

# HALLIBURTON

## SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY

COMPANY		URSA OPERATING COMPANY	
WELL		WELL	
FIELD/BLOCK		FIELD/BLOCK	
COUNTY		COUNTY	
STATE		STATE	
Permanent Datum		GL	
Log measured from		KB	
Drilling measured from		KB	
Date		22-Dec-15	
Run No.		ONE	
Depth - Driller		7190.00 ft	
Depth - Logger		7148.0 ft	
Bottom - Logged Interval		7148.0 ft	
Top - Logged Interval		1755.0 ft	
Casing - Driller		8.625 in @ 1755.0 ft	
Casing - Logger		1755.0 ft	
Bit Size		7.875 in @	
Type Fluid in Hole		Water Based Mud	
Density		9.8 ppg 38.00 s/qt	
PH		9.30 pH N/A	
Source of Sample		MUD TANK	
Rm @ Meas. Temperature		1.230 ohmm @ 76.00 degF @	
Rmf @ Meas. Temperature		0.44 ohmm @ 72.00 degF @	
Rmc @ Meas. Temperature		1.540 ohmm @ 73.00 degF @	
Source Rmf		MEASURED MEASURED	
Rm @ BHT		0.55 ohmm @ 177.0 degF @	
Time Since Circulation		2.8 hr	
Time on Bottom		22-Dec-15 18:21:13.000	
Max. Rec. Temperature		177.0 degF @ 7148.0 ft @	
Equipment		11392047 R.S.WY	
Recorded By		B.HOYTAL	
Witnessed By		R.McNEILL	

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Service Ticket No.: 902997099				API Serial No.: 05045229150000				PGM Version: WL INSITE R4.6.4 (Build 3)							
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES									
Date		Sample No.				Type Log		Depth		Scale Up Hole		Scale Down Hole			
Depth-Driller															
Type Fluid in Hole															
Density		Viscosity													
Ph		Fluid Loss													
Source of Sample						RESISTIVITY EQUIPMENT DATA									
Rm @ Meas. Temp		@		@		Run No.		Tool Type & No.		Pad Type		Tool Pos.		Other	
Rmf @ Meas. Temp.		@		@		ONE		SACRT		N/A		0.25" S.O.		N/A	
Rmc @ Meas. Temp.		@		@				11577714							
Source Rmf		Rmc						11577718							
Rm @ BHT		@		@											
Rmf @ BHT		@		@											
Rmc @ BHT		@		@											
EQUIPMENT DATA															
GAMMA				ACOUSTIC				DENSITY				NEUTRON			
Run No.		ONE		Run No.				Run No.		ONE		Run No.		ONE	
Serial No.		11790910		Serial No.				Serial No.		11581727		Serial No.		11790665	
Model No.		S4TG		Model No.				Model No.		SSDL		Model No.		SDSN	
Diameter		2.35"		No. of Cent.				Diameter		2.35"		Diameter		2.35"	
Detector Model No.		S4TG		Spacing				Log Type		GAMMA		Log Type		THERMAL	
Type		SCINT.						Source Type		Cs137		Source Type		Am241Be	
Length		8"		LSA [Y/N]				Serial No.		5265GW		Serial No.		08-040	
Distance to Source		7'		FWDA [Y/N ]				Strength		5265GW		Strength		15 Ci	
LOGGING DATA															

GENERAL			GAMMA		ACOUSTIC			DENSITY			NEUTRON			
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	7148	1755	REC	0	200				0.3decp	-0.1decp	2.68 g/cc	0.3decp	-0.1decp	SAND
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: TOOL STRING CONFIGURATION: SBLT-C/SBLT-S/SMCSA/SBLT-B/SBLT-I/S4TG/SDSN/SSDL/SACRT/SBN														
ANNULAR HOLE VOLUME CALCULATED USING 4.5-INCH CASING														
SDSN DECENTRALIZER AND SACRT STANDOFFS WERER NOT USED DUE TO CONVEYANCE METHOD														
DEPTH BASED ON DRILLER'S DEPTH AQUIRED THROUGH PASON														
