



LWD MEMORY LOG

Gamma Ray

Scale:

1:240

True Vertical Depth

Company: Noble Energy

Well: Independence D30-711

Field: Wattenberg

County: Weld Country: United States

Depth Reference:

Driller's Depth

State: Colorado

Status:

Final Print

Surface Location:

Latitude:

Longitude:

040° 13' 01.956" N

104° 35' 17.448" W

Other Services:

API No: 05-123-47706-0000

Job ID: 109454491

SEC:

19

TWN:

3N

RGE:

64W

Permanent Datum (P.D.): Mean Sea Level

Elevation:

0.00 ft

Elev. KB:

4798.00 ft

Log Measured From: Rig Floor

Above P.D.

4798.00 ft

Elev. GL:

4768.00 ft

Dates

Interval Drilled

Magnetic Field Reference

Date From: 2018-12-10 Top: (ft) 1956.00

Date To: 2018-12-14 Bottom: (ft) 17754.00

Spud Date: 2018-12-09

Azi Reference North: Grid Dip Angle: (deg) 66.69

Total Magnetic Field Strength: (nT) 52067

Mag to Reference North Correction: (deg) 7.51

Borehole Record

Casing Record

Hole Size (in)

From (ft)

To (ft)

Size (in)

Weight (lb/ft)

From (ft)

To (ft)

13.500

0.00

1956.00

9.625

36.00

0.00

1946.00

8.500

1956.00

17754.00

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Log Run Summary

Run No	Bit Run No.	Bit Size (in)	Bit Type	Bit Gauge Length (in)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Hours (h)
						Top (ft)	Bottom (ft)	From (ft)	To (ft)	Start Logging	End Logging	
1	1	8.500	PDC	2.50	AutoTrak Curve	1956.00	17741.00	1956.00	17754.00	2018-12-10 13:49	2018-12-13 16:38	68.91

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Andrew Hays	2018-12-09	2018-12-14						

Mud Properties Record

Date / Time	Run No.	Measured Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2018-12-10 15:00	1	2235.00	Oil Based Mud	9.2	12	N/A	N/A	79.8/20.2	Active Pit	27500	0.00
2018-12-11 04:00	1	6256.00	Oil Based Mud	9.0	9	N/A	N/A	80.2/19.8	Active Pit	30000	0.00
2018-12-12 04:00	1	11107.00	Oil Based Mud	9.3	10	N/A	N/A	82/18	Active Pit	28000	0.00
2018-12-13 04:00	1	15979.00	Oil Based Mud	9.3	9	N/A	N/A	84.3/15.7	Active Pit	25000	0.00

Equipment and Service Data

Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
1	AutoTrak Curve Steering Unit	14236903	Near Bit VSS	5.93	6.73	7.000	4.330
1	AutoTrak Curve Steering Unit	14236903	Near Bit Inclination	5.93	6.73	7.000	4.330
1	AutoTrak Curve MWD	14334114	Gamma (single)	2.77	12.90	7.000	3.250
1	AutoTrak Curve MWD	14334114	Directional (mag)	12.27	22.40	7.000	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
ATC SU	AutoTrak Curve SU	Auto Trak Curve Steering Unit
ATC MWD	AutoTrak Curve MWD	Auto Trak Curve MWD
ATC LCPM	AutoTrak Curve LCPM	Auto Trak Curve LCPM

Comments



1	Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes, depth calibrations and measurements could not be independently verified.
2	Baker Hughes LWD run 1 utilized a 6.75 inch NaviGamma service (Directional and Gamma Ray) behind a 8.5 inch bit and rotary steerable assembly from 1956 to 17754 feet MD (1956 to 7021 feet TVD).
3	The Gamma Ray Apparent (GRAM, GRAUM, GRADM) data is presented 0 to 300 API, per the customer's request.

Remarks

Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	2014.00	8.500	1	The interval from 2014 to 2031 feet MD (2014 to 2031 feet TVD) has a gap in gamma ray and gamma ray time since drilled due to a downlink while drilling, during this process the tool lost sync after being unable to confirm the downlink.

Curve Mnemonics

Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API
GRADM	Gamma Ray - Apparent - Down Quadrant - Memory 0.5 ft Average	API
GRAUM	Gamma Ray - Apparent - Up Quadrant - Memory 0.5 ft Average	API
TCDM	Directional Real-Time Survey Temperature	degF

 	Company	Noble Energy	
	Well	Independence D30-711	
	Interval	Date From: 2018-12-10 12:28	Top: 1956.00 ft
	Created	Date To: 2018-12-14 01:48	Bottom: 17754.00 ft
		Created 2018-12-14 13:00:51	

Gamma Ray - Apparent 0.5 ft Average GRAM 0 300	TVD 1:240 feet	Depth Averaged ROP 3 ft Average ROPA 1000 0	Weight On Bit, Average 1 ft Average WOBA 0 50
API		ft/h	klb
Azimuthal Gamma Ray - Apparent - Up Quadrant 0.5 ft Average GRAUM 0 300			Downhole Temperature TCDM 0 300
API			degF
Azimuthal Gamma Ray - Apparent - Down			

API

GRADM

GRAUM

GRAM

See Remark 1

9 5/8" Casing
>R1

1950

2000

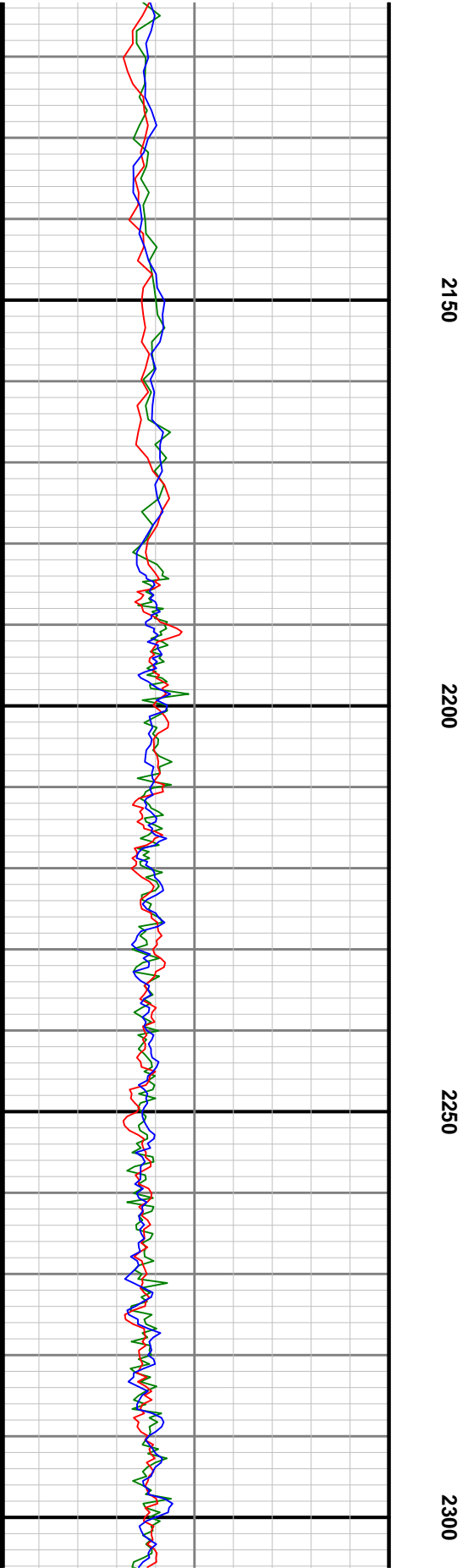
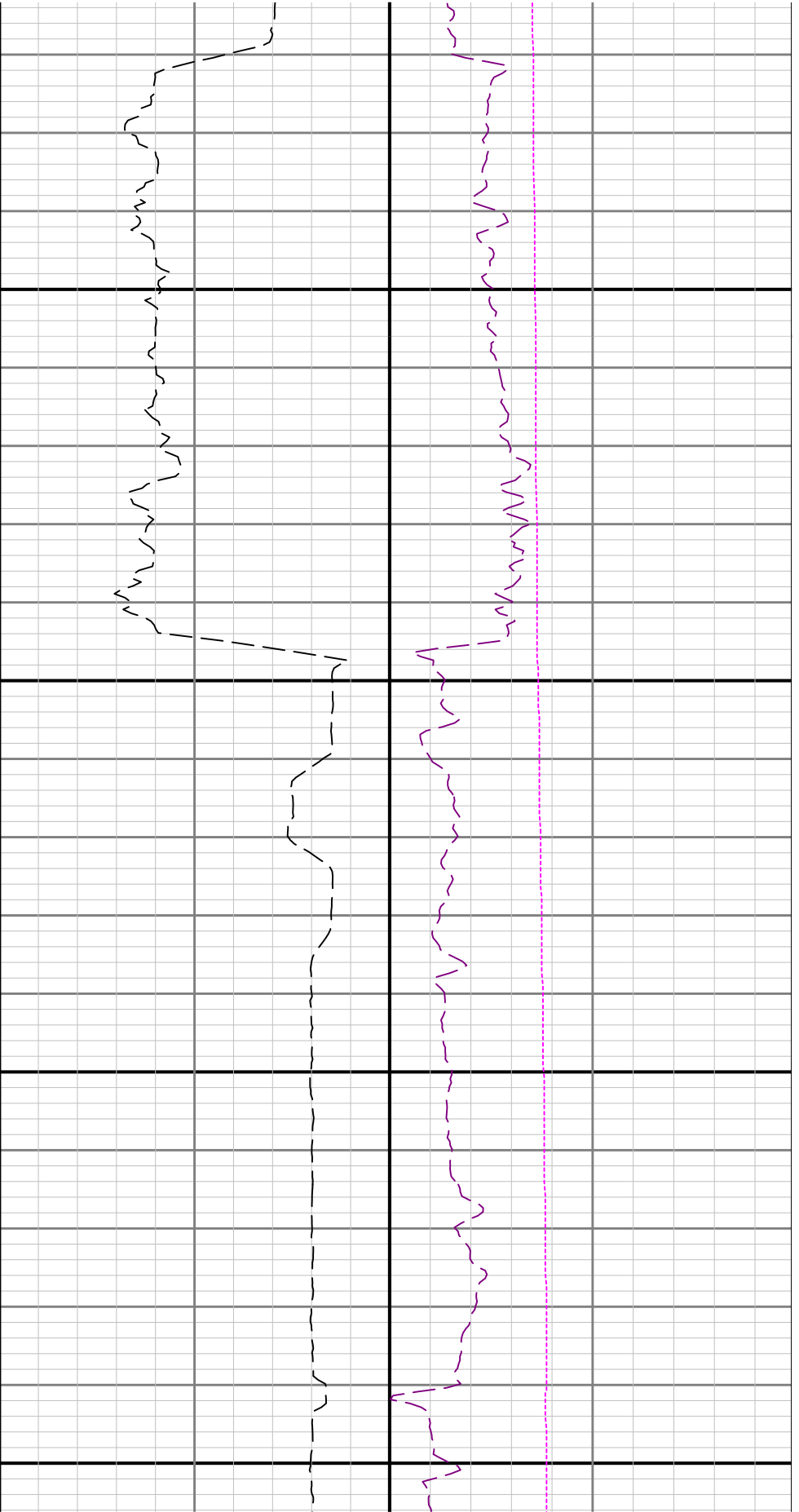
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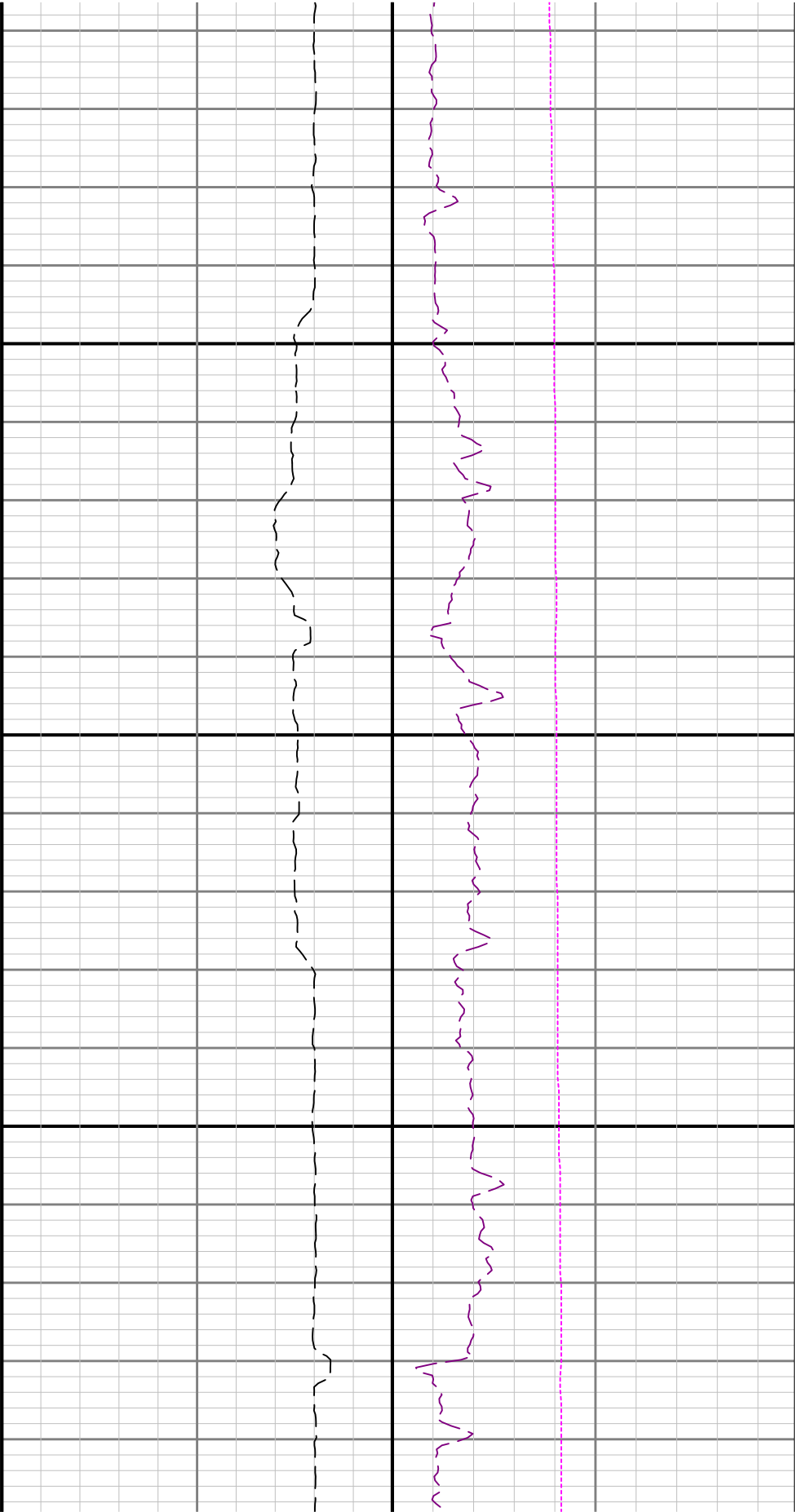
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ROPA

