



LWD MEMORY LOG - 8.500" SECTION

Gamma Ray

Scale: **Company: Noble Energy**

1:240	Well:	Independence D30-/43
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True Vertical Depth	Field:	Wattenberg
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County: **Wein** County: **United states**

Driller's Depth

Status:	Surface Location:	Other Services
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Latitude: 040° 13' 01.956" N

API No: 05-123-47590-00

Job ID: 109453824

SEC: 19 TWN: 3N RGE: 64W

Permanent Datum (P.D.):	Ground Level	Elevation:	4771.00 ft	Elev. KB:	N/A
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Log Measured From:	Rig Floor	Above P.D.	30.00 ft	Elev G1 :	4771.00 ft
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Dates Interval Drilled Magnetic Field Reference

Date From:	2018-11-17	Top: (ft)	0.00	Azi Reference North:	Grid	Dip Angle: (deg)	66.70
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Date Recd.	2018-11-21	Batallia. (15)	17885.14	Total Magnetic Field Strength. (111)	32070
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Spud Date:	2018-11-16	Mag to Reference North Correction: (deg)	7.52
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Borehole Record

Hole Size (in)	From (ft)	To (ft)	Size (in)	Weight (lb/ft)	From (ft)	To (ft)
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13.500	30.00	1939.00	9.625	36.00	30.00	1929.00
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0.0000	1.0000	1.0000			

[illegible][illegible][illegible]

Mind Record Deviation Record

Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc Az (Start)	Inc Az (End)
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Oil Based Mud	1939.00	17885.00	8.500	15946.00	0.34	48.15	90.89	188.22
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[illegible][illegible][illegible][illegible]

Acquisition System	Software Version	Other
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Baker Hughes Cadence

5.0

Rig: H&P 517

Plot Studio

8260.3

Contract

Helm

Drilling Co

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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
						Top	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
1	1	8.500	PDC	3.00	AutoTrak Curve	1926.60	15633.10	1939.50	15646.00	2018-11-17 10:21	2018-11-19 15:48	48.72
2	2	8.500	PDC	3.00	AutoTrak Curve	15633.00	17872.00	15646.00	17885.00	2018-11-20 07:32	2018-11-20 17:45	11.84

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
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Adam Schlenz	2018-11-15	2018-11-19	James Himes	2018-11-19	2018-11-21						
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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+ (%)
2018-11-17 08:32	1	1939.00	Oil Based Mud	9.3	11	N/A	23.2	71/18	Active Pit	22352	0.00
2018-11-17 13:00	1	2577.00	Oil Based Mud	9.1	11	N/A	17.6	72/18	Active Pit	24781	0.00
2018-11-18 03:00	1	6633.58	Oil Based Mud	9.5	11	N/A	14.8	82/18	Active Pit	25000	0.00
2018-11-18 13:00	1	8734.92	Oil Based Mud	9.5	9	N/A	16.4	84.3/15.7	Active Pit	25000	0.00
2018-11-19 03:00	1	12407.28	Oil Based Mud	9.6	11	N/A	17.6	82.8/17.2	Active Pit	25000	0.00
2018-11-19 13:00	1	15079.08	Oil Based Mud	9.5	12	N/A	23.6	86/14	Active Pit	22000	0.00
2018-11-20 03:00	2	15646.29	Oil Based Mud	9.4	10	N/A	17.6	86.5/13.5	Active Pit	20000	0.00
2018-11-20 13:00	2	16840.40	Oil Based Mud	9.5	11	N/A	21.2	85.2/14.8	Active Pit	22500	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	14279933	Near Bit VSS	5.93	6.73	7.000	4.330
1	AutoTrak Curve Steering Unit	14279933	Near Bit Inclination	5.93	6.73	7.000	4.330
1	AutoTrak Curve MWD	14313881	Gamma (single)	2.76	12.90	7.000	3.250
1	AutoTrak Curve MWD	14313881	Directional (mag)	12.27	22.41	7.000	3.250
2	AutoTrak Curve Steering Unit	12480148	Near Bit VSS	5.93	6.73	7.000	4.330
2	AutoTrak Curve Steering Unit	12480148	Near Bit Inclination	5.93	6.73	7.000	4.330
2	AutoTrak Curve MWD	12127524	Gamma (single)	2.76	12.89	7.000	3.250
2	AutoTrak Curve MWD	12127524	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