ULTRASLIM SMART CONVEYANCE USED FOR LOGGING METHOD														
LATITUDE: 39.447791° N														
LONGITUDE: 108.012356° W														
CREW: B. ERICKSON & T. HOWELL														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES - VERNAL, UT (435) 781-5517								RIG: CAPSTAR #321						
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.														
HALLIBURTON														



# PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.800	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	SHARED	BSAL	Borehole salinity	1300.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	2.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	4.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	7190.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	S4TG	
	SHARED	TEMM	Temperature Master Tool	NONE	
	S4TG	GROK	Process Gamma Ray?	Yes	
	S4TG	GRSO	Gamma Tool Standoff	0.000	in
	S4TG	GEOK	Process Gamma Ray EVR?	No	
	S4TG	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
	S4TG	BHSM	Borehole Size Source Tool	SSDL	

SDSN	DNOK	Process DSN?	Yes	
SDSN	DEOK	Process DSN EVR?	No	
SDSN	NLIT	Neutron Lithology	Sandstone	
SDSN	DNSO	DSNTool Standoff	0.000	in
SDSN	DNTP	Temperature Correction Type	None	
SDSN	DPRS	DSN Pressure Correction Type	None	
SDSN	SHCO	View More Correction Options	No	
SDSN	UTVD	Use TVD for Gradient Corrections?	No	
SDSN	LHWT	Logging Horizontal Water Tank?	No	
SDSN	USND	Use Var StandOff?	No	
SDSN	BHSM	Borehole Size Source Tool	SSDL	
SSDL	CLOK	Process Caliper Outputs?	Yes	
SSDL Pad	DNOK	Process Density?	Yes	
SSDL Pad	DNOK	Process Density EVR?	No	
SSDL Pad	CB	Logging Calibration Blocks?	No	
SSDL Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SSDL Pad	DTWN	Disable temperature warning	No	
SSDL Pad	MLPE	Mute Large Pe's? (Recommended Yes-Liquid, No-Air)	Yes	
SSDL Pad	DMA	Formation Density Matrix	2.680	g/cc
SSDL Pad	DFL	Formation Density Fluid	1.000	g/cc
SSDL Pad	BHSM	Borehole Size Source Tool	SSDL	
SACRT Sonde	RTOK	Process ACRT?	Yes	
SACRT Sonde	MNSO	Minimum Tool Standoff	0.25	in
SACRT Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
SACRT Sonde	TPOS	Tool Position	Eccentered	
SACRT Sonde	RMOP	Rmud Source	Mud Cell	
SACRT Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
SACRT Sonde	RMIN	Maximum Resistivity for MAP	200.00	ohmm
SACRT Sonde	THQY	Threshold Quality	0.50	
SACRT Sonde	MRFX	Fixed mud resistivity	2000	ohmm
SACRT Sonde	BHSM	Borehole Size Source Tool	SSDL	
SACRT Sonde	MBFL	Apply Corkscrew Effect?	No	
BOTTOM_____				
Data: MONU_R_B_USC\0001 USC_TRIPLE\004.03 23-Dec-15 04:23 Up				Date: 23-Dec-15 04:47:55

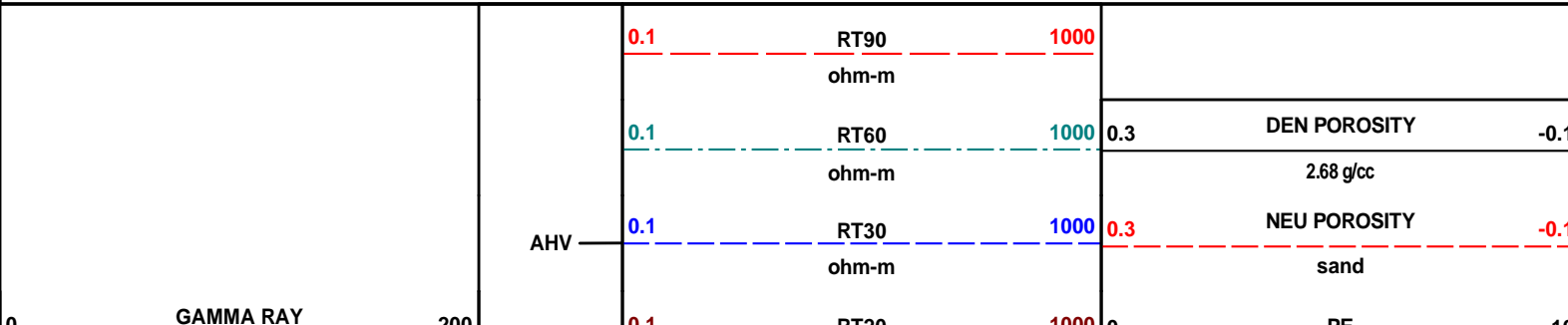
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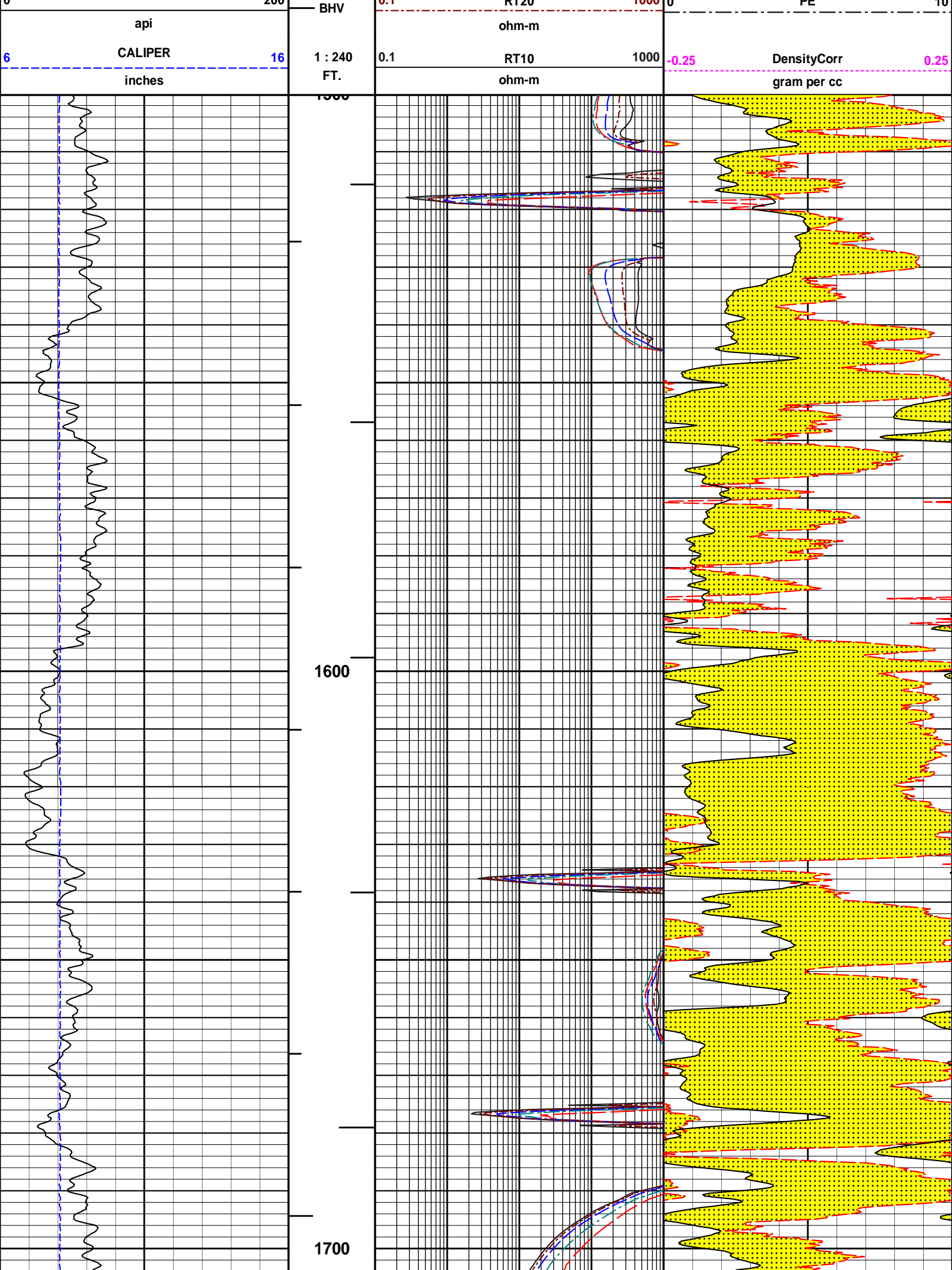
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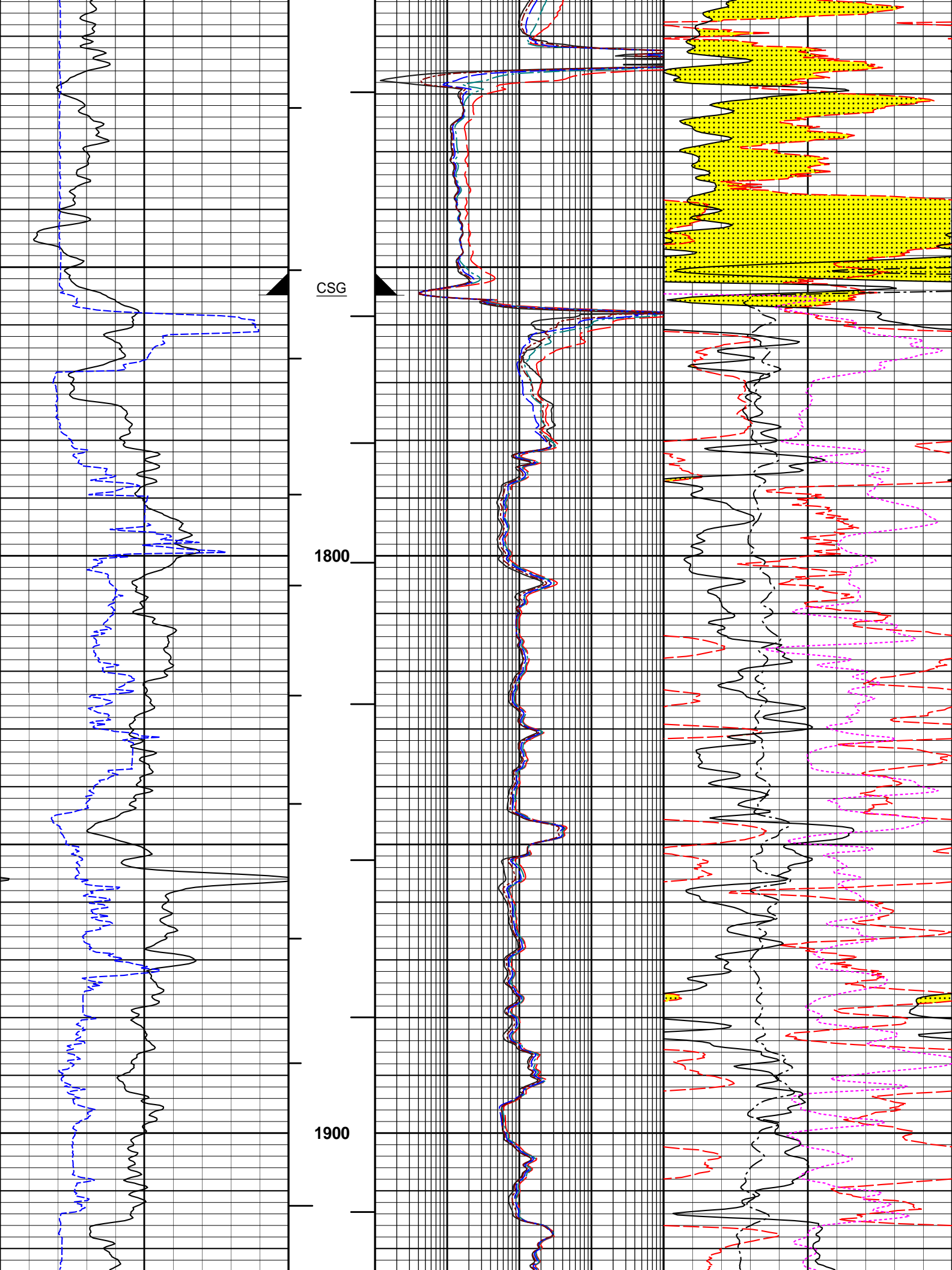
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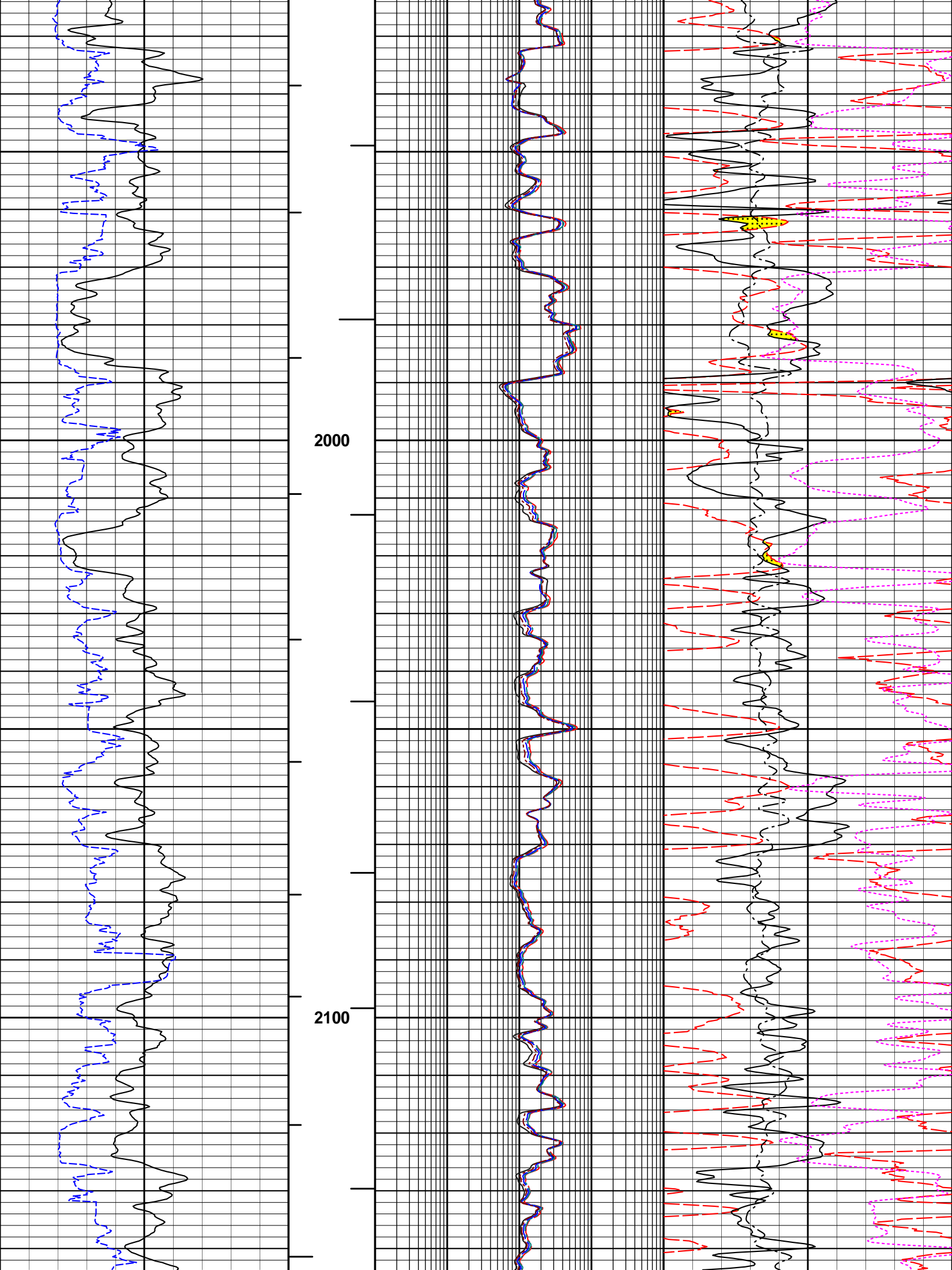
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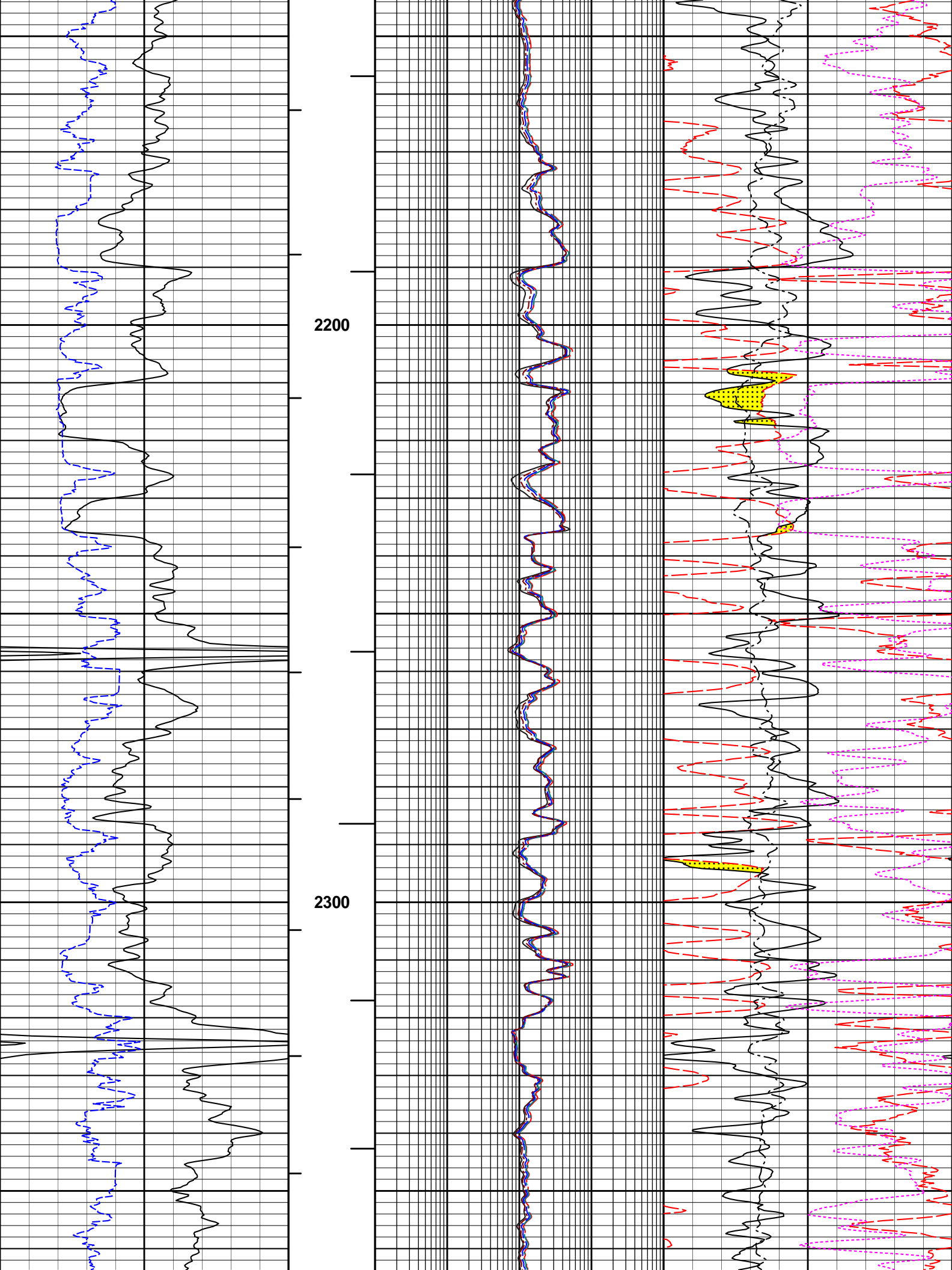
MAIN PASS 5" = 100'