WOBA

TCDM



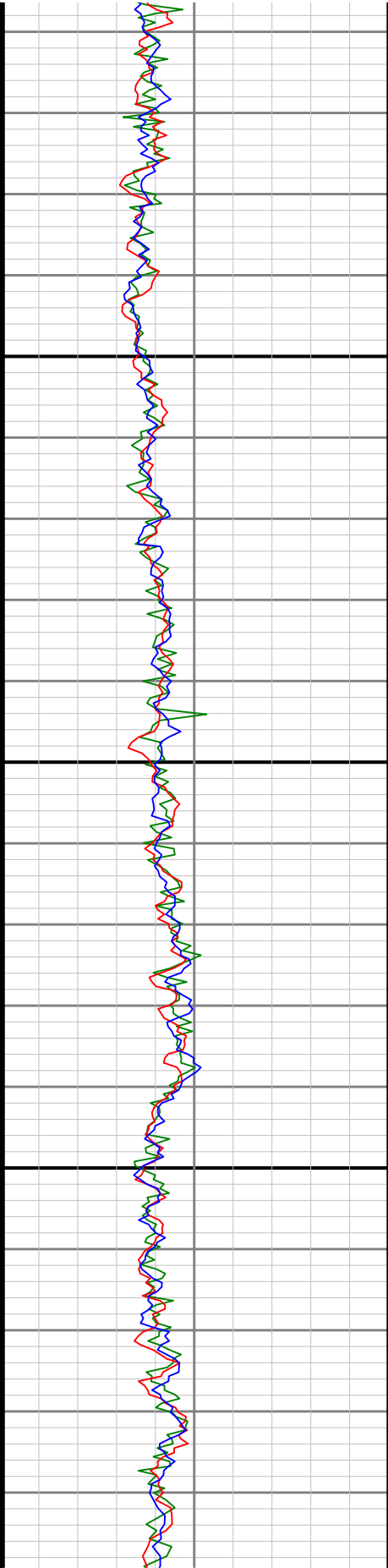


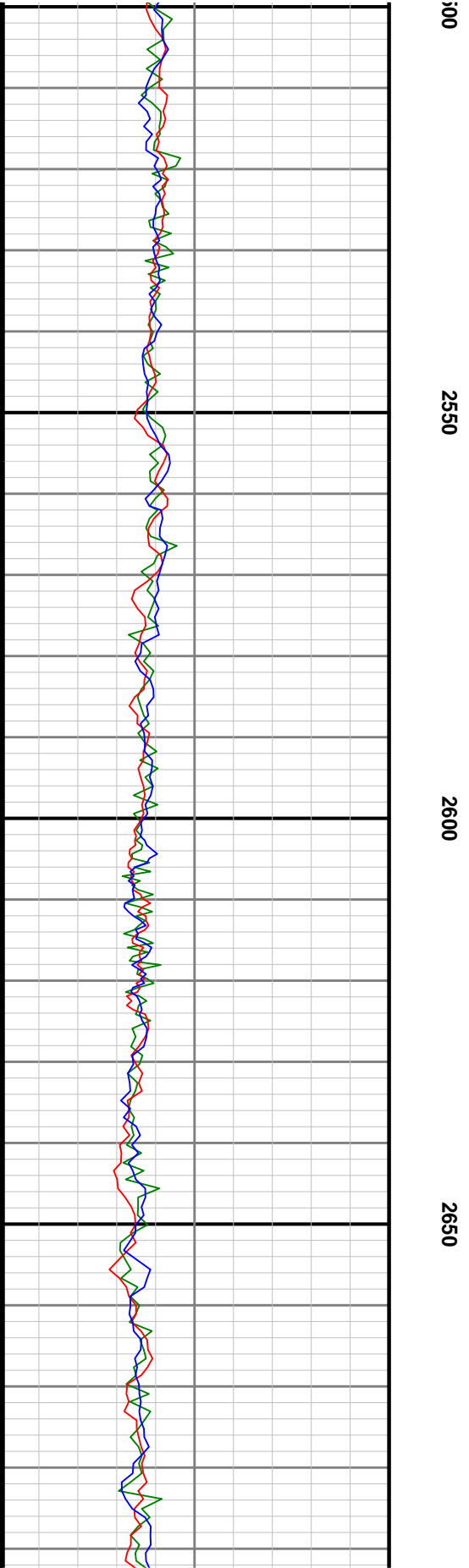
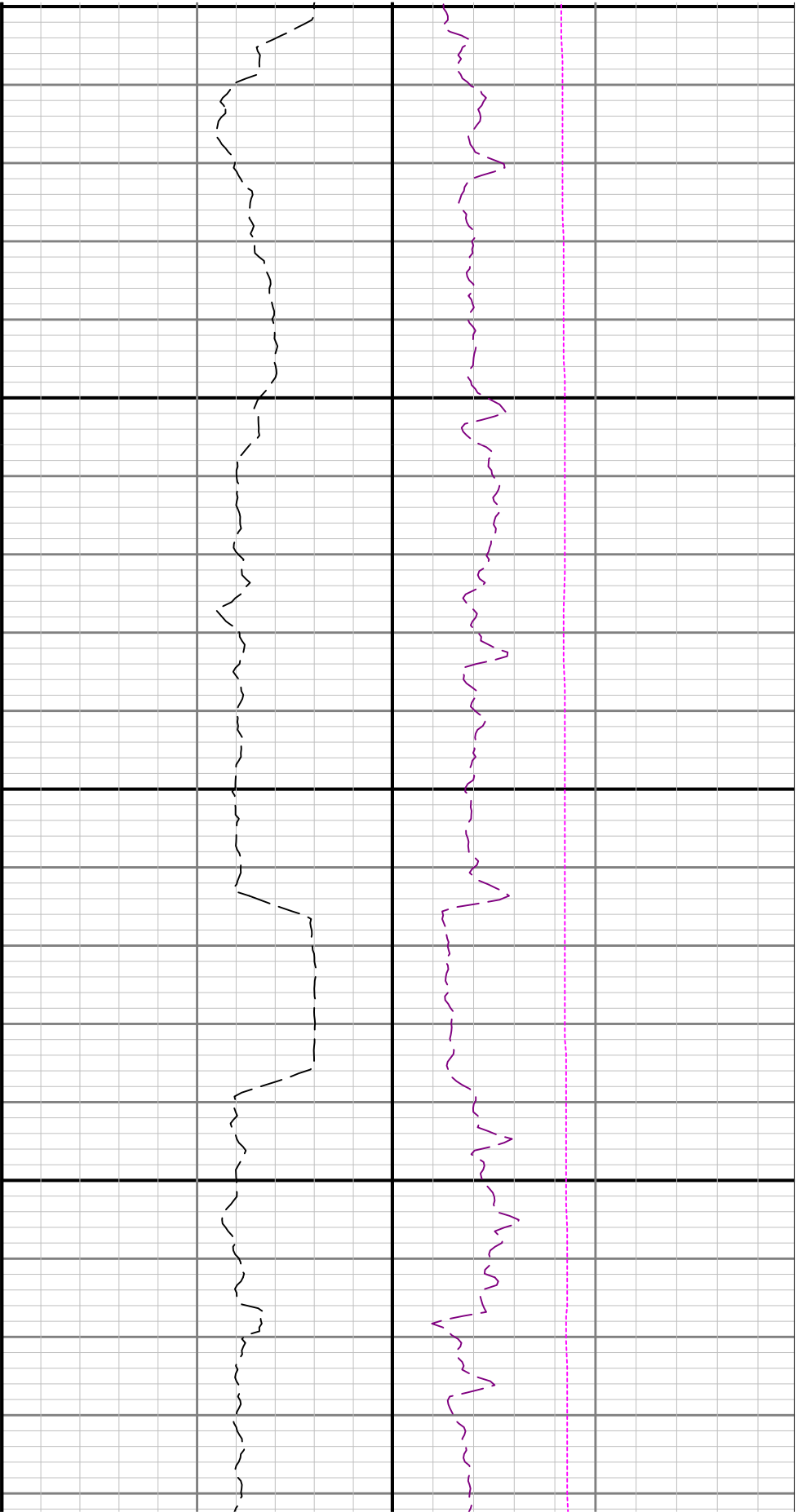
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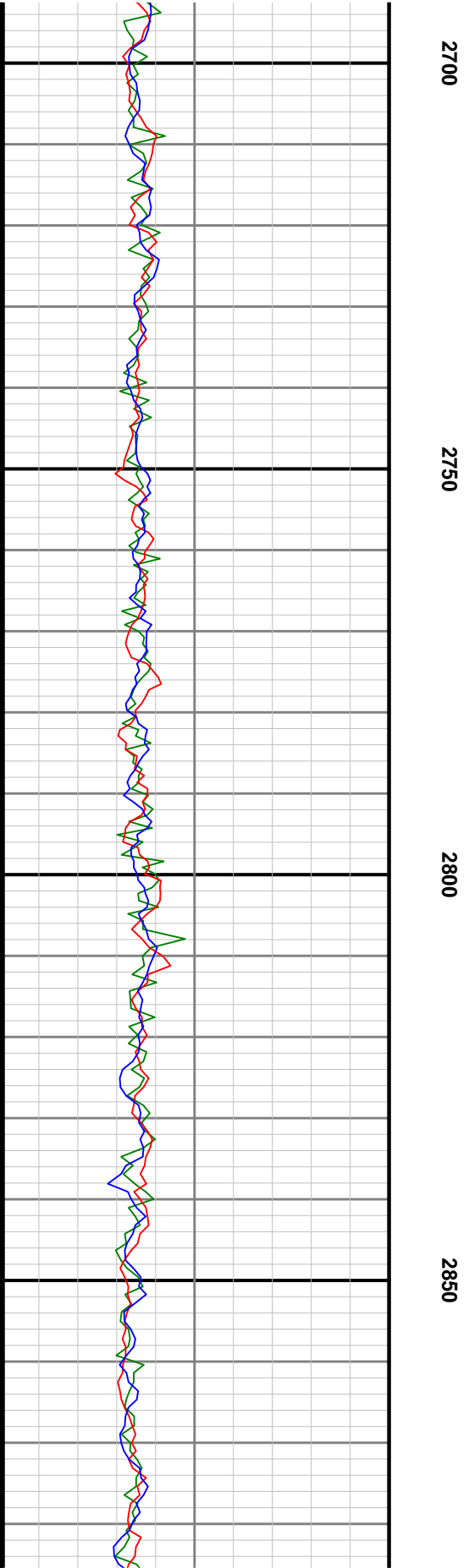
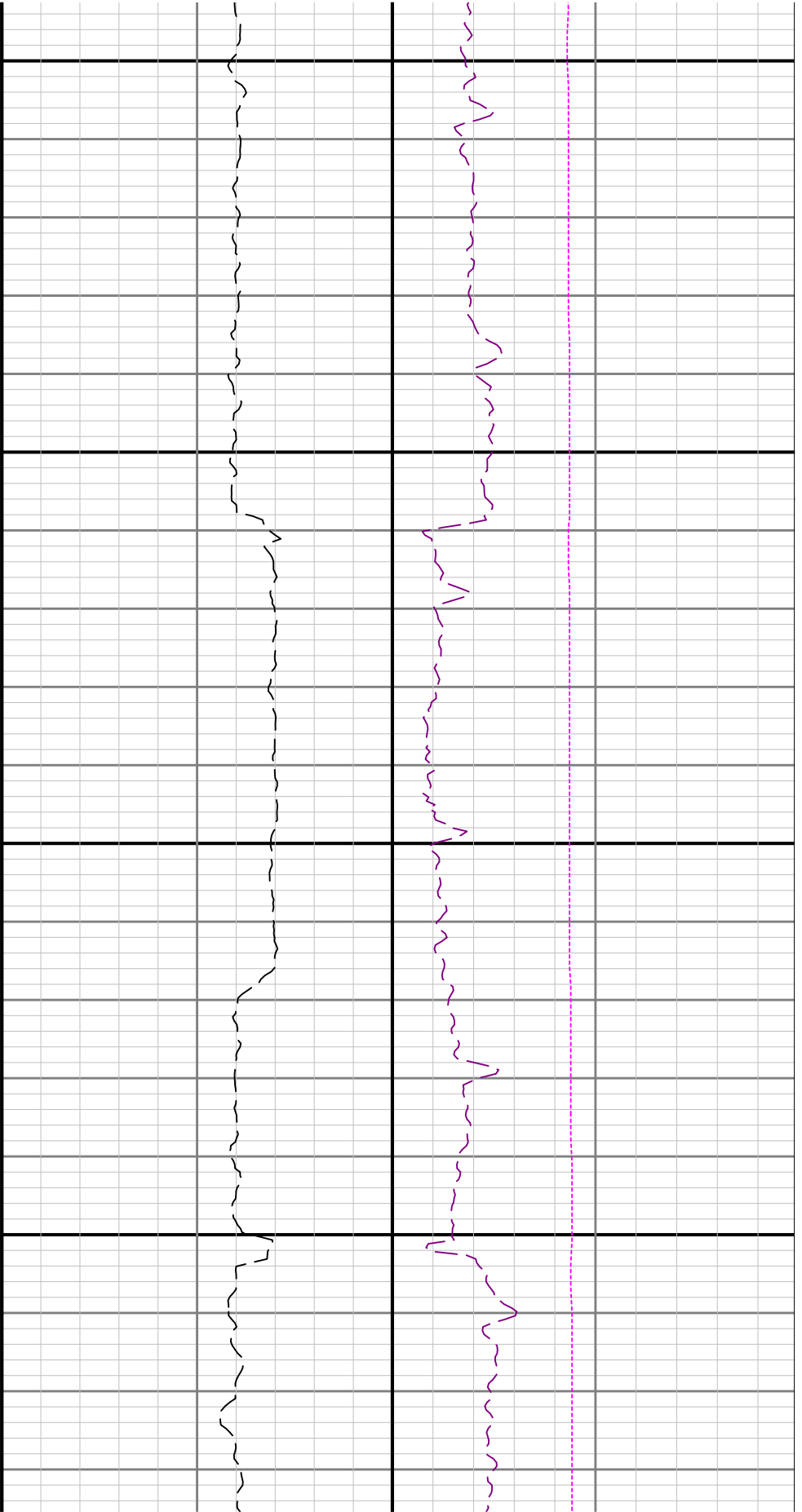
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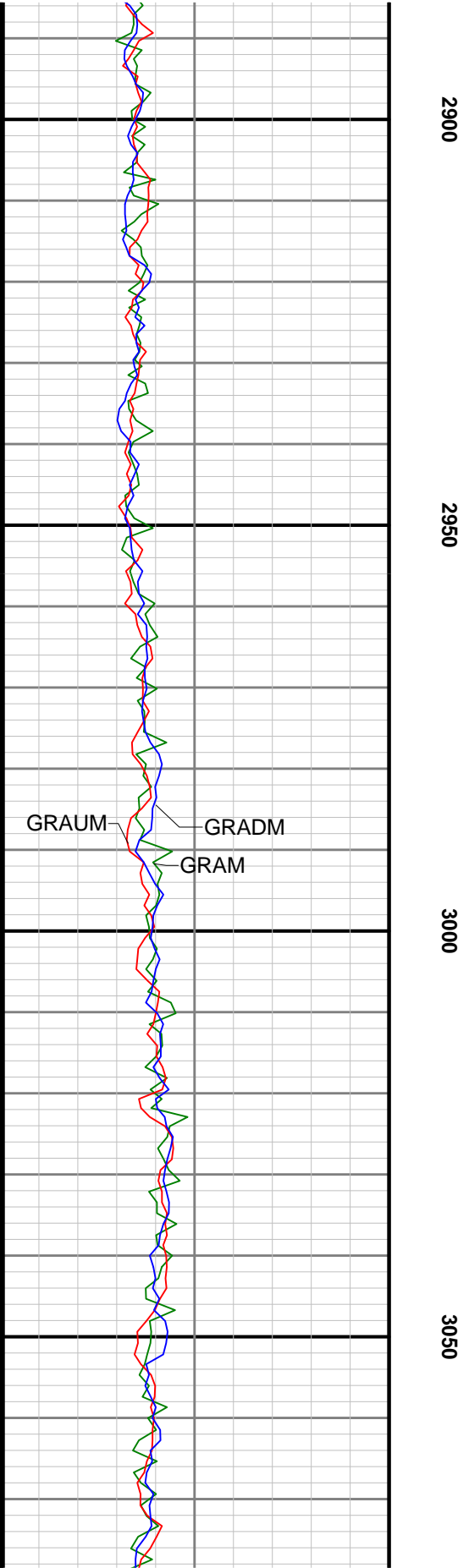
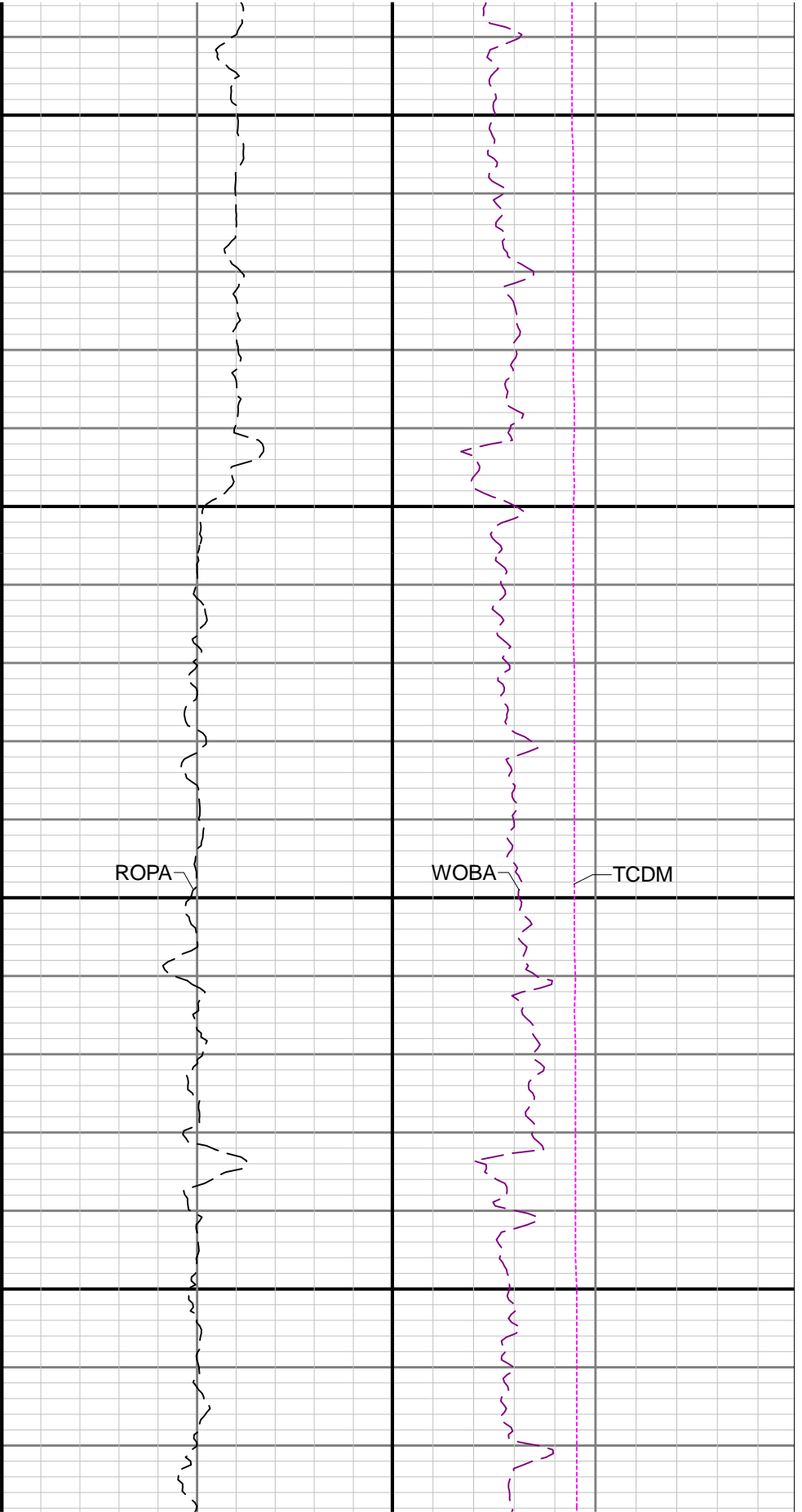
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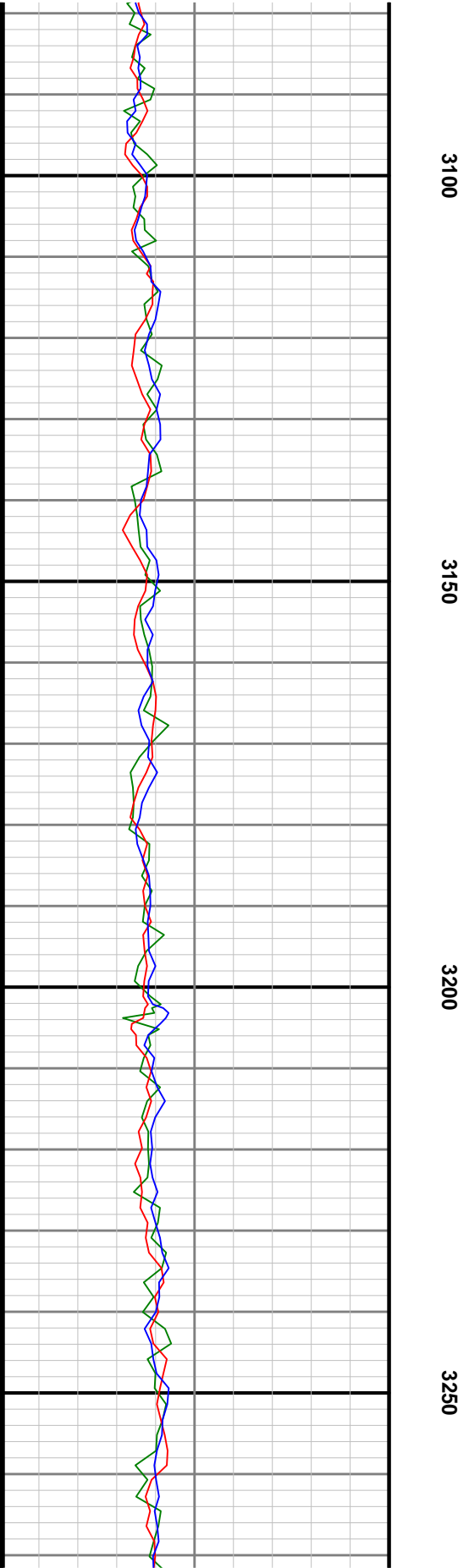
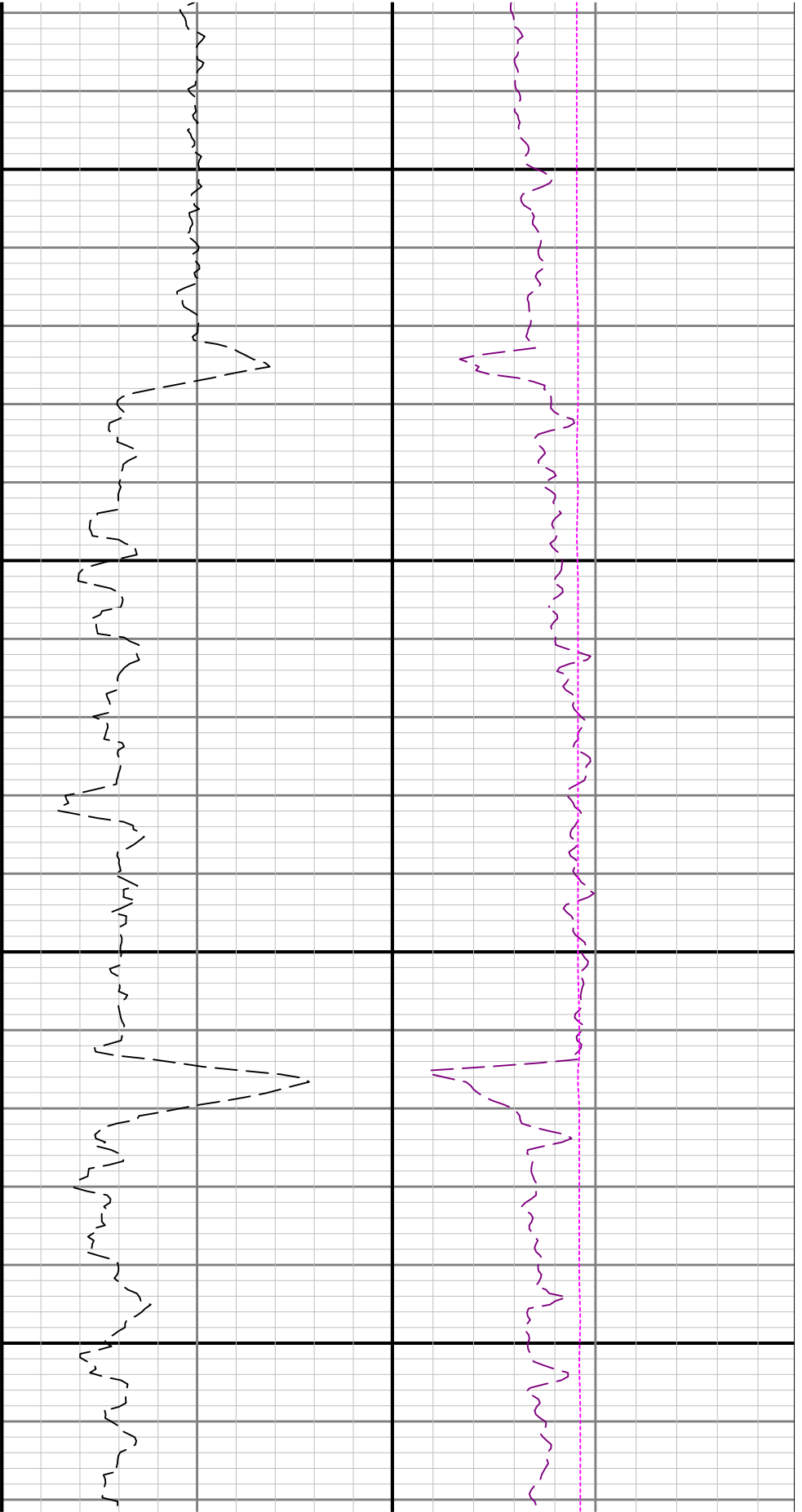
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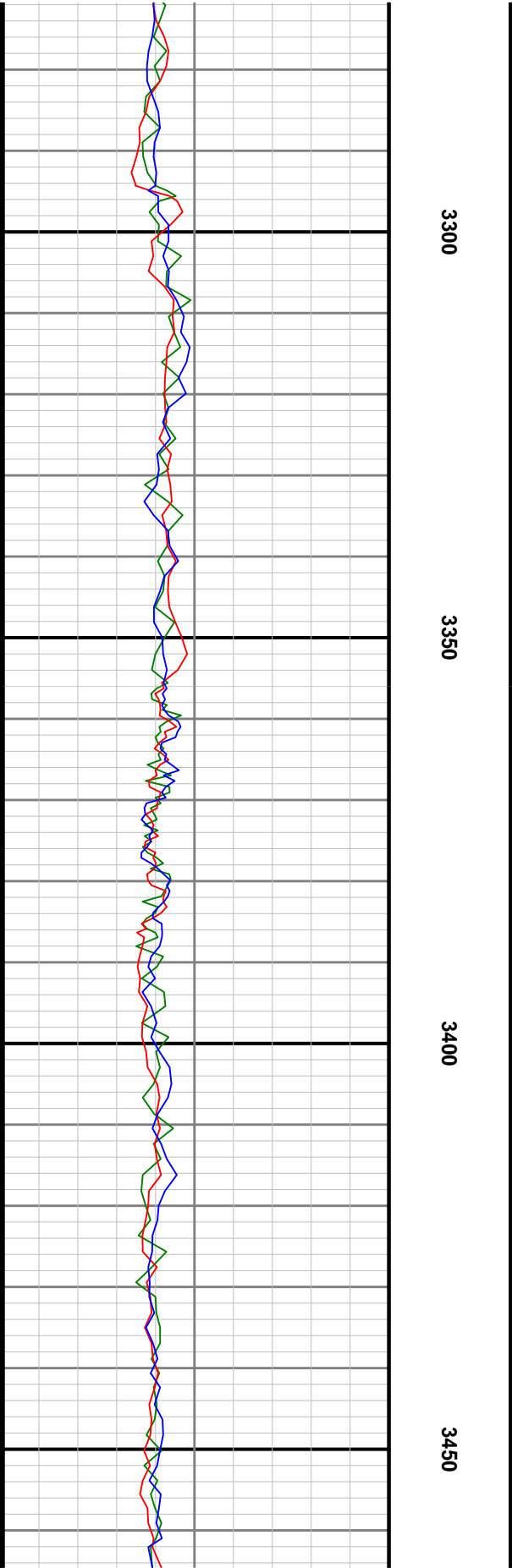
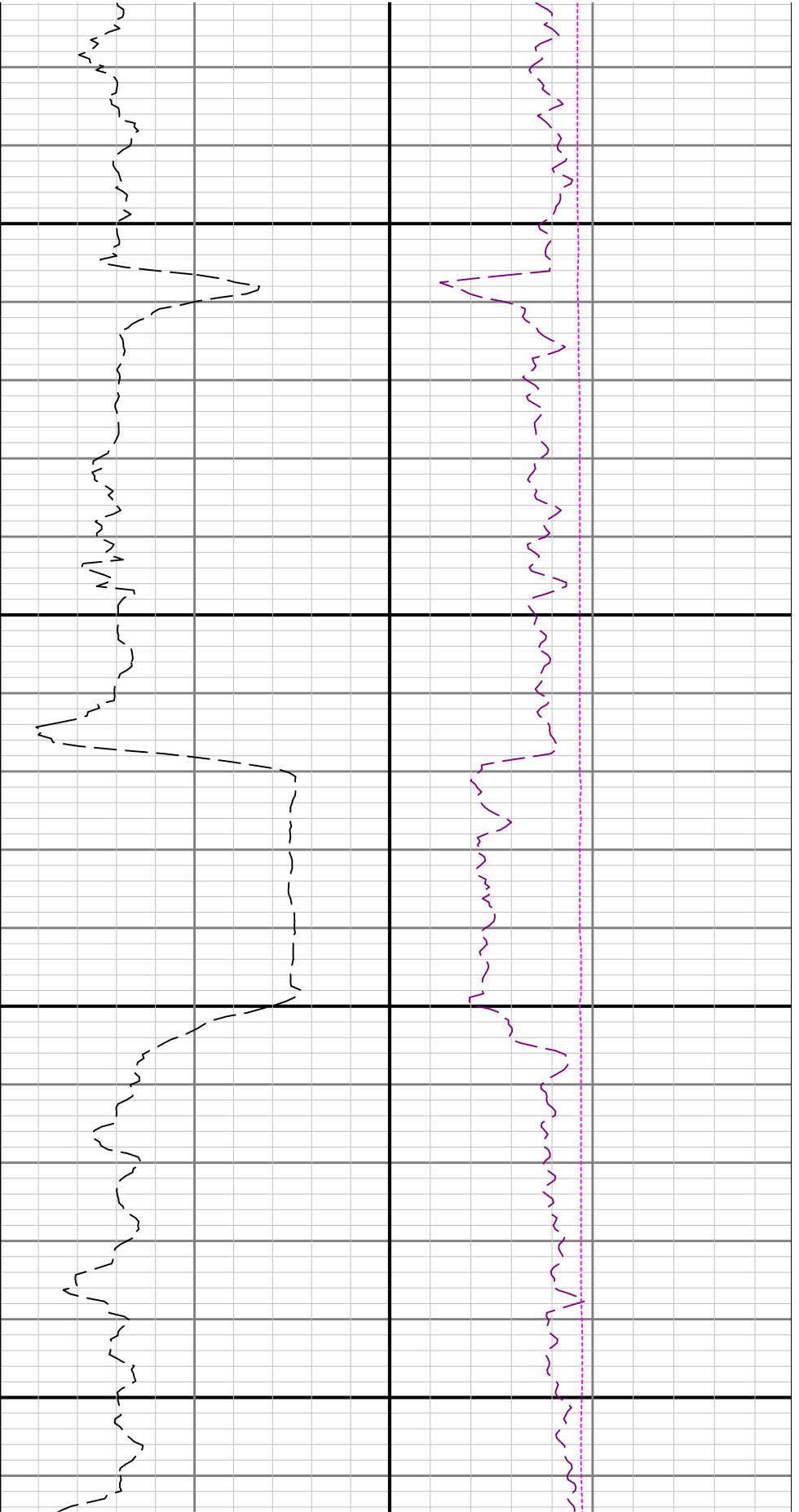