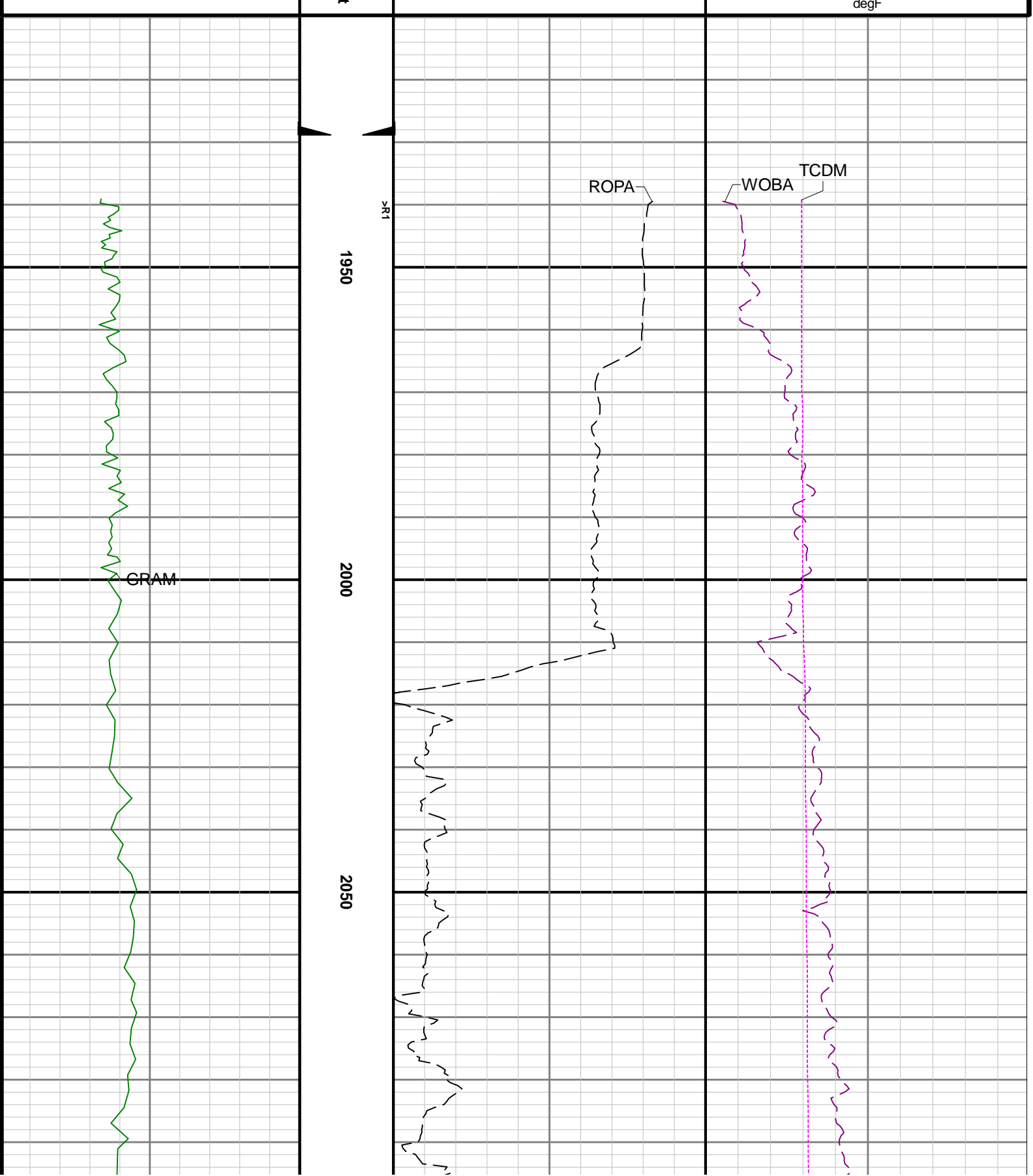
1	Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes, depth calibrations and measurements could not be independently verified.
2	Baker Hughes LWD run 1 and 2 utilized a 6.75 inch NaviGamma service (Directional and Gamma Ray) behind a 8.5 inch bit and rotary steerable assembly from 1939 to 17885 feet MD (1939 to 6877 feet TVD).
3	The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request.