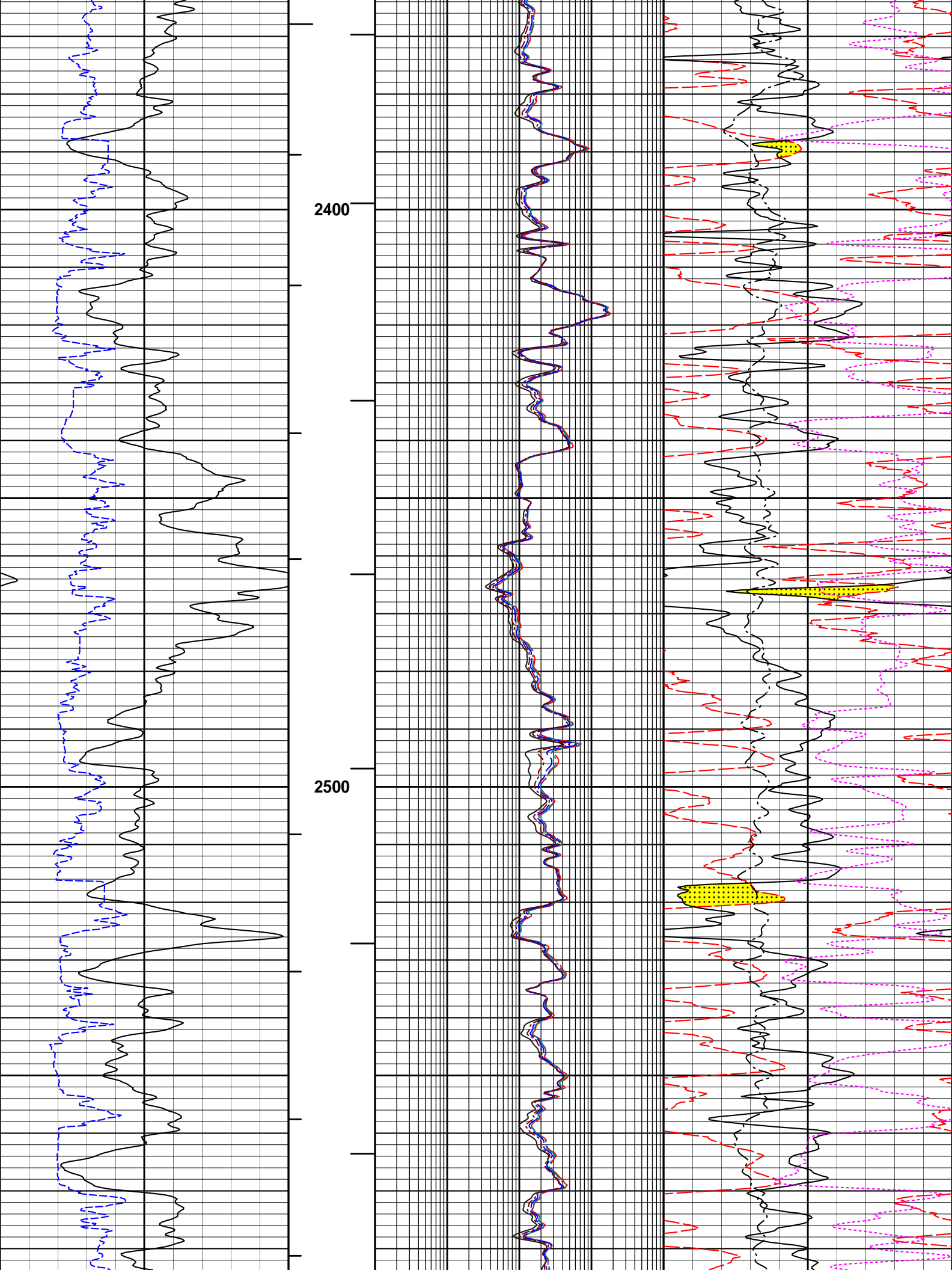




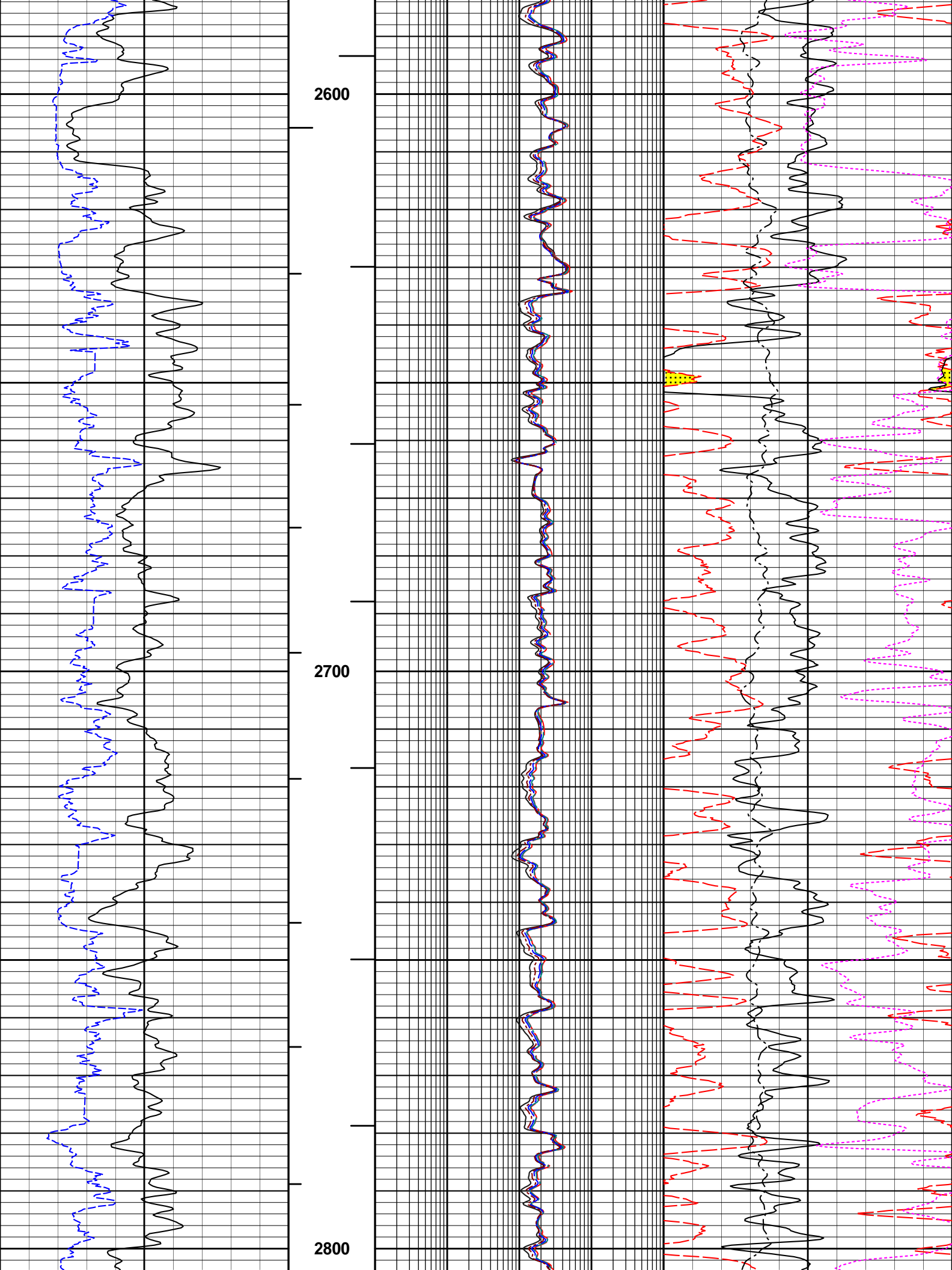


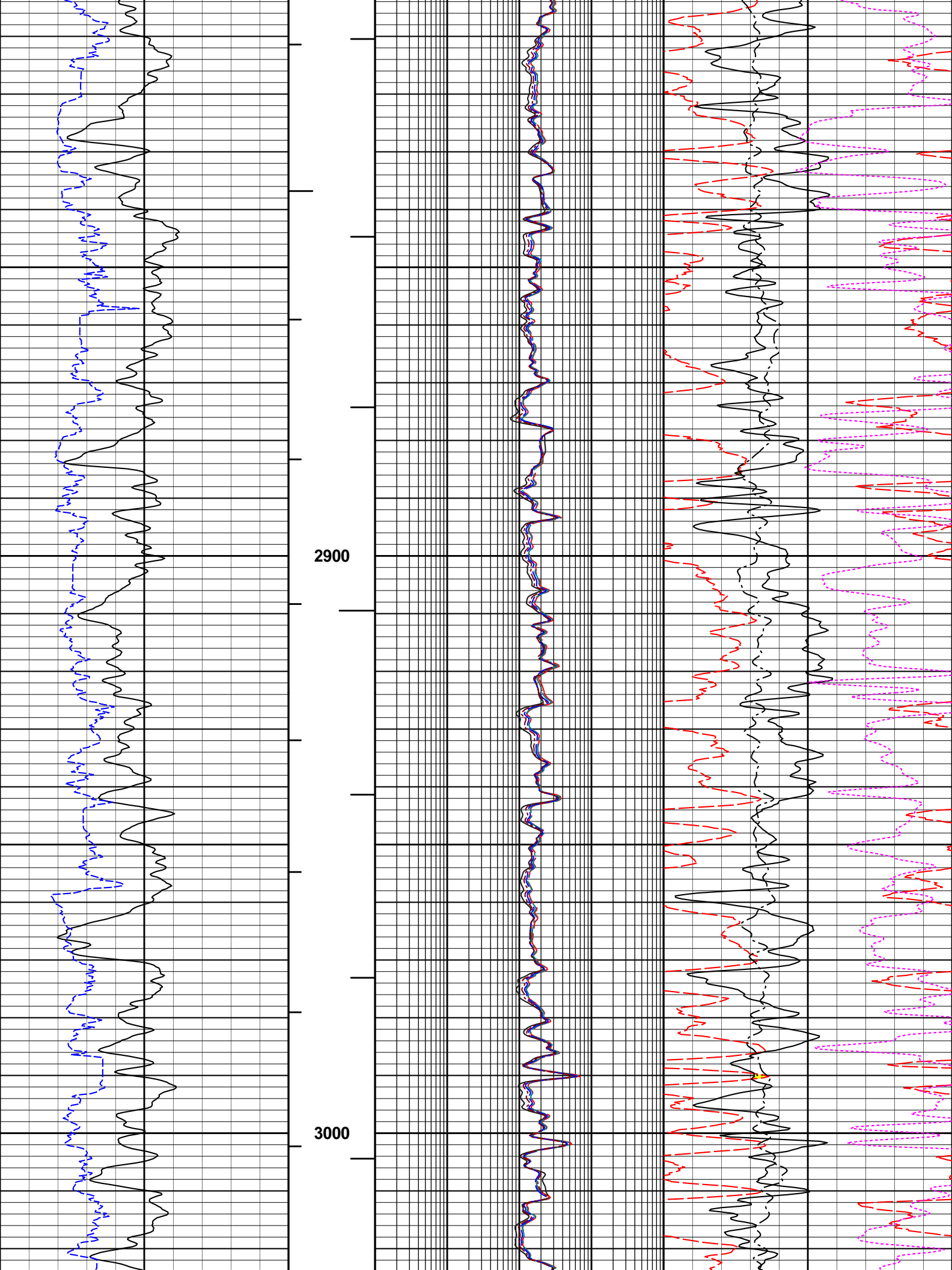


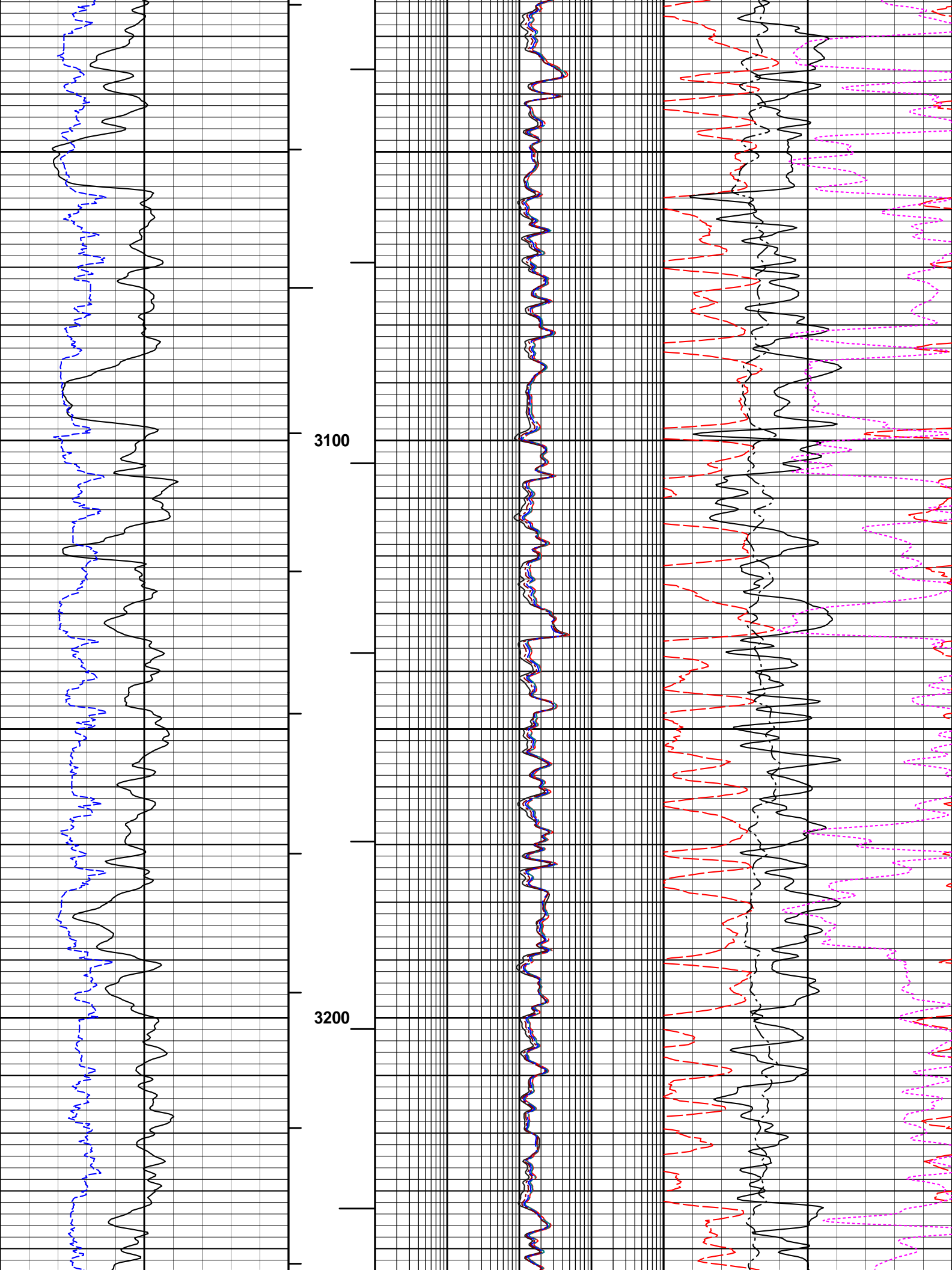


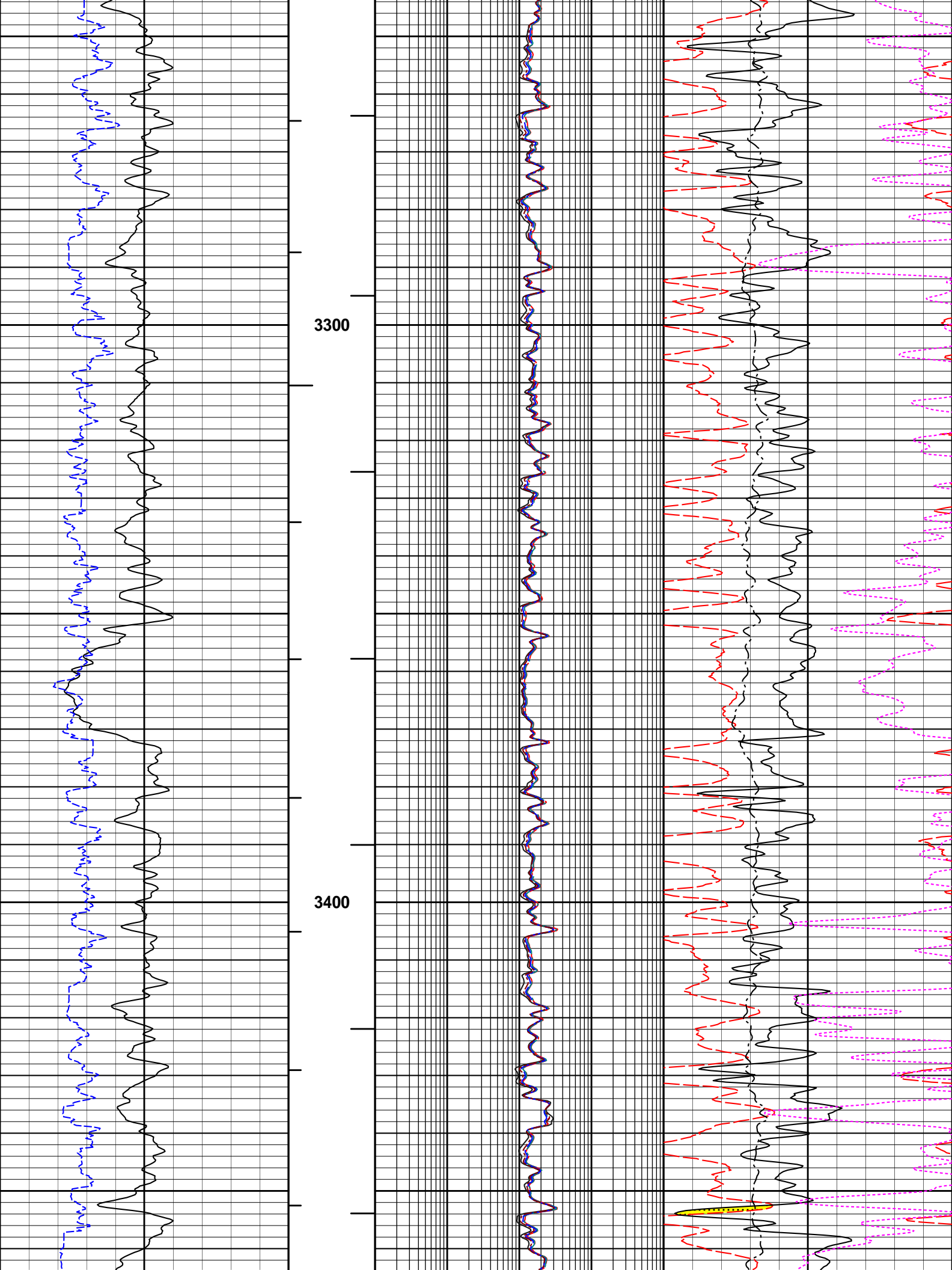


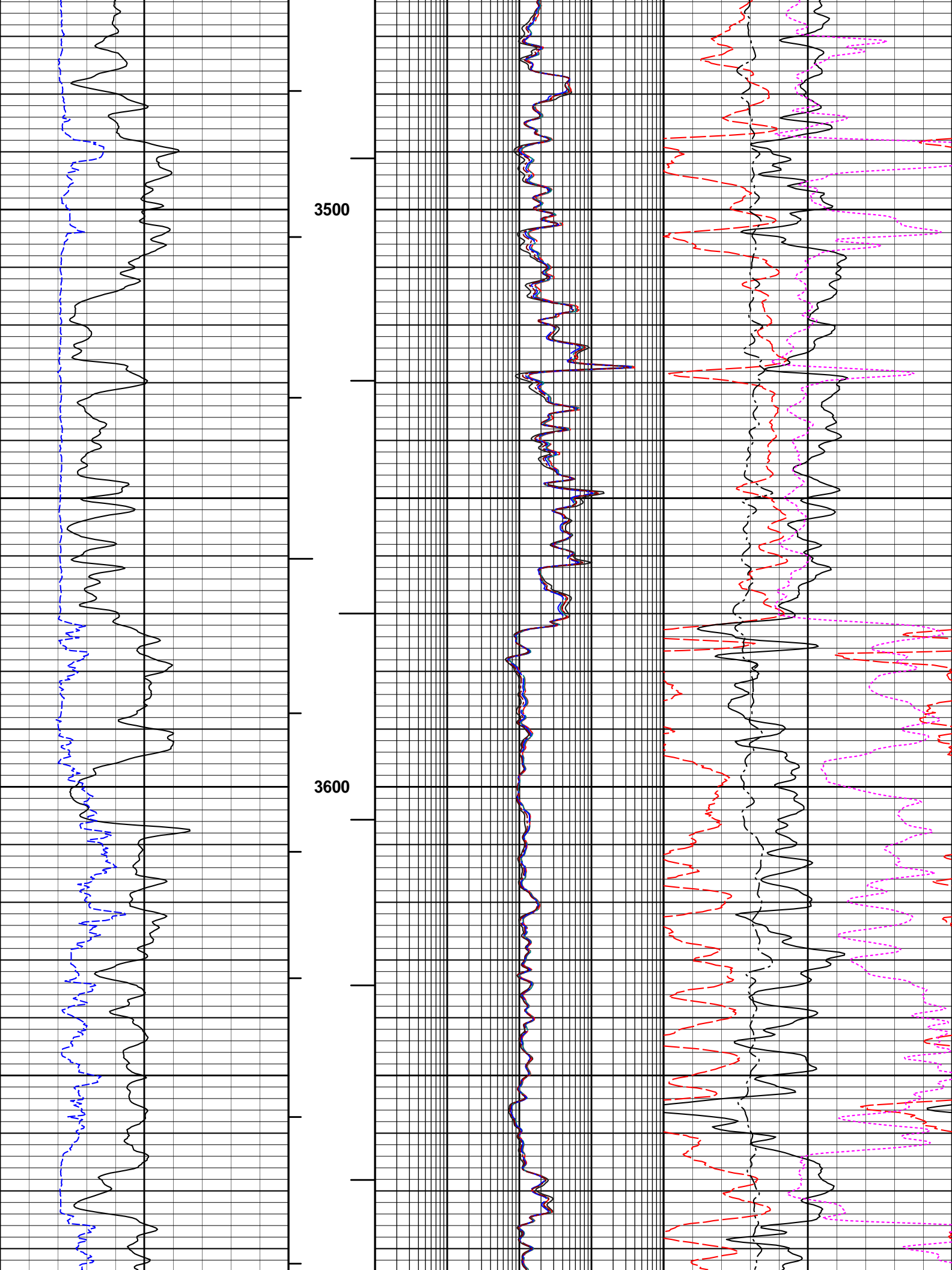


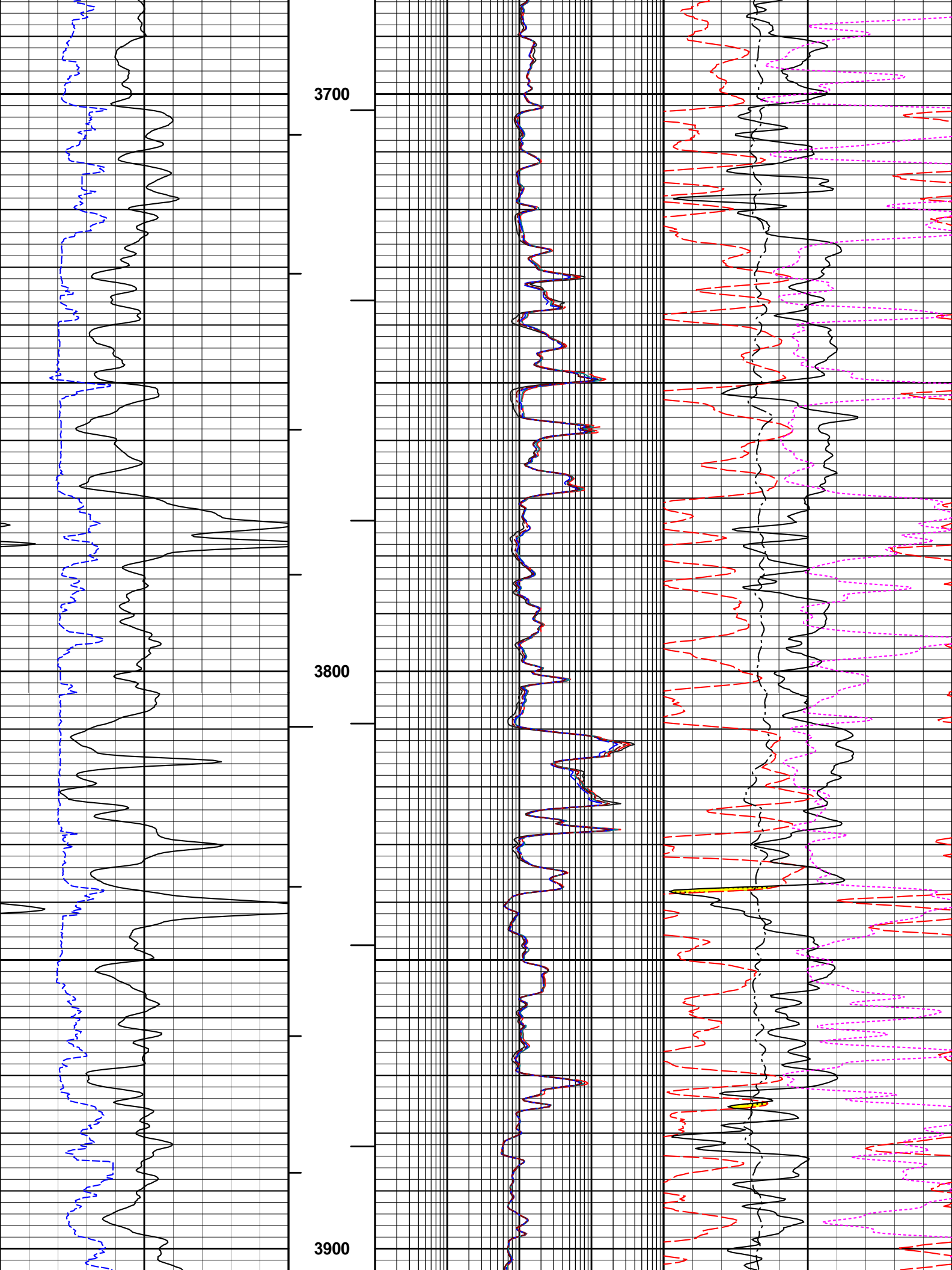


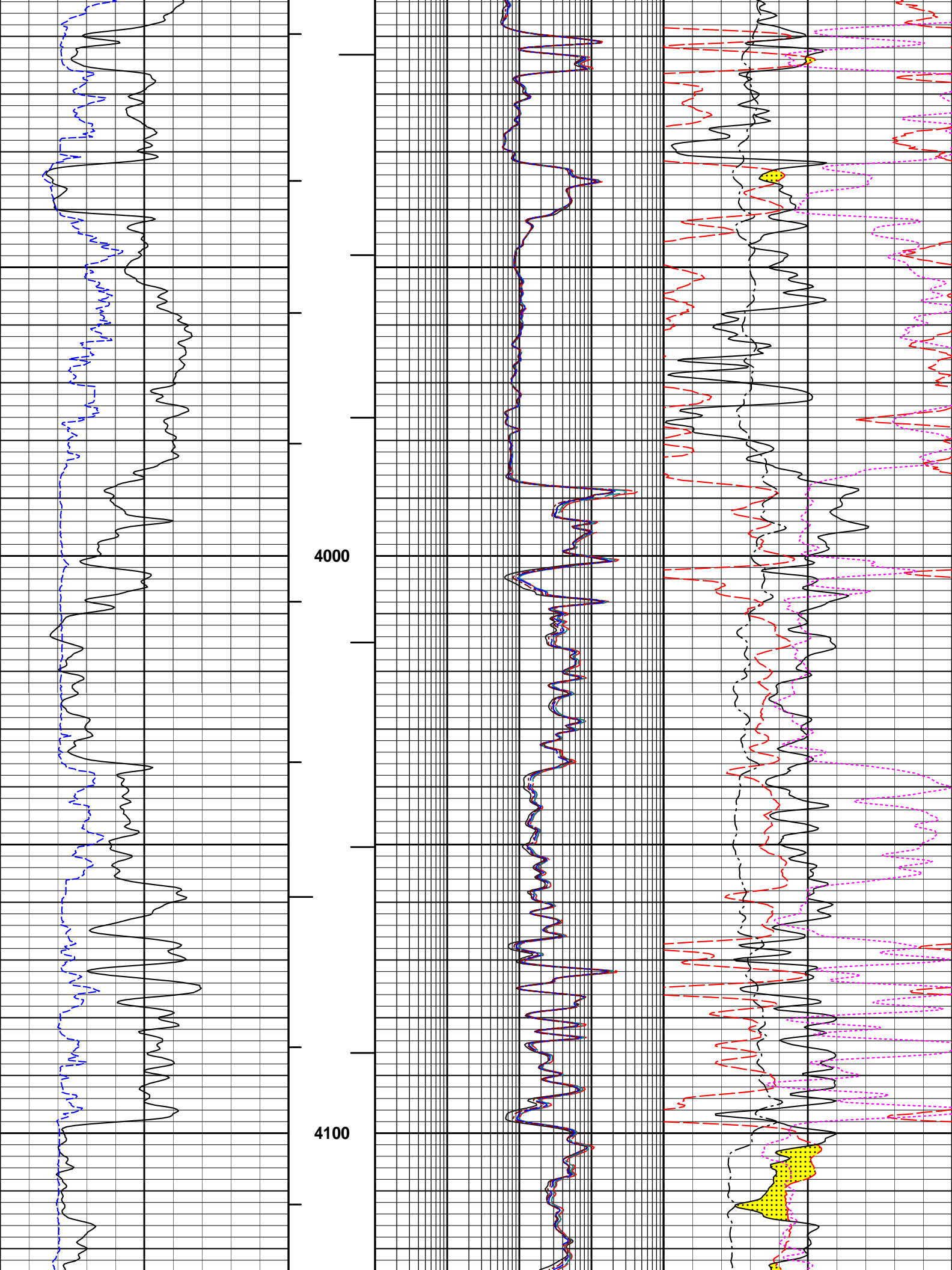




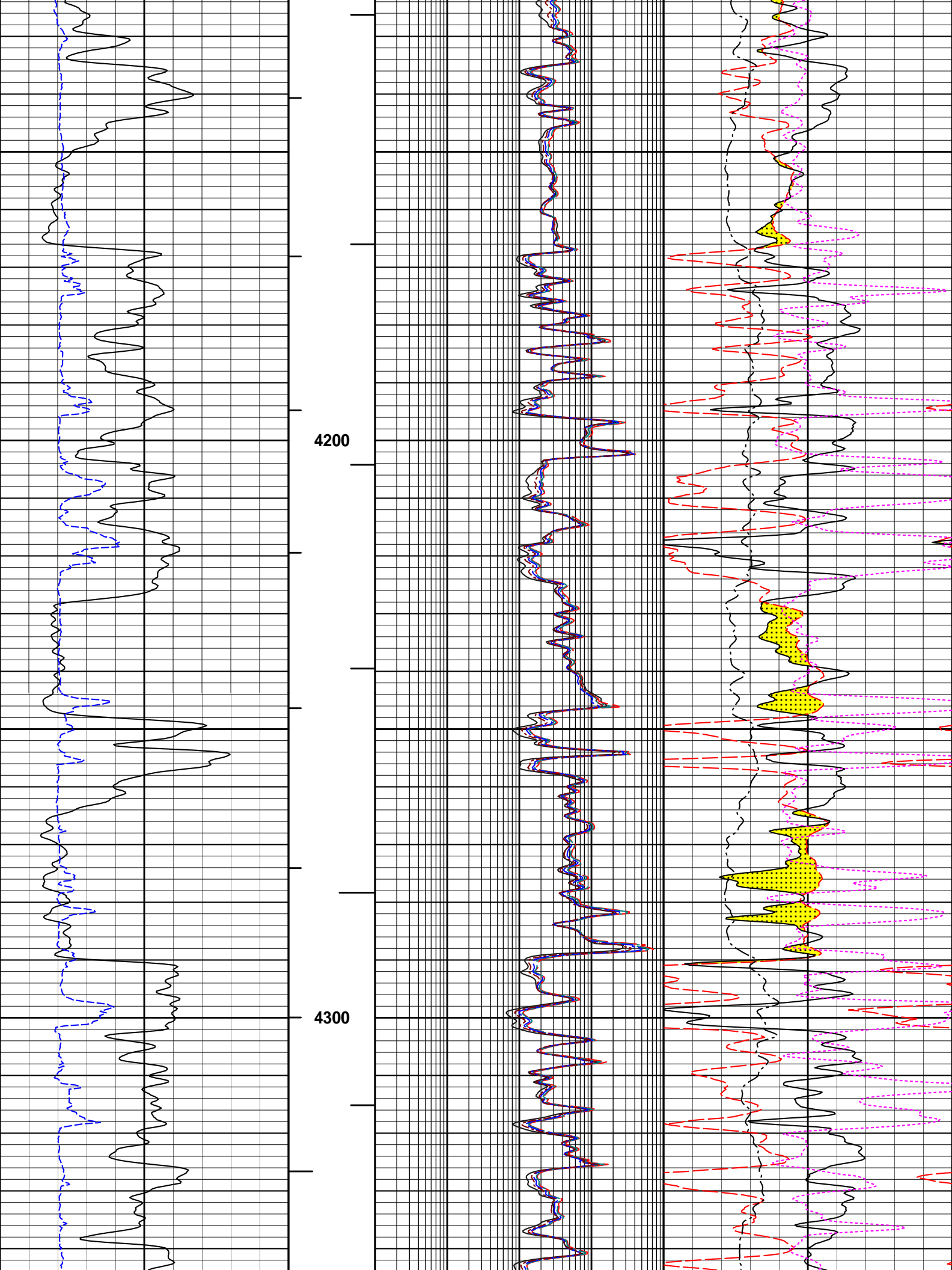


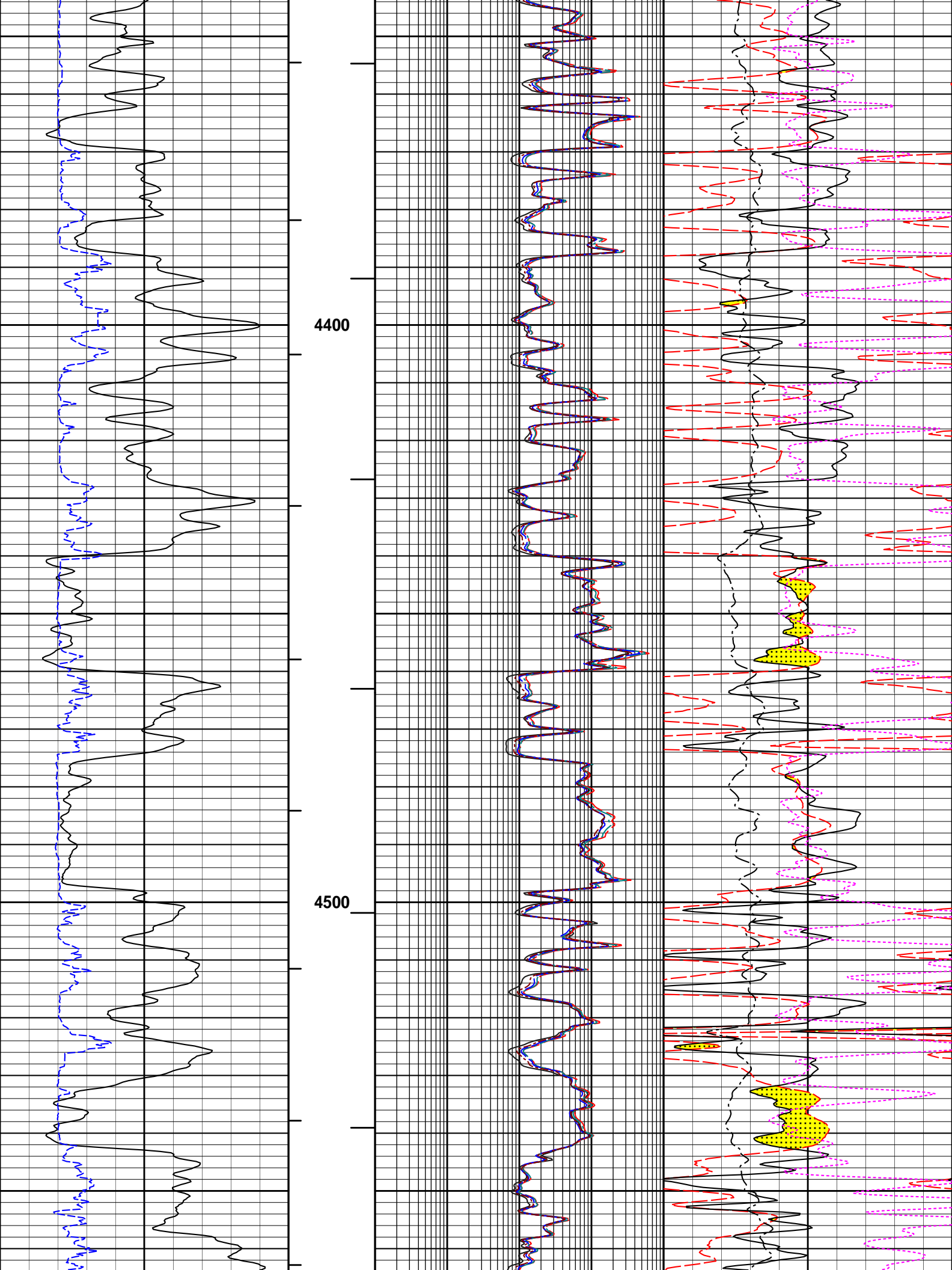


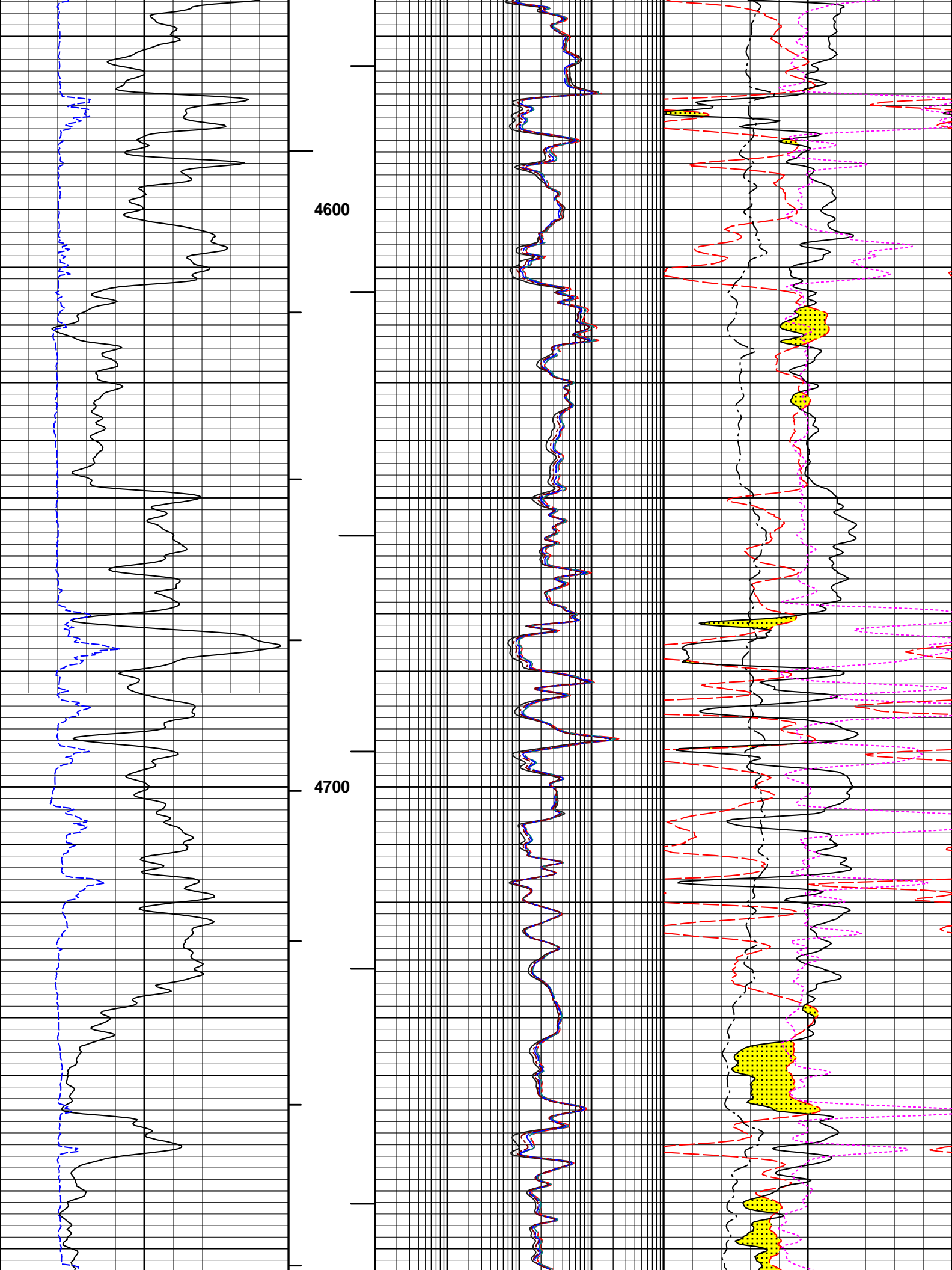


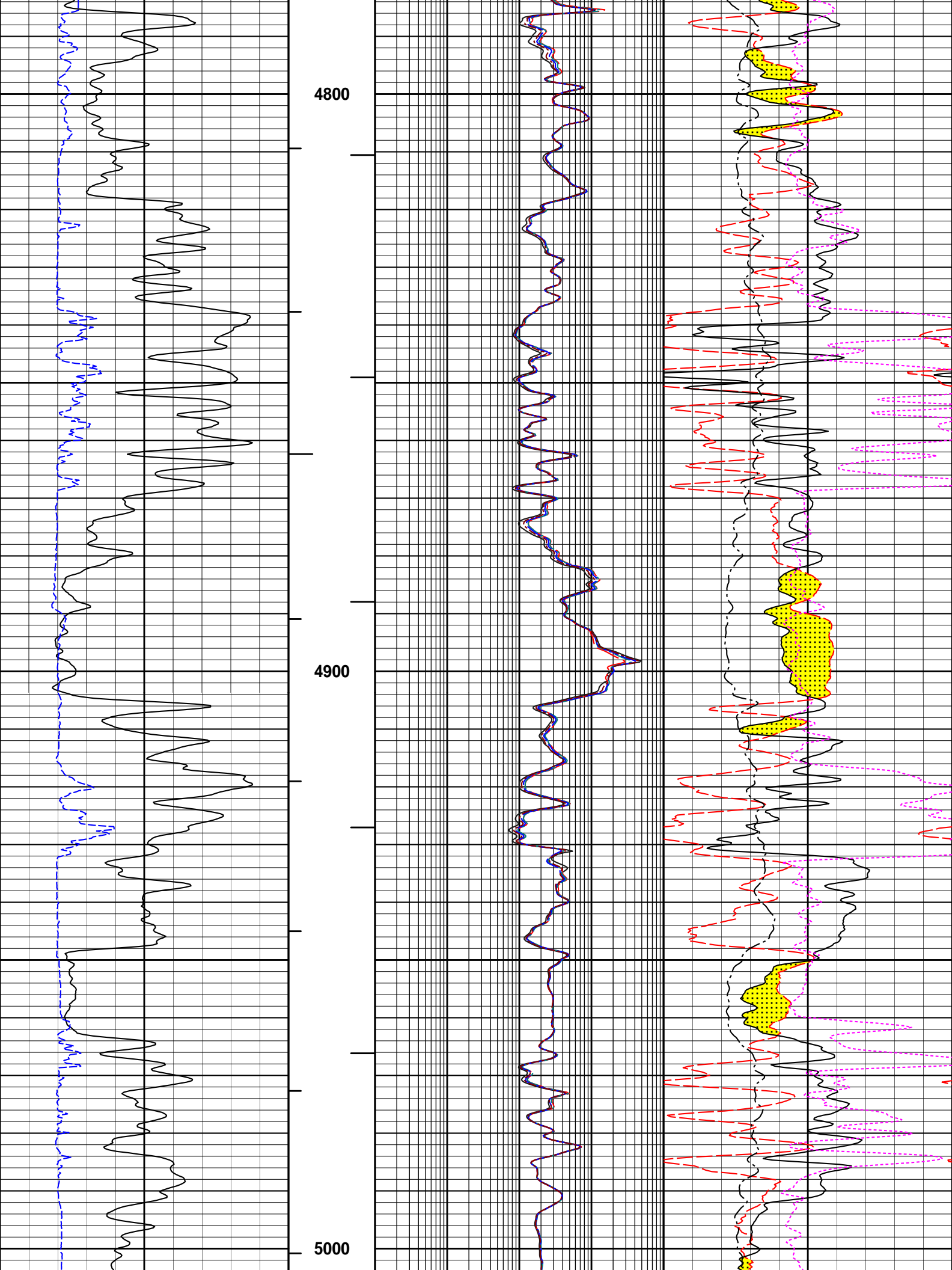


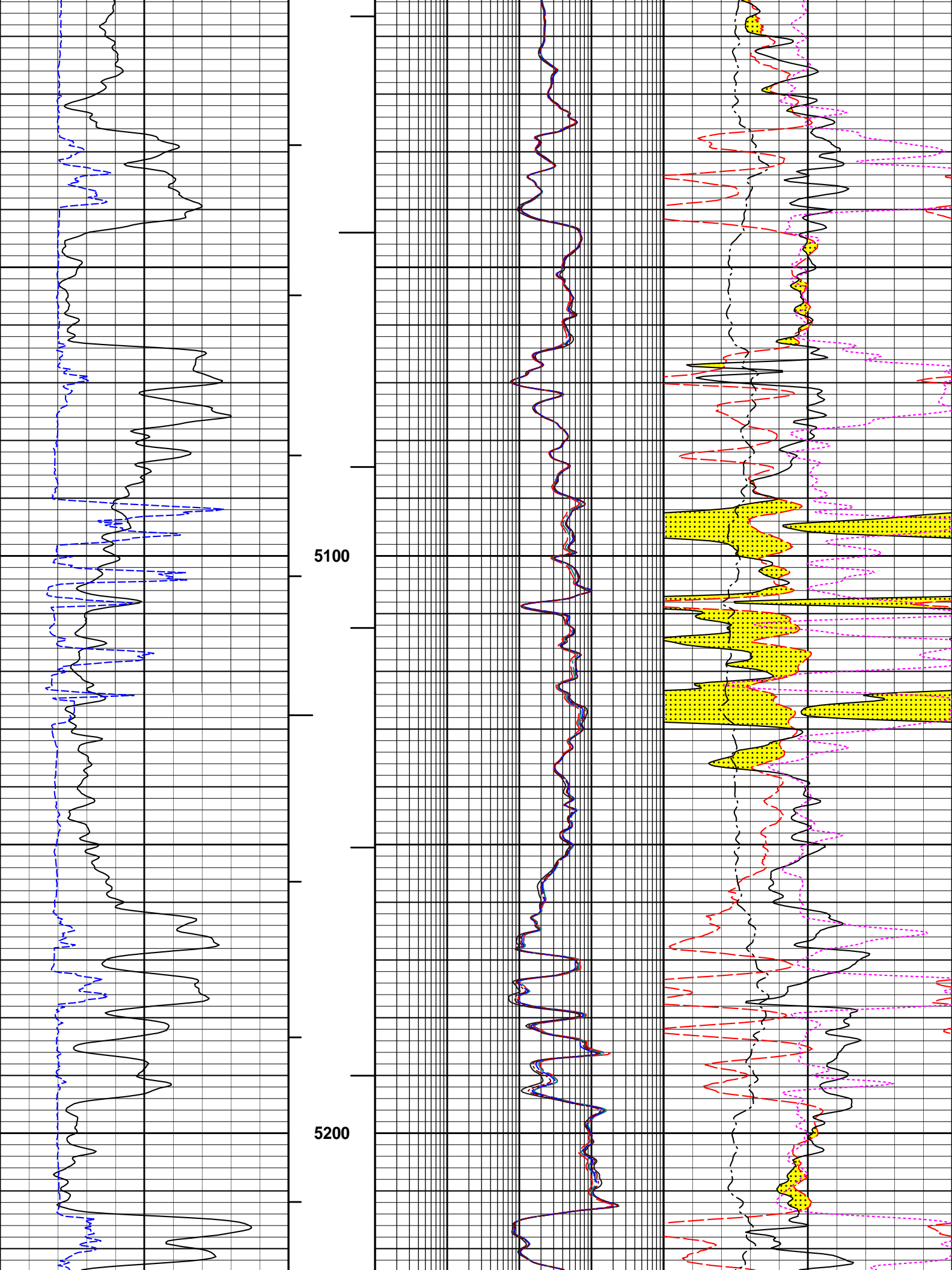


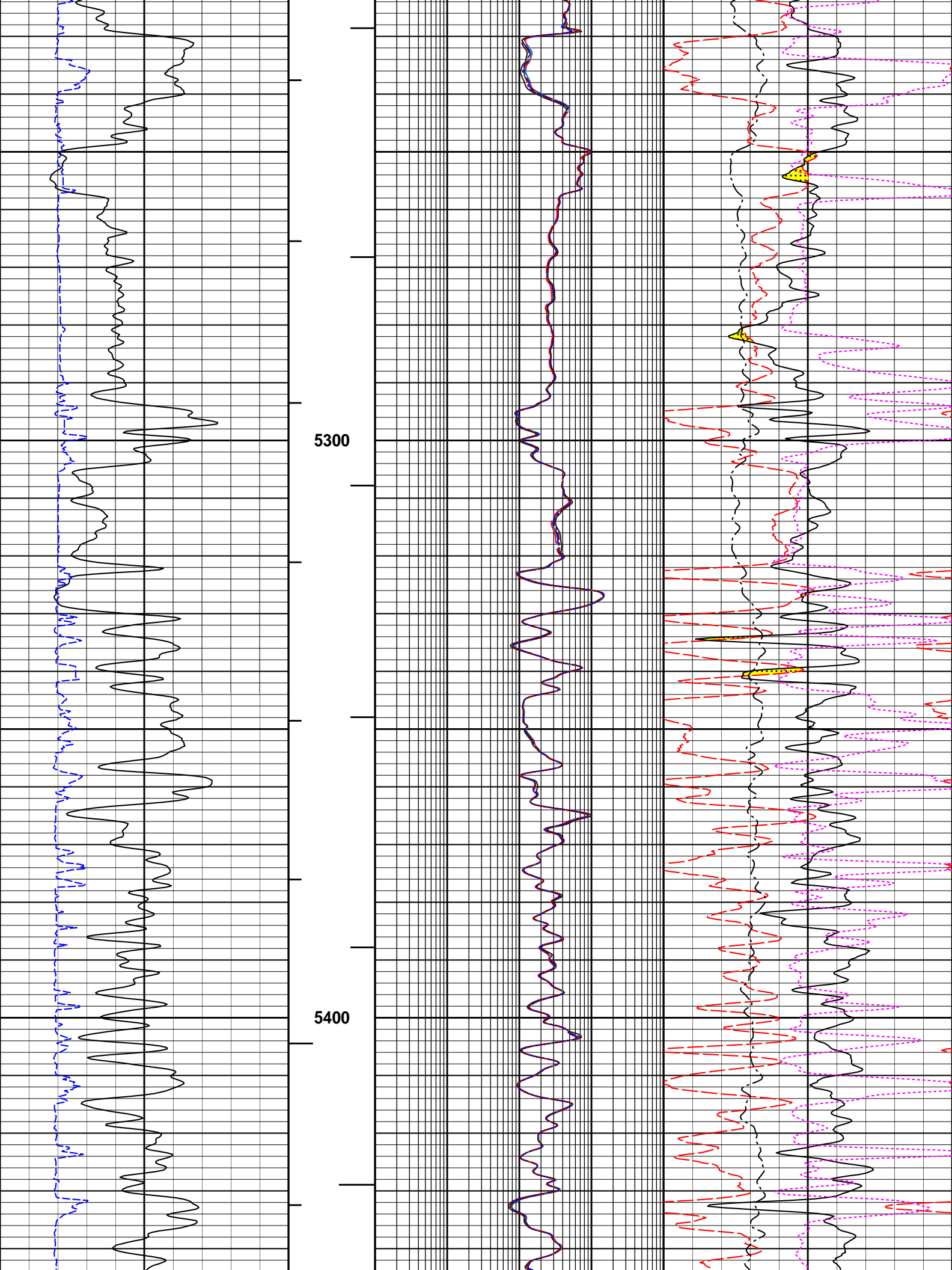