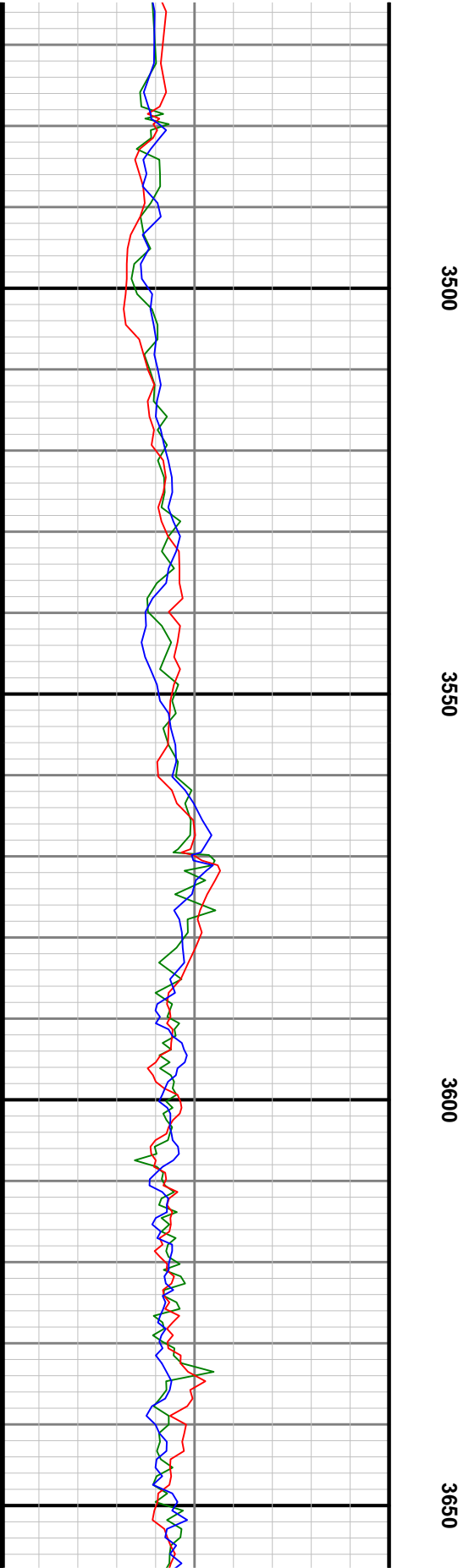


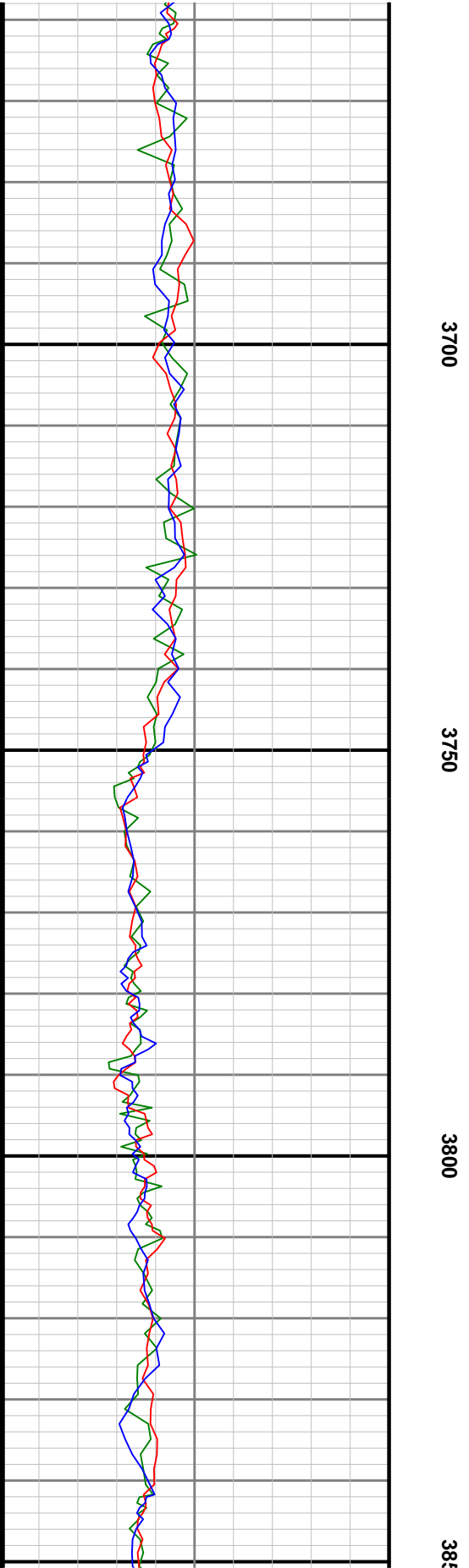
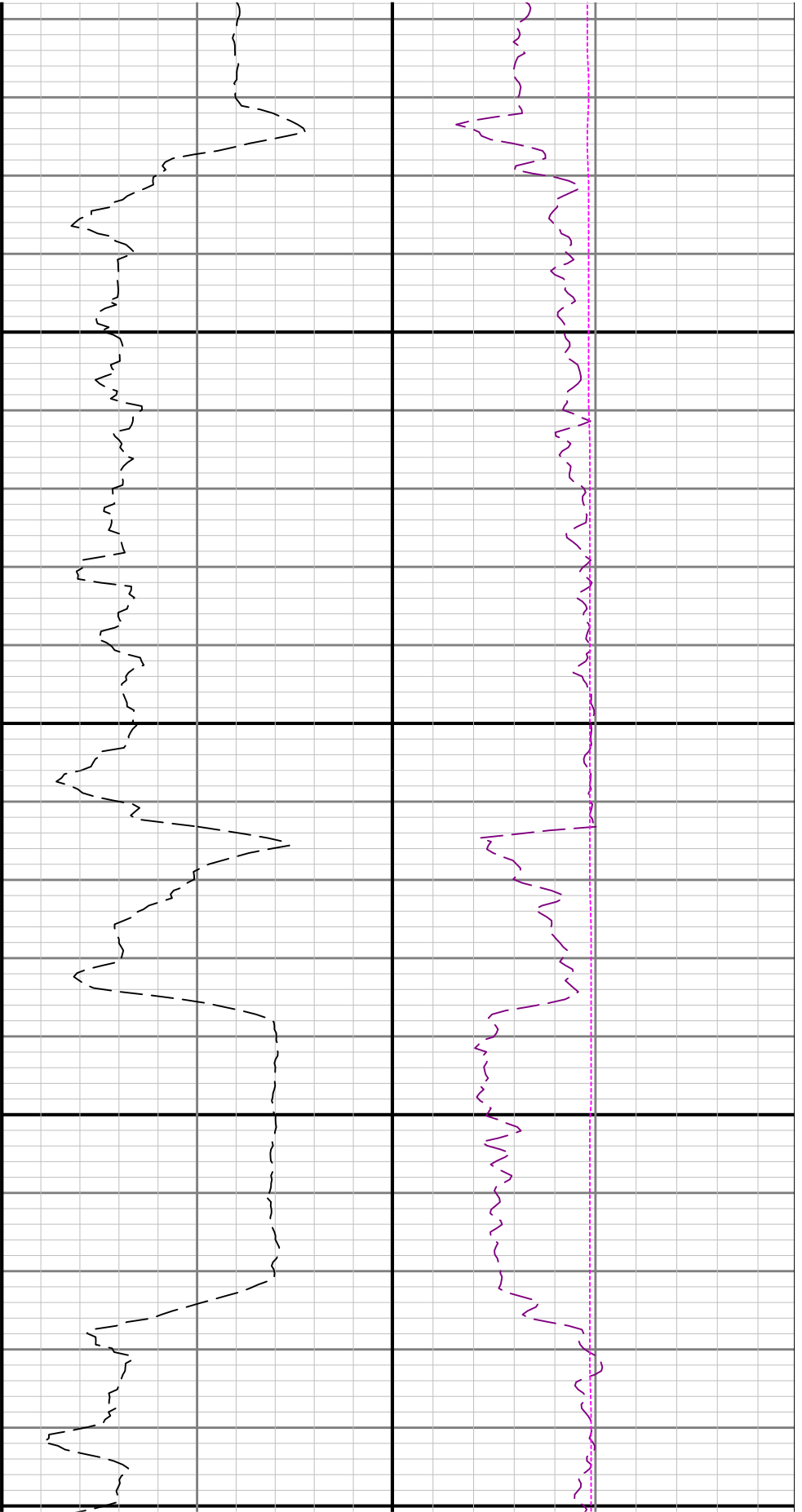


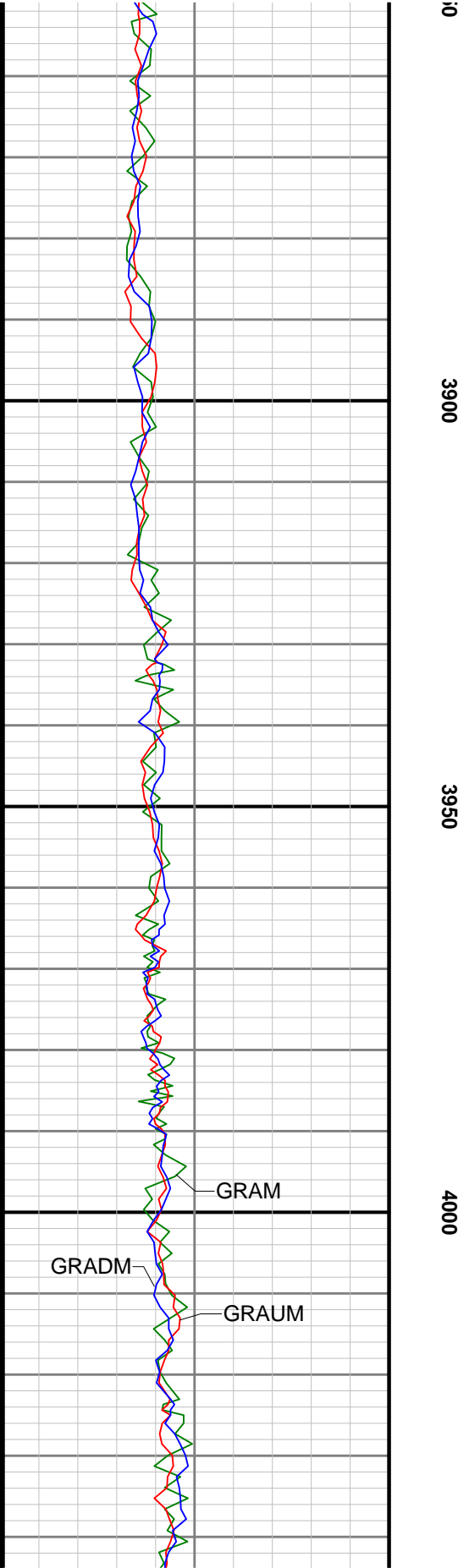
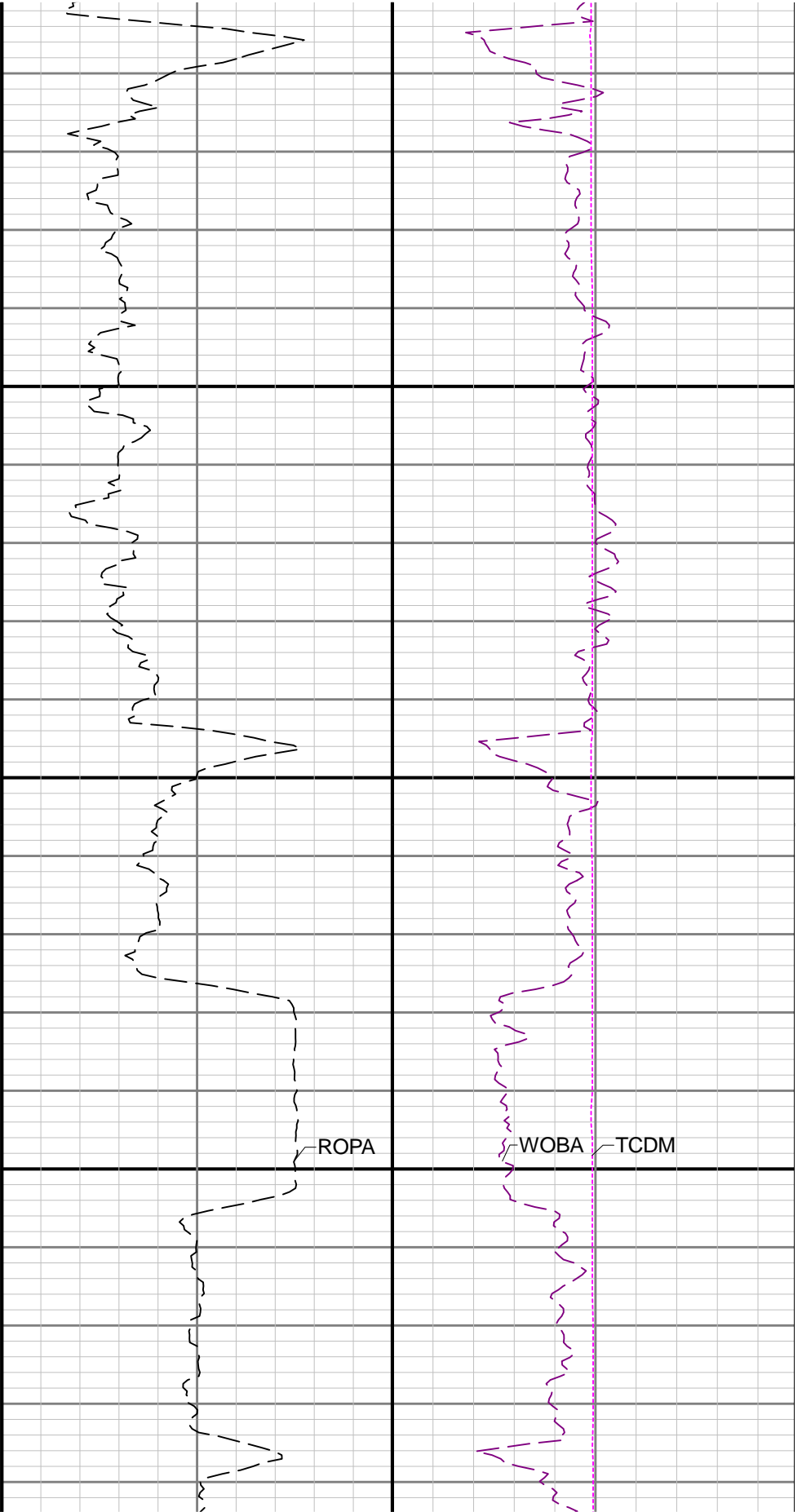