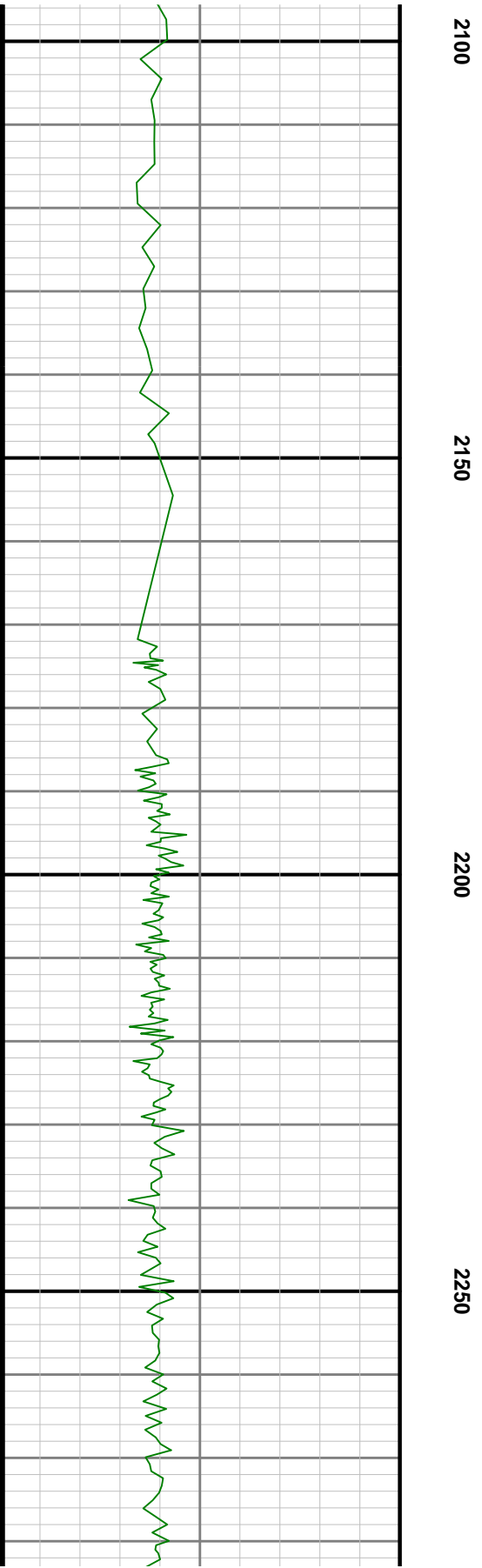
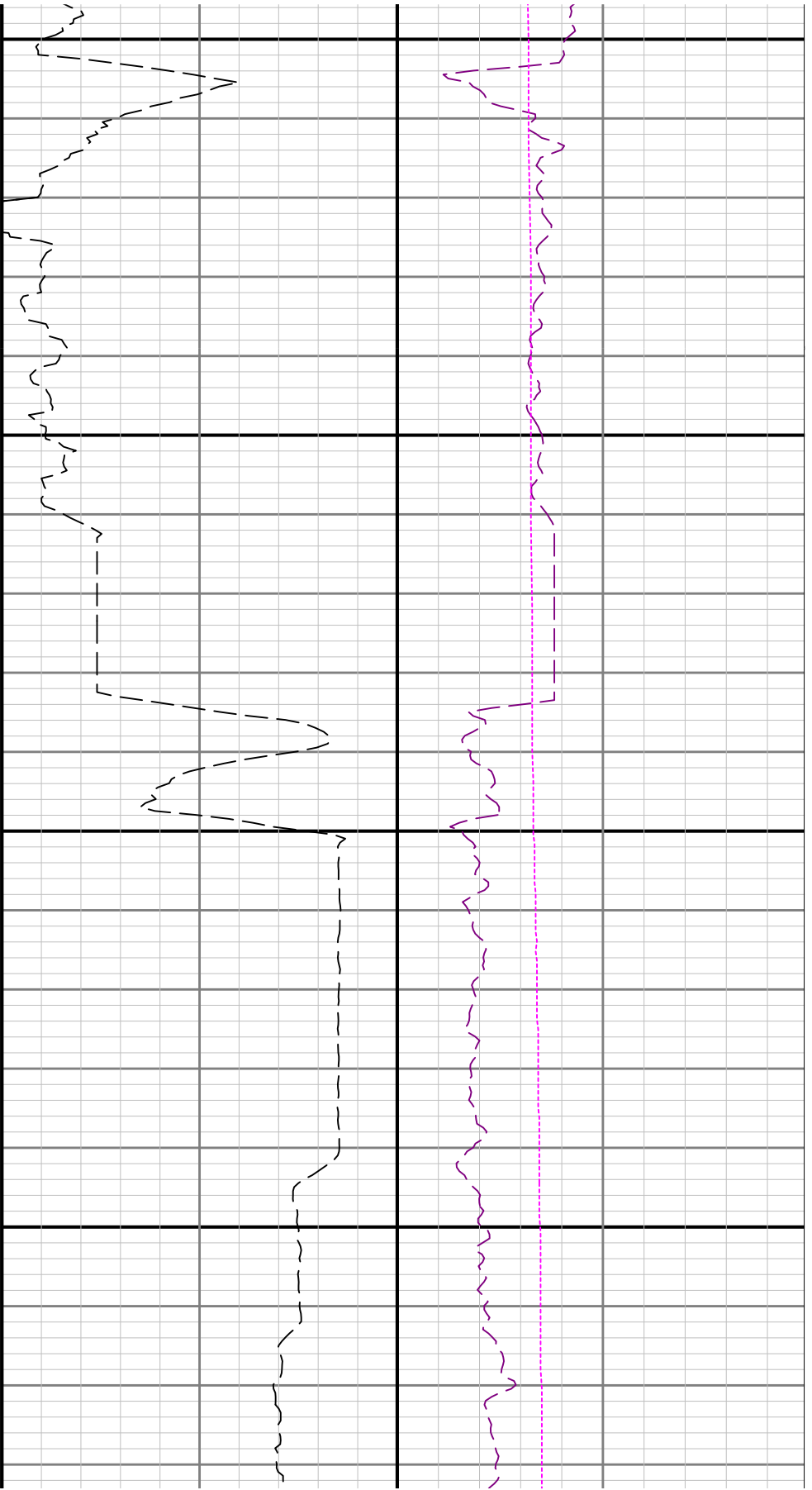
Curve Mnemonics