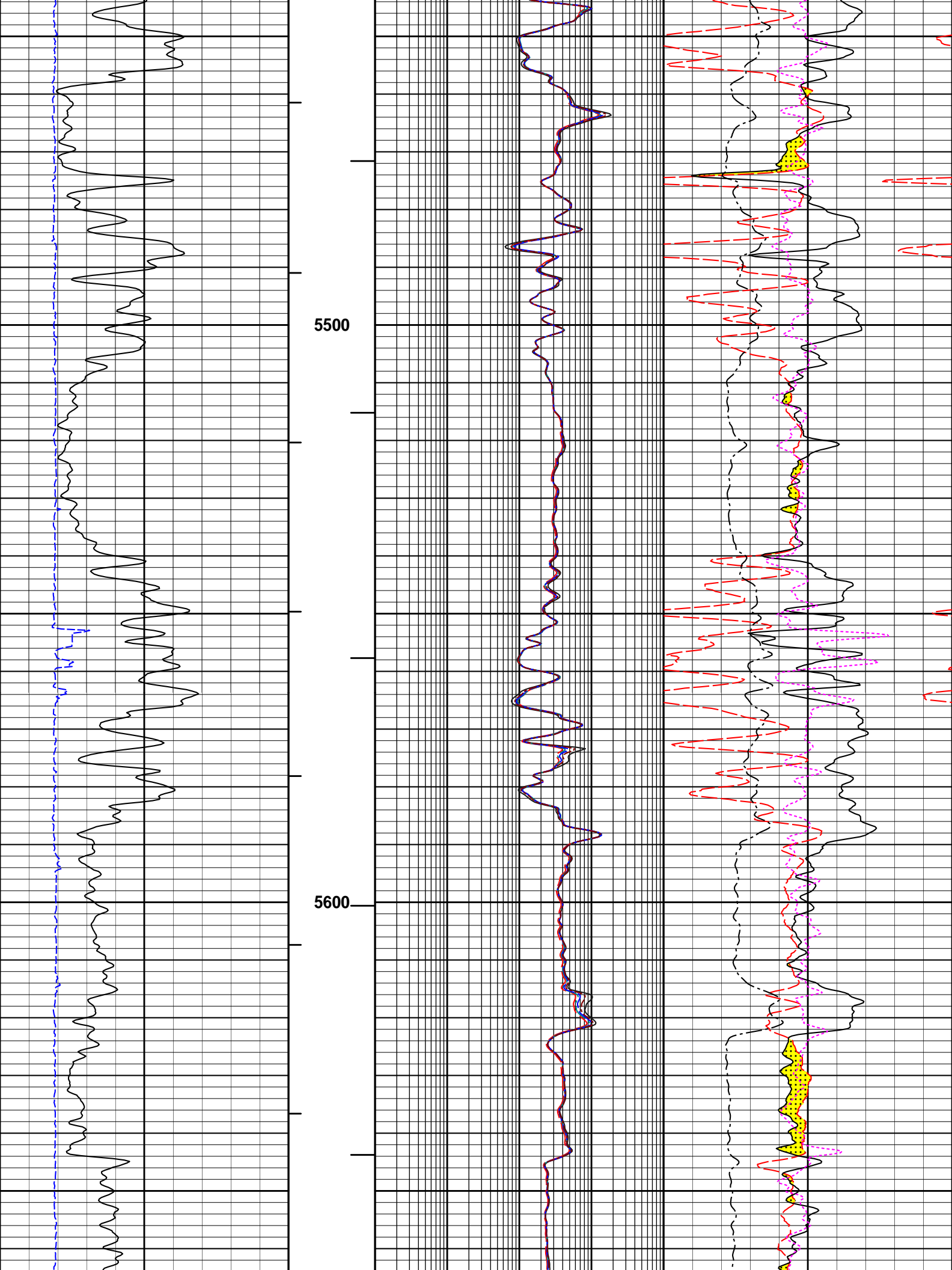




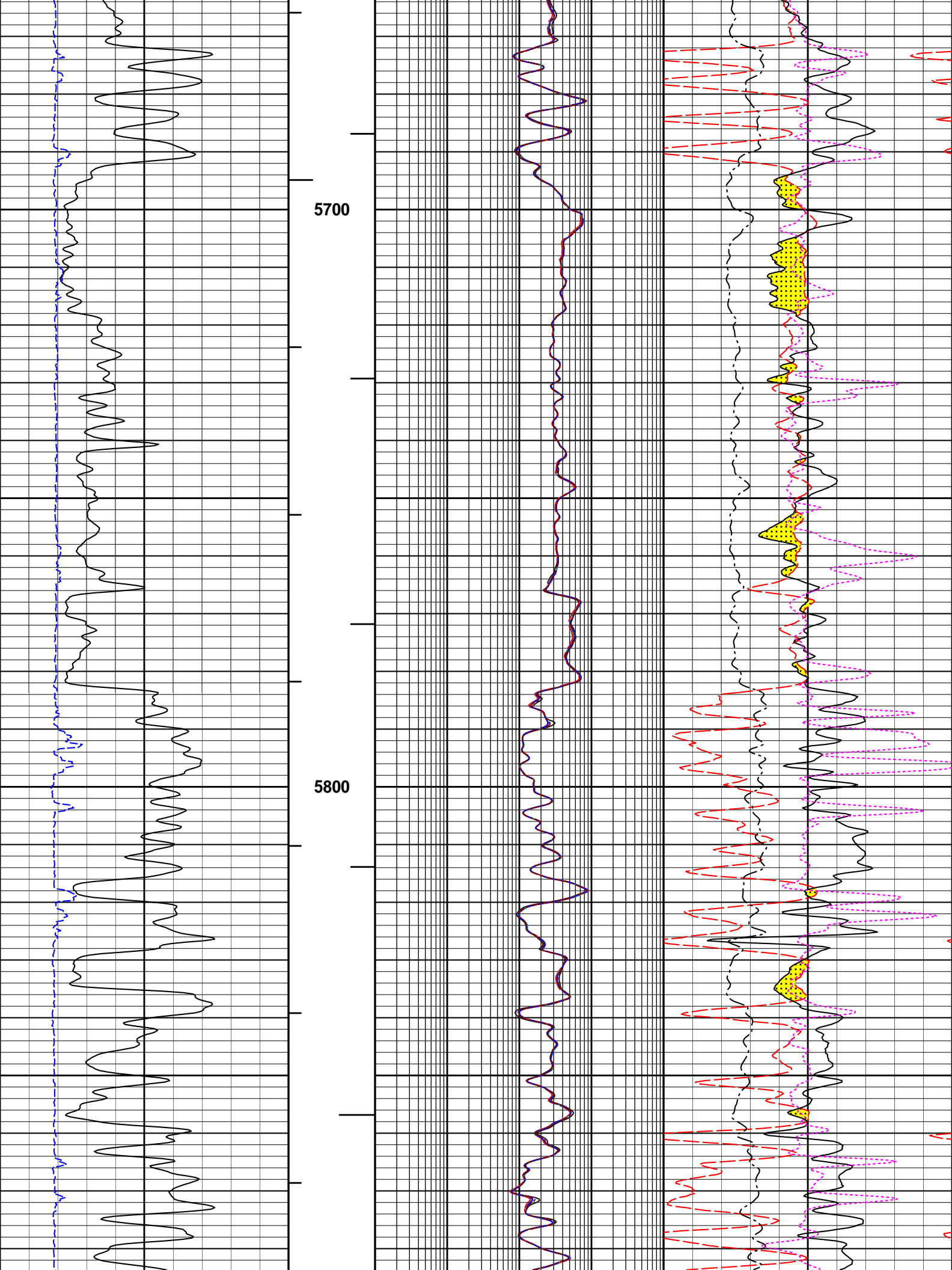


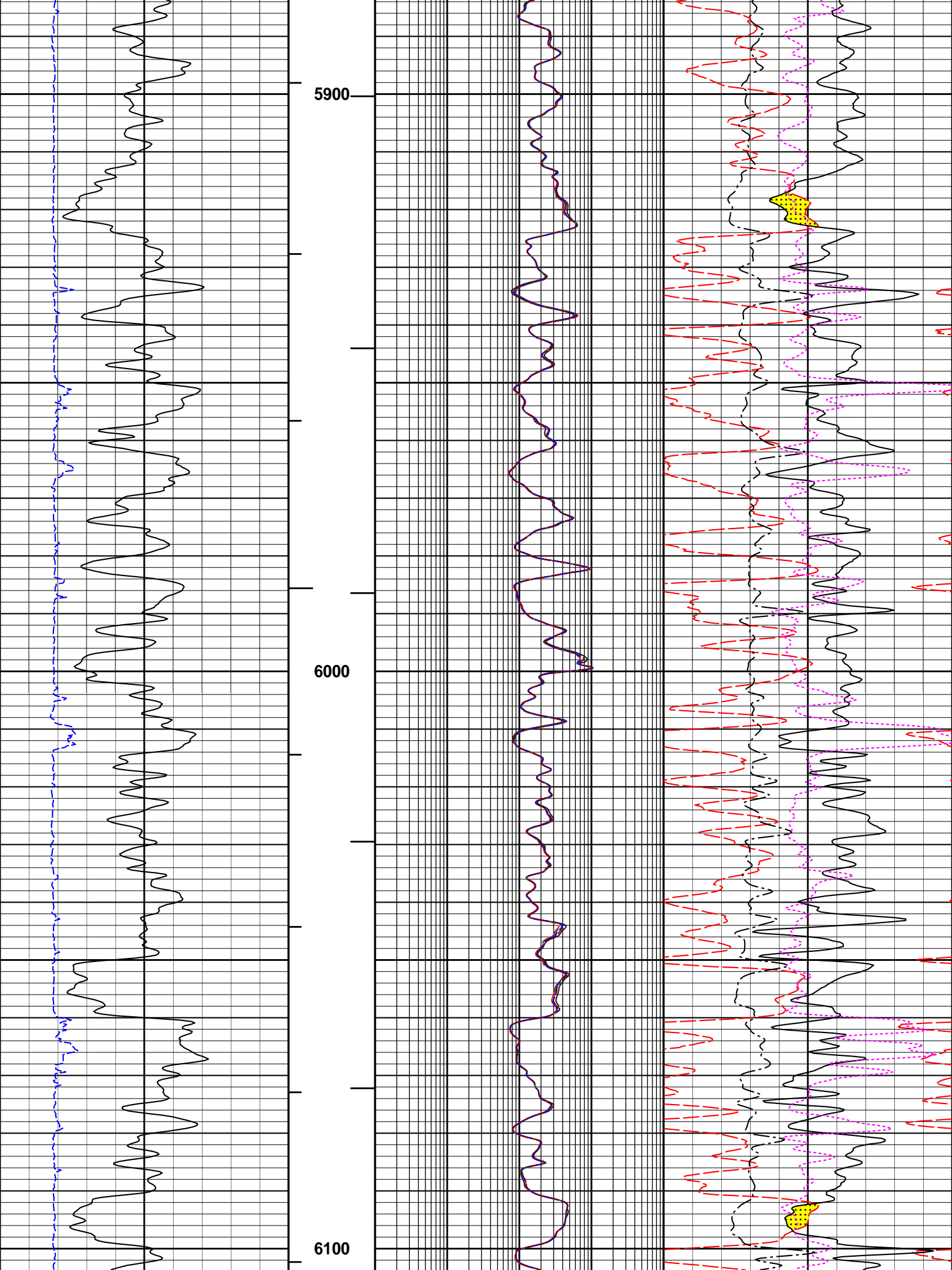


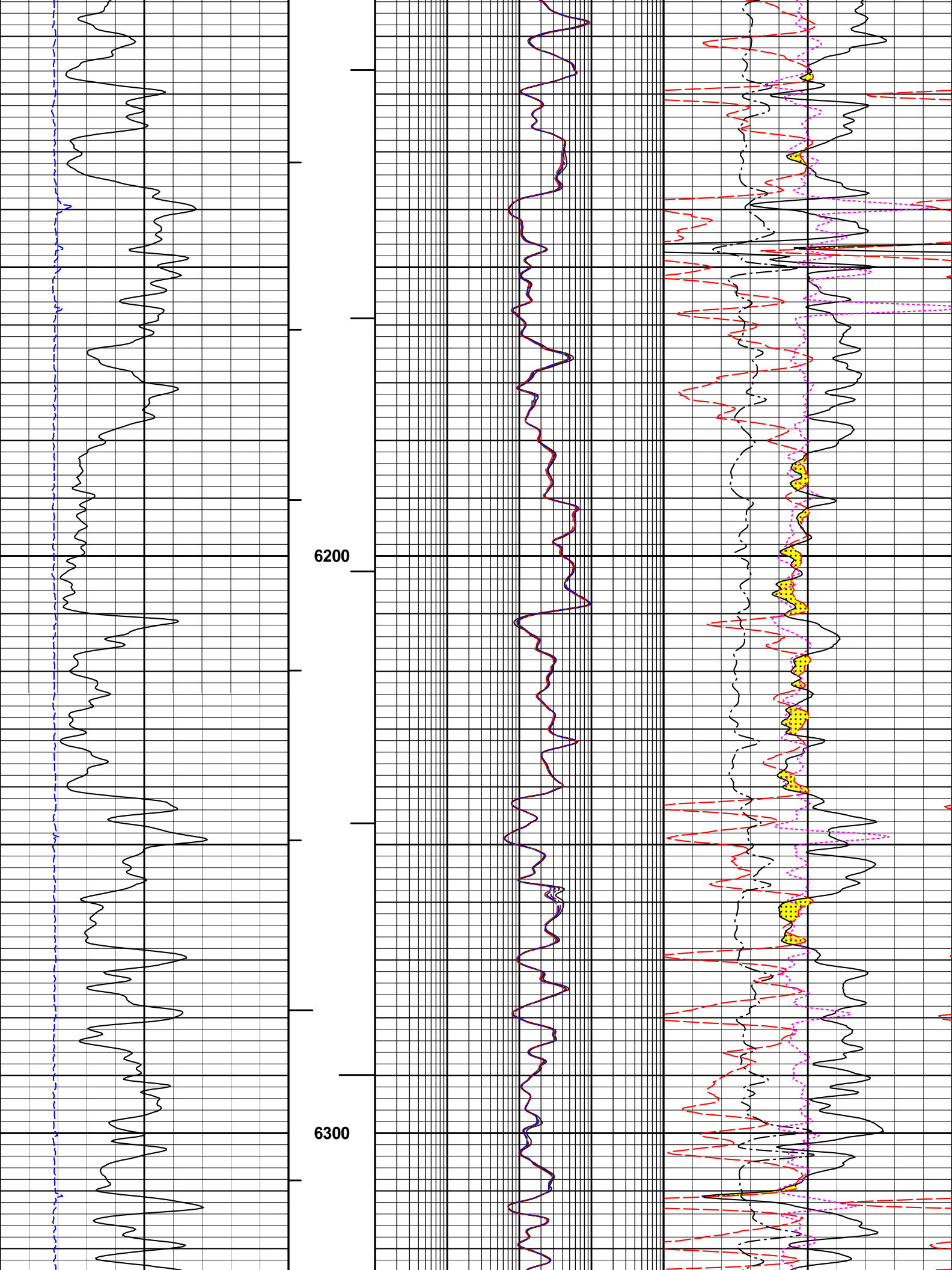


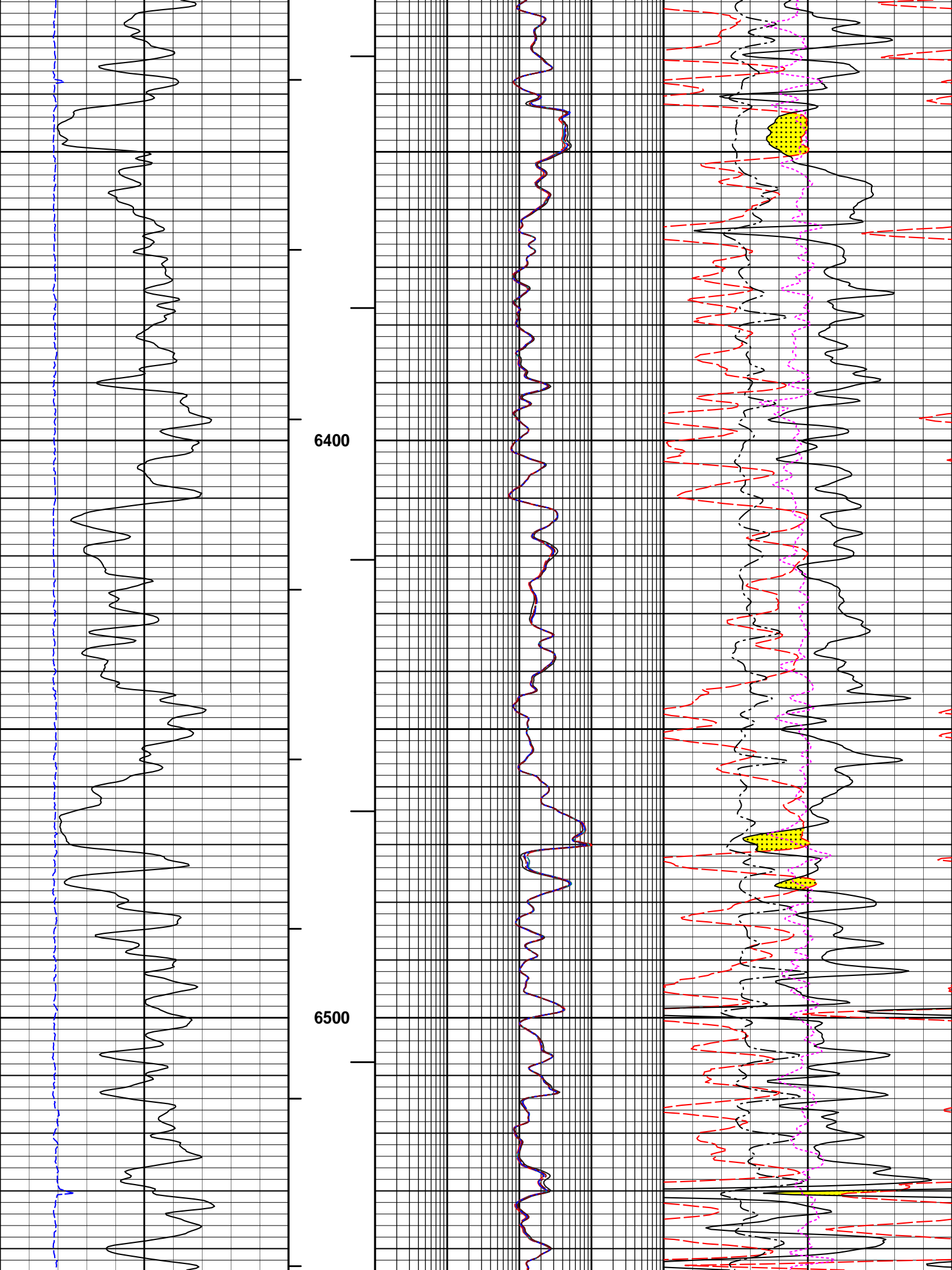


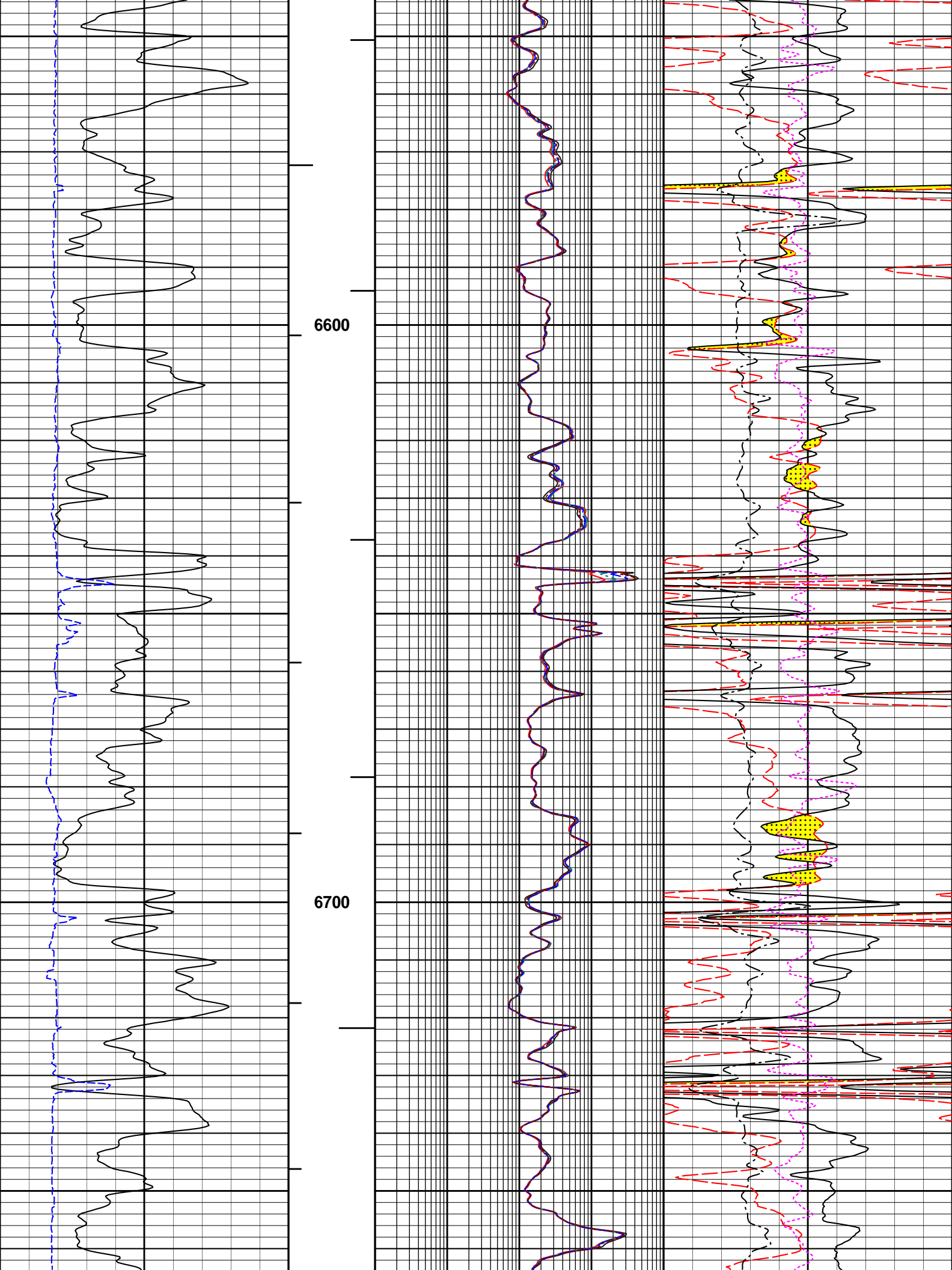


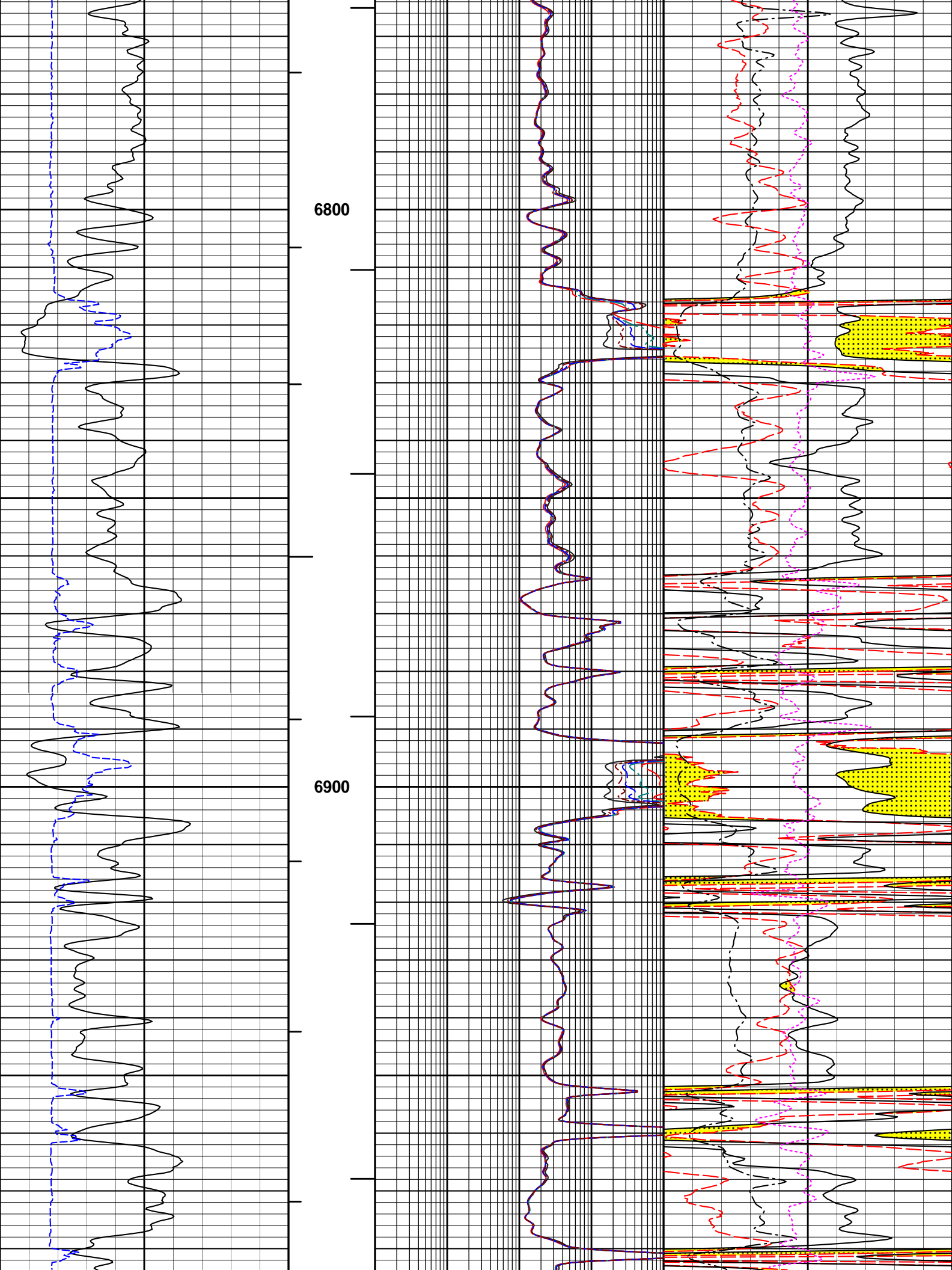


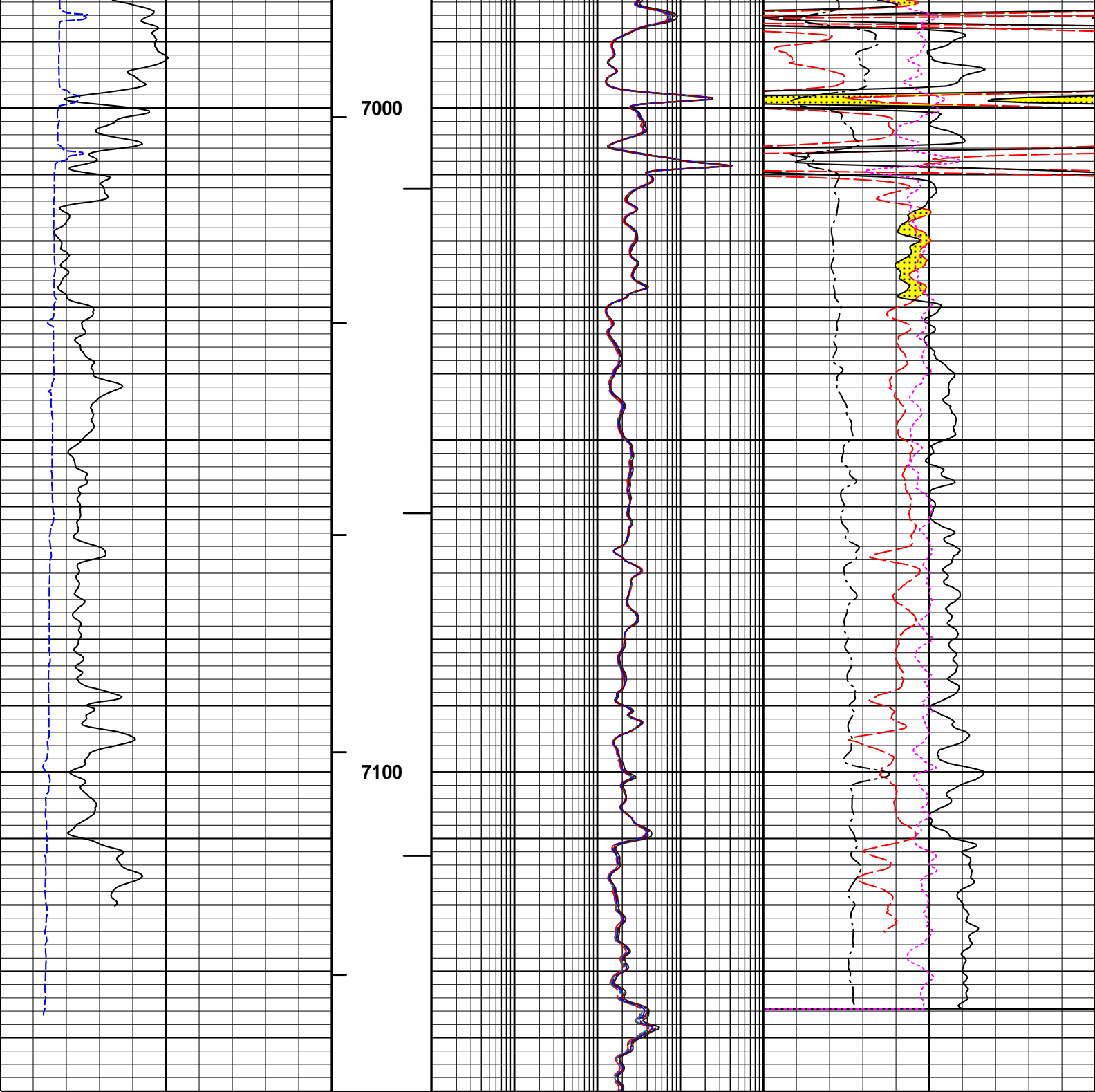












6 0	CALIPER	16	1 : 240 FT.  BHV  AHV	0.1	RT10	1000	-0.25	DensityCorr	0.25
	inches				ohm-m			gram per cc	
	GAMMA RAY	200		0.1	RT20	1000	0	PE	10
	api				ohm-m				
				0.1	RT30	1000	0.3	NEU POROSITY	-0.1
					ohm-m			sand	
				0.1	RT60	1000	0.3	DEN POROSITY	-0.1