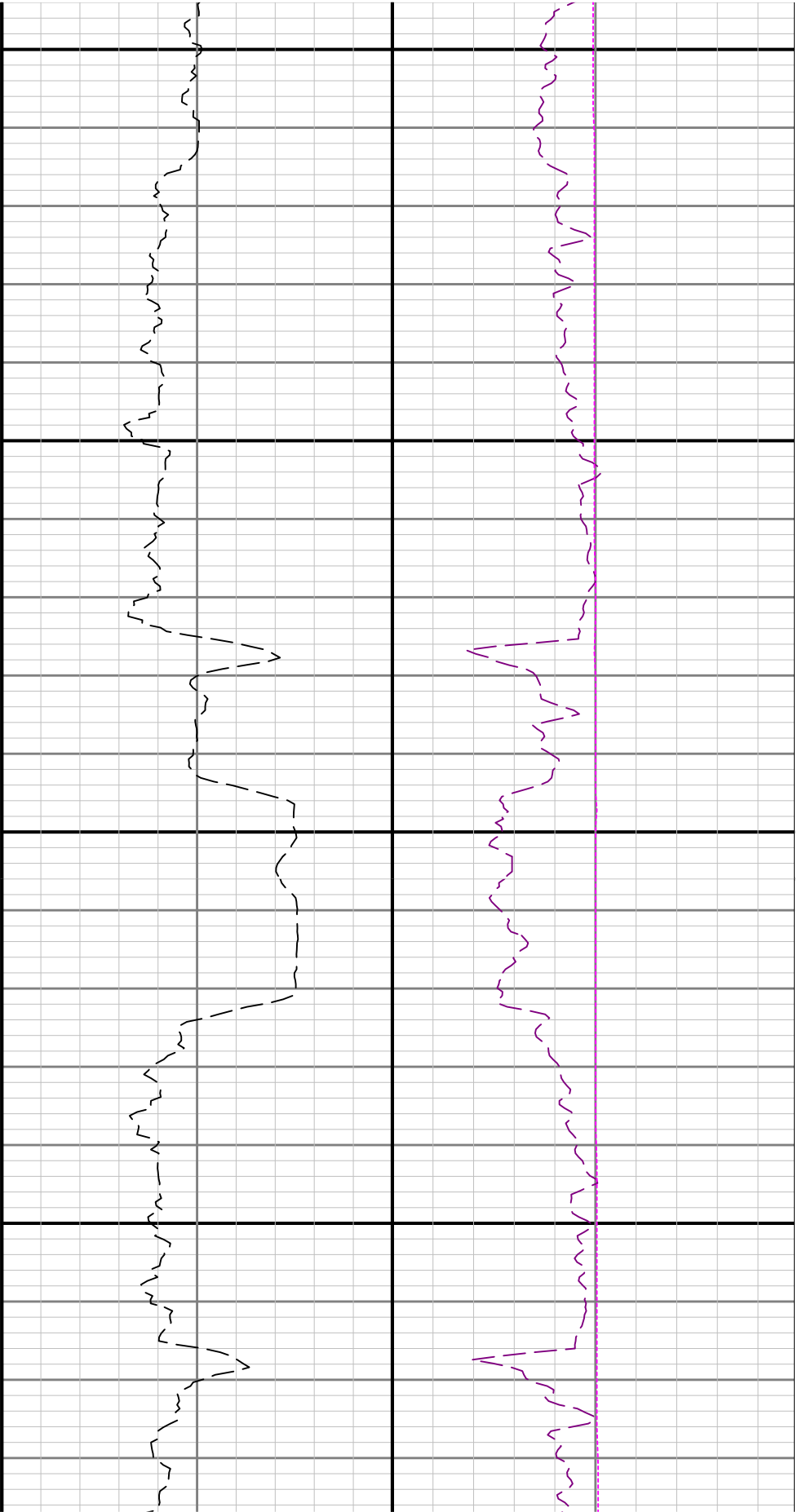










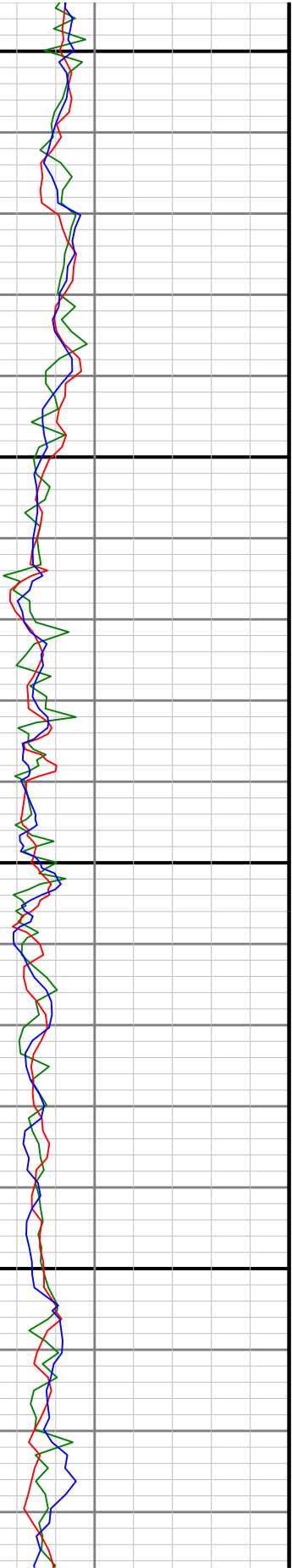


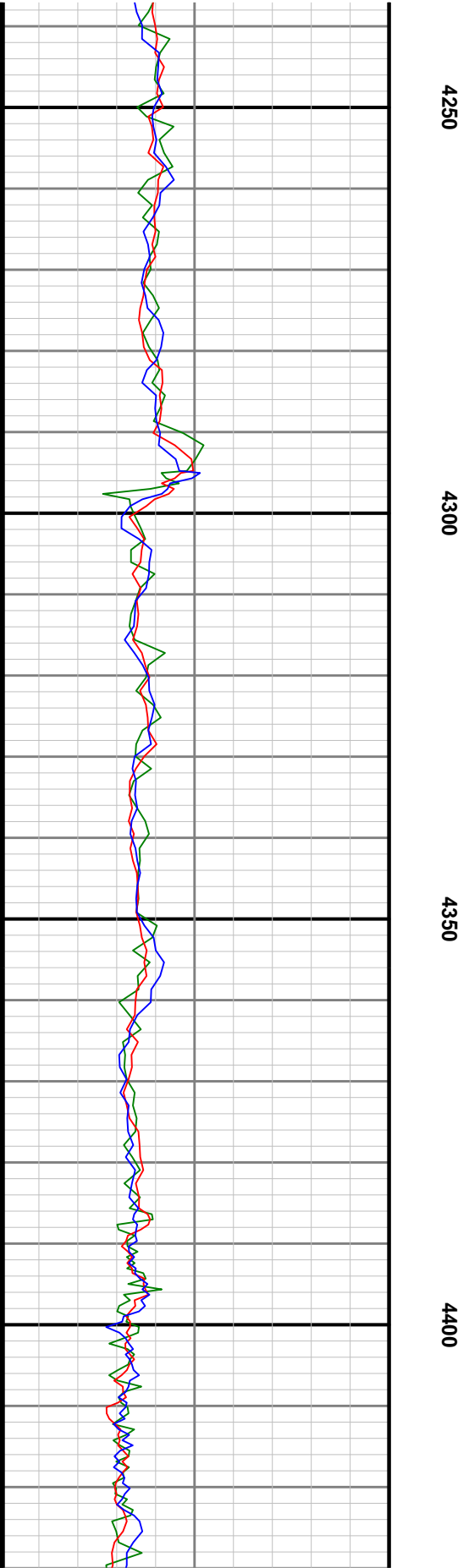
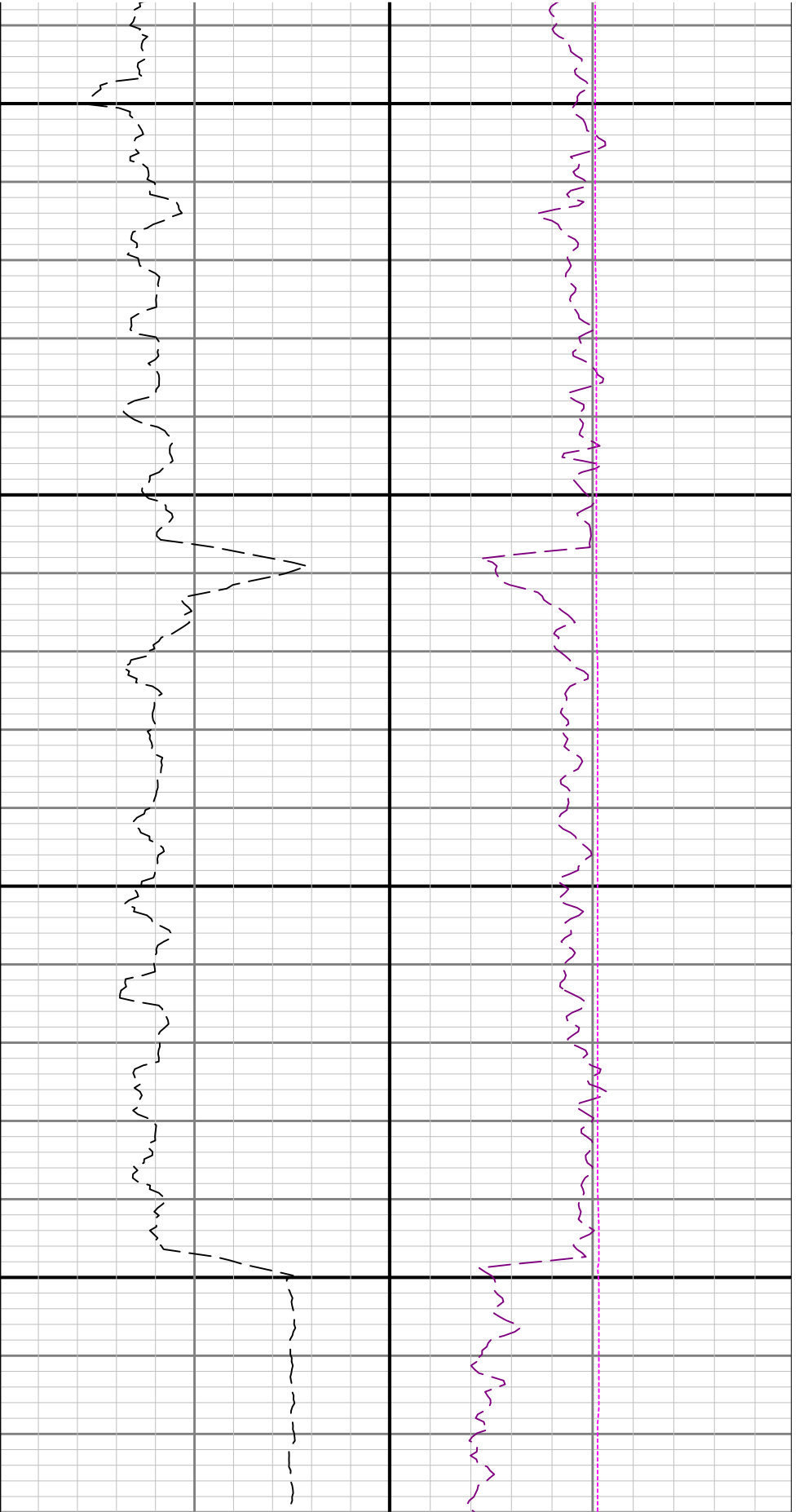
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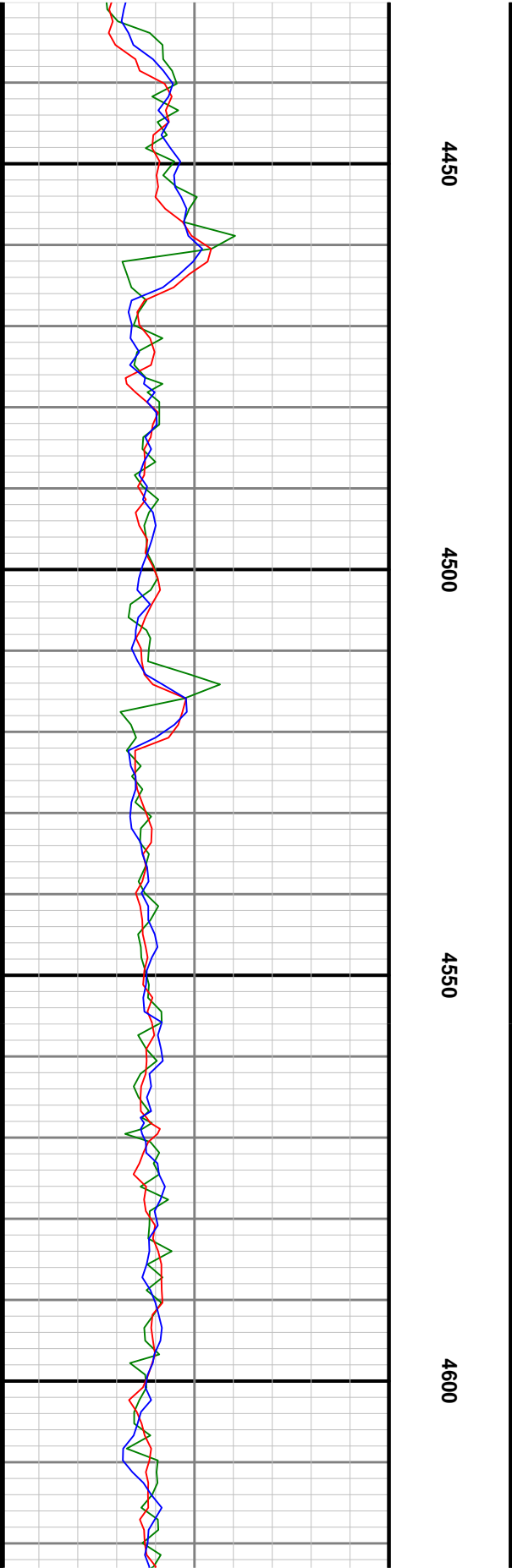
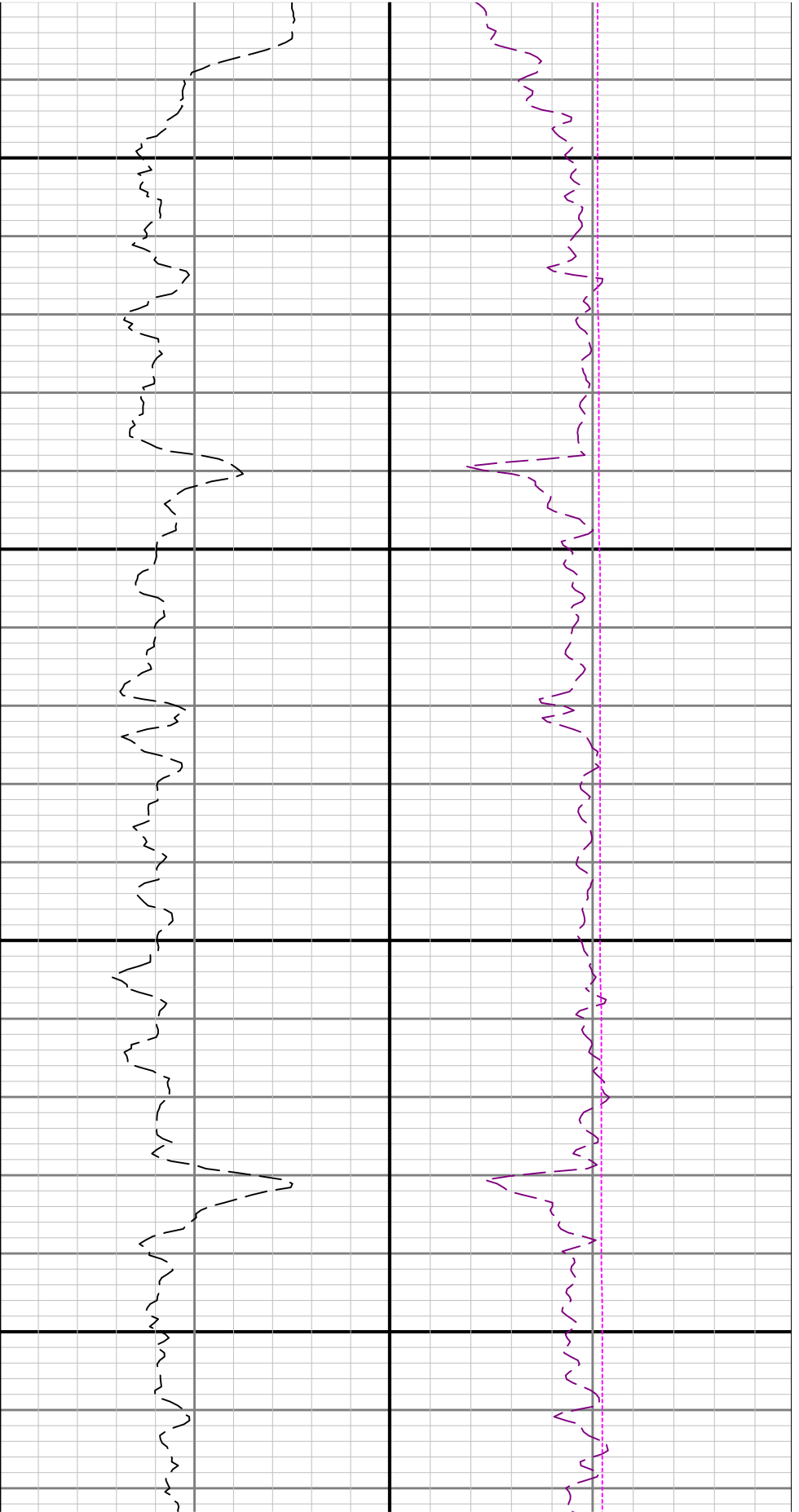
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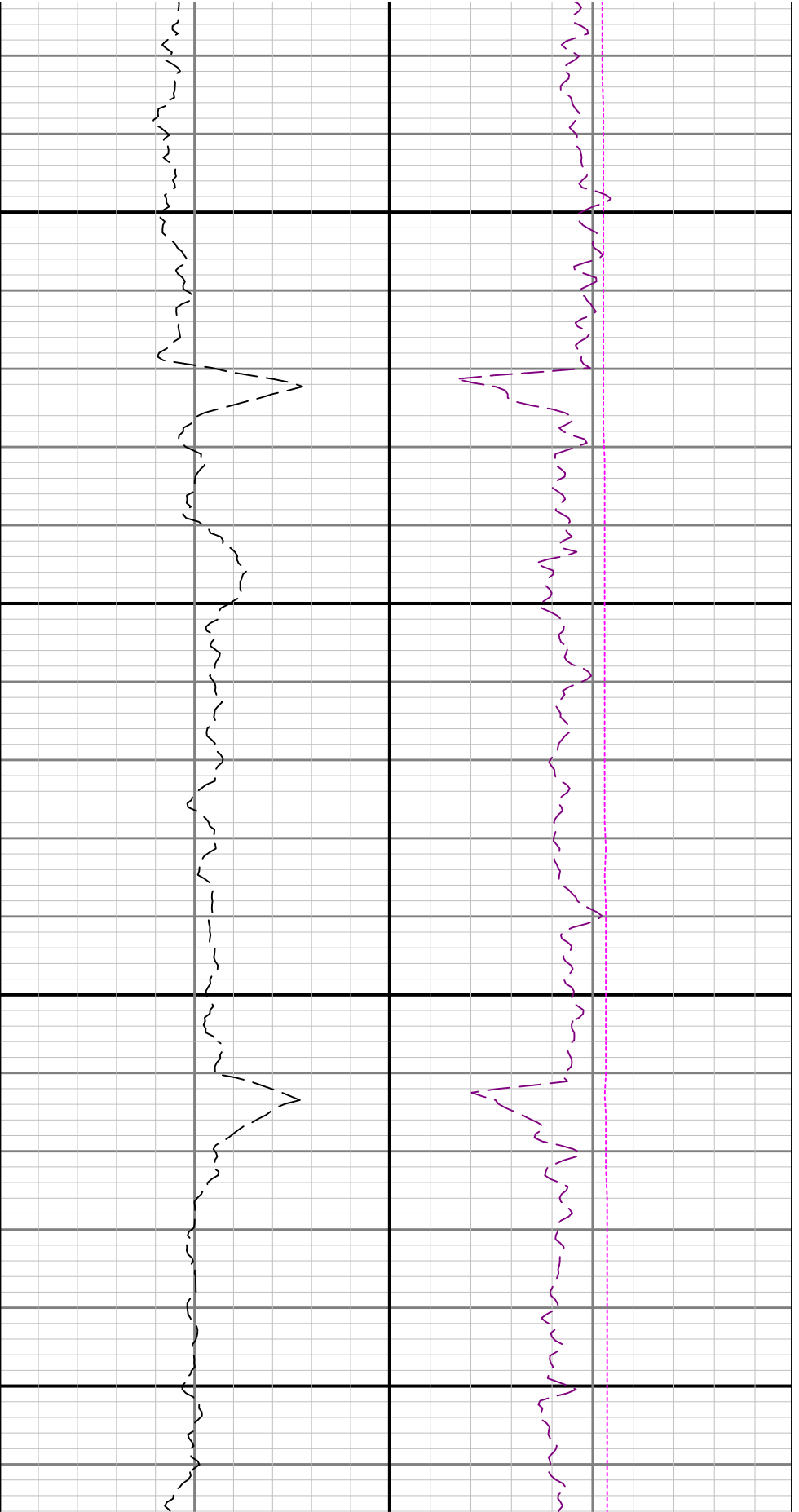
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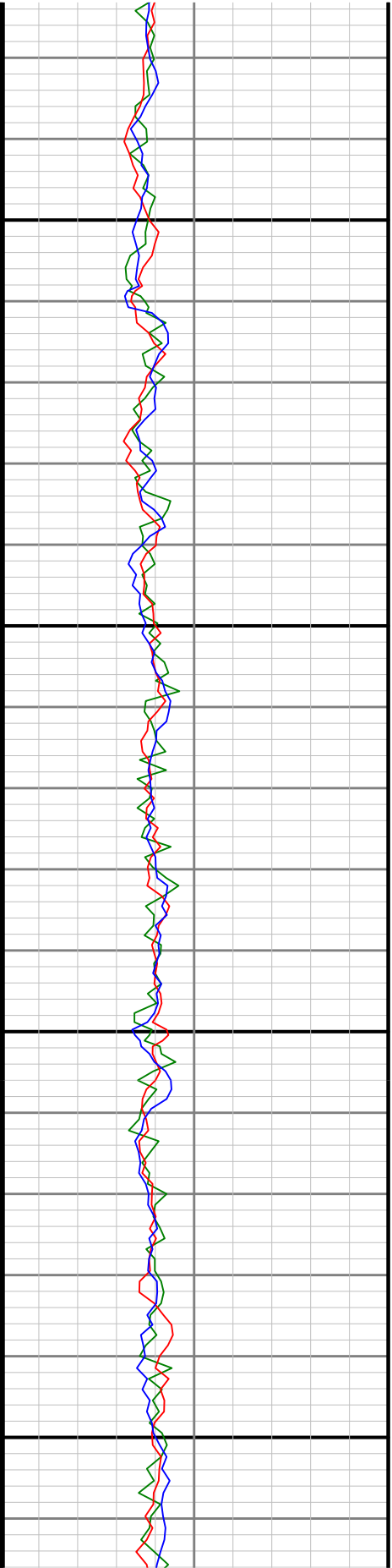