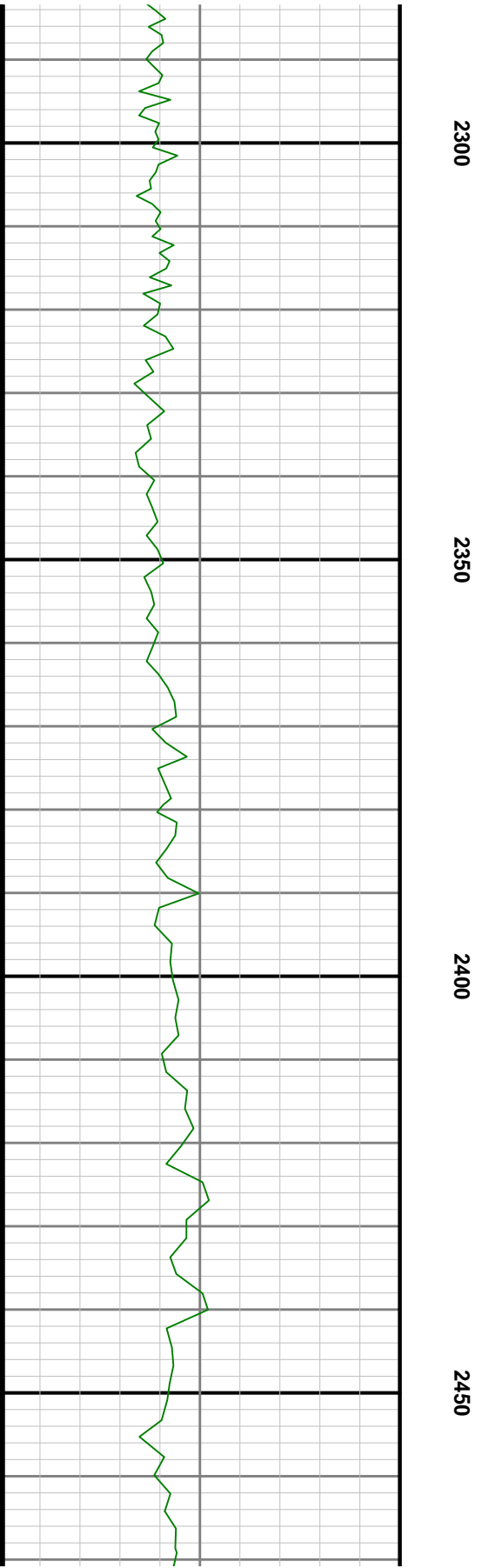
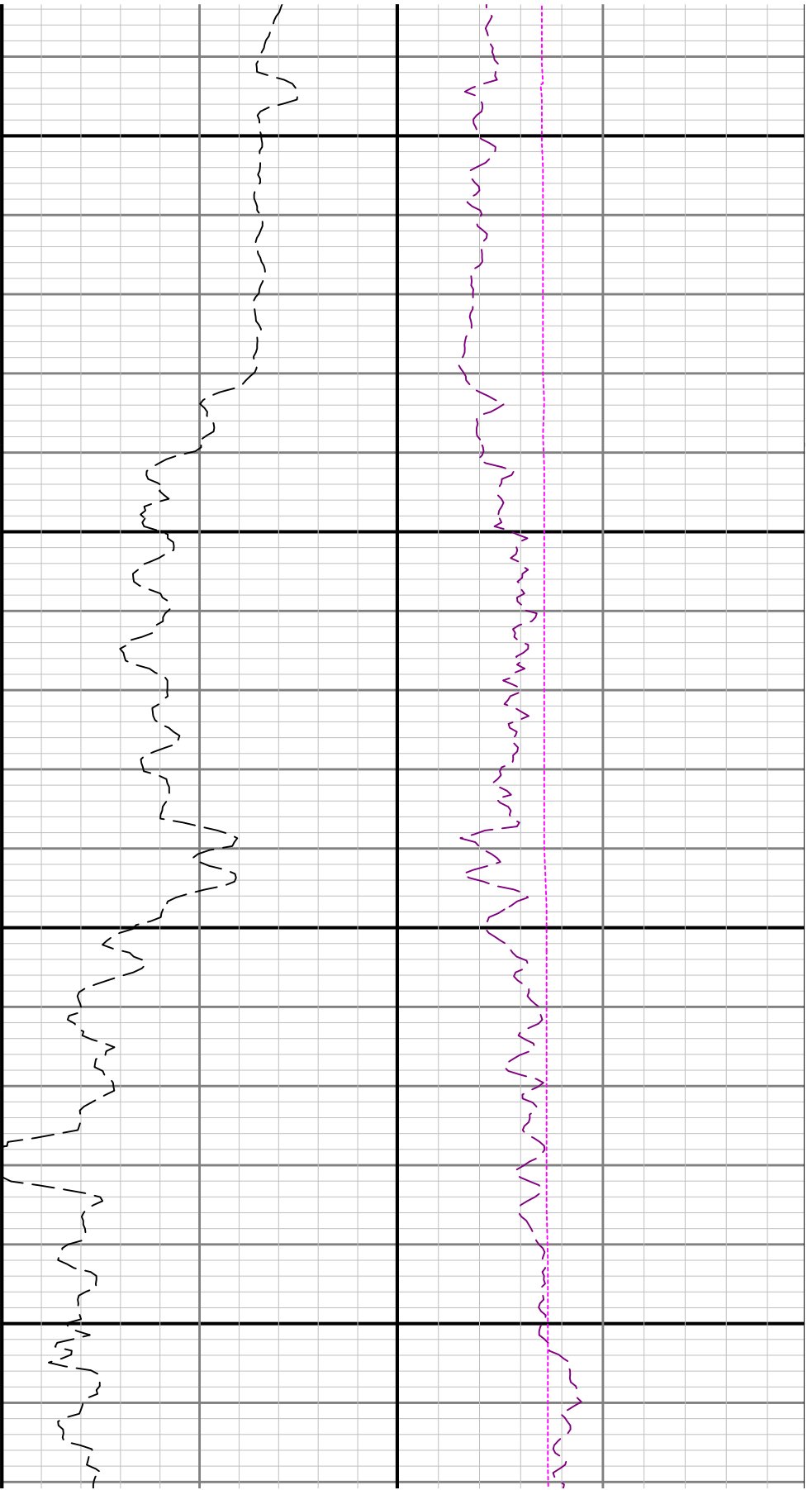
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API
TCDM	Directional Real-Time Survey Temperature	degF

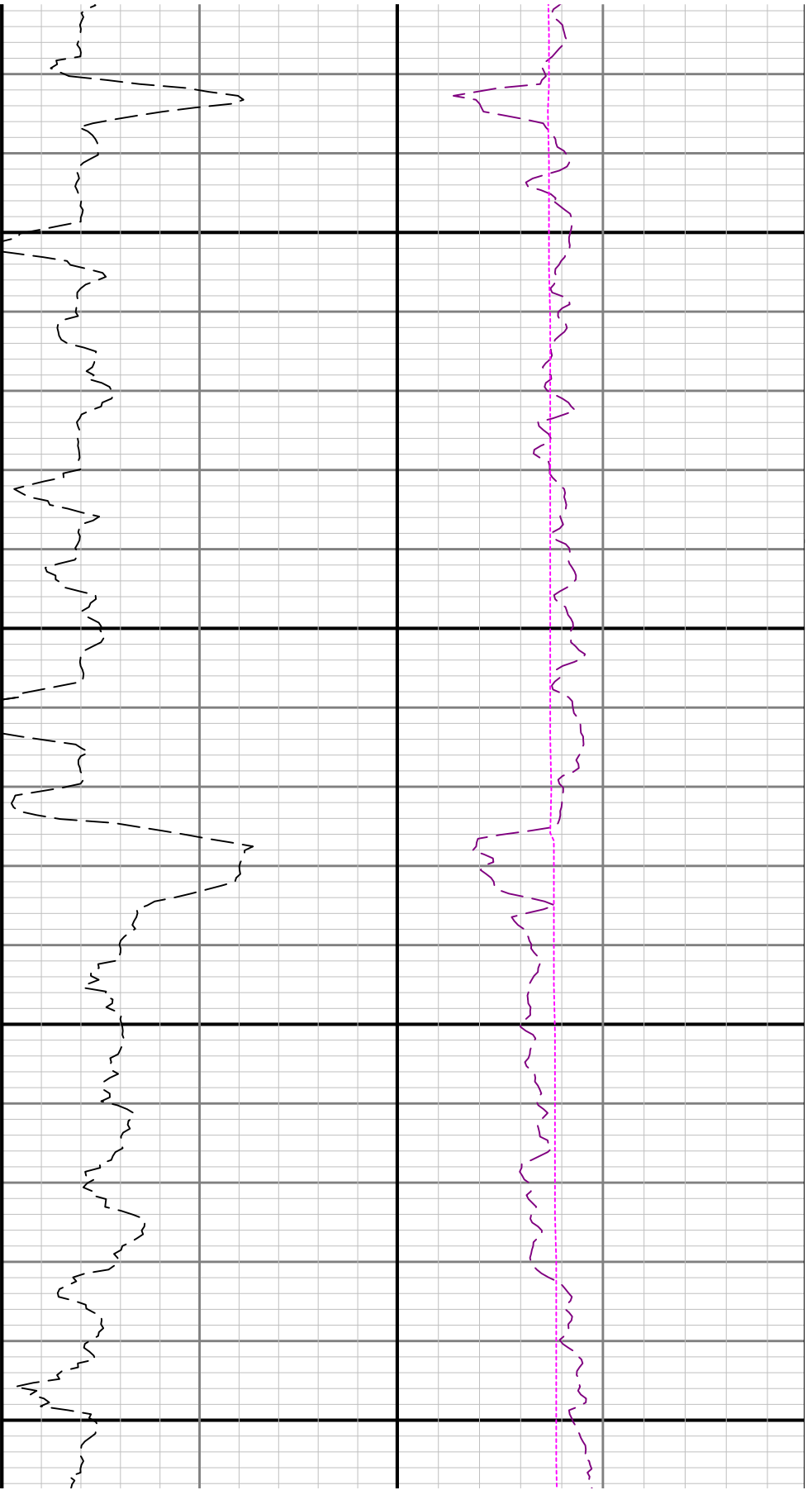
<div><div>BAKER HUGHES</div><div>a GE company</div></div> <div></div>	Company	Noble Energy				
	Well	Independence D30-743				
	Interval	Date From:	2018-11-17 08:34	Top:	0.00 ft	
		Date To:	2018-11-21 04:24	Bottom:	17885.14 ft	
	Created	2018-11-21 06:05:38				

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







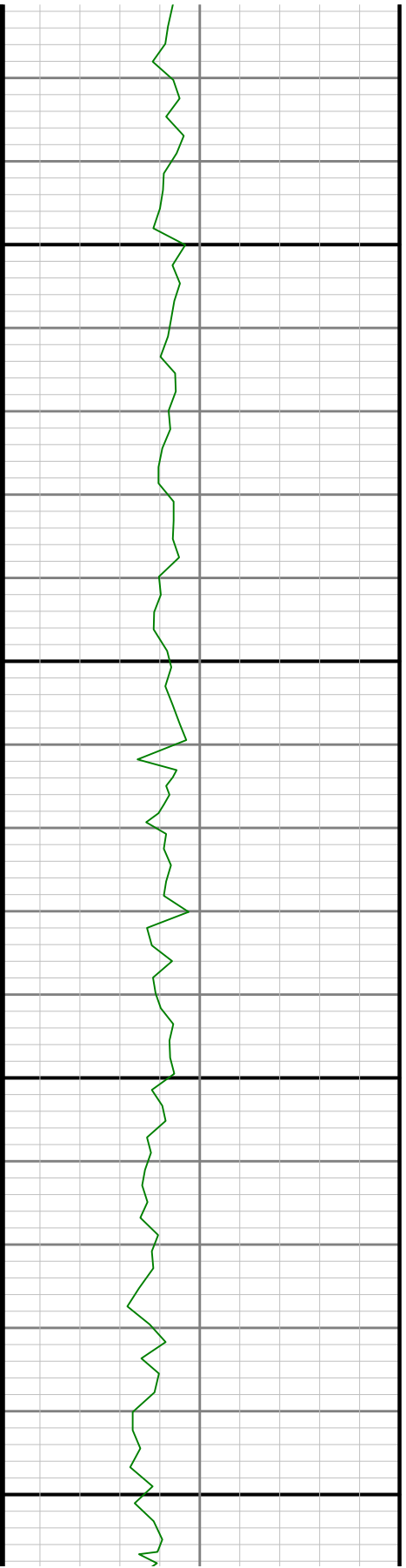


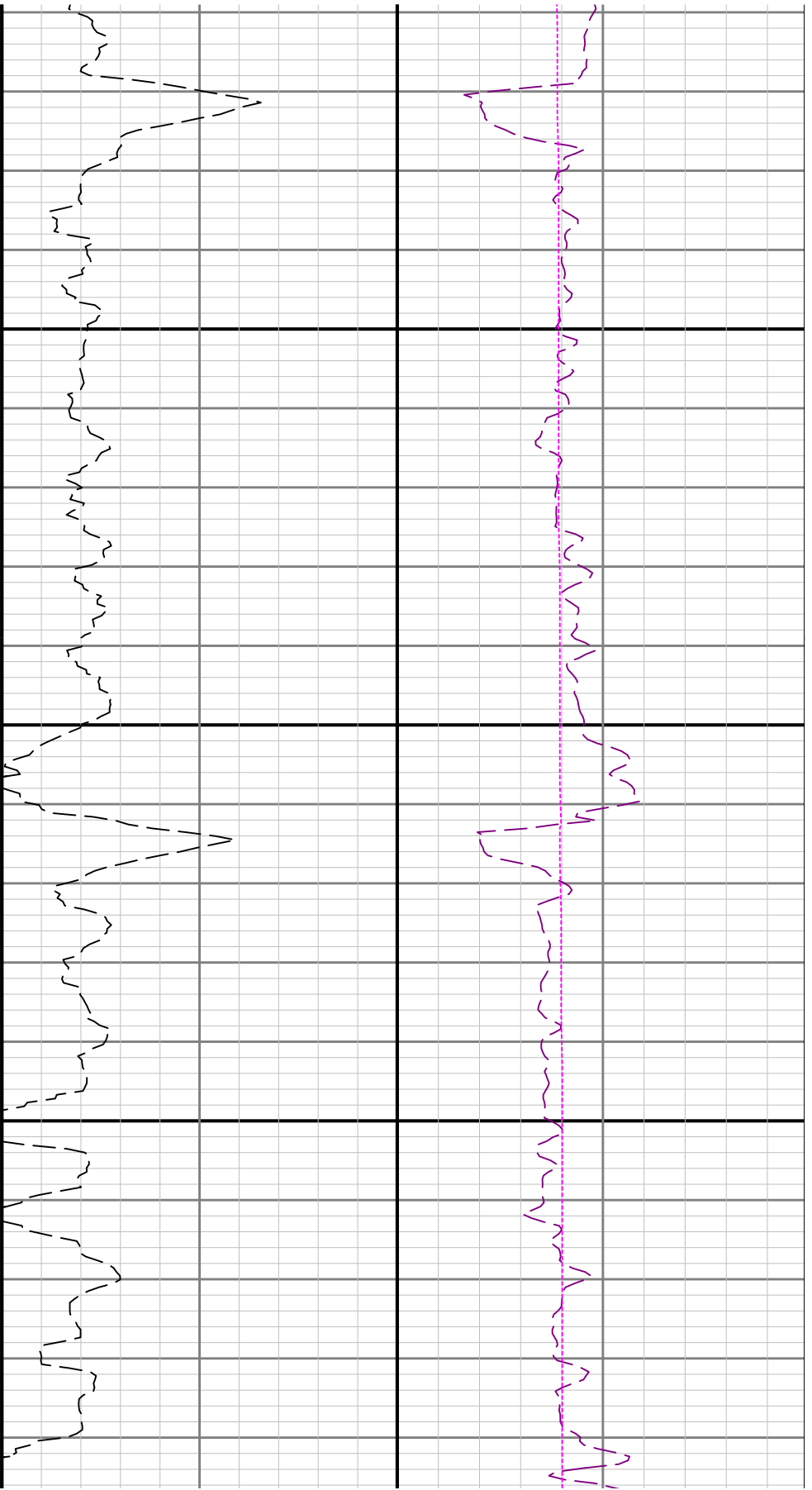
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2550

