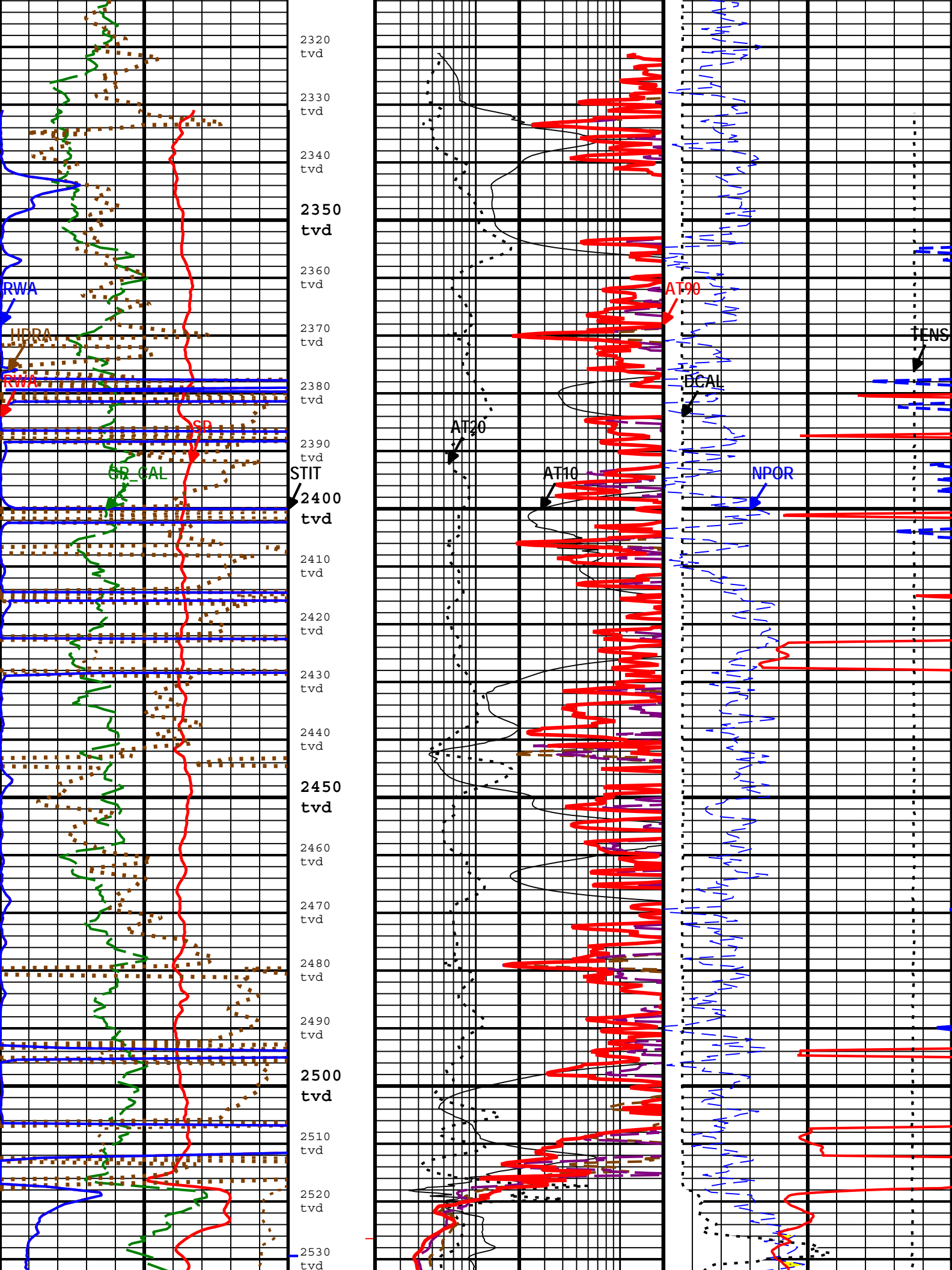
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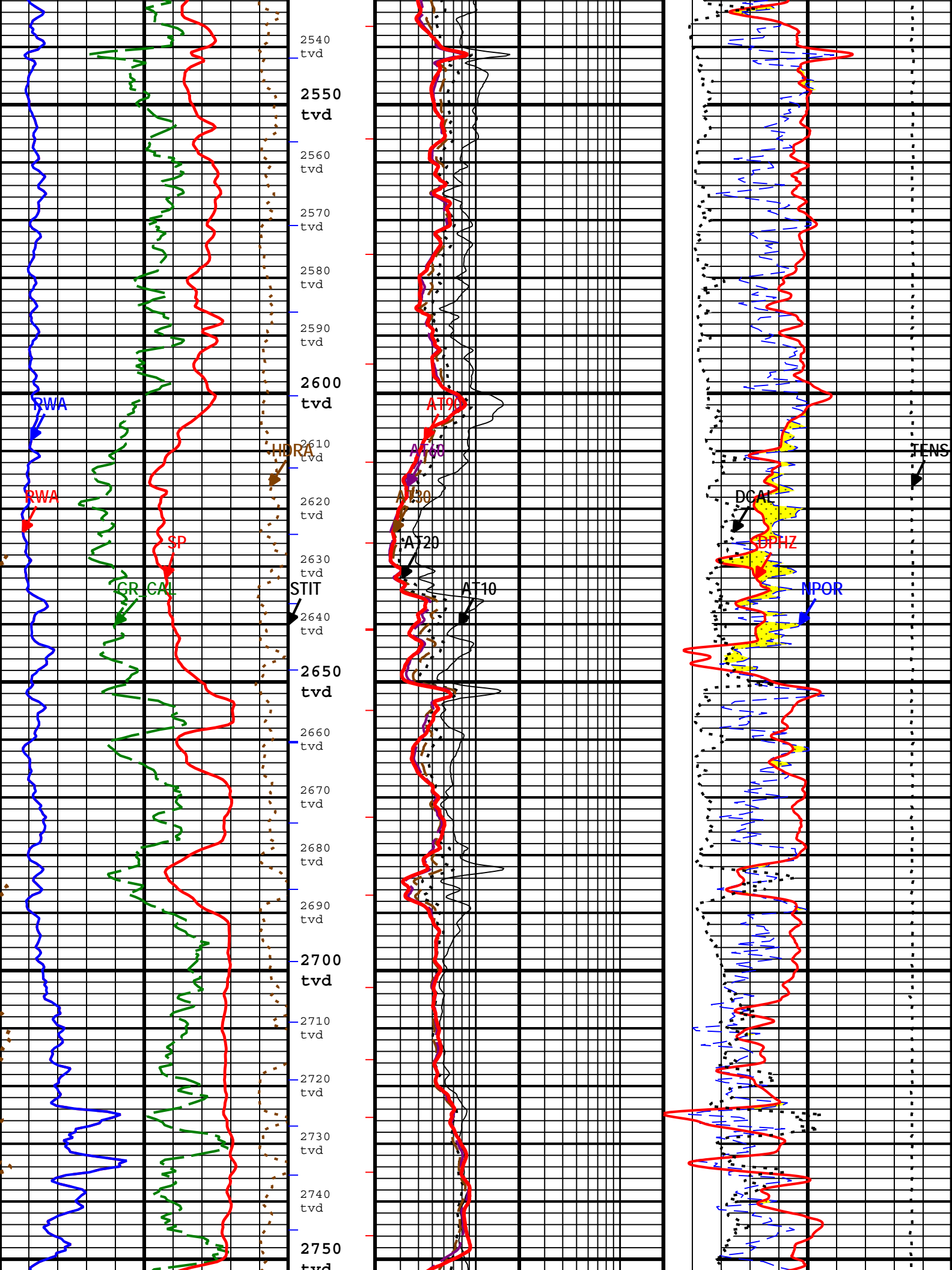
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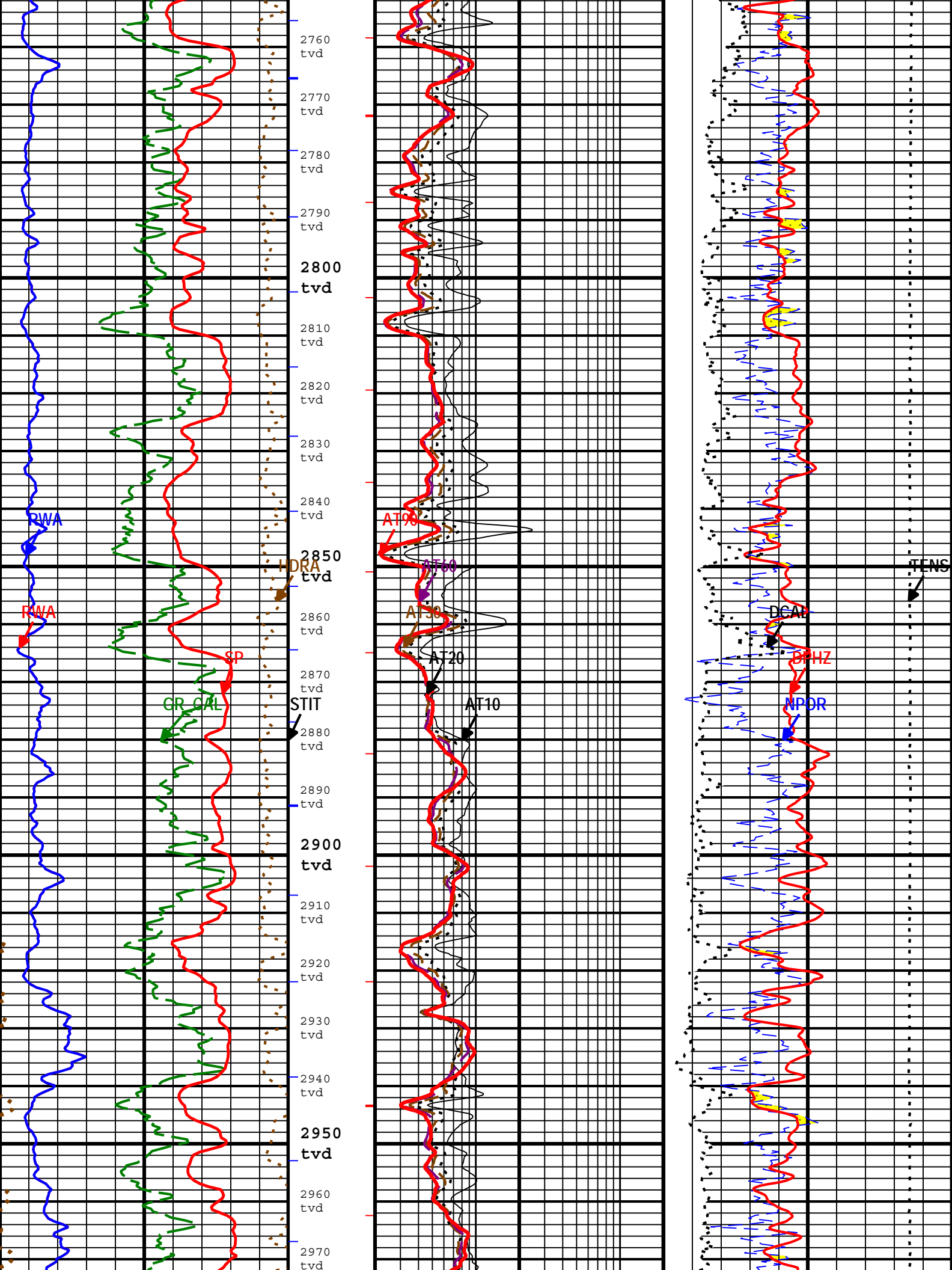
Channel	Source	Sampling
AT10	AIT-M:AMIS:AMIS	3in
AT20	AIT-M:AMIS:AMIS	3in
AT30	AIT-M:AMIS:AMIS	3in
AT60	AIT-M:AMIS:AMIS	3in
AT90	AIT-M:AMIS:AMIS	3in
DCAL	Borehole	6in
DPHZ	HDRS-H:HRMS-H:HRGD-H	2in
GR_CAL	HGNS-H:HGNS-H:HGNS-H	6in
HDRA	HDRS-H:HRMS-H:HRGD-H	2in
ICV	Borehole	6in
IHV	Borehole	6in
NPOR	HGNS-H:HGNS-H:HGNS-H	6in
RWA	PEQL	6in
SP	AIT-M:AMIS:AMIS	6in
STIT	DepthCorrection	6in
TENS	WLWorkflow	6in

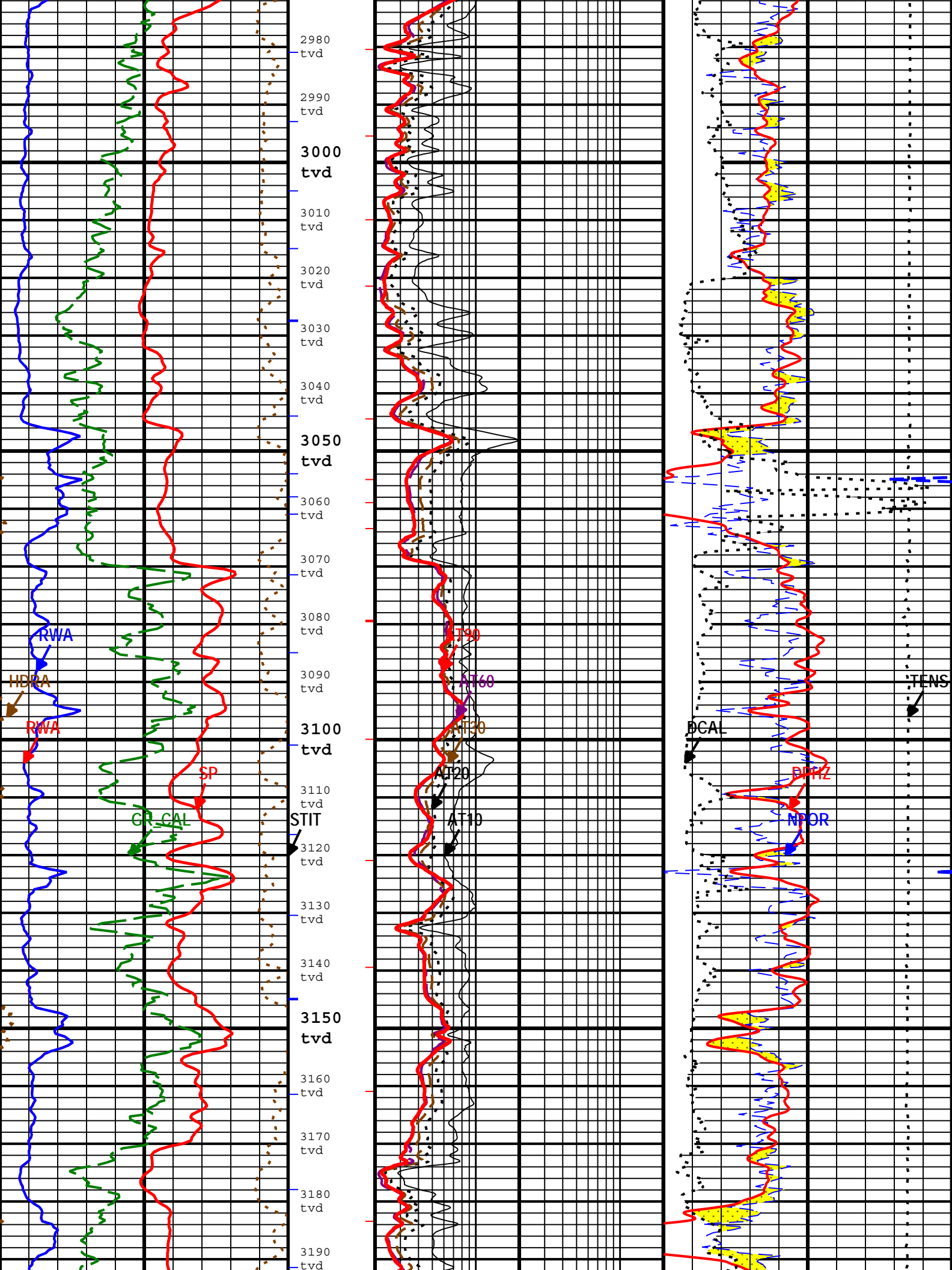
| IHV - Integrated Hole Volume every 10.00 (ft3)
-| ICV - Integrated Cement Volume every 10.00 (ft3)
| IHV - Integrated Hole Volume every 100.00 (ft3)
-| ICV - Integrated Cement Volume every 100.00 (ft3)

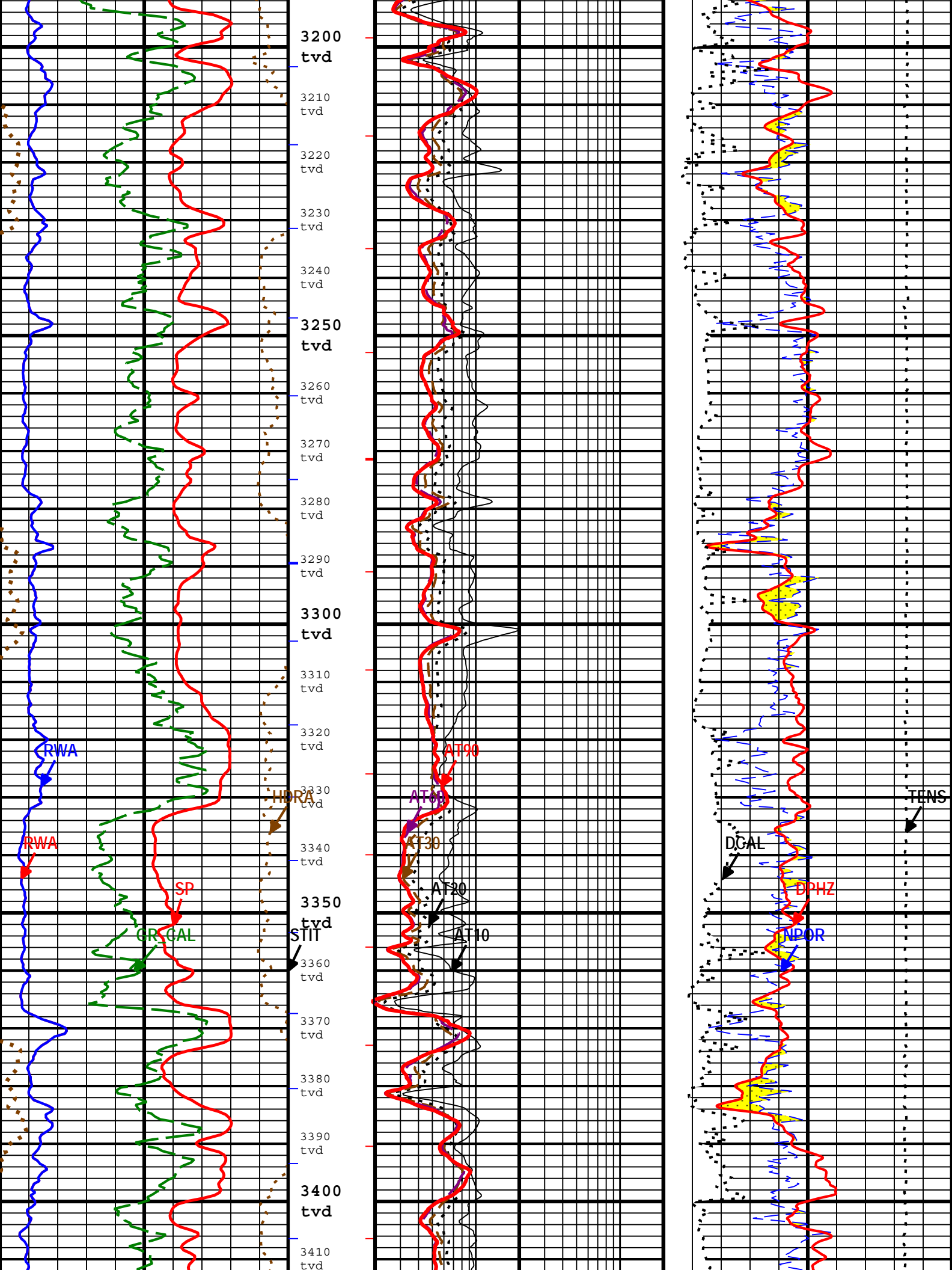


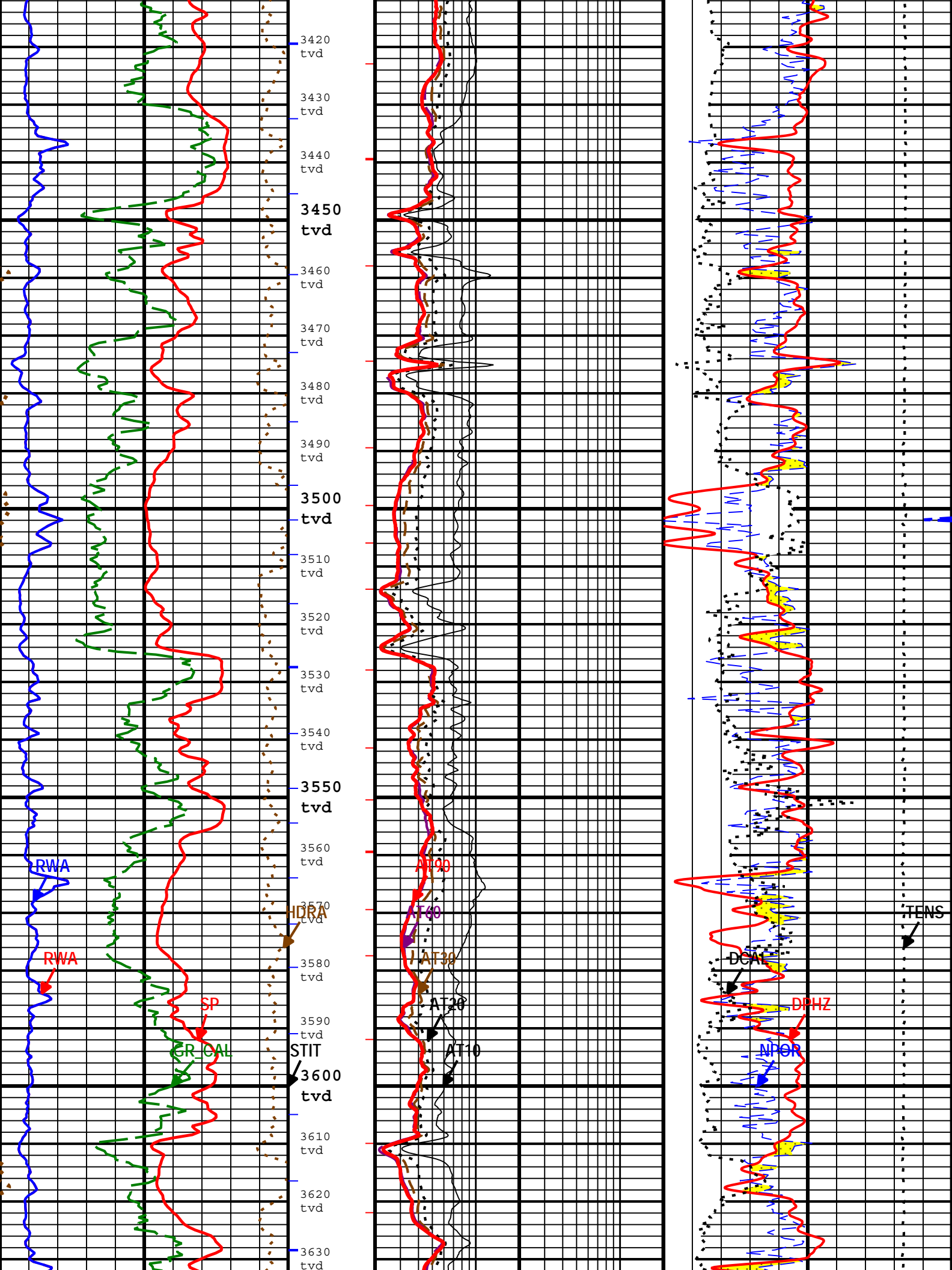


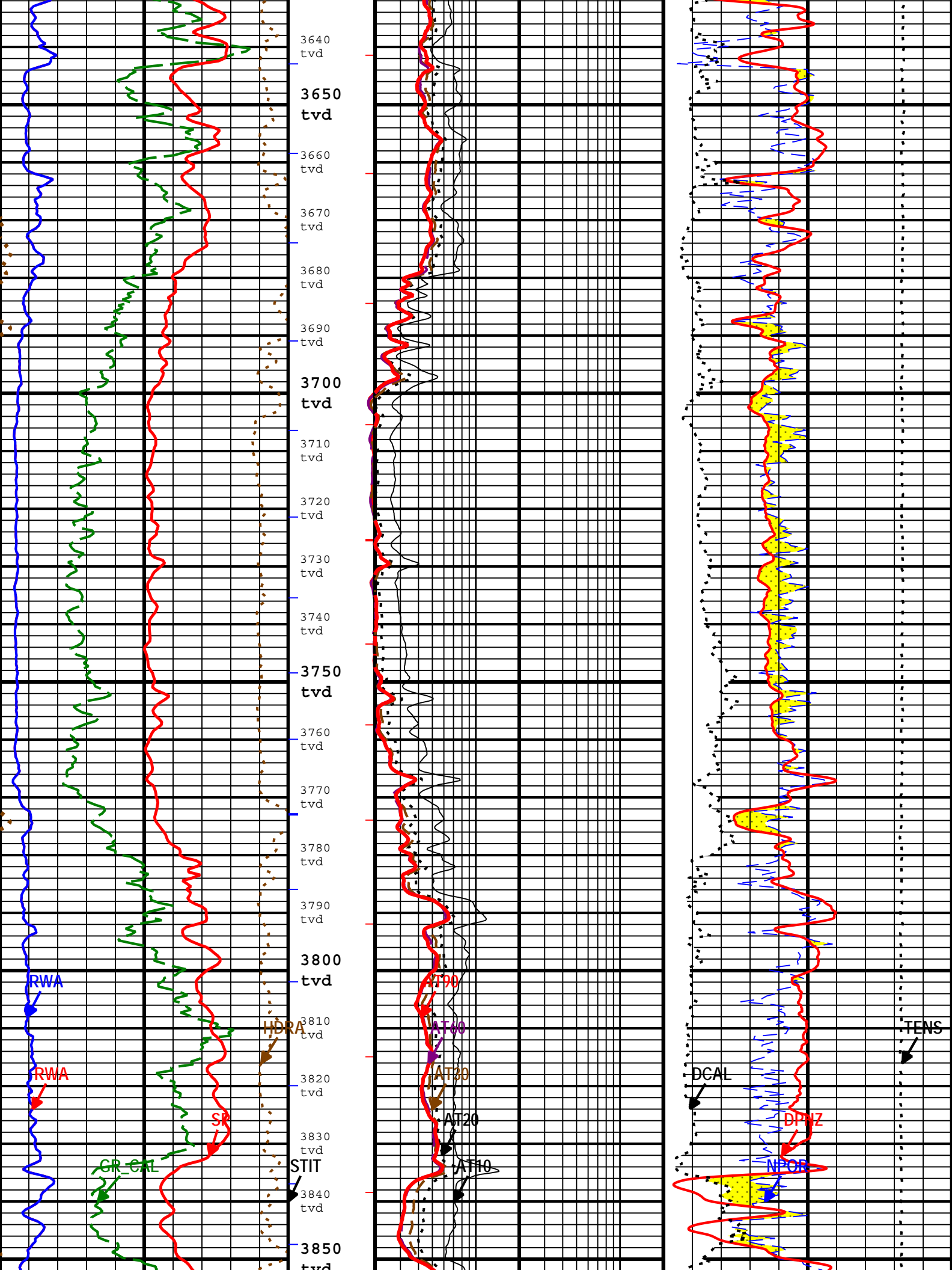


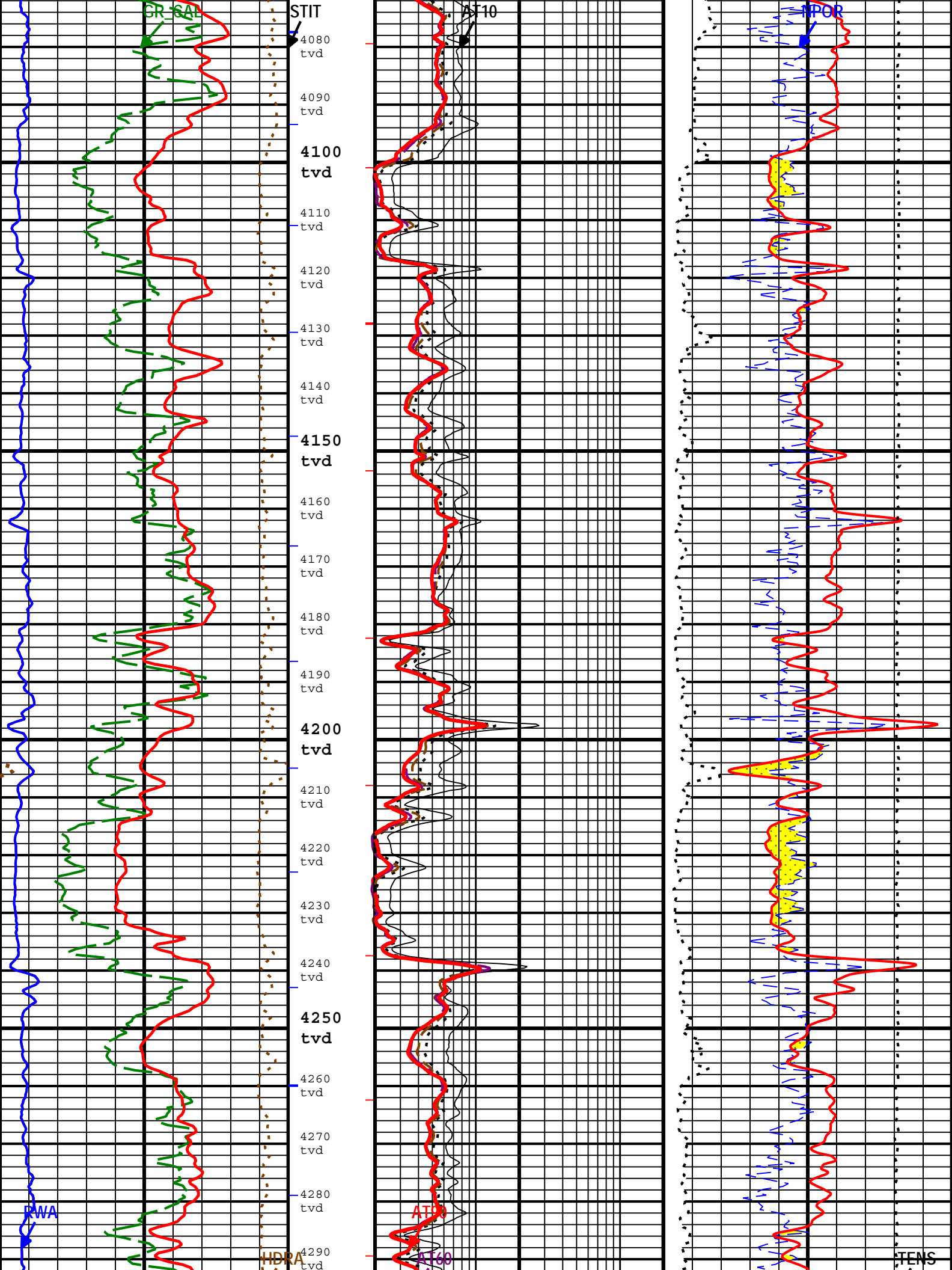


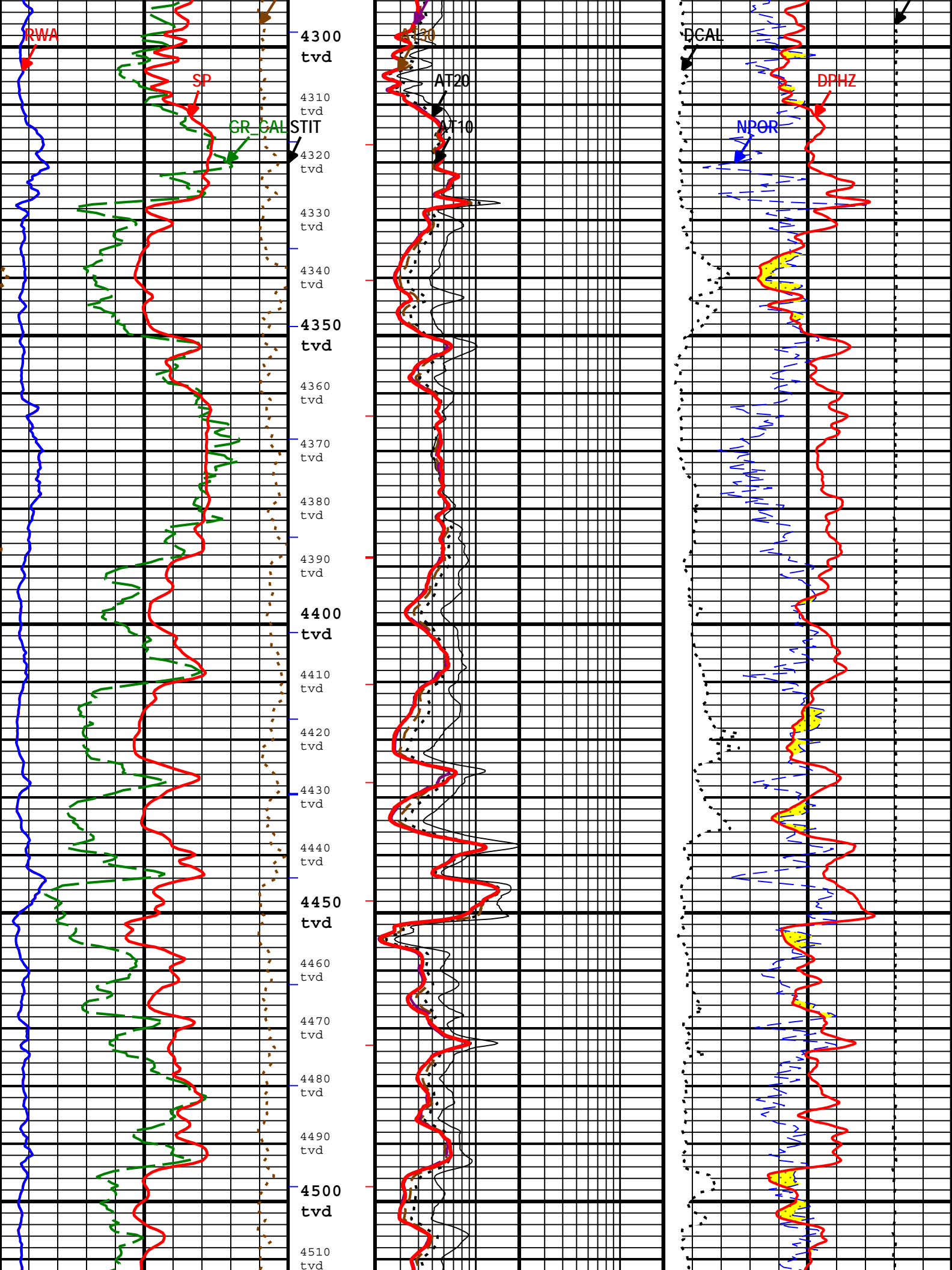


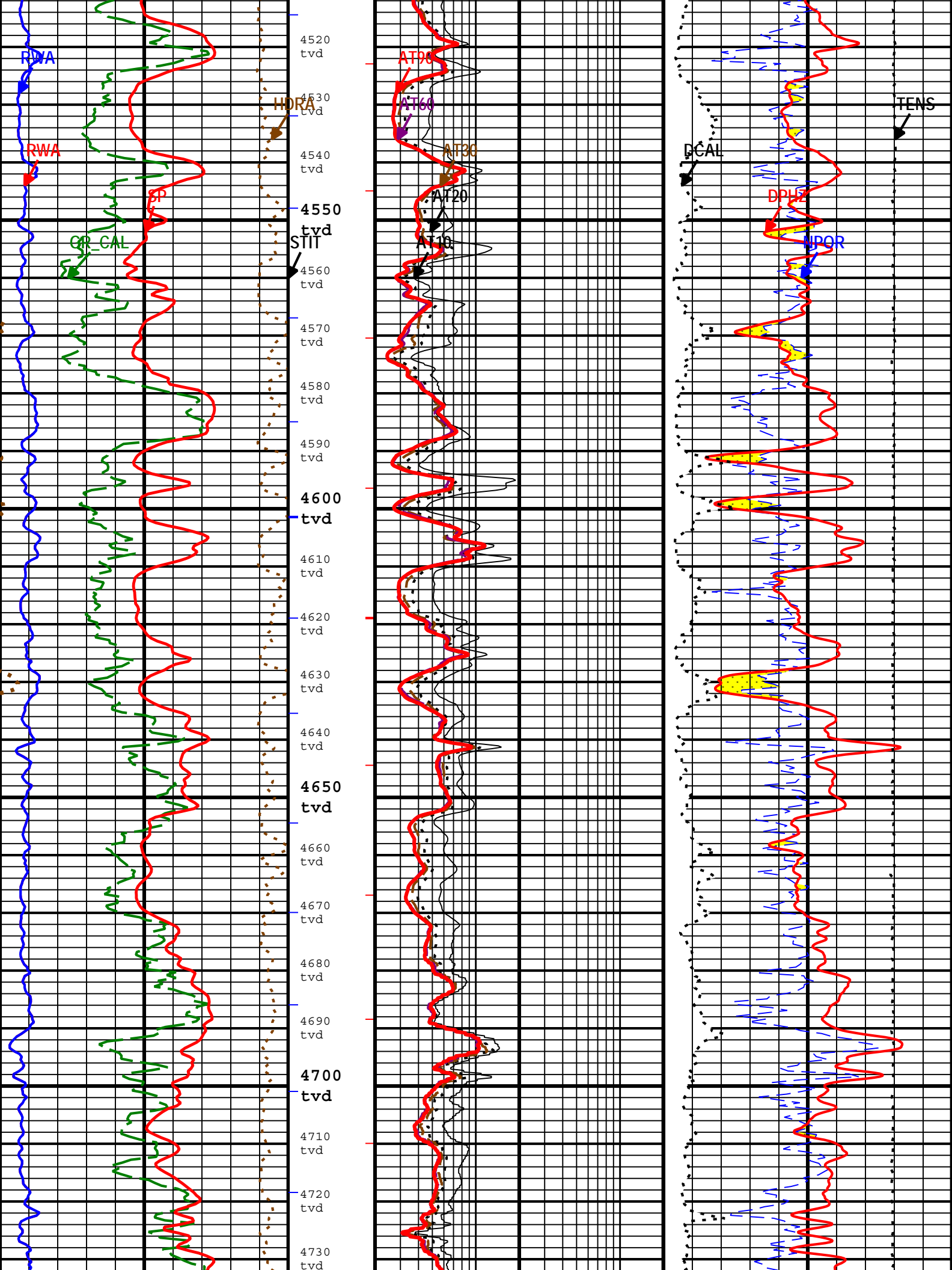


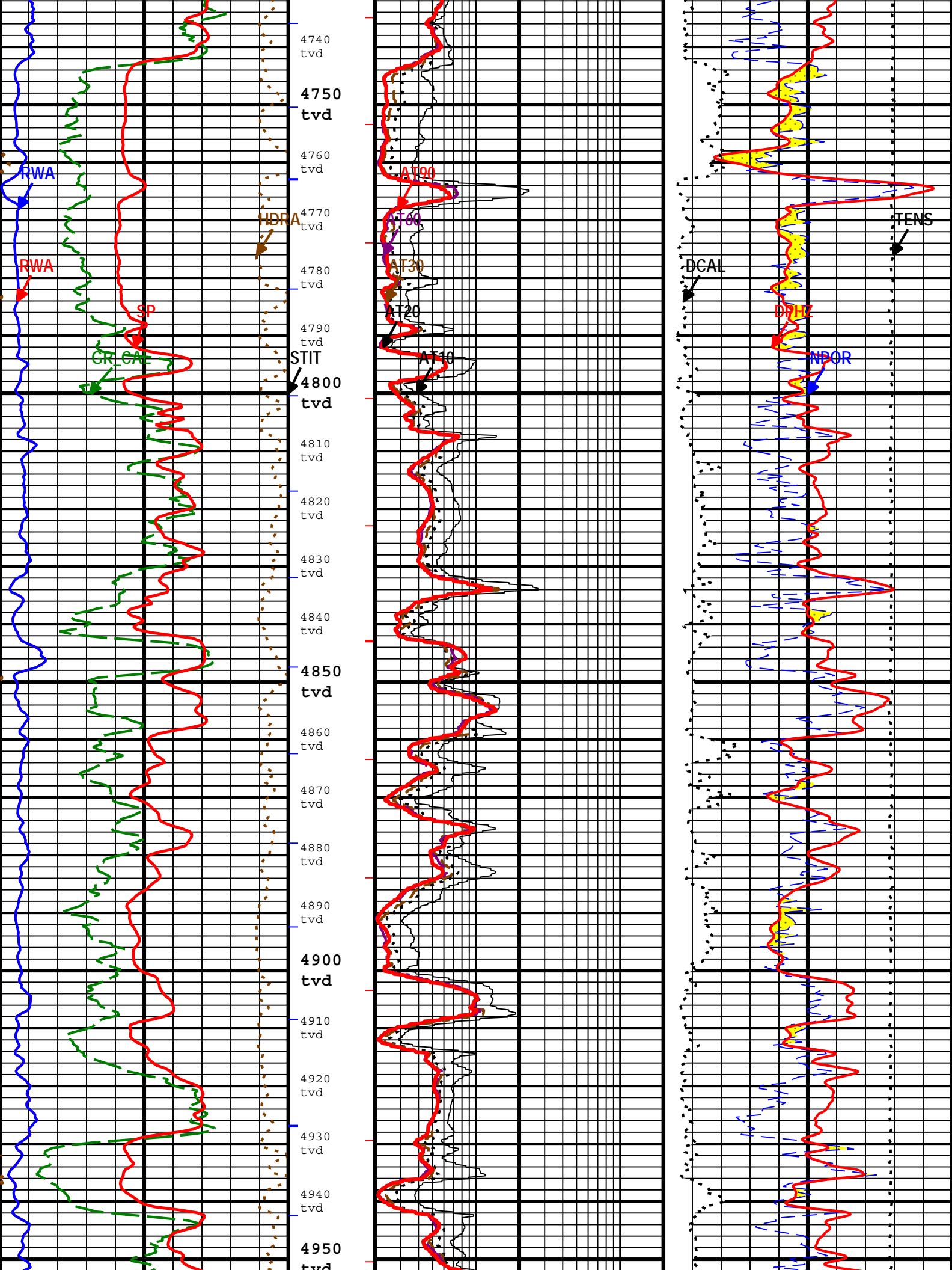


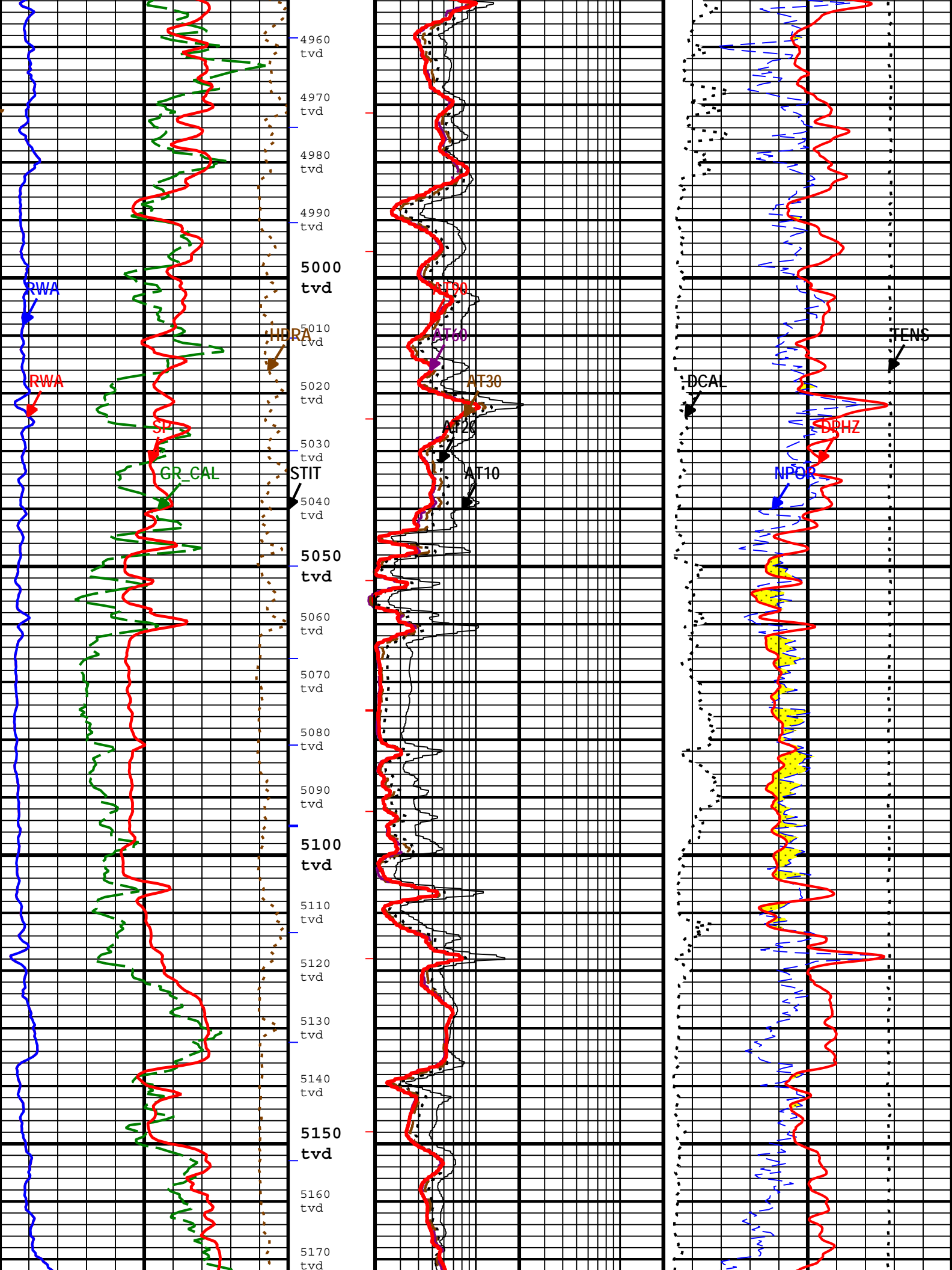


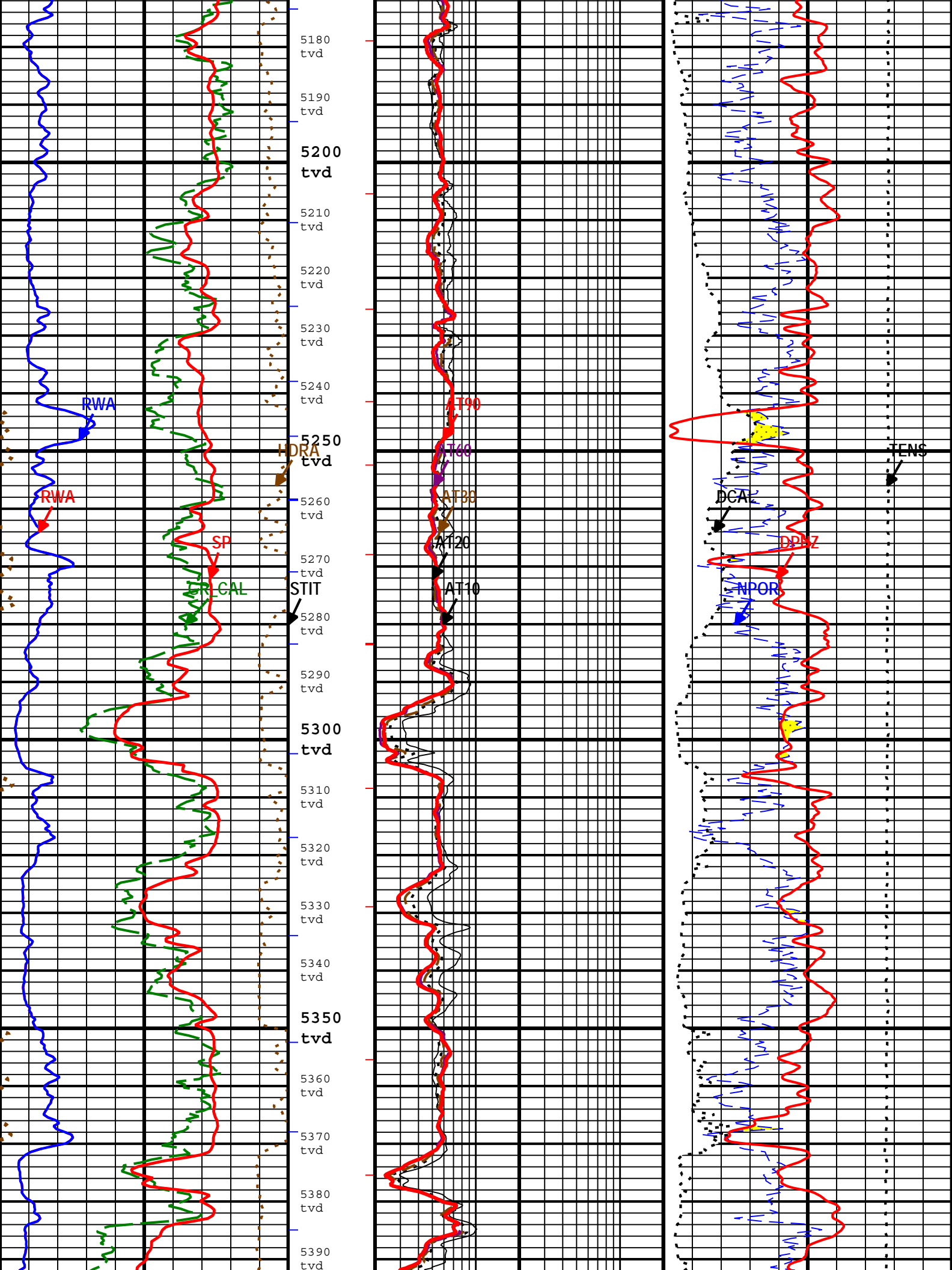


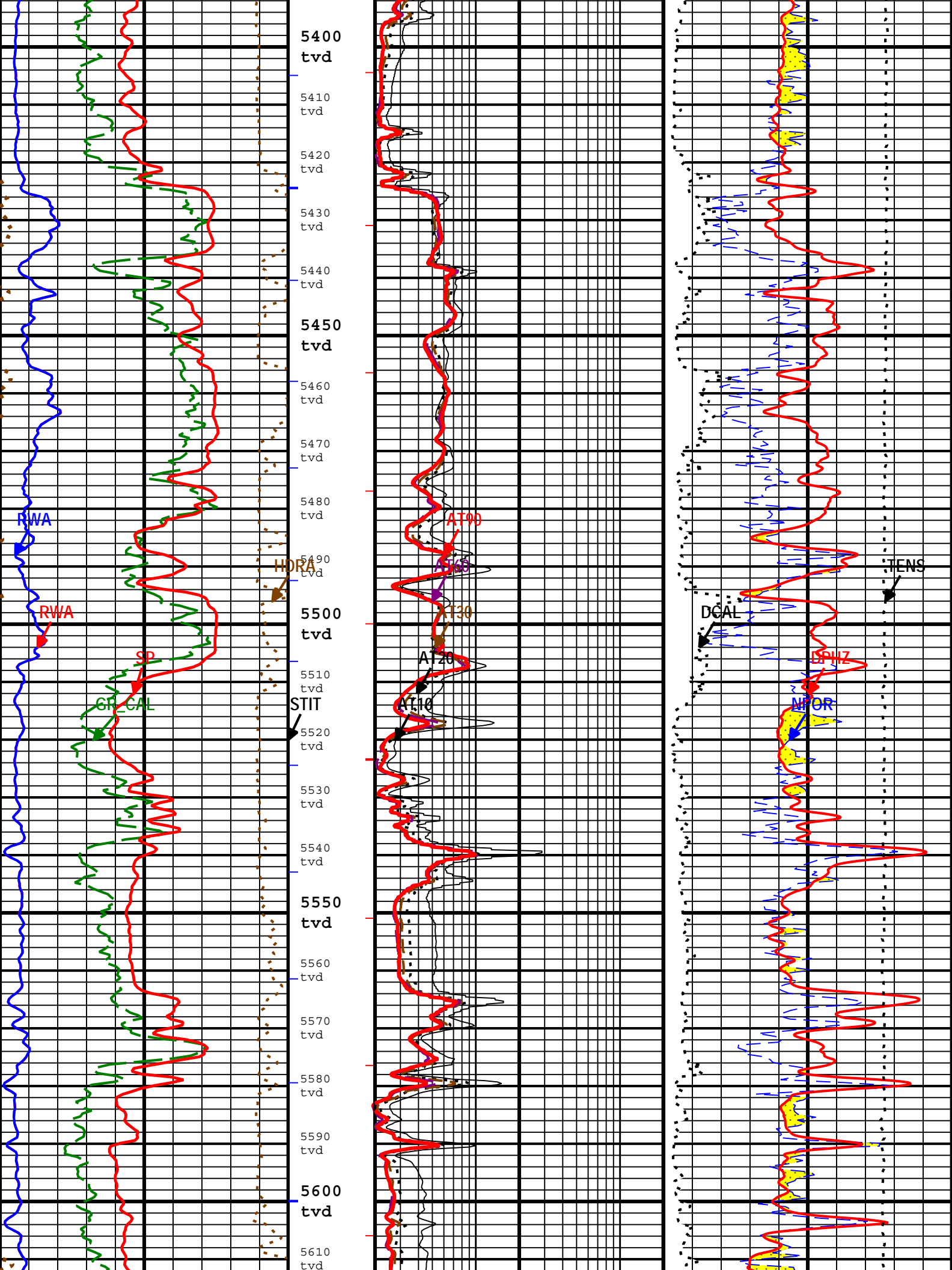


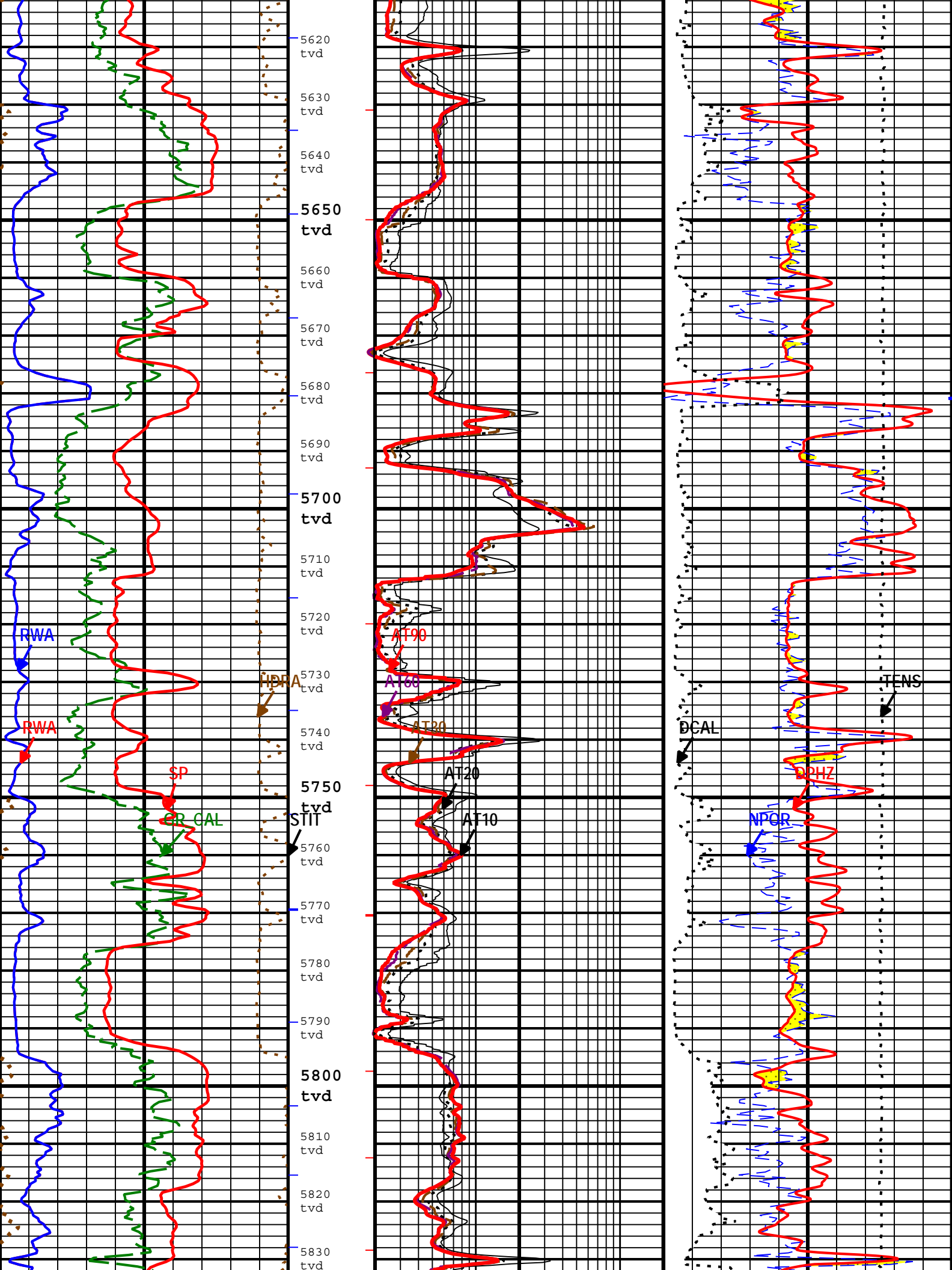


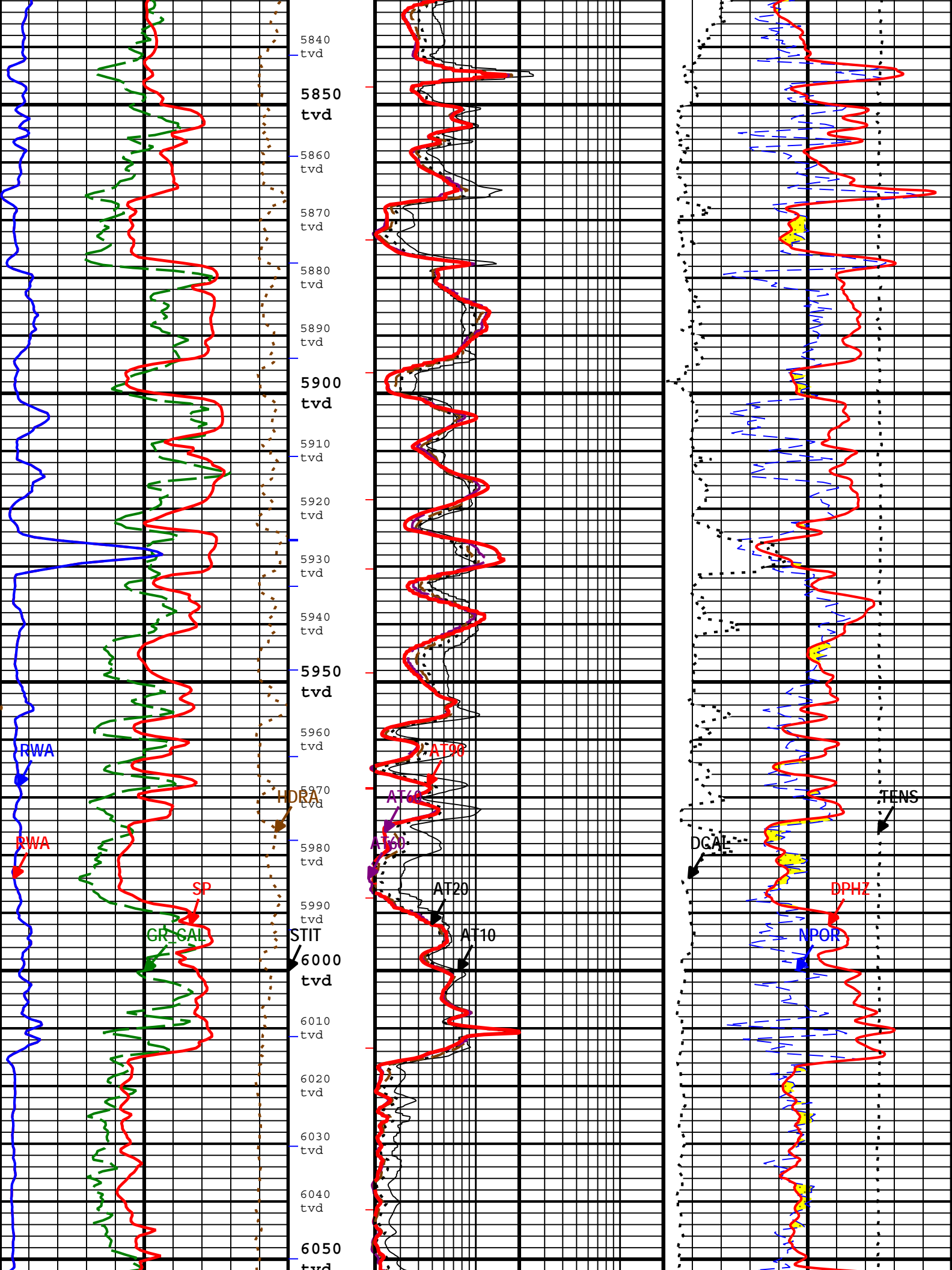


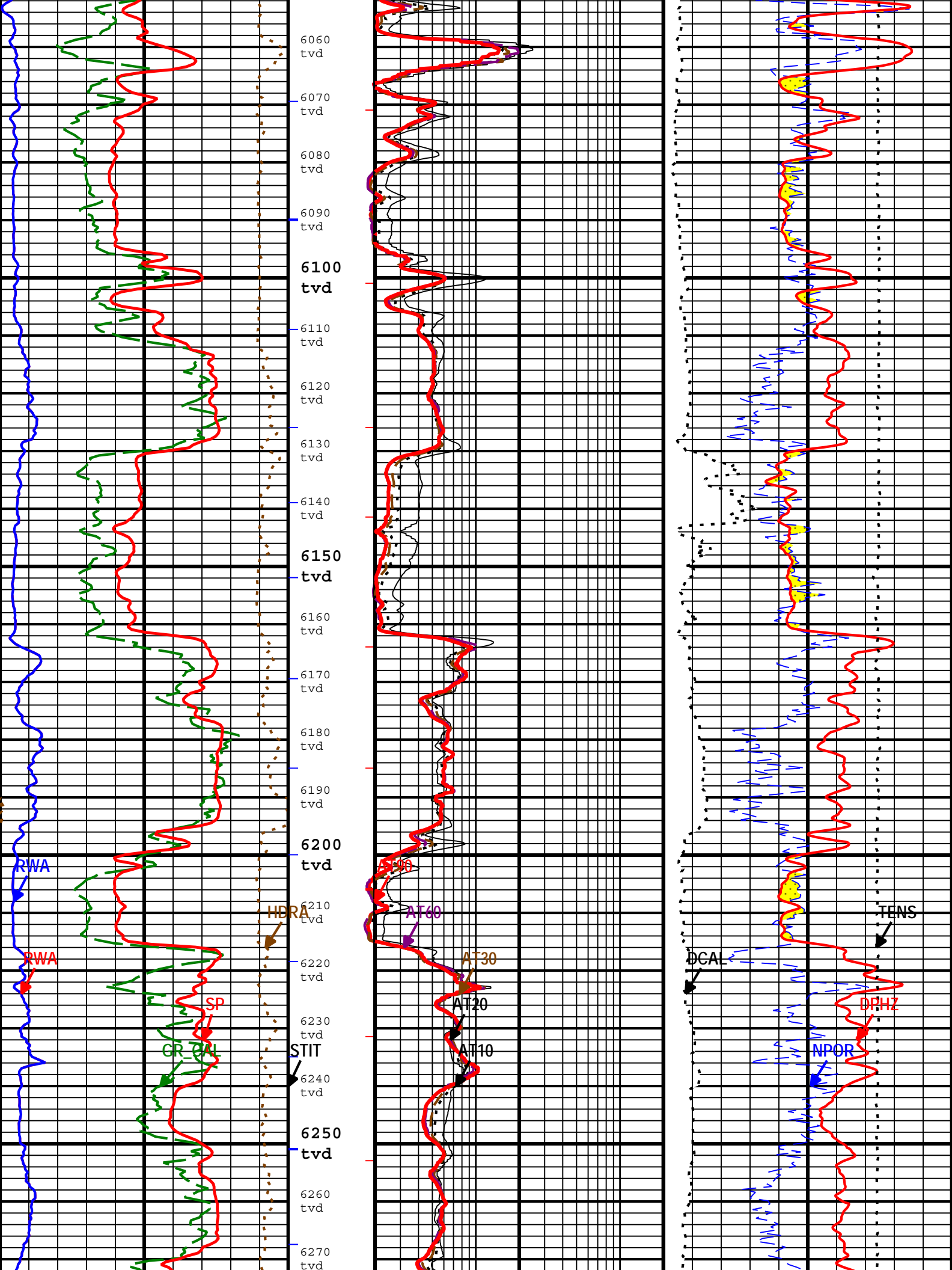


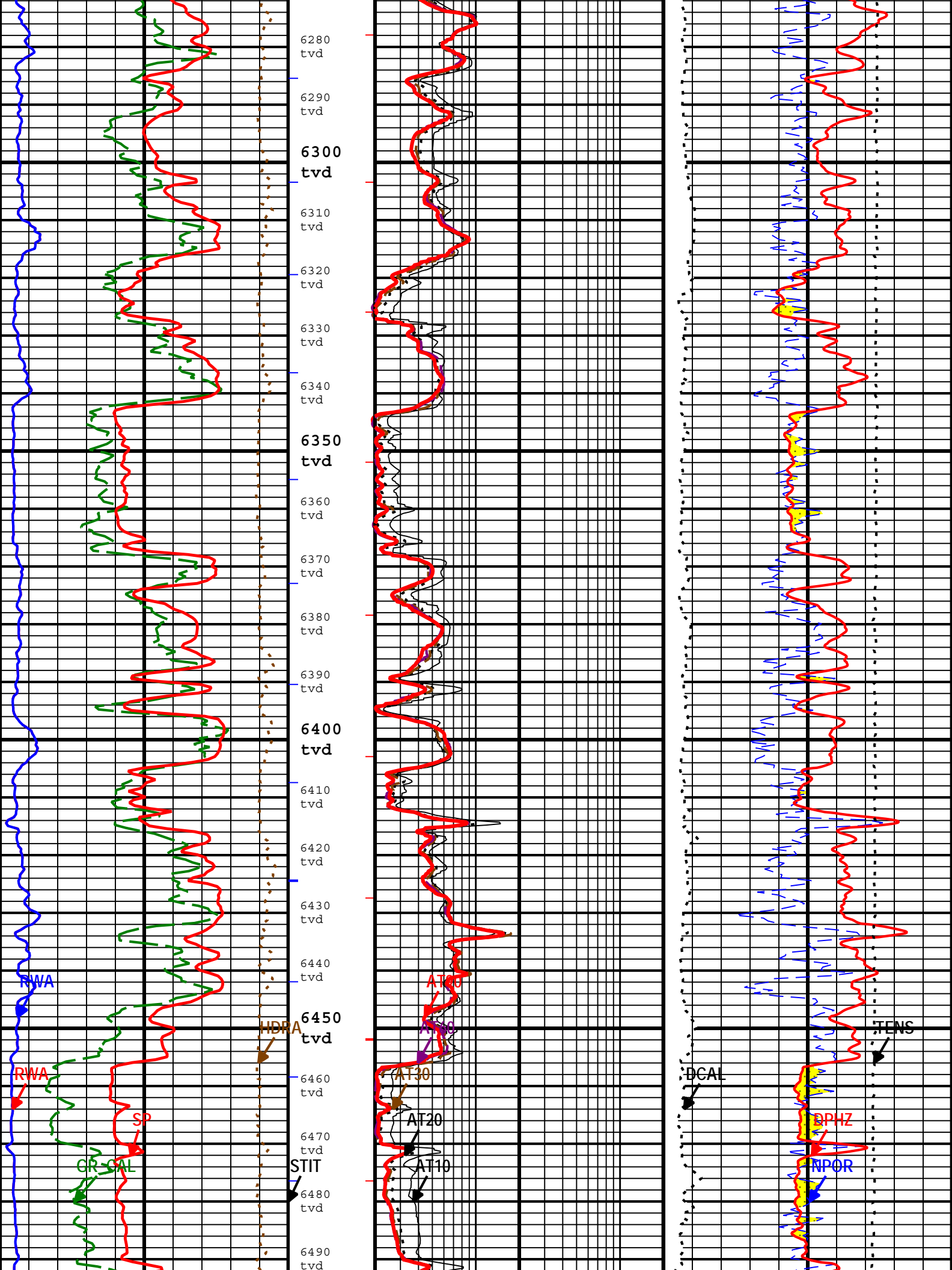


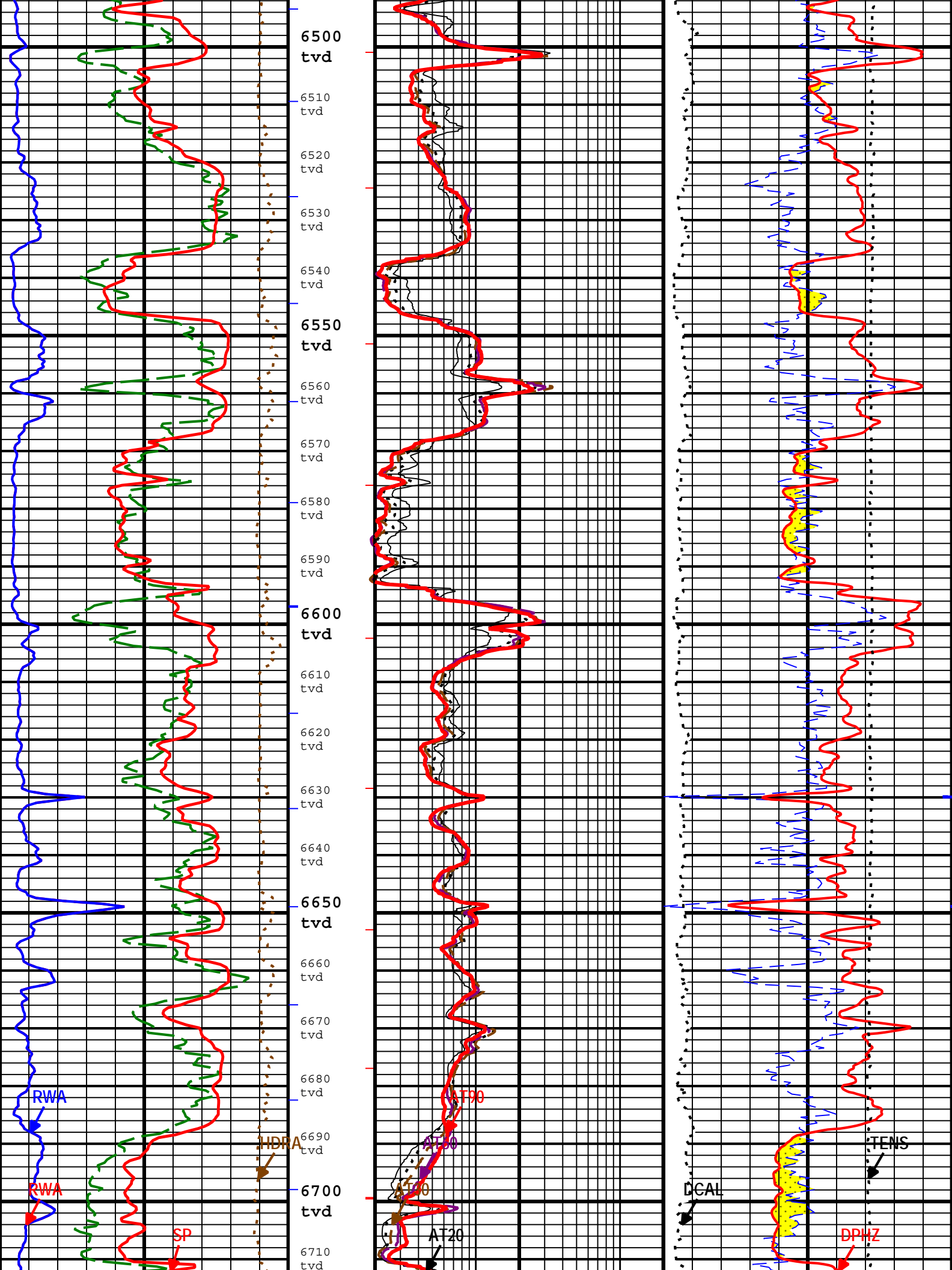


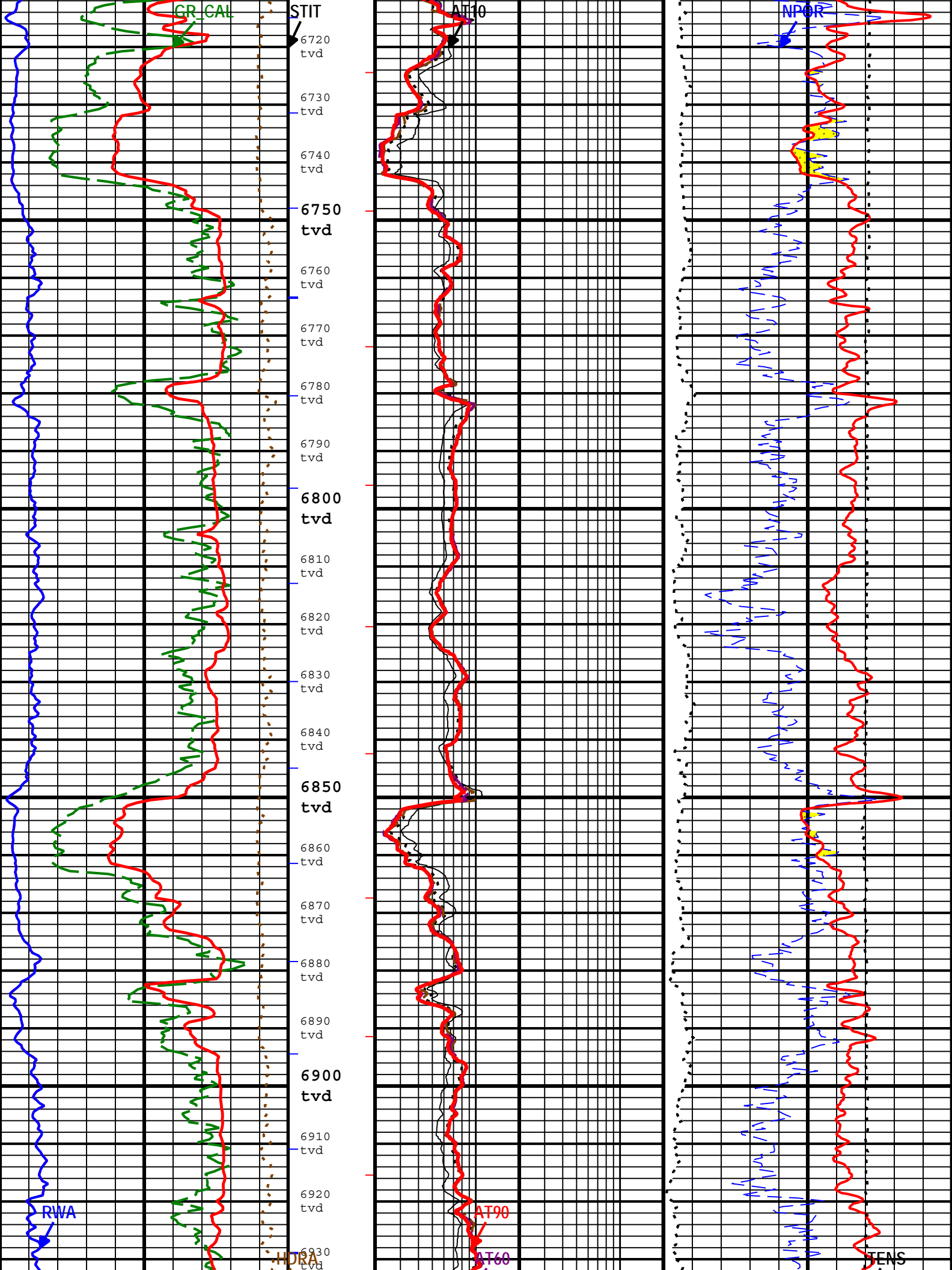


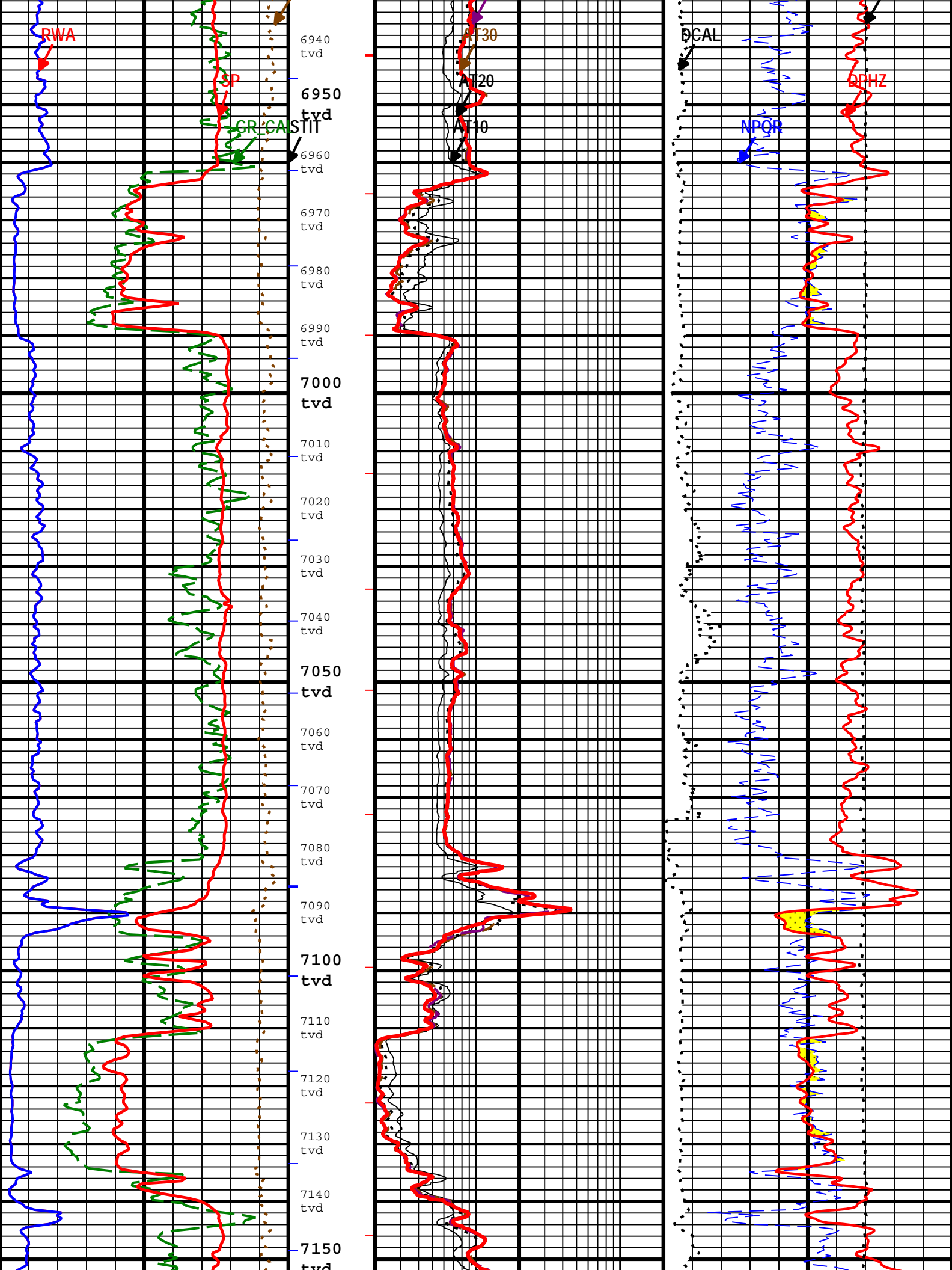


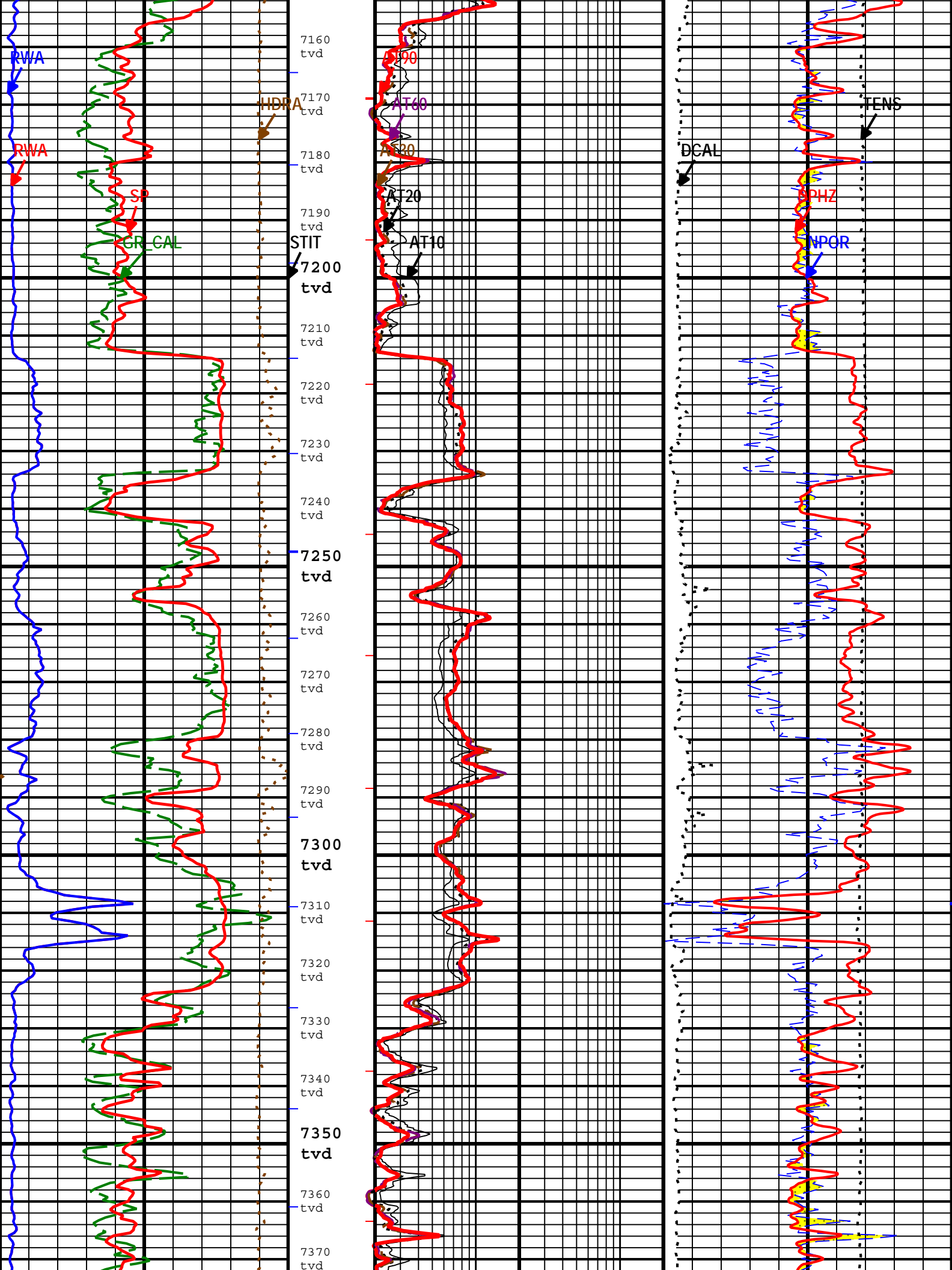


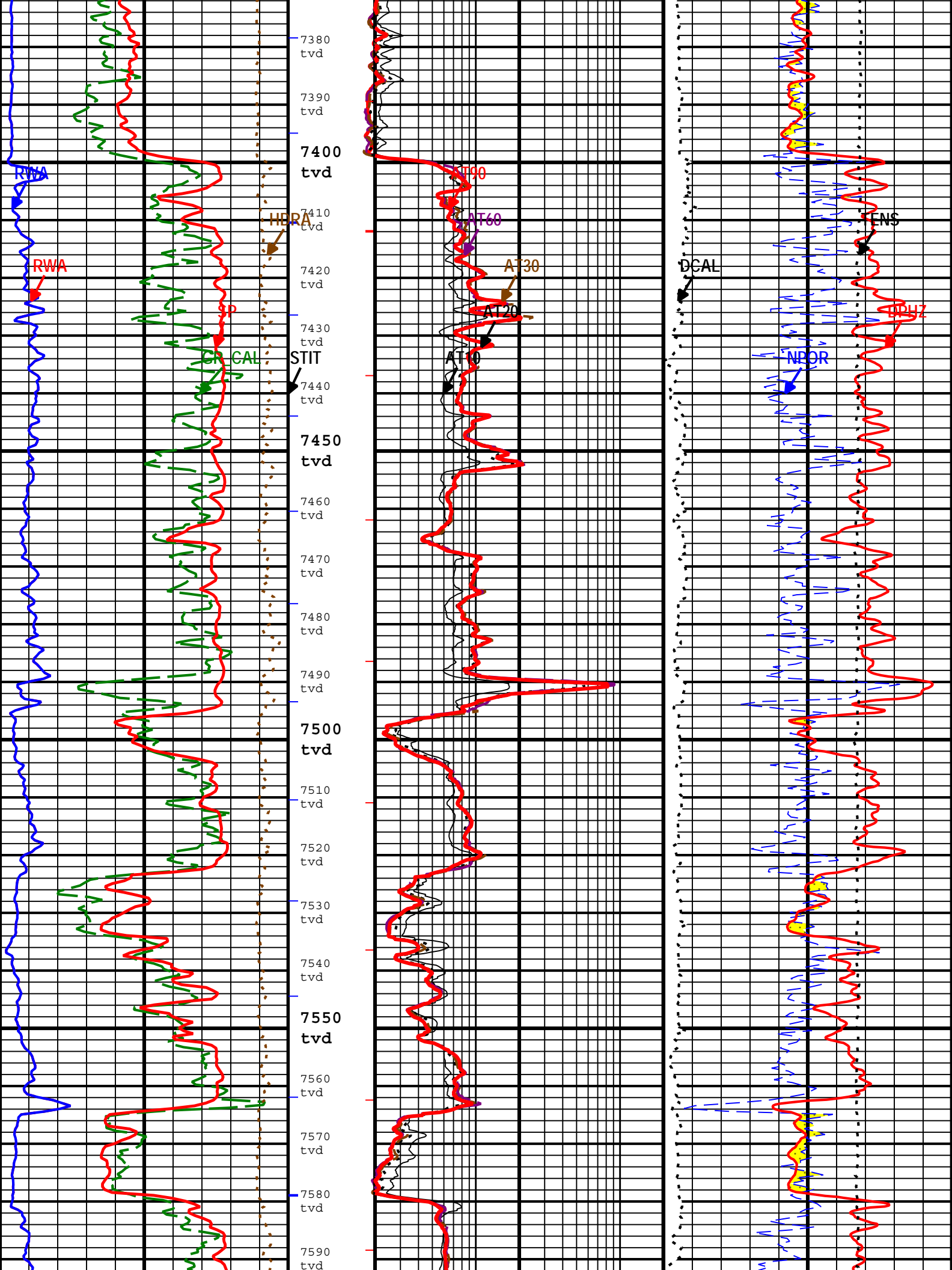


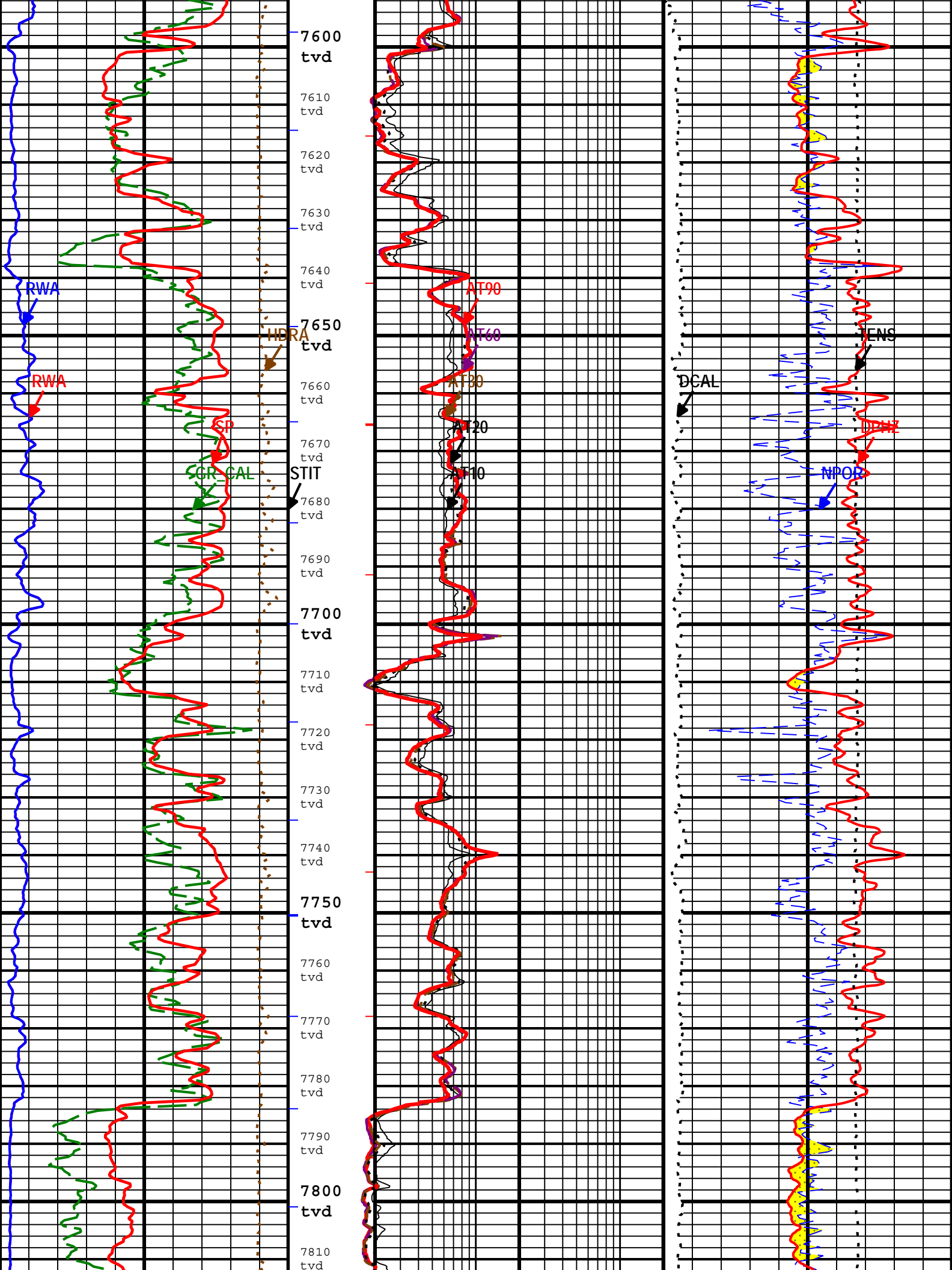


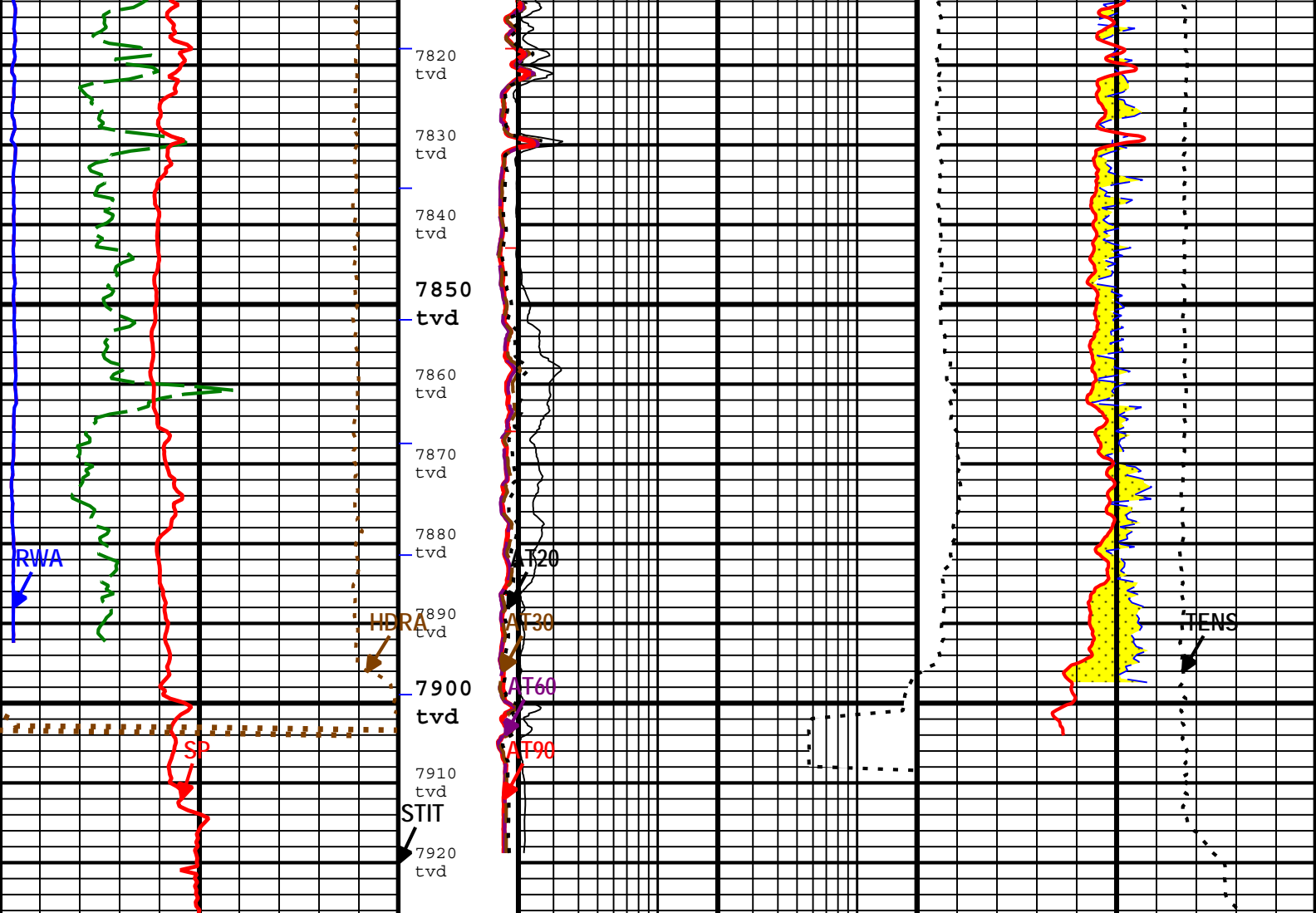












Calibrated Gamma Ray (GR_CAL) HGNS-H		
0	gAPI	150
Spontaneous Potential (SP) AIT-M		
-160	mV	40
Apparent Formation Water Resistivity (RWA)		
0	ohm.m	0.5
Density Standoff Correction (HDRA) HDRS-H		
-0.9	g/cm3	0.1
Apparent Formation Water Resistivity (RWA)		
0	ohm.m	0.5

Mudcake		
Array Induction Two Foot Resistivity A10 (AT10) AIT-M		
0.2	ohm.m	20
Array Induction Two Foot Resistivity A20 (AT20) AIT-M		
0.2	ohm.m	20
Array Induction Two Foot Resistivity A30 (AT30) AIT-M		
0.2	ohm.m	20
Array Induction Two Foot Resistivity A60 (AT60) AIT-M		
0.2	ohm.m	20
Array Induction Two Foot Resistivity A90 (AT90) AIT-M		
0.2	ohm.m	20
Differential Caliper (DCAL)		
-20	in	0

Cross Over		
Washout		
Enhanced Thermal Neutron Porosity in Selected Lithology (NPOR) HGNS-H		
0.6	ft3/ft3	0
Standard Resolution Density Porosity (DPHZ) HDRS-H		
0.6	ft3/ft3	0
Differential Caliper (DCAL)		
0	in	20
Cable Tension (TENS)		
10000	lbf	0

- |ICV - Integrated Cement Volume every 100.00 (ft3)
- |IHV - Integrated Hole Volume every 100.00 (ft3)
- |ICV - Integrated Cement Volume every 10.00 (ft3)

Description: Format: Log (GULFPORT_5INCH_TCOM_MAIN_PASS) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: TVD Creation Date: 09-Nov-2011 22:26:05

Channel Processing Parameters

Parameter	Description	ToolPath	Value	Unit
ABHM	Array Induction Borehole Correction Mode	AIT-M:AMIS:AMIS	Compute Standoff	
ABLM	Array Induction Basic Logs Mode	AIT-M:AMIS:AMIS	Normal	
ACDE	Array Induction Casing Detection Enable	AIT-M:AMIS:AMIS	No	
BARI	Barite Mud Presence Flag	Borehole	Yes	
BHS	Borehole Status (Open or Cased Hole)	Borehole	Open	
BHT	Bottom Hole Temperature	Borehole	163	degF
BS	Bit Size	COMPLETION	8.5	in
BSAL	Borehole Salinity	Borehole	30901.65	ppm
CALI_SHIFT	CALI Supplementary Offset	HDRS-H:HRCC-H:HRCC-H	0	in
CBLO	Casing Bottom (Logger)	COMPLETION	2521	ft
CDEN	Cement Density	HGNS-H:HGNS-H:HGNS-H	2	g/cm3
CSODDRL	Casing Outer Diameter - Zoned along driller depths	COMPLETION	Depth Zoned	in
DFD	Drilling Fluid Density	Borehole	9.4	lbm/gal
DFT	Drilling Fluid Type	Borehole	Water	
DFT_WATER	Drilling Fluid Water Type	Borehole	Fresh Water	
DHC	Density Hole Correction	HDRS-H:HRMS-H:HRGD-H	Bit Size	
EDF	Elevation of Derrick Floor Above Permanent Datum	WLSURVEY	13	ft
EPD	Elevation of Permanent Datum (PDAT) above Mean Sea Level	WLSURVEY	1	ft
FCD	Future Casing (Outer) Diameter	COMPLETION	5.5	in
FD	Fluid Density	Borehole	1	g/cm3
FSAL	Formation Salinity	Borehole	6126.75	ppm
GCSE_DOWN_PASS	Generalized Caliper Selection for WL Log Down Passes	Borehole	BS	