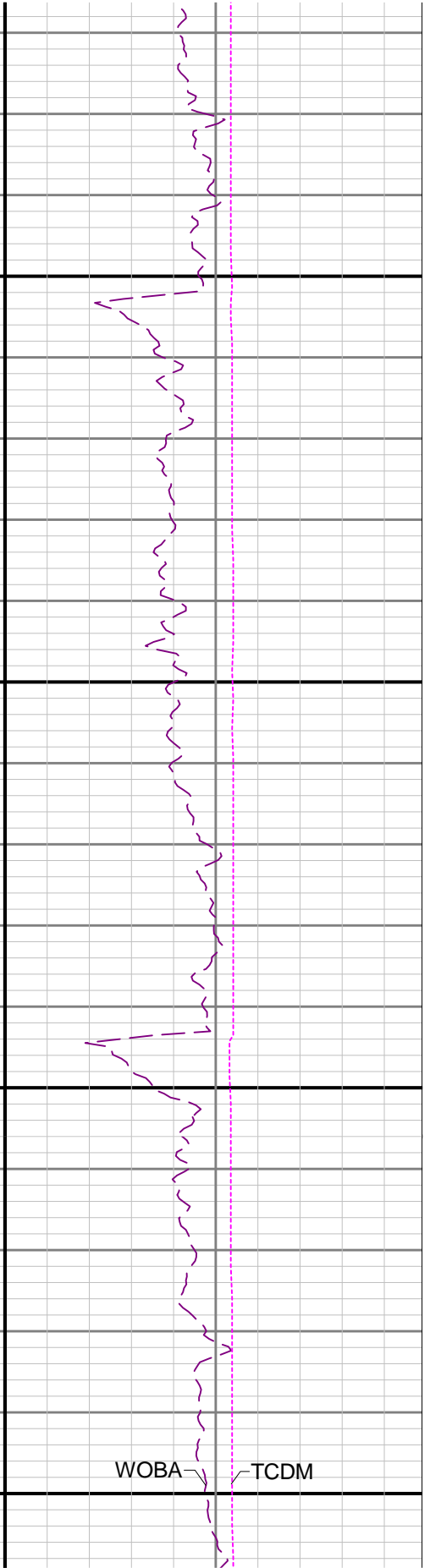
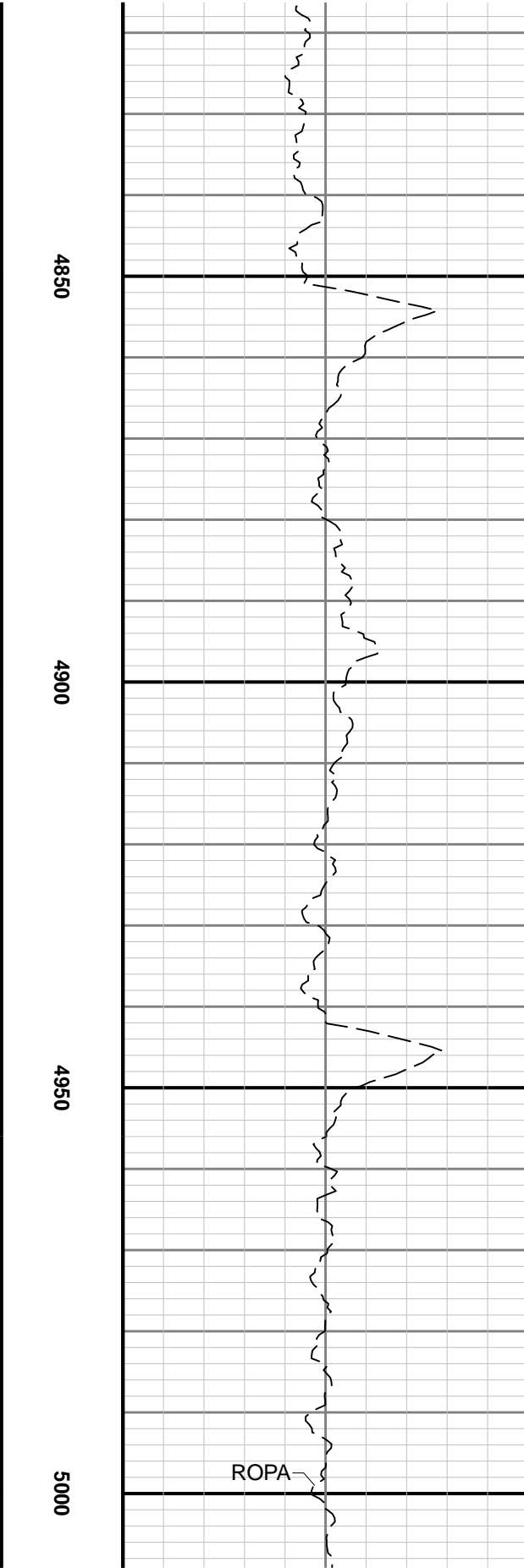
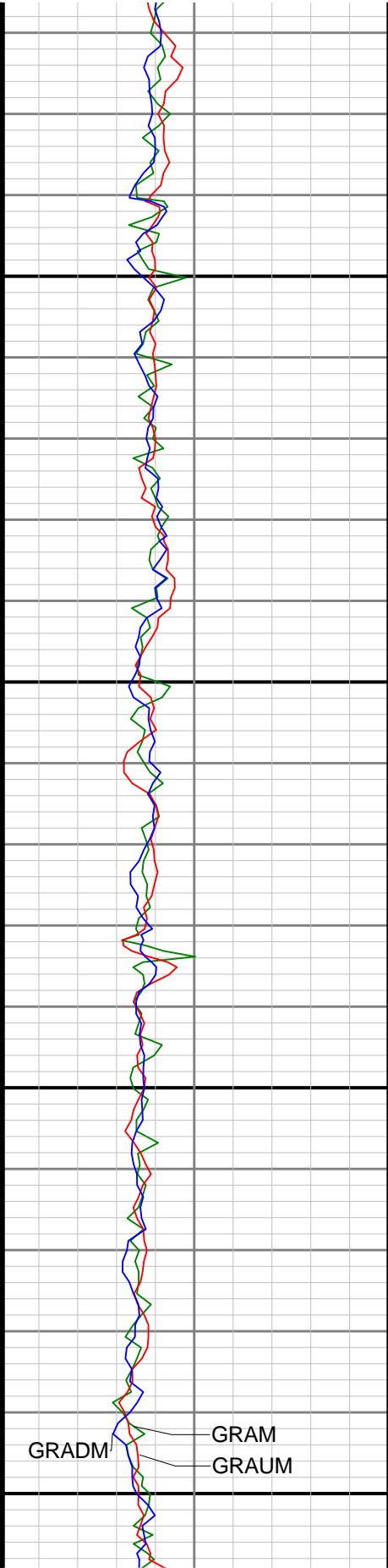
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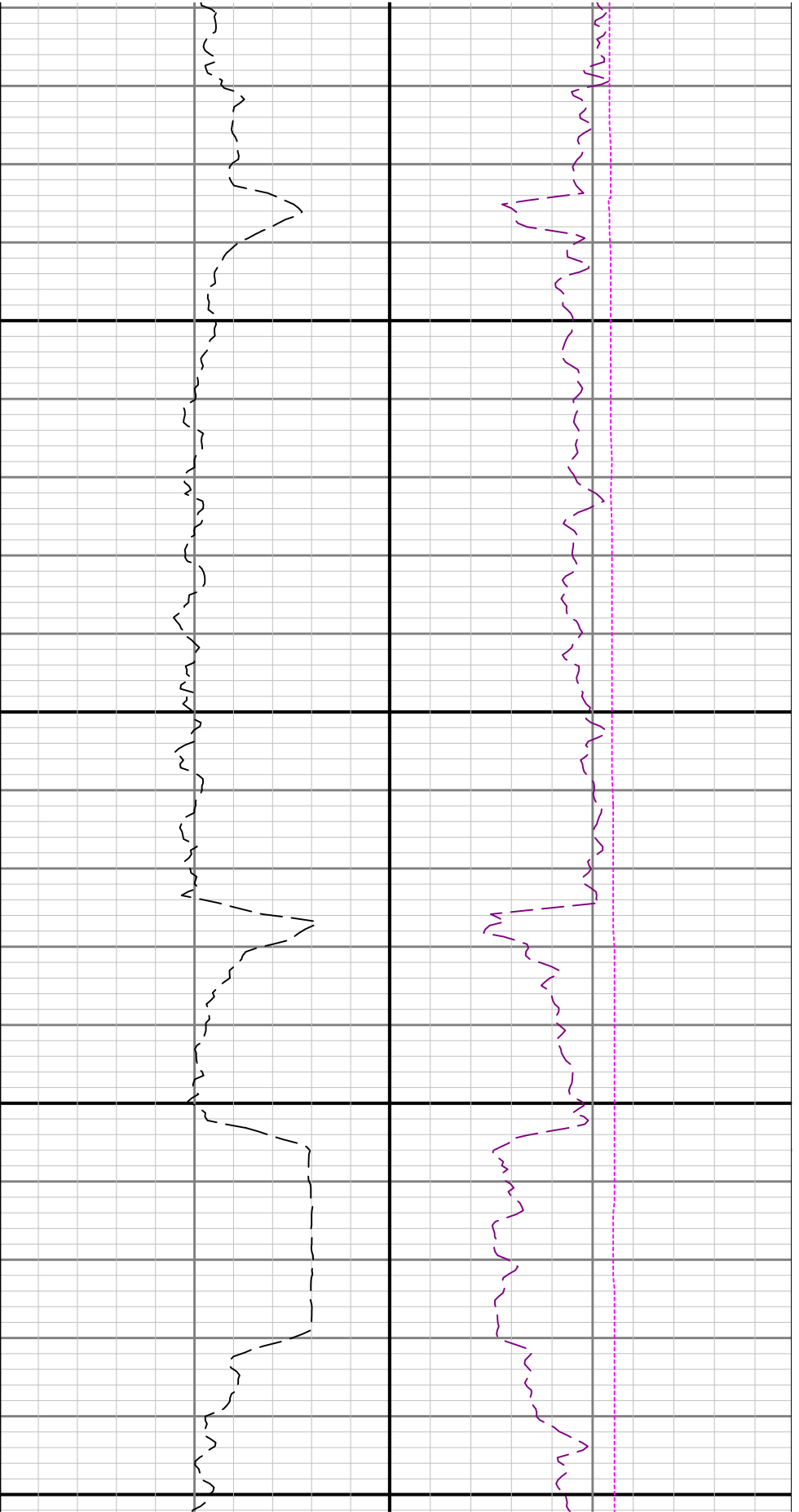
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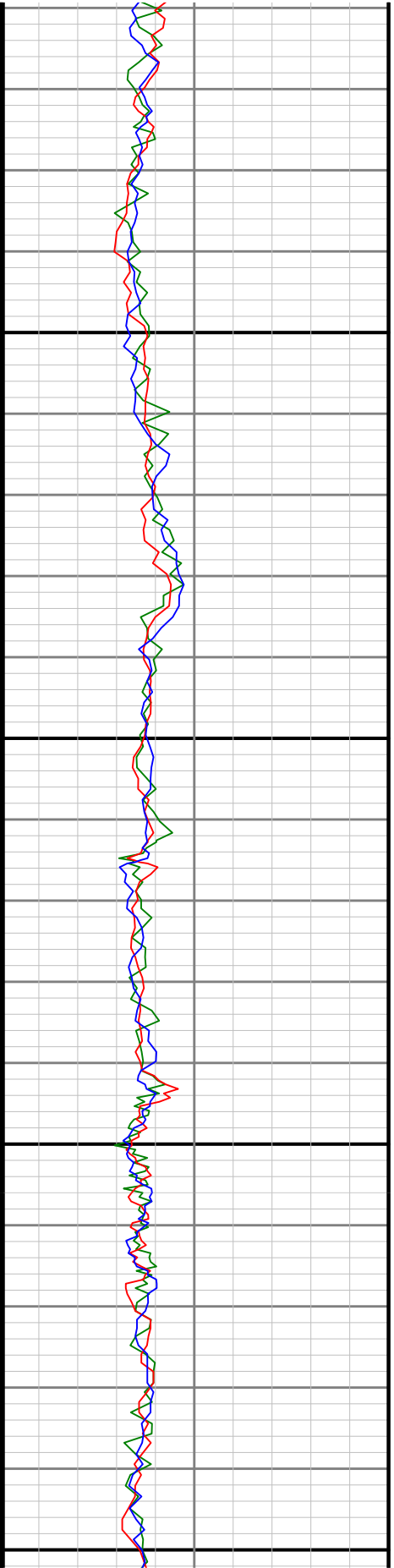


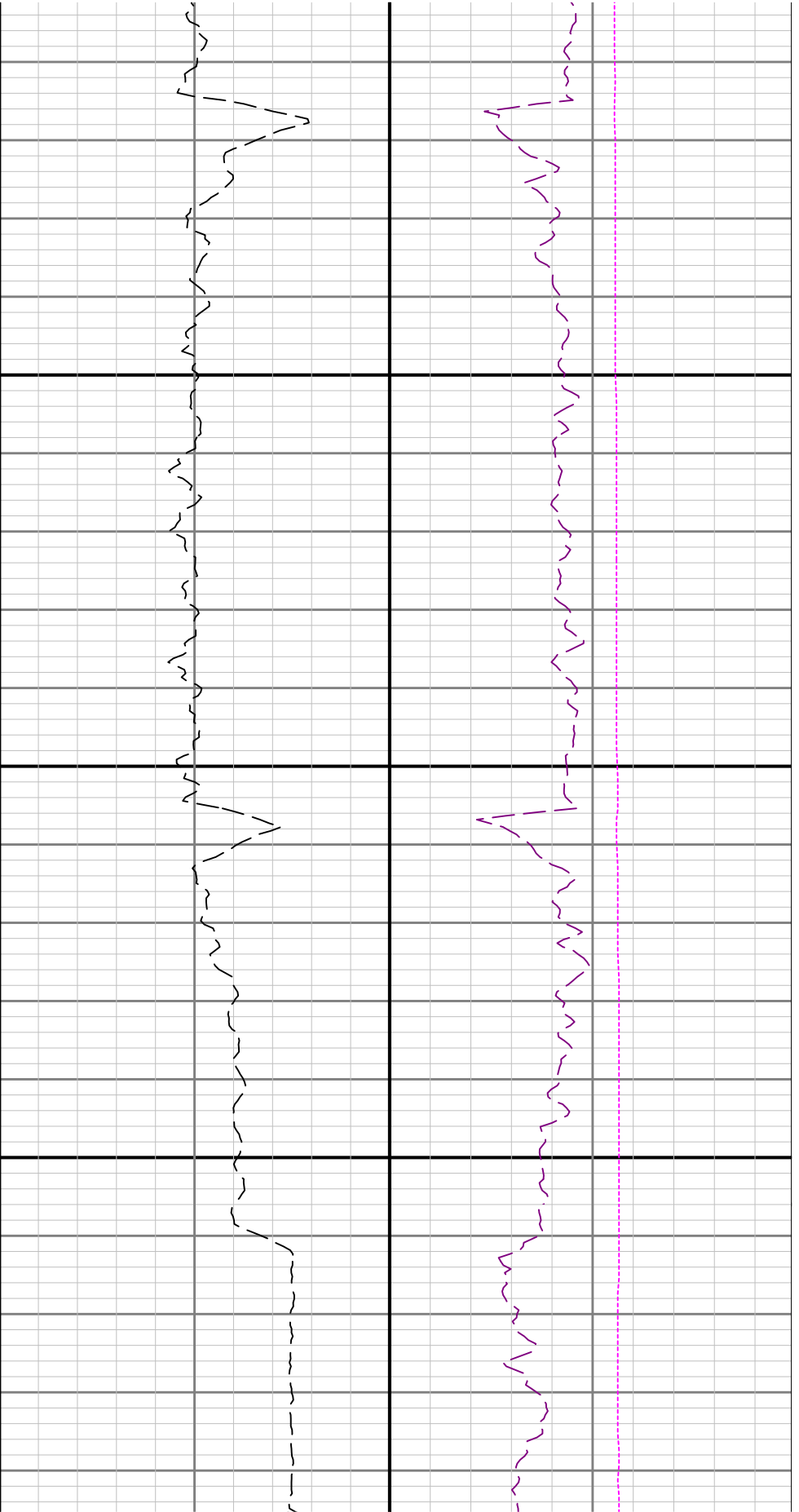
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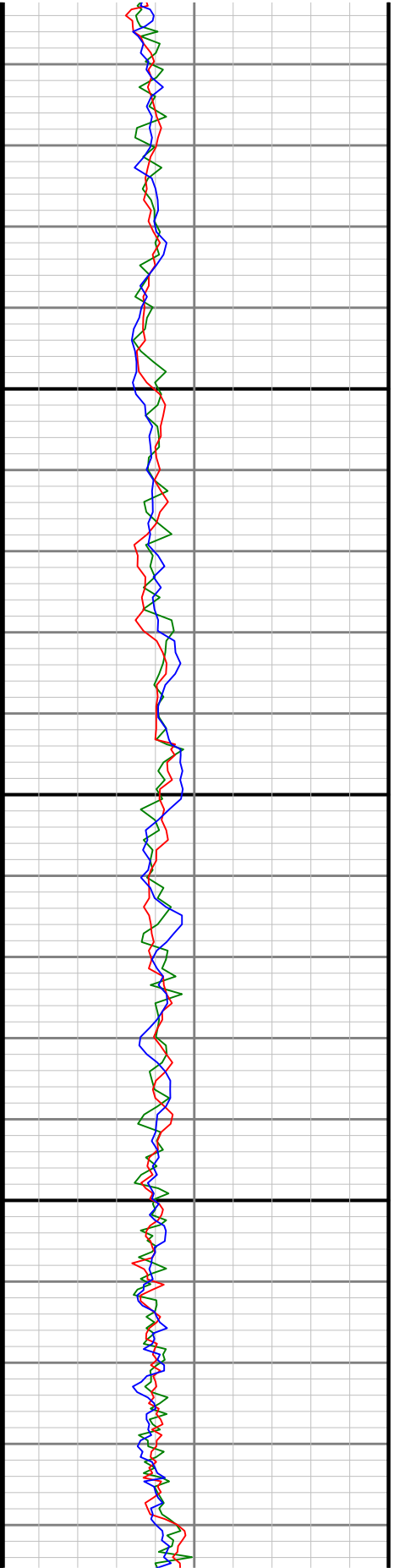


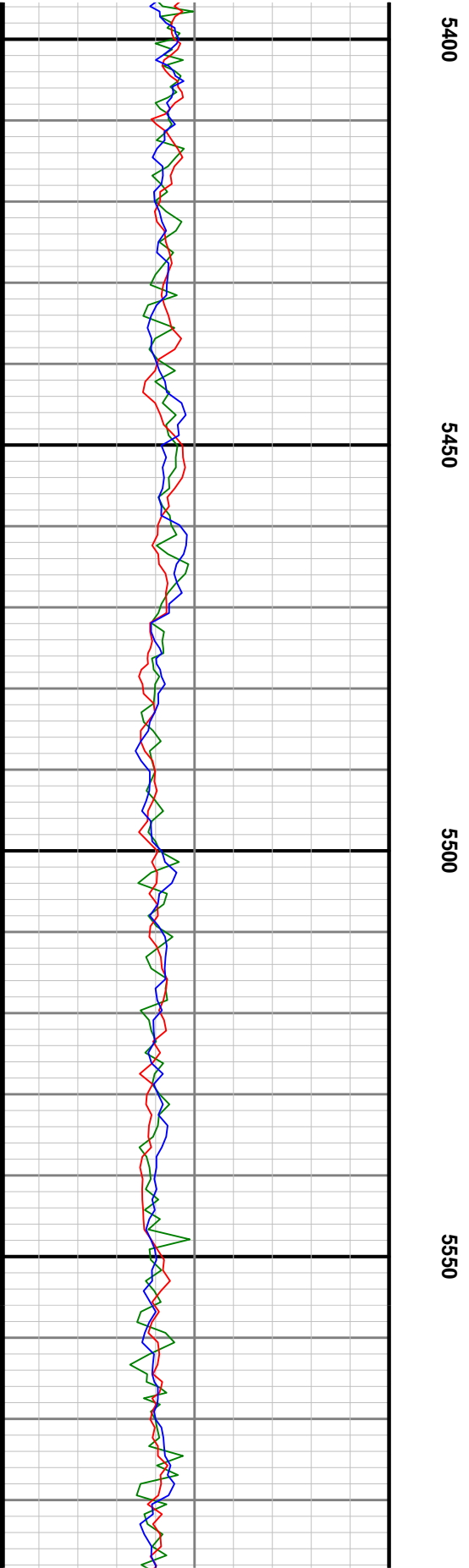
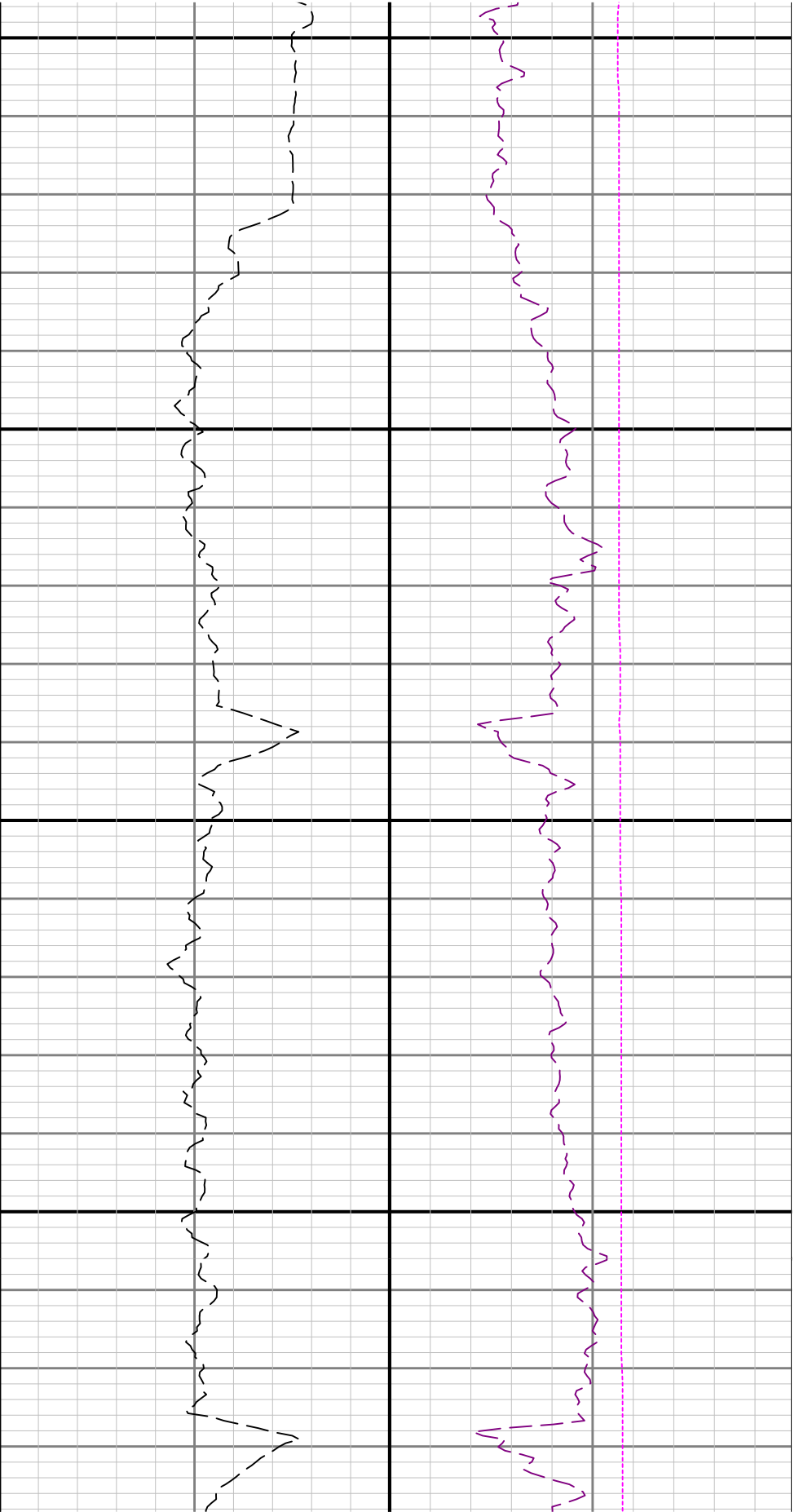


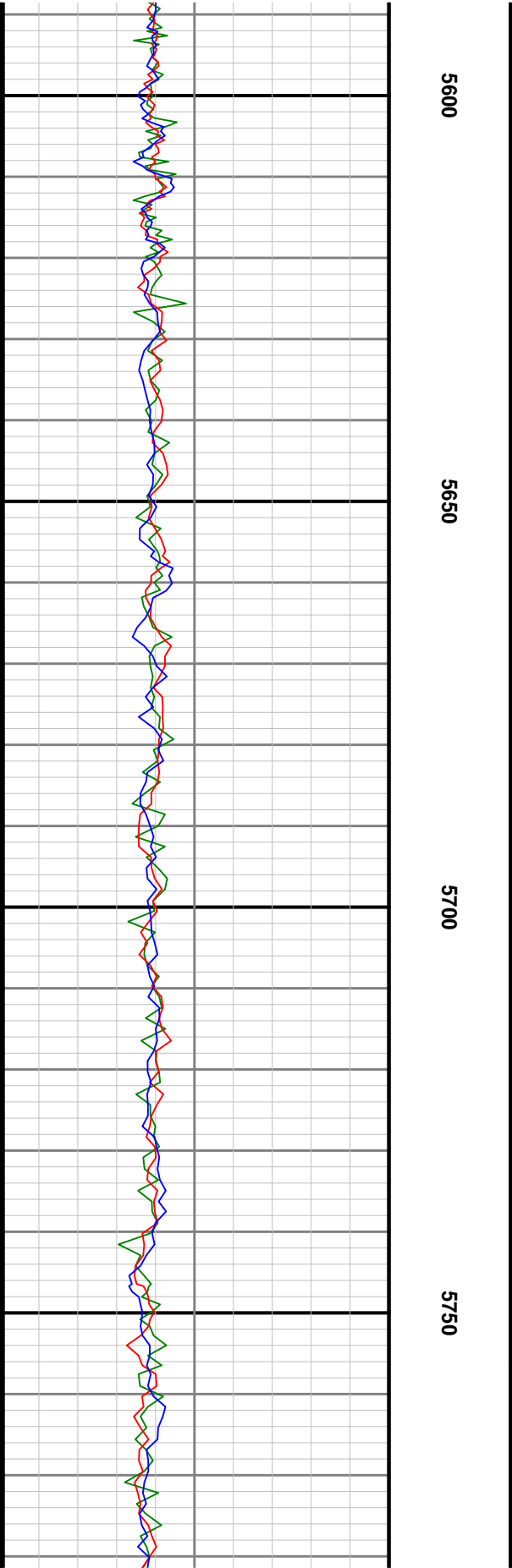
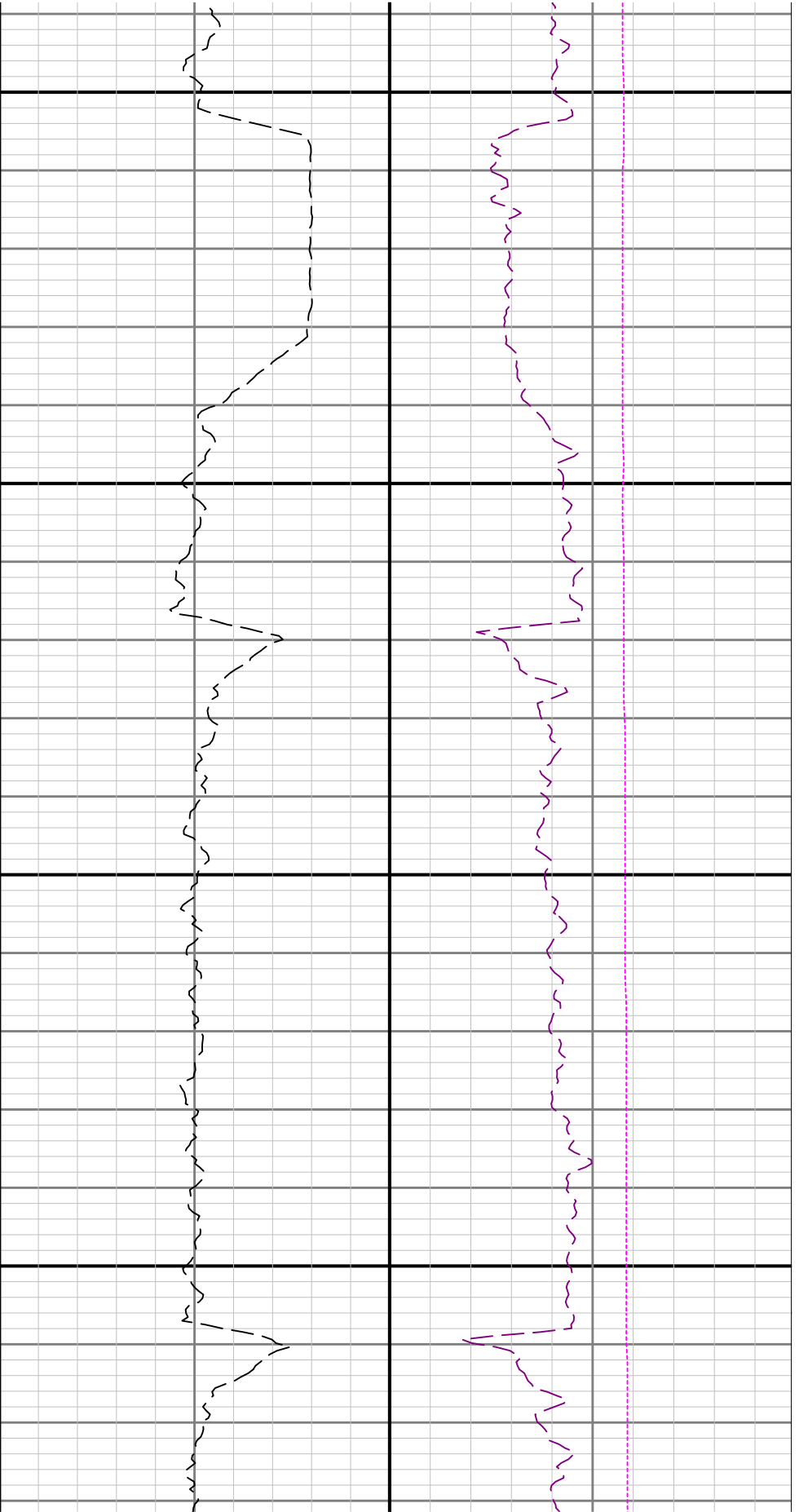
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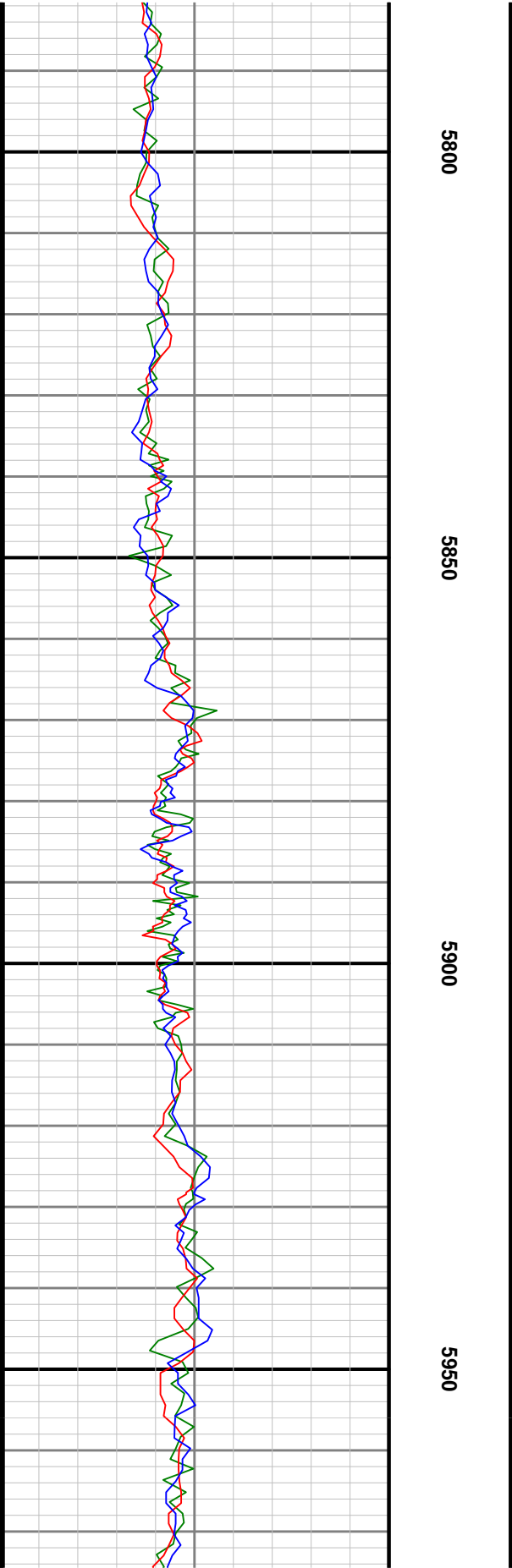
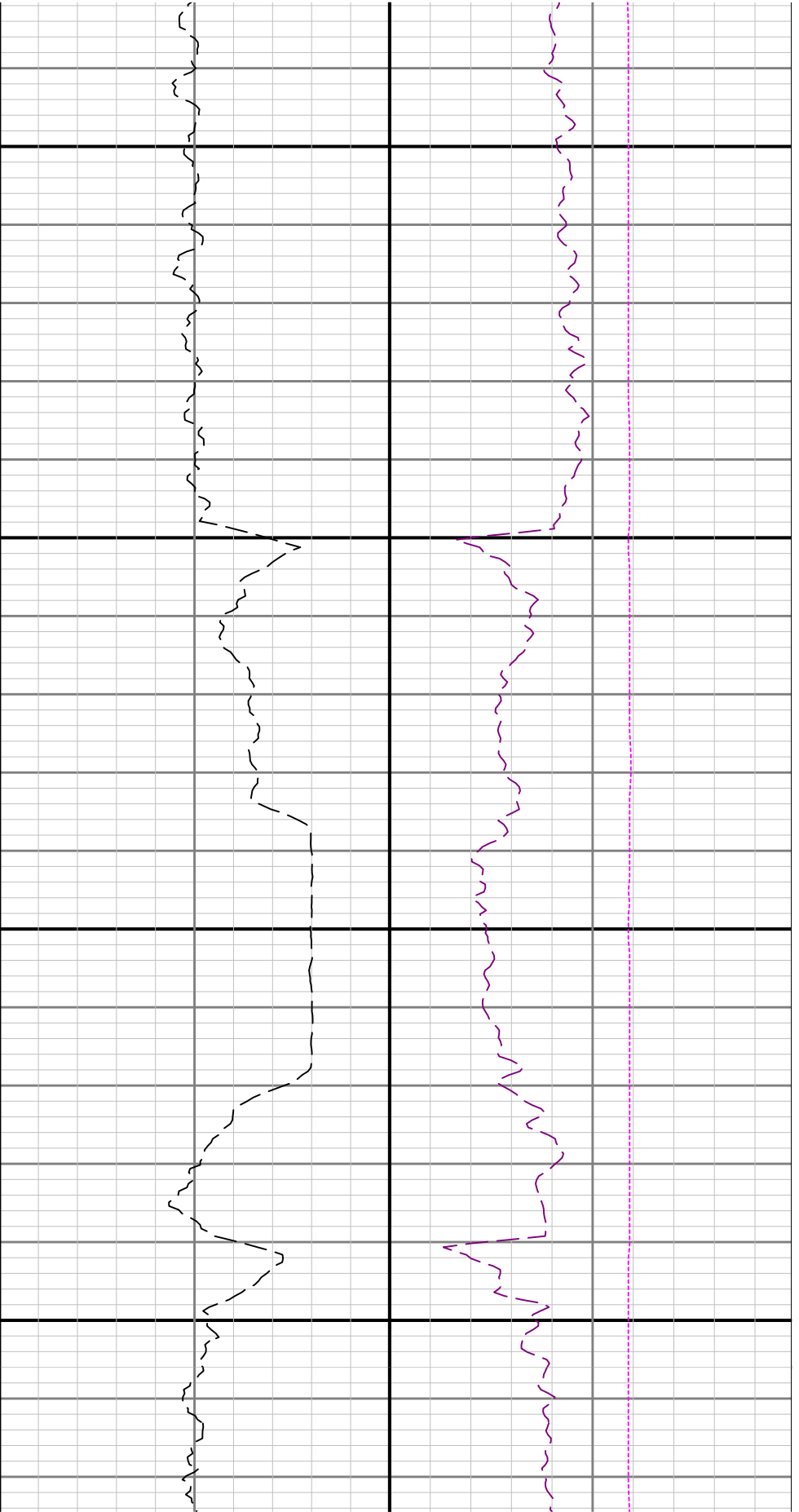
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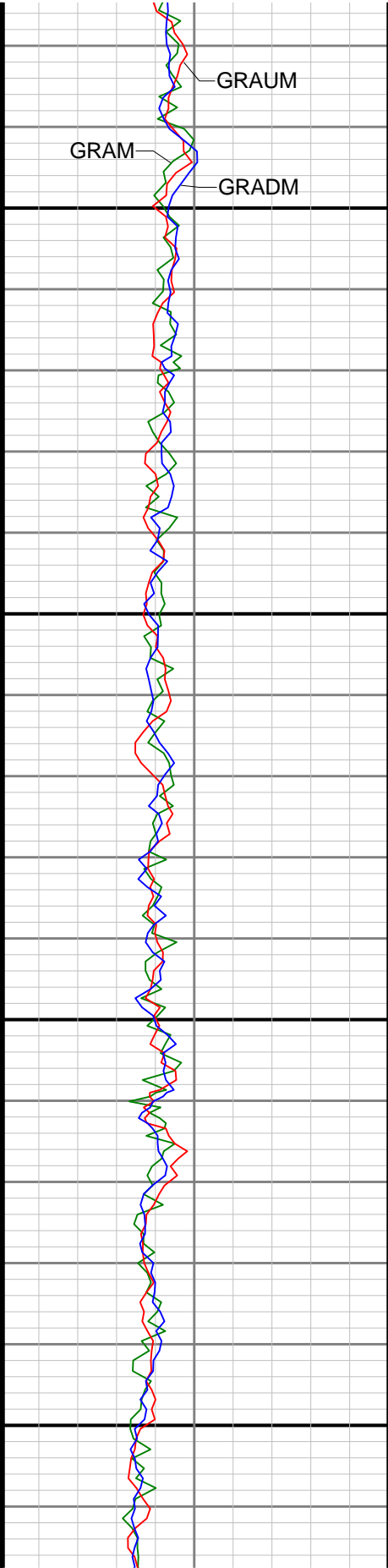
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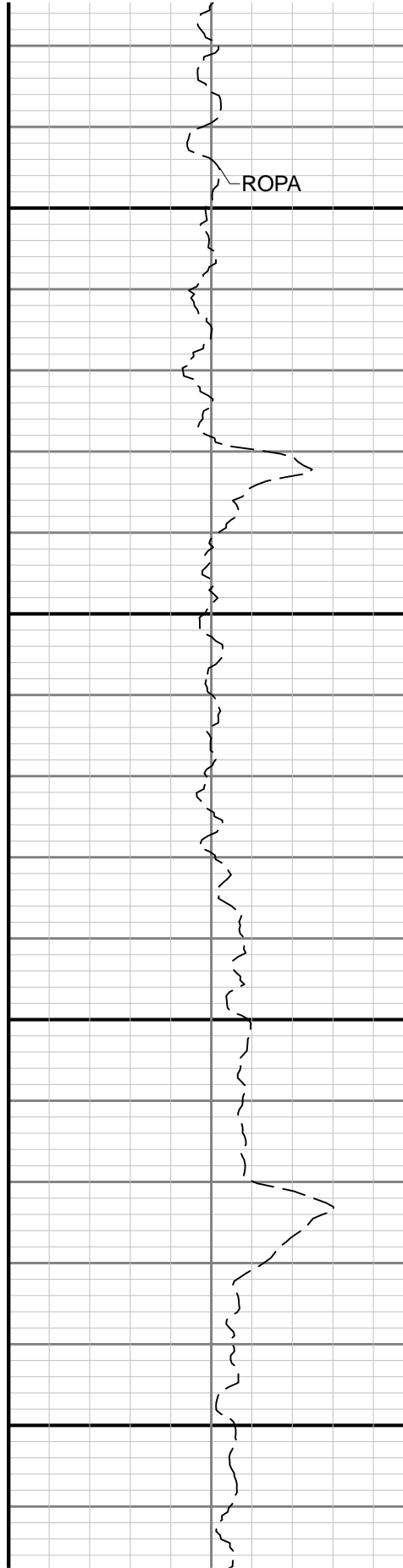


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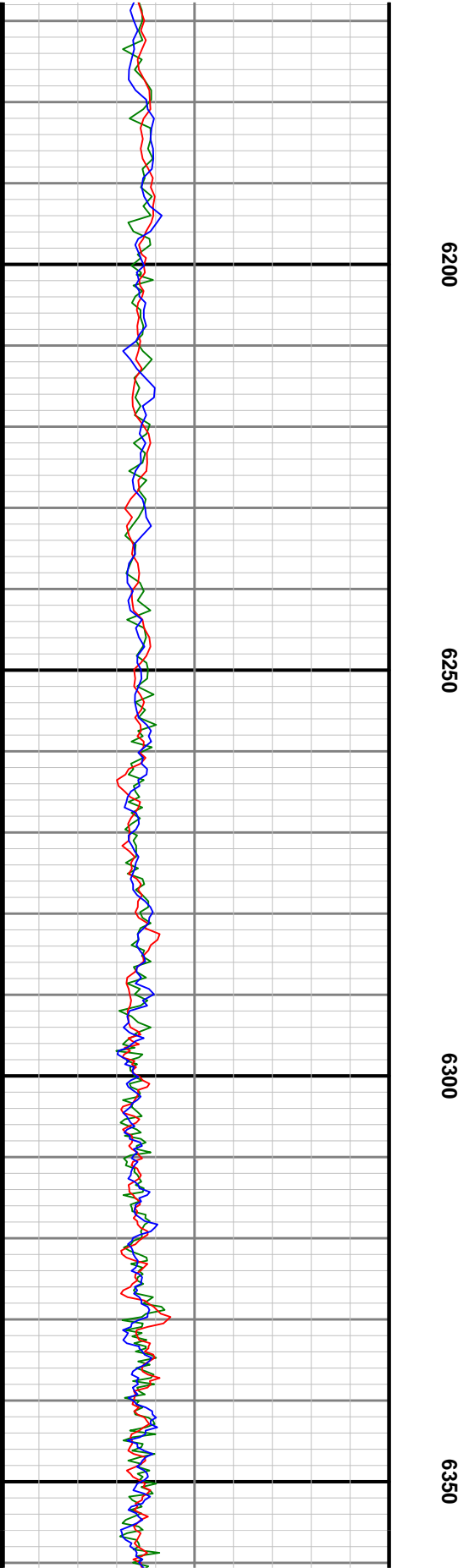
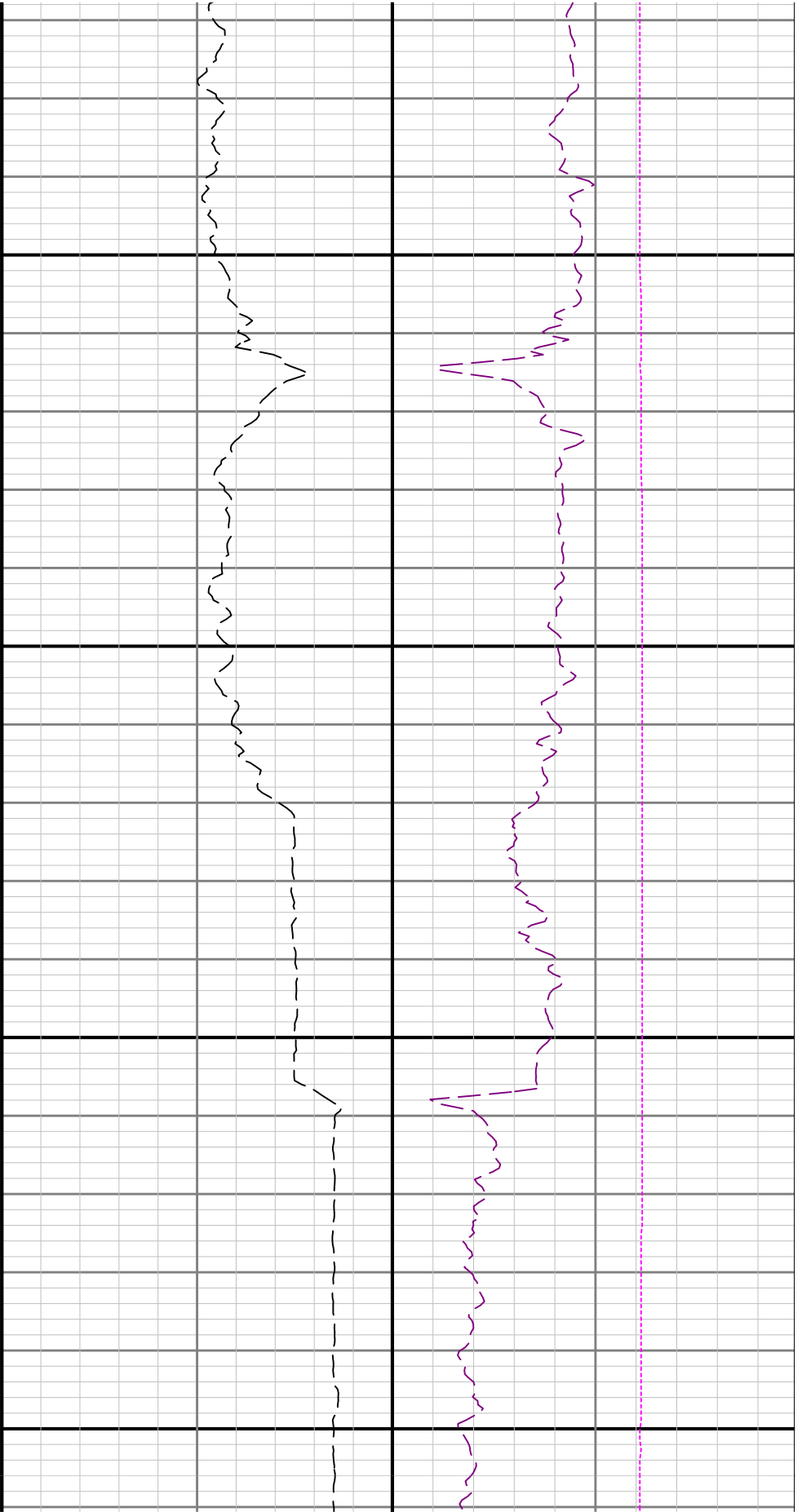


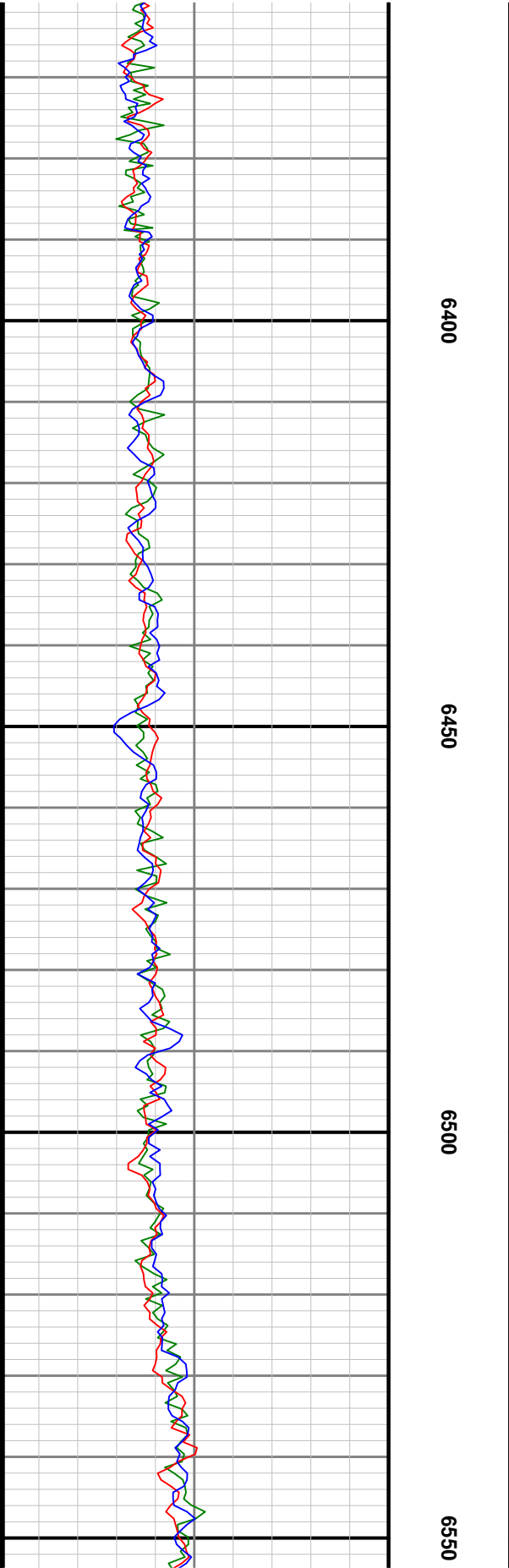
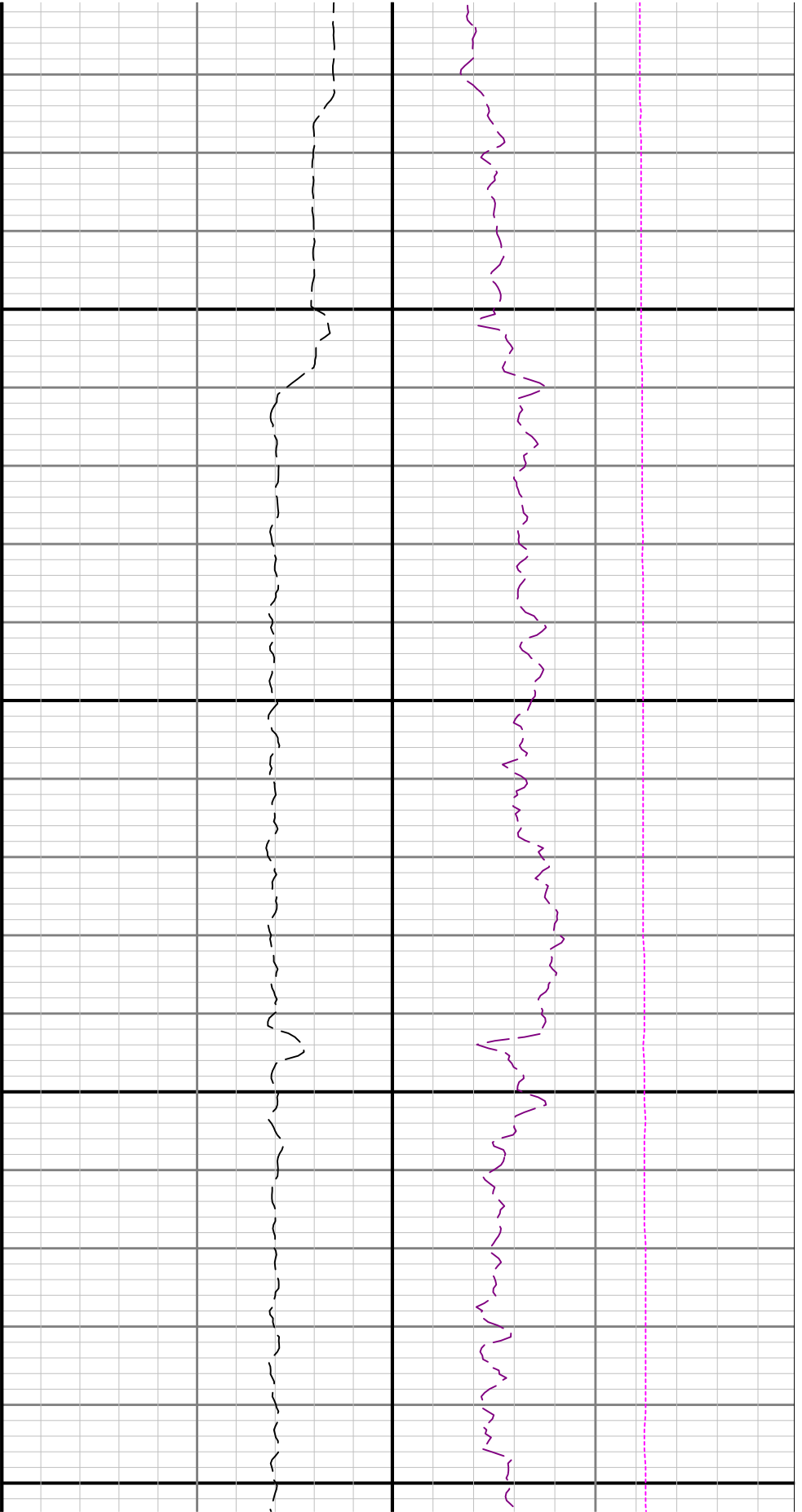
ROPA

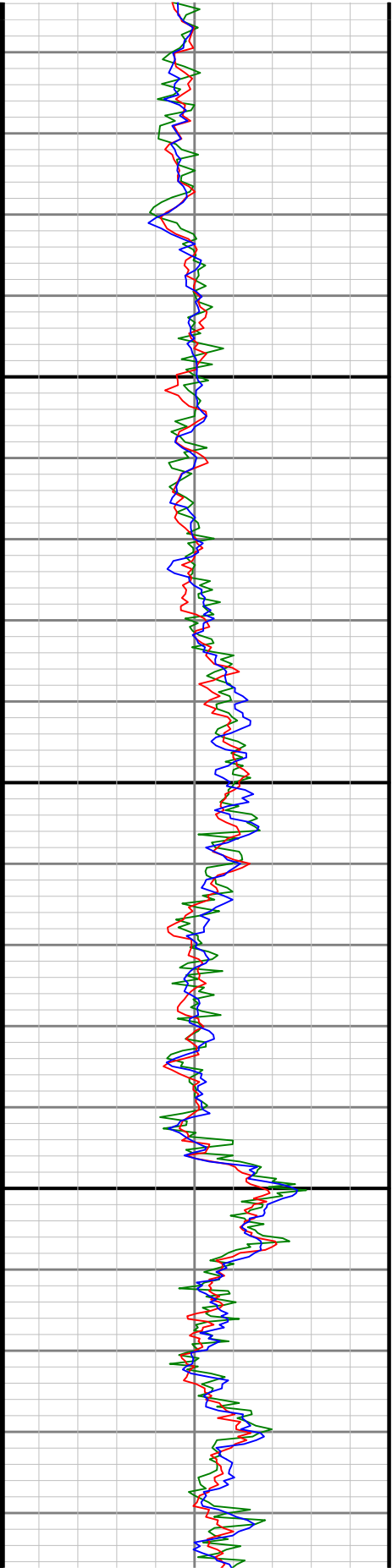


WOBA

TCDM



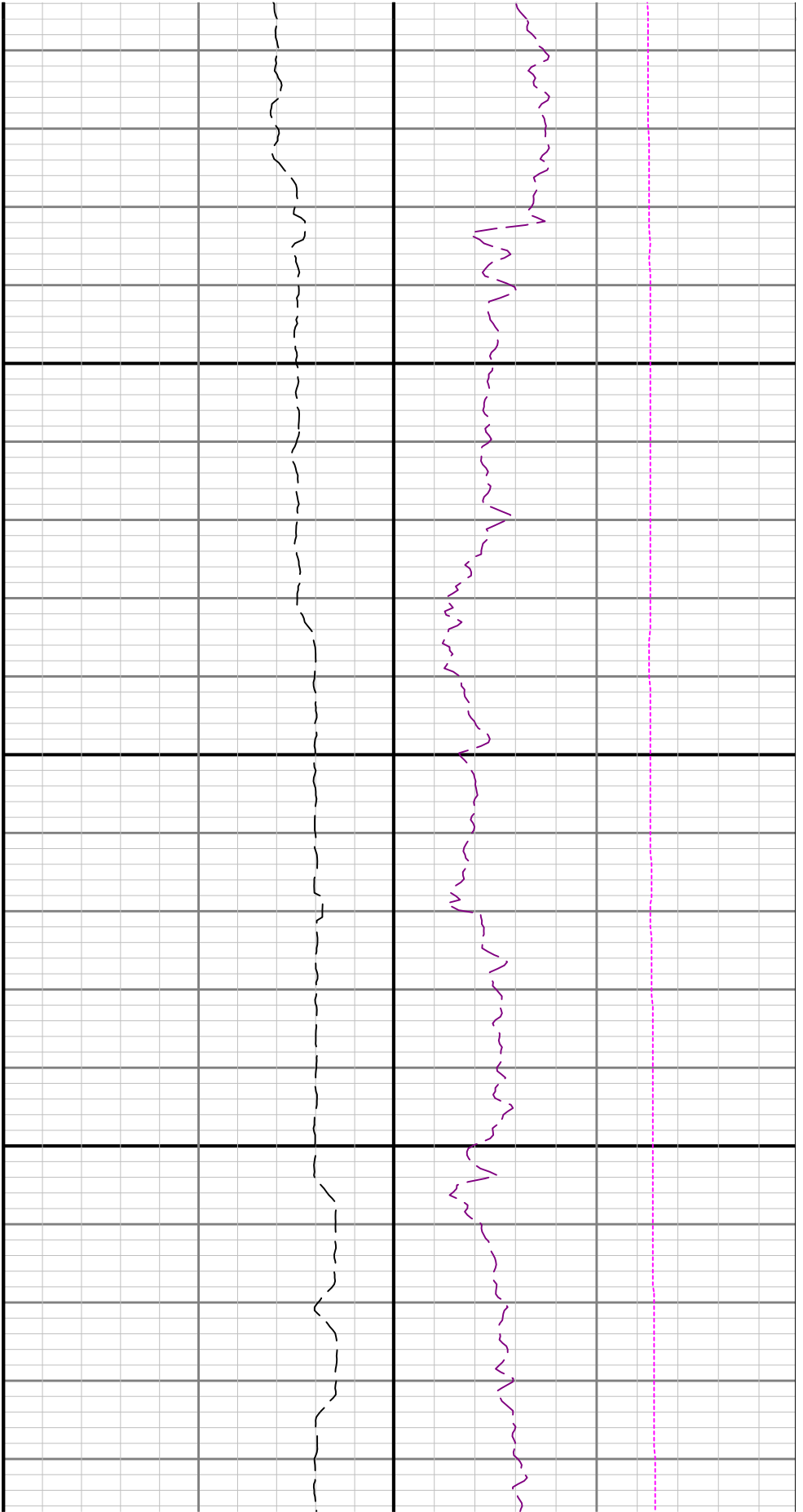


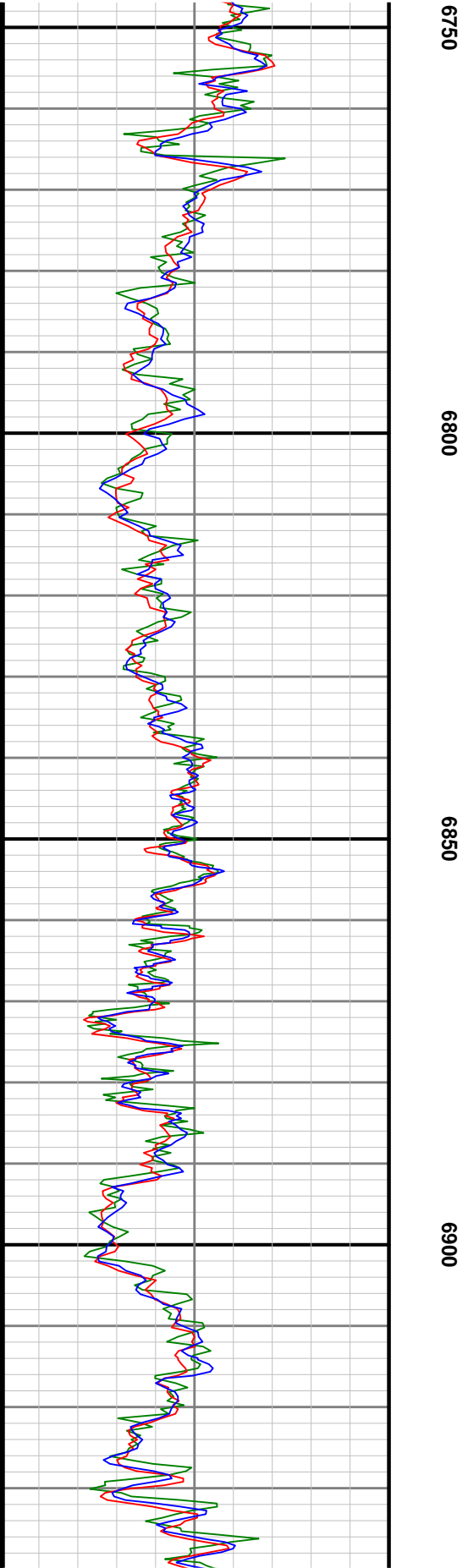
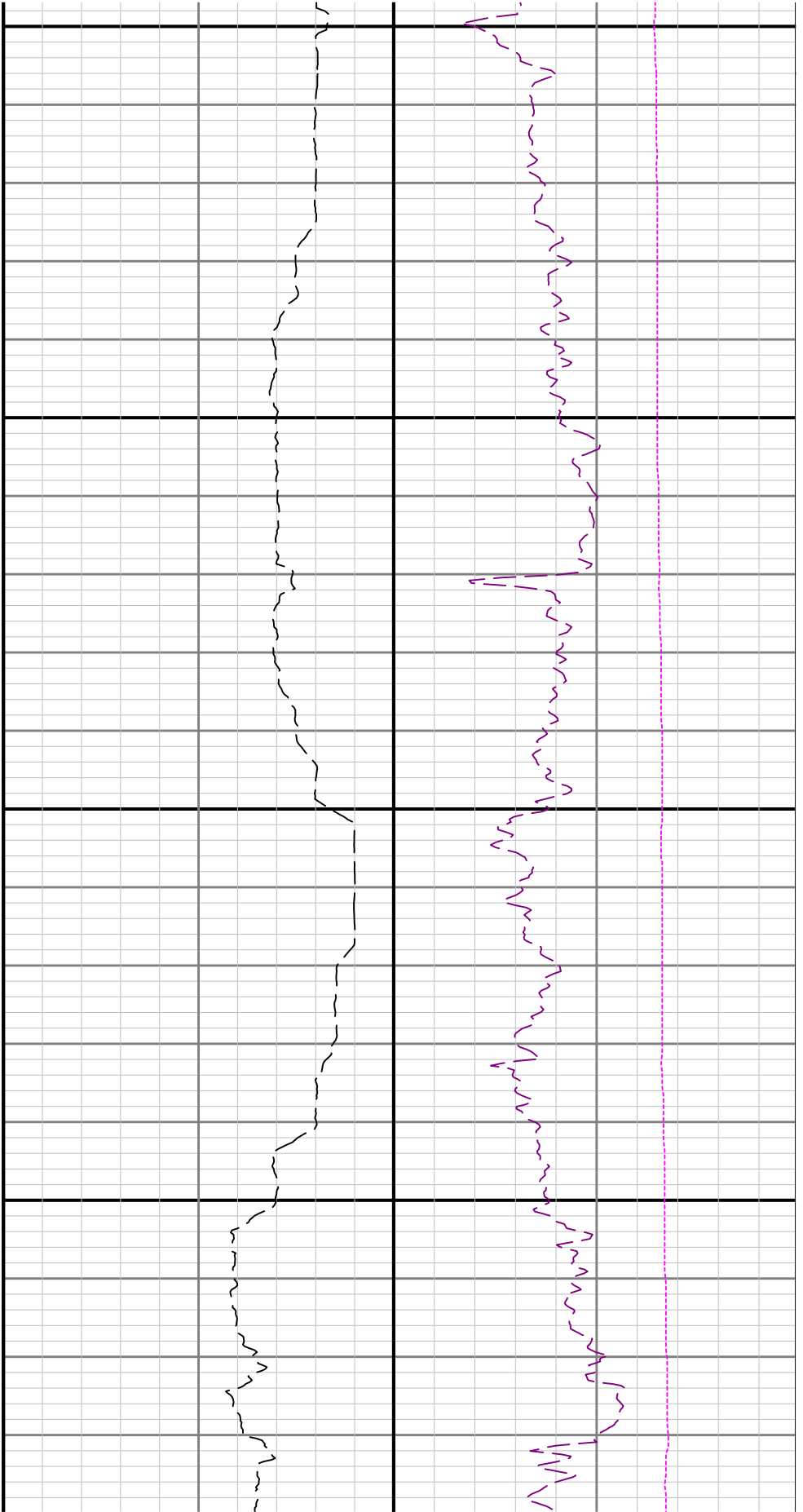


6600

6650

6700





Tie-In / Projection	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Temperature (degF)	North (ft)	East (ft)	True Vertical Depth (ft)	TVD Subsea (ft)	Vertical Section (ft)	Course Length (ft)	Dog Leg Severity (deg/100ft)	Build Rate (deg/100ft)	Turn Rate (deg/100ft)
Tie-In	0.00	0.00	0.00	N/A	0.00	0.00	0.00	-4798.00	0.00	0.00	0.00	0.00	0.00
	84.00	0.13	344.80	N/A	0.09	-0.02	84.00	-4714.00	-0.09	84.00	0.15	0.15	-18.10
	179.00	0.19	348.58	N/A	0.35	-0.08	179.00	-4619.00	-0.36	95.00	0.06	0.06	3.98
	274.00	0.22	301.55	N/A	0.60	-0.27	274.00	-4524.00	-0.62	95.00	0.17	0.03	-49.51
	369.00	0.34	74.14	N/A	0.77	-0.16	369.00	-4429.00	-0.78	95.00	0.54	0.13	139.57
	463.00	0.09	183.01	N/A	0.78	0.11	463.00	-4335.00	-0.76	94.00	0.40	-0.27	115.82
	558.00	0.33	162.01	N/A	0.44	0.19	558.00	-4240.00	-0.42	95.00	0.26	0.25	-22.11
	653.00	0.19	74.77	N/A	0.22	0.43	653.00	-4145.00	-0.18	95.00	0.39	-0.15	-91.83
	747.00	0.18	40.05	N/A	0.38	0.67	747.00	-4051.00	-0.31	94.00	0.12	-0.01	-36.94
	842.00	0.60	16.05	N/A	0.97	0.91	841.99	-3956.01	-0.87	95.00	0.46	0.44	-25.26
	937.00	0.76	23.30	N/A	2.02	1.29	936.99	-3861.01	-1.88	95.00	0.19	0.17	7.63
	1032.00	0.81	10.30	N/A	3.26	1.66	1031.98	-3766.02	-3.08	95.00	0.19	0.05	-13.68
	1126.00	0.45	338.84	N/A	4.26	1.65	1125.97	-3672.03	-4.07	94.00	0.52	-0.38	-33.47
	1221.00	0.78	340.00	N/A	5.22	1.29	1220.97	-3577.03	-5.06	95.00	0.35	0.35	1.22
	1315.00	0.91	312.47	N/A	6.32	0.52	1314.96	-3483.04	-6.24	94.00	0.45	0.14	-29.29
	1410.00	0.68	274.31	N/A	6.87	-0.60	1409.95	-3388.05	-6.90	95.00	0.59	-0.24	-40.17
	1505.00	0.36	354.14	N/A	7.21	-1.19	1504.95	-3293.05	-7.30	95.00	0.75	-0.34	84.03
	1600.00	0.58	306.04	N/A	7.79	-1.61	1599.94	-3198.06	-7.92	95.00	0.46	0.23	-50.63
	1695.00	0.49	303.24	N/A	8.30	-2.34	1694.94	-3103.06	-8.49	95.00	0.10	-0.09	-2.95
	1789.00	0.55	220.45	N/A	8.18	-2.97	1788.94	-3009.06	-8.44	94.00	0.73	0.06	-88.07
	1884.00	1.45	232.90	N/A	7.10	-4.22	1883.92	-2914.08	-7.50	95.00	0.97	0.95	13.11
	1940.00	1.28	246.06	N/A	6.42	-5.36	1939.90	-2858.10	-6.94	56.00	0.63	-0.30	23.50
	1985.00	1.02	255.45	98.7	6.12	-6.20	1984.90	-2813.10	-6.72	45.00	0.71	-0.58	20.87
	2080.00	0.07	37.10	104.1	5.95	-6.99	2079.89	-2718.11	-6.63	95.00	1.13	-1.00	149.11
	2174.00	0.03	58.68	106.8	6.01	-6.93	2173.89	-2624.11	-6.69	94.00	0.05	-0.04	22.96
	2269.00	1.79	45.16	114.9	7.07	-5.86	2268.87	-2529.13	-7.63	95.00	1.85	1.85	-14.23
	2364.00	3.79	47.62	120.3	10.23	-2.49	2363.76	-2434.24	-10.43	95.00	2.11	2.11	2.59
	2459.00	5.36	45.49	123.0	15.46	3.00	2458.45	-2339.55	-15.07	95.00	1.66	1.65	-2.24
	2553.00	7.71	43.20	125.7	23.14	10.44	2551.83	-2246.17	-21.95	94.00	2.51	2.50	-2.44
	2648.00	10.11	45.86	128.4	33.59	20.79	2645.68	-2152.32	-31.29	95.00	2.56	2.53	2.80
	2742.00	13.18	50.68	131.1	46.13	35.01	2737.74	-2060.26	-42.31	94.00	3.42	3.27	5.13
	2932.00	16.44	53.15	133.8	75.99	73.29	2921.40	-1876.60	-68.11	190.00	1.75	1.72	1.30
	3121.00	16.45	57.01	136.5	106.60	117.14	3102.68	-1695.32	-94.08	189.00	0.58	0.01	2.04
	3216.00	15.67	58.87	136.5	120.55	139.40	3193.97	-1604.03	-105.69	95.00	0.98	-0.82	1.96
	3311.00	14.43	61.94	139.2	132.76	160.83	3285.71	-1512.29	-115.64	95.00	1.55	-1.31	3.23
	3405.00	13.19	64.04	141.9	142.96	180.81	3376.99	-1421.01	-123.75	94.00	1.42	-1.32	2.23
	3500.00	14.63	66.46	141.9	152.50	201.56	3469.20	-1328.80	-131.12	95.00	1.63	1.52	2.55
	3595.00	16.37	68.65	144.6	162.16	225.03	3560.75	-1237.25	-138.34	95.00	1.93	1.83	2.31
	3689.00	16.39	68.37	144.6	171.87	249.69	3650.93	-1147.07	-145.48	94.00	0.09	0.02	-0.30
	3784.00	16.32	67.73	144.6	181.87	274.50	3742.09	-1055.91	-152.90	95.00	0.20	-0.07	-0.67
	3879.00	16.55	62.30	144.6	193.22	298.84	3833.21	-964.79	-161.70	95.00	1.63	0.24	-5.72
	3973.00	16.57	52.96	147.3	207.52	321.39	3923.33	-874.67	-173.62	94.00	2.83	0.02	-9.94
	4068.00	16.22	47.98	147.3	224.56	342.06	4014.47	-783.53	-188.47	95.00	1.52	-0.37	-5.24
	4162.00	16.39	53.71	150.0	241.20	362.51	4104.70	-693.30	-202.93	94.00	1.72	0.18	6.10
	4257.00	16.33	52.66	152.7	257.24	383.93	4195.85	-602.15	-216.69	95.00	0.32	-0.06	-1.11
	4352.00	16.29	48.16	152.7	274.23	404.47	4287.03	-510.97	-231.50	95.00	1.33	-0.04	-4.74
	4447.00	16.48	42.96	152.7	292.98	423.59	4378.18	-419.82	-248.20	95.00	1.56	0.20	-5.47
	4541.00	16.49	37.01	155.4	313.39	440.70	4468.32	-329.68	-266.76	94.00	1.80	0.01	-6.33
	4636.00	16.19	36.74	155.4	334.77	456.74	4559.48	-238.52	-286.39	95.00	0.33	-0.32	-0.28
	4731.00	16.32	43.90	158.1	355.00	473.92	4650.69	-147.31	-304.76	95.00	2.11	0.14	7.54
	4826.00	16.31	47.88	160.8	373.57	493.07	4741.87	-56.13	-321.27	95.00	1.18	-0.01	4.19
	4920.00	16.06	51.71	160.8	390.48	513.07	4832.15	34.15	-336.05	94.00	1.17	-0.27	4.07
	5015.00	16.37	56.64	160.8	405.98	534.56	4923.37	125.37	-349.28	95.00	1.48	0.33	5.19
	5110.00	16.39	57.06	160.8	420.63	556.99	5014.52	216.52	-361.56	95.00	0.13	0.02	0.44
	5205.00	16.26	59.72	163.5	434.62	579.73	5105.69	307.69	-373.16	95.00	0.80	-0.14	2.80
	5299.00	16.99	60.46	166.2	448.03	603.04	5195.76	397.76	-384.12	94.00	0.81	0.78	0.79
	5394.00	16.65	61.82	168.9	461.30	627.11	5286.69	488.69	-394.86	95.00	0.55	-0.36	1.43
	5489.00	17.01	63.97	168.9	473.83	651.60	5377.63	579.63	-404.82	95.00	0.76	0.38	2.26
	5583.00	16.61	61.41	168.9	486.29	675.75	5467.61	669.61	-414.76	94.00	0.90	-0.43	-2.72
	5678.00	17.05	60.84	171.6	499.57	699.83	5558.54	760.54	-425.51	95.00	0.49	0.46	-0.60
	5773.00	16.99	55.87	171.6	514.15	723.49	5649.39	851.39	-437.59	95.00	1.53	-0.06	-5.23
	5867.00	16.92	54.20	174.3	529.86	745.95	5739.30	941.30	-450.93	94.00	0.52	-0.07	-1.78

	5962.00	16.95	53.24	177.0	546.23	768.26	5830.18	1032.18	-464.94	95.00	0.30	0.03	-1.01
	6057.00	16.98	46.51	177.0	564.07	789.42	5921.06	1123.06	-480.52	95.00	2.07	0.03	-7.08
	6152.00	16.42	47.22	179.7	582.73	809.34	6012.05	1214.05	-497.06	95.00	0.63	-0.59	0.75
	6246.00	15.74	50.11	179.7	599.93	828.87	6102.37	1304.37	-512.17	94.00	1.12	-0.72	3.07
	6341.00	15.20	51.38	182.5	615.97	848.49	6193.93	1395.93	-526.12	95.00	0.67	-0.57	1.34
	6436.00	15.05	54.14	185.2	630.97	868.21	6285.64	1487.64	-539.03	95.00	0.77	-0.16	2.91
	6530.00	12.77	103.74	182.5	635.67	888.27	6377.19	1579.19	-541.65	94.00	12.51	-2.43	52.77
	6625.00	14.47	153.82	185.2	622.48	903.75	6469.82	1671.82	-526.95	95.00	12.15	1.79	52.72
	6720.00	19.32	165.01	187.9	596.62	913.06	6560.72	1762.72	-500.28	95.00	6.12	5.11	11.78
	6815.00	25.66	164.68	190.6	561.57	922.57	6648.45	1850.45	-464.44	95.00	6.67	6.67	-0.35
	6910.00	34.57	168.38	190.6	515.23	933.46	6730.55	1932.55	-417.24	95.00	9.58	9.38	3.89
	7005.00	43.35	168.79	196.0	456.74	945.25	6804.35	2006.35	-357.84	95.00	9.25	9.24	0.43
	7099.00	51.42	171.47	198.7	388.63	956.99	6867.94	2069.94	-288.90	94.00	8.84	8.59	2.85
	7194.00	61.19	176.07	198.7	310.17	965.38	6920.60	2122.60	-209.99	95.00	11.04	10.28	4.84
	7289.00	68.87	179.14	379.8	224.20	968.90	6960.68	2162.68	-124.11	95.00	8.60	8.08	3.23
	7384.00	79.19	178.77	206.8	133.01	970.57	6986.79	2188.79	-33.22	95.00	10.87	10.86	-0.39
	7478.00	84.23	177.57	209.5	40.07	973.55	7000.34	2202.34	59.54	94.00	5.51	5.36	-1.28
	7573.00	84.20	177.48	209.5	-54.36	977.63	7009.91	2211.91	153.89	95.00	0.10	-0.03	-0.09
	7668.00	86.36	178.66	209.5	-148.98	980.81	7017.73	2219.73	248.34	95.00	2.59	2.27	1.24
	7762.00	88.34	178.90	209.5	-242.85	982.81	7022.07	2224.07	341.93	94.00	2.12	2.11	0.26
	7857.00	90.03	179.05	214.9	-337.82	984.51	7023.43	2225.43	436.57	95.00	1.79	1.78	0.16
	7952.00	90.15	178.68	217.6	-432.80	986.39	7023.28	2225.28	531.25	95.00	0.41	0.13	-0.39
	8046.00	90.06	178.88	220.3	-526.78	988.40	7023.10	2225.10	624.94	94.00	0.23	-0.10	0.21
	8141.00	90.00	179.10	223.0	-621.77	990.07	7023.05	2225.05	719.60	95.00	0.24	-0.06	0.23
	8236.00	90.09	180.21	223.0	-716.76	990.64	7022.98	2224.98	814.16	95.00	1.17	0.09	1.17
	8330.00	90.15	180.54	225.7	-810.76	990.03	7022.78	2224.78	907.61	94.00	0.36	0.06	0.35
	8425.00	90.15	179.96	225.7	-905.76	989.61	7022.53	2224.53	1002.07	95.00	0.61	0.00	-0.61
	8520.00	89.94	179.36	228.4	-1000.76	990.18	7022.46	2224.46	1096.62	95.00	0.67	-0.22	-0.63
	8614.00	89.94	179.28	217.6	-1094.75	991.29	7022.56	2224.56	1190.24	94.00	0.09	0.00	-0.09
	8709.00	90.22	178.97	220.3	-1189.74	992.74	7022.43	2224.43	1284.88	95.00	0.44	0.29	-0.33
	8898.00	90.18	178.85	223.0	-1378.71	996.34	7021.77	2223.77	1473.22	189.00	0.07	-0.02	-0.06
	8993.00	89.82	176.38	228.4	-1473.62	1000.29	7021.77	2223.77	1568.04	95.00	2.63	-0.38	-2.60
	9088.00	90.65	174.40	228.4	-1568.30	1007.93	7021.38	2223.38	1663.01	95.00	2.26	0.87	-2.08
	9182.00	88.15	175.34	228.4	-1661.91	1016.33	7022.36	2224.36	1756.99	94.00	2.84	-2.66	1.00
	9277.00	89.08	181.26	228.4	-1756.80	1019.15	7024.66	2226.66	1851.67	95.00	6.31	0.98	6.23
	9372.00	89.26	185.29	231.1	-1851.61	1013.72	7026.04	2228.04	1945.44	95.00	4.25	0.19	4.24
	9466.00	89.23	185.17	233.8	-1945.21	1005.15	7027.27	2229.27	2037.67	94.00	0.13	-0.03	-0.13
	9656.00	89.29	184.59	236.5	-2134.51	988.99	7029.73	2231.73	2224.33	190.00	0.31	0.03	-0.31
	9750.00	89.20	184.03	236.5	-2228.23	981.93	7030.97	2232.97	2316.84	94.00	0.60	-0.10	-0.60
	9845.00	89.41	183.60	239.2	-2323.02	975.61	7032.12	2234.12	2410.49	95.00	0.50	0.22	-0.45
	10034.00	90.36	182.51	239.2	-2511.74	965.53	7032.50	2234.50	2597.20	189.00	0.77	0.50	-0.58
	10129.00	89.69	182.18	241.9	-2606.66	961.65	7032.46	2234.46	2691.22	95.00	0.79	-0.71	-0.35
	10319.00	90.09	179.53	244.6	-2796.62	958.81	7032.82	2234.82	2879.90	190.00	1.41	0.21	-1.39
	10414.00	90.03	177.68	244.6	-2891.59	961.12	7032.72	2234.72	2974.61	95.00	1.95	-0.06	-1.95
	10508.00	90.33	176.30	247.3	-2985.46	966.06	7032.43	2234.43	3068.49	94.00	1.50	0.32	-1.47
	10603.00	90.67	176.07	247.3	-3080.24	972.38	7031.60	2233.60	3163.43	95.00	0.43	0.36	-0.24
	10698.00	90.61	176.56	247.3	-3175.04	978.49	7030.54	2232.54	3258.35	95.00	0.52	-0.06	0.52
	10792.00	90.46	175.83	250.0	-3268.83	984.72	7029.66	2231.66	3352.29	94.00	0.79	-0.16	-0.78
	10887.00	90.27	176.96	250.0	-3363.64	990.70	7029.05	2231.05	3447.21	95.00	1.21	-0.20	1.19
	10981.00	89.87	177.30	250.0	-3457.52	995.40	7028.94	2230.94	3541.08	94.00	0.56	-0.43	0.36
	11076.00	89.96	178.13	250.0	-3552.44	999.19	7029.08	2231.08	3635.90	95.00	0.88	0.09	0.87
	11171.00	89.93	178.26	250.0	-3647.40	1002.18	7029.17	2231.17	3730.66	95.00	0.14	-0.03	0.14
	11360.00	90.12	179.30	252.7	-3836.35	1006.21	7029.09	2231.09	3919.04	189.00	0.56	0.10	0.55
	11454.00	88.80	179.26	231.1	-3930.34	1007.39	7029.97	2231.97	4012.65	94.00	1.40	-1.40	-0.04
	11549.00	89.01	179.08	252.7	-4025.31	1008.76	7031.79	2233.79	4107.27	95.00	0.29	0.22	-0.19
	11644.00	89.63	180.03	252.7	-4120.30	1009.50	7032.92	2234.92	4201.84	95.00	1.19	0.65	1.00
	11739.00	89.63	180.96	252.7	-4215.29	1008.68	7033.53	2235.53	4296.25	95.00	0.98	0.00	0.98
	11834.00	89.63	181.48	255.4	-4310.27	1006.66	7034.14	2236.14	4390.52	95.00	0.55	0.00	0.55
	11928.00	89.69	181.79	255.4	-4404.23	1003.98	7034.70	2236.70	4483.72	94.00	0.34	0.06	0.33
	12023.00	89.72	180.83	255.4	-4499.20	1001.81	7035.19	2237.19	4577.97	95.00	1.01	0.03	-1.01
	12118.00	89.69	181.10	255.4	-4594.19	1000.21	7035.68	2237.68	4672.30	95.00	0.29	-0.03	0.28
	12212.00	89.72	180.48	258.1	-4688.18	998.91	7036.16	2238.16	4765.66	94.00	0.66	0.03	-0.66
	12307.00	90.09	181.71	258.1	-4783.16	997.09	7036.32	2238.32	4859.96	95.00	1.35	0.39	1.29
	12402.00	90.18	182.14	258.1	-4878.10	993.90	7036.10	2238.10	4954.09	95.00	0.46	0.09	0.45

	12496.00	90.15	181.50	258.1	-4972.05	990.92	7035.83	2237.83	5047.24	94.00	0.68	-0.03	-0.68
	12591.00	90.00	180.24	260.8	-5067.04	989.48	7035.70	2237.70	5141.59	95.00	1.34	-0.16	-1.33
	12686.00	90.18	179.12	260.8	-5162.04	990.01	7035.55	2237.55	5236.14	95.00	1.19	0.19	-1.18
	12780.00	90.46	178.62	263.5	-5256.02	991.86	7035.03	2237.03	5329.82	94.00	0.61	0.30	-0.53
	12875.00	90.55	177.63	263.5	-5350.96	994.97	7034.19	2236.19	5424.58	95.00	1.05	0.09	-1.04
	12970.00	90.55	177.97	263.5	-5445.89	998.61	7033.28	2235.28	5519.39	95.00	0.36	0.00	0.36
	13065.00	90.33	177.55	263.5	-5540.81	1002.33	7032.55	2234.55	5614.19	95.00	0.50	-0.23	-0.44
	13159.00	90.15	177.56	263.5	-5634.73	1006.34	7032.16	2234.16	5708.03	94.00	0.19	-0.19	0.01
	13254.00	89.93	177.43	263.5	-5729.63	1010.49	7032.09	2234.09	5802.86	95.00	0.27	-0.23	-0.14
	13349.00	90.06	177.99	266.2	-5824.56	1014.29	7032.10	2234.10	5897.68	95.00	0.61	0.14	0.59
	13443.00	90.27	180.35	225.7	-5918.54	1015.65	7031.83	2233.83	5991.31	94.00	2.52	0.22	2.51
	13538.00	90.00	181.29	266.2	-6013.53	1014.29	7031.60	2233.60	6085.66	95.00	1.03	-0.28	0.99
	13633.00	90.30	182.18	266.2	-6108.49	1011.41	7031.35	2233.35	6179.83	95.00	0.99	0.32	0.94
	13728.00	90.40	181.99	269.0	-6203.42	1007.95	7030.77	2232.77	6273.91	95.00	0.23	0.11	-0.20
	13823.00	90.09	181.18	269.0	-6298.38	1005.33	7030.37	2232.37	6368.11	95.00	0.91	-0.33	-0.85
	13918.00	90.12	181.51	152.7	-6393.36	1003.10	7030.19	2232.19	6462.36	95.00	0.35	0.03	0.35
	14012.00	89.75	181.21	269.0	-6487.33	1000.87	7030.30	2232.30	6555.62	94.00	0.51	-0.39	-0.32
	14107.00	90.24	179.84	269.0	-6582.32	1000.00	7030.31	2232.31	6650.02	95.00	1.53	0.52	-1.44
	14202.00	90.33	179.75	269.0	-6677.32	1000.34	7029.84	2231.84	6744.56	95.00	0.13	0.09	-0.09
	14297.00	90.09	180.02	271.7	-6772.32	1000.53	7029.49	2231.49	6839.08	95.00	0.38	-0.25	0.28
	14392.00	90.06	179.12	60.8	-6867.32	1001.24	7029.36	2231.36	6933.65	95.00	0.95	-0.03	-0.95
	14581.00	90.15	175.09	269.0	-7056.04	1010.78	7029.02	2231.02	7122.36	189.00	2.13	0.05	-2.13
	14676.00	90.61	173.02	304.1	-7150.52	1020.62	7028.39	2230.39	7217.35	95.00	2.23	0.48	-2.18
	14770.00	90.64	173.41	271.7	-7243.85	1031.73	7027.36	2229.36	7311.34	94.00	0.42	0.03	0.41
	14865.00	91.13	177.49	271.7	-7338.52	1039.26	7025.89	2227.89	7406.28	95.00	4.33	0.52	4.29
	14960.00	91.01	178.26	271.7	-7433.44	1042.78	7024.12	2226.12	7501.06	95.00	0.82	-0.13	0.81
	15054.00	90.18	175.95	271.7	-7527.31	1047.53	7023.14	2225.14	7594.92	94.00	2.61	-0.88	-2.46
	15149.00	89.63	175.51	271.7	-7622.04	1054.60	7023.30	2225.30	7689.89	95.00	0.74	-0.58	-0.46
	15244.00	90.43	177.47	271.7	-7716.86	1060.42	7023.25	2225.25	7784.80	95.00	2.23	0.84	2.06
	15338.00	90.03	179.33	271.7	-7810.82	1063.04	7022.87	2224.87	7878.54	94.00	2.02	-0.43	1.98
	15433.00	89.63	181.14	271.7	-7905.81	1062.65	7023.16	2225.16	7972.99	95.00	1.95	-0.42	1.91
	15622.00	90.43	178.79	274.4	-8094.80	1062.77	7023.06	2225.06	8161.00	189.00	1.31	0.42	-1.24
	15717.00	89.75	178.68	277.1	-8189.77	1064.87	7022.91	2224.91	8255.70	95.00	0.73	-0.72	-0.12
	15811.00	90.15	179.71	277.1	-8283.76	1066.19	7022.99	2224.99	8349.33	94.00	1.18	0.43	1.10
	15906.00	89.50	181.61	277.1	-8378.75	1065.09	7023.28	2225.28	8443.71	95.00	2.11	-0.68	2.00
	16001.00	90.46	184.60	277.1	-8473.60	1059.95	7023.31	2225.31	8537.54	95.00	3.31	1.01	3.15
	16096.00	89.38	183.70	277.1	-8568.35	1053.07	7023.45	2225.45	8631.09	95.00	1.48	-1.14	-0.95
	16191.00	90.12	182.09	271.7	-8663.22	1048.27	7023.86	2225.86	8724.98	95.00	1.87	0.78	-1.69
	16285.00	90.09	181.24	271.7	-8757.18	1045.54	7023.69	2225.69	8818.17	94.00	0.90	-0.03	-0.90
	16380.00	90.03	181.83	274.4	-8852.15	1043.00	7023.59	2225.59	8912.38	95.00	0.62	-0.06	0.62
	16475.00	90.18	182.19	277.1	-8947.09	1039.67	7023.41	2225.41	9006.48	95.00	0.41	0.16	0.38
	16570.00	90.15	182.09	277.1	-9042.02	1036.12	7023.14	2225.14	9100.56	95.00	0.11	-0.03	-0.11
	16665.00	90.21	181.98	279.8	-9136.96	1032.75	7022.84	2224.84	9194.66	95.00	0.13	0.06	-0.12
	16760.00	90.09	181.35	279.8	-9231.92	1029.99	7022.59	2224.59	9288.84	95.00	0.68	-0.13	-0.66
	16855.00	90.21	181.58	279.8	-9326.89	1027.56	7022.34	2224.34	9383.06	95.00	0.27	0.13	0.24
	16950.00	90.06	180.63	282.5	-9421.87	1025.72	7022.12	2224.12	9477.36	95.00	1.01	-0.16	-1.00
	17044.00	89.81	178.82	282.5	-9515.86	1026.18	7022.23	2224.23	9570.91	94.00	1.94	-0.27	-1.93
	17139.00	89.83	177.44	279.8	-9610.81	1029.28	7022.53	2224.53	9665.68	95.00	1.45	0.02	-1.45
	17234.00	89.97	176.50	282.5	-9705.68	1034.30	7022.69	2224.69	9760.56	95.00	1.00	0.15	-0.99
	17329.00	90.24	178.20	282.5	-9800.57	1038.69	7022.52	2224.52	9855.41	95.00	1.81	0.28	1.79
	17423.00	90.15	178.95	282.5	-9894.54	1041.03	7022.20	2224.20	9949.12	94.00	0.80	-0.10	0.80
	17518.00	90.06	179.71	285.2	-9989.53	1042.14	7022.02	2224.02	10043.73	95.00	0.81	-0.09	0.80
	17613.00	90.24	179.66	285.2	-10084.53	1042.66	7021.78	2223.78	10138.29	95.00	0.20	0.19	-0.05
	17708.00	89.97	179.87	285.2	-10179.53	1043.05	7021.60	2223.60	10232.83	95.00	0.36	-0.28	0.22
Projection	17754.00	89.97	179.87	N/A	-10225.53	1043.15	7021.63	2223.63	10278.60	46.00	0.00	0.00	0.00