					ohm-m			2.68 g/cc	
				0.1	RT90	1000			
					ohm-m				



MAIN PASS 5" = 100'

HALLIBURTON

## CALIBRATION REPORT

### ULTRA-SLIM QUAD TELEMETRY GAMMA CARTRIDGE SHOP CALIBRATION

Tool Name: S4TG - 11790910

Reference Calibration Date: 11-Dec-15 10:48:01

Engineer: P. DIMPFL

Calibration Date: 11-Dec-15 10:54:03

Software Version: WL INSITE R4.6.4 (Build 3)

Calibration Version: 1

Calibrator Source S/N: USC-003-CB

Calibrator API Reference: 155.00

Calibrator API Value: 151.4

Measurement	Measured	Calibrated	Units
Background	45.5	41.4	api
Background + Calibrator	211.7	192.8	api
Calibrator	166.3	151.4	api

### ULTRA-SLIM QUAD TELEMETRY GAMMA CARTRIDGE FIELD CALIBRATION

Tool Name: S4TG - 11790910

Reference Calibration Date: 11-Dec-15 10:54:03

Engineer: B. CRAWFORD

Calibration Date: 21-Dec-15 15:43:25

Software Version: WL INSITE R4.6.4 (Build 3)

Calibration Version: 1

Calibrator Source S/N: USC-003-CB

Field Verification	Shop	Field	Units
Background	41.4	41.5	api
Background + Calibrator	192.8	191.5	api
Calibrator	151.4	150.0	api

Shop	Field	Difference	Tolerance
151.4	150.0	1.4	+/- 9.00

### DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: SDSN - 11790665

Reference Calibration Date: 11-Dec-15 11:40:54

Engineer: P. DIMPFL

Calibration Date: 11-Dec-15 13:26:37

Software Version: WL INSITE R4.6.4 (Build 3)

Calibration Version: 1

Logging Source S/N: DSN-359

Reference value assigned to Bath: 22.284

Snow Block S/N: 100132479

Calibration Bath Water Temperature: 69 degF

Min. Tool Housing Outside Diameter: 2.350 in

### CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.995	0.997	0.900 - 1.100

WATER BATH SUMMARY (Vertical Water Bath)				
Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.9941	1.0000	0.0059	+/- 0.0280
Calibrated Ratio:	22.24	22.28	0.043	+/- 0.180