GCSE_UP_PASS	Generalized Caliper Selection for WL Log Up Passes	Borehole	CALI	
GGRD	Geothermal Gradient	Borehole	1	0.01 degF/ft
GRSE	Generalized Mud Resistivity Selection, from Measured or Computed Mud Resistivity	Borehole	REMS	
GTSE	Generalized Temperature Selection, from Measured or Computed Temperature	Borehole	GTEM_LINEST	
HSCO	Hole Size Correction Option	HGNS-H:HGNS-H:HGNS-H	Yes	
M	Exponent M of the Archie Formation Factor - Porosity Equation	Borehole	2	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	SANDSTONE	
MDEN	Matrix Density for Density Porosity	Borehole	2.65	g/cm3
MFST	Mud Filtrate Sample Temperature	Borehole	77	degF
MST	Mud Sample Temperature	Borehole	77	degF
N	N Exponent in SW Formula	Borehole	2	
PDAT	Permanent Datum	WLSURVEY	GL	
RMFS	Resistivity of Mud Filtrate Sample	Borehole	0.71	ohm.m
RMS	Resistivity of Mud Sample	Borehole	0.2	ohm.m
RW	Connate Water Resistivity	Borehole	1	ohm.m
SHT	Surface Hole Temperature	Borehole	0.83	degF
SP_SHIFT	SP Shift	AIT-M:AMIS:AMIS	100	mV
SPDR	SP Drift Per Foot	AIT-M:AMIS:AMIS	0	mV/ft
TD	Total Measured Depth	Borehole	8190	ft
TWS	Connate Water Temperature	Borehole	68	degF

Depth Zone Parameters

Parameter	Value	Start (ft)	Stop (ft)
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CSODDRL	[9.625]	2283.5	2521.11
CSODDRL	[0]	2521.11	7926.94

All depth are actual.

Tool Control Parameters

Parameter	Description	ToolPath	Value	Unit
HRGD_BRD_TYPE	HRGD Board Type	HDRS-H:HRMS-H:HRGD-H	WITH_HET	
MAX_LOG_SPEED	Toolstring Maximum Logging Speed	WLWorkflow	3600	ft/h

Company: Smith Production Co. **Schlumberger**

Well: Randall J Boudoin etal #1

Field: Little Cheniere

County: Cameron

Country: USA

Platform Express 5" = 100' TVD
 Array Induction - SP - GR
 Compensated Neutron - Litho Density