2600

2650



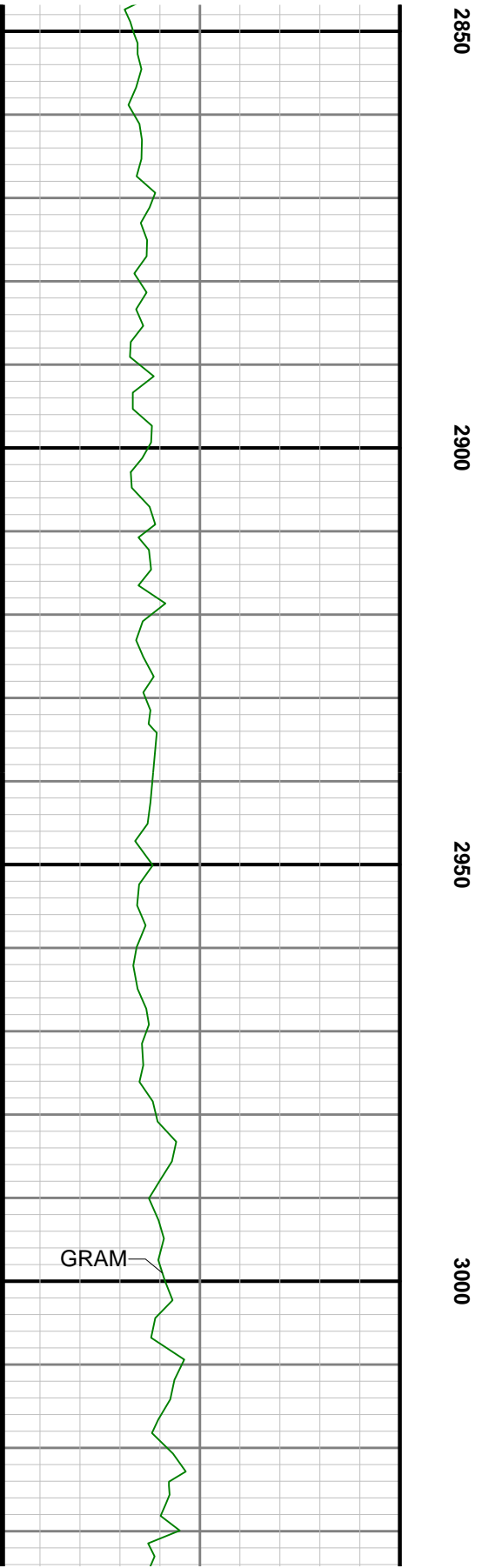