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0604	0.02000 - 0.09000

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

DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name:	SDSN - 11790665	Reference Calibration Date:	11-Dec-15 13:26:37
Engineer:	B. HOYTAL	Calibration Date:	21-Dec-15 15:59:41
Software Version:	WL INSITE R4.6.4 (Build 3)	Calibration Version:	1

Logging Source S/N: DSN-359  
Snow Block S/N: 100132479

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0604	0.0457	-0.0147	+/- 0.0150

PASS/FAIL SUMMARY	
Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SSDL - 11790674	Reference Calibration Date:	12-Dec-15 17:10:12
Engineer:	Z. TAYLOR	Calibration Date:	12-Dec-15 17:20:34
Software Version:	WL INSITE R4.6.4 (Build 3)	Calibration Version:	1

The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER  
Calibrator Small Ring Diameter: 4.100 in  
Calibrator Medium Ring Diameter: 8.10 in  
Calibrator Large Ring Diameter: 12.100 in  
Tool Diameter: 2.35 in

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-13883.30	-14270.15	-32000.00 - -15000.00
Pad Gain	0.0000644	0.0000645	0.000052 - 0.000098
Arm Offset	-20320.85	-20755.46	-18000.00 - -13000.00
Arm Gain	0.0002899	0.0002954	0.000270 - 0.000330
Arm Power	-0.000001900	-0.000002226	-0.000004200 - -0.000001400

CALIBRATION RINGS				
Measurement	Current Reading	Calibrated	Change	Control Limit On

Measurement	(Previous Coeff.)	(New Coeff.)	Change	New Value
PAD EXTENSION:				
Closed (in)	0.02	0.00	-0.02	+/- 0.20
Small Ring (in)	1.80	1.78	-0.02	+/- 0.20
Maximum (in)	2.4	2.3	-0.02	+/- 0.20
RING DIAMETER:				
Small Ring (in)	4.22	4.10	-0.12	+/- 0.20
Medium Ring (in)	8.17	8.10	-0.07	+/- 0.20
Large Ring (in)	12.17	12.10	-0.07	+/- 0.20
Maximum (in)	16.70	16.61	-0.09	+/- 0.20

PASS/FAIL SUMMARY	
Ring-Measurement Check:	Passed

### DENSITY CALIPER FIELD CALIBRATION

Tool Name: SSDL - 11790674

Reference Calibration Date: 12-Dec-15 17:20:34

Engineer: B. HOYTAL

Calibration Date: 21-Dec-15 15:46:20

Software Version: WL INSITE R4.6.4 (Build 3)

Calibration Version: 1

The Caliper is computed from: CALIPER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER

Tool Diameter: 2.35 in

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	11.91	11.91	0.00	+/- 0.20
Caliper	16.61	16.42	-0.19	+/- 0.20

PASS/FAIL SUMMARY	
Pad Extension Check:	Passed
Diameter Check:	Passed

### SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SSDL Pad - 11581727

Reference Calibration Date: 10-Dec-15 17:32:53

Engineer: P. DIMPFL

Calibration Date: 10-Dec-15 17:59:05

Software Version: WL INSITE R4.6.4 (Build 3)

Calibration Version: 1

Logging Source S/N: 5265GW

Aluminum Block S/N: 12345

Density: 2.602g/cc

Pe: 3.110

Magnesium Block S/N: 12345

Density: 1.690g/cc

Pe: 2.610

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	0.9998	1.0085	0.90 - 1.10
Near Dens Gain	1.0207	1.0267	0.90 - 1.10
Near Peak Gain	1.0245	1.0305	0.90 - 1.10
Near Lith Gain	1.0266	1.0308	0.90 - 1.10
Far Bar Gain	0.9916	0.9957	0.90 - 1.10
Far Dens Gain	1.0005	1.0043	0.90 - 1.10
Far Peak Gain	1.0046	1.0069	0.90 - 1.10
Far Lith Gain	1.0021	1.0054	0.90 - 1.10

Near Bar Offset	0.1145	0.0328	NONE
Near Dens Offset	-0.0858	-0.1458	NONE
Near Peak Offset	-0.1410	-0.2024	NONE
Near Lith Offset	-0.1114	-0.1541	NONE
Far Bar Offset	0.1522	0.1138	NONE

Far Dens Offset	0.0624	0.0291	NONE
Far Peak Offset	0.0243	0.0015	NONE
Far Lith Offset	0.0786	0.0514	NONE
Near Bar Background	197.93	194.93	155 - 360
Near Dens Background	113.31	112.38	90 - 210
Near Peak Background	65.49	65.84	55 - 125
Near Lith Background	56.50	56.88	45 - 100
Far Bar Background	135.34	132.97	90 - 210
Far Dens Background	67.76	68.10	45 - 105
Far Peak Background	53.46	53.98	35 - 85
Far Lith Background	33.14	33.69	25 - 55

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.692	1.691	-0.001	+/- 0.015
Pe	2.382	2.396	0.014	+/- 0.150
ALUMINUM				
Density (g/cc)	2.592	2.594	0.002	+/- 0.01500
Pe	2.921	2.937	0.016	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0010	+/- 0.0110	0.0001	+/- 0.0140
Magnesium Block	-0.0033	+/- 0.0110	-0.0008	+/- 0.0140
Aluminum Block	-0.0018	+/- 0.0110	0.0003	+/- 0.0140
Resolution	9.51	6.00 - 11.50	9.30	6.00 - 11.50
Noise Edge	0	< 11	0	< 20
Internal Verifier(B+D+P+L)	430	345 - 795	289	195 - 455

PASS/FAIL SUMMARY	
Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Near Noise Edge:	Passed
Far Noise Edge:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

### SPECTRAL DENSITY FIELD CHECK

Tool Name: SSDL Pad - 11581727

Reference Calibration Date: 10-Dec-15 17:59:05

Engineer: B. HOYTAL

Calibration Date: 21-Dec-15 15:48:08

Software Version: WL INSITE R4.6.4 (Build 3)

Calibration Version: 1

Pad Temperature: 79.1 degF

DENSITY FIELD CALIBRATION SUMMARY									
Measurement			Shop		Field		Change		Control Limit +/-
Near (B+D+P+L) cps			430.023		432.978		2.955		8.820
Far (B+D+P+L) cps			288.742		290.331		1.589		11.408
Near Resolution			9.51		9.67		0.160		0.50
Far Resolution			9.30		9.72		0.420		1.00
PASS/FAIL SUMMARY									
Bkg Quality Check:						Passed			
Bkg Resolution Check:						Passed			
Bkg Verification Check:						Passed			

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION									
Tool Name:		SACRT Sonde - 11577718				Reference Calibration Date:		23-Jul-15 15:22:26	
Engineer:		T. CASADABAN				Calibration Date:		29-Aug-15 17:21:58	
Software Version:		WL INSITE R4.6.4 (Build 3)				Calibration Version:		1	
Host Tool Name:		SACRT Instrument - 11577714							

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0067	1.05	0.95	1.0066	1.05	0.95	0.9994	1.05
A2 (50")	0.95	1.0132	1.05	0.95	1.0117	1.05	0.95	1.0063	1.05
A3 (29")	0.95	1.0180	1.05	0.95	1.0113	1.05	0.95	1.0051	1.05
A4 (17")	0.95	1.0351	1.05	0.95	1.0229	1.05	0.95	1.0138	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0248	1.05	0.95	1.0096	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.0099	1.05	0.95	1.0061	1.05

TYPICAL SONDE OFFSET RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-40	5.738	40	-25	0.001	25	-15	-1.541	15
A2 (50")	-40	12.365	40	-25	1.720	25	-15	-0.189	15
A3 (29")	-40	-4.643	40	-25	3.596	25	-15	1.916	15
A4 (17")	-80	-56.474	80	-40	2.161	40	-25	7.575	25
A5 (10")	N/A	N/A	N/A	-150	-38.047	100	-75	4.495	75
A6 (6")	N/A	N/A	N/A	-100	165.588	250	-250	221.132	250

TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION				
Signal	Lower	R		Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)	
12K	0.59	0.66		0.69	Mud Cell	0.95	1.00	1.05	
36K	0.79	0.87		0.91					
72K	0.6	0.68		0.74					

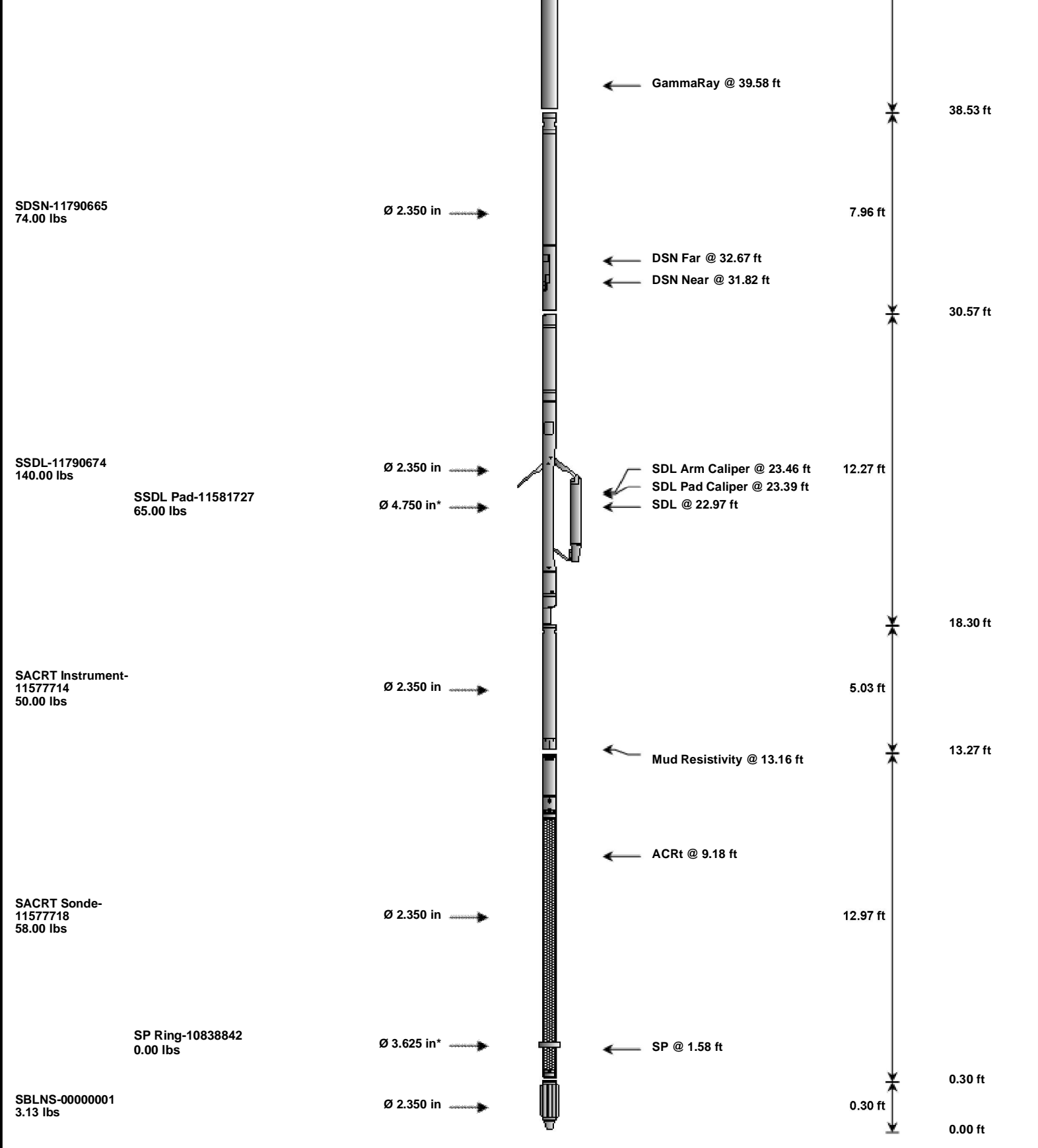
PASS/FAIL SUMMARY									
GAIN RANGE CHK						PASS			
TOOL OK TO LOG									

CALIBRATION SUMMARY									
Sensor	Shop		Field	Post	Difference	Tolerance	Units		

Serial	Snop	Model	Test	Difference	Tolerance	Units
S4TG-11790910						
Gamma Ray Calibrator	151.4	150.0	-----	1.4	+/- 9.00	api
SDSN-11790665						
Snow-Block Porosity	0.0604	0.0457	-----	0.0147	+/- 0.0150	decp
SSDL-11790674						
Arm Extension	11.91	11.91	-----	0.00	0.20	in
Max Caliper	16.61	16.42	-----	0.19	0.20	in
SSDL Pad-11581727						
Near(B+D+P+L)	430.023	432.978	-----	-2.955	+/-8.820	cps
Far(B+D+P+L)	288.742	290.331	-----	-1.589	+/-11.408	cps
SACRT Sonde-11577718						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m

Data: MONU_R_B_USC\0001 USC_TRIPLEIDLE	Date: 23-Dec-15 04:48:53
<div>HALLIBURTON</div> <div>TOOL STRING DIAGRAM REPORT</div>	

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
SCHD-12026767 40.00 lbs		Ø 2.350 in →		← Temperature @ 75.28 ft	4.00 ft	77.28 ft
SBLT-C-11974783 31.00 lbs		Ø 2.350 in →			3.32 ft	73.28 ft
SBLT-S-11974784 42.00 lbs		Ø 2.350 in →			2.88 ft	69.96 ft
SMCSA-12075178 57.00 lbs		Ø 2.350 in →			4.65 ft	67.08 ft
						62.43 ft
SBLT-B-12006175 85.00 lbs		Ø 2.350 in →			8.01 ft	54.42 ft
						54.42 ft
SBLT-I-11974782 55.00 lbs		Ø 2.350 in →			6.12 ft	48.30 ft
						48.30 ft
S4TG-11790910 70.00 lbs		Ø 2.350 in →			9.77 ft	



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
SCHD	Ultra-Slim Cable Head	12026767	40.00	4.00	73.28	300.00
SBLT-C	Ultra-Slim Hole Motorized Releasable Sub	11974783	31.00	3.32	69.96	300.00
SBLT-S	Ultra-Slim Hole Shock Sub	11974784	42.00	2.88	67.08	300.00
SMCSA	Ultra-Slim Hole Multi Conductor Swivel	12075178	57.00	4.65	62.43	300.00
SBLT-B	Ultra-Slim Hole Battery Sub	12006175	85.00	8.01	54.42	300.00
SBLT-I	Ultra-Slim Hole Sensor / Inverter Sub	11974782	55.00	6.12	48.30	300.00
S4TG	Ultra-Slim Quad Telemetry Gamma Cartridge	11790910	70.00	9.77	38.53	60.00
SDSN	Ultra-Slim Hole Dual Spaced Neutron	11790665	74.00	7.96	30.57	60.00
SSDL	Ultra-Slim Hole Spectral Density	11790674	140.00	12.27	18.30	60.00
SBLNS	Ultra-Slim Hole Slip Density	11581727	65.00	18.30	0.00	60.00



SDLP	Slim Density Pad	11581727	65.00	2.55	*	21.69	60.00
SACRT	Array Compensated True Resistivity Instrument Section	11577714	50.00	5.03		13.27	120.00
SACRT	Array Compensated True Resistivity Sonde Section	11577718	58.00	12.97		0.30	120.00
SP	SP Ring	10838842	0.00	0.25	*	1.58	300.00
SBLNS	Ultra-Slim Bull Nose	00000001	3.13	0.30		0.00	300.00
Total			770.13	77.28			
* Not included in Total Length and Length Accumulation.							
Data: MONU_R_B_USC\0001 USC_TRIPLE\IDLE							
Date: 23-Dec-15 04:46:22							

COMPANY	URSA OPERATING COMPANY					
WELL	MONUMENT RIDGE B 43B-08-07-95					
FIELD	PARACHUTE					
COUNTY	GARFIELD	STATE	COLORADO			
HALLIBURTON			SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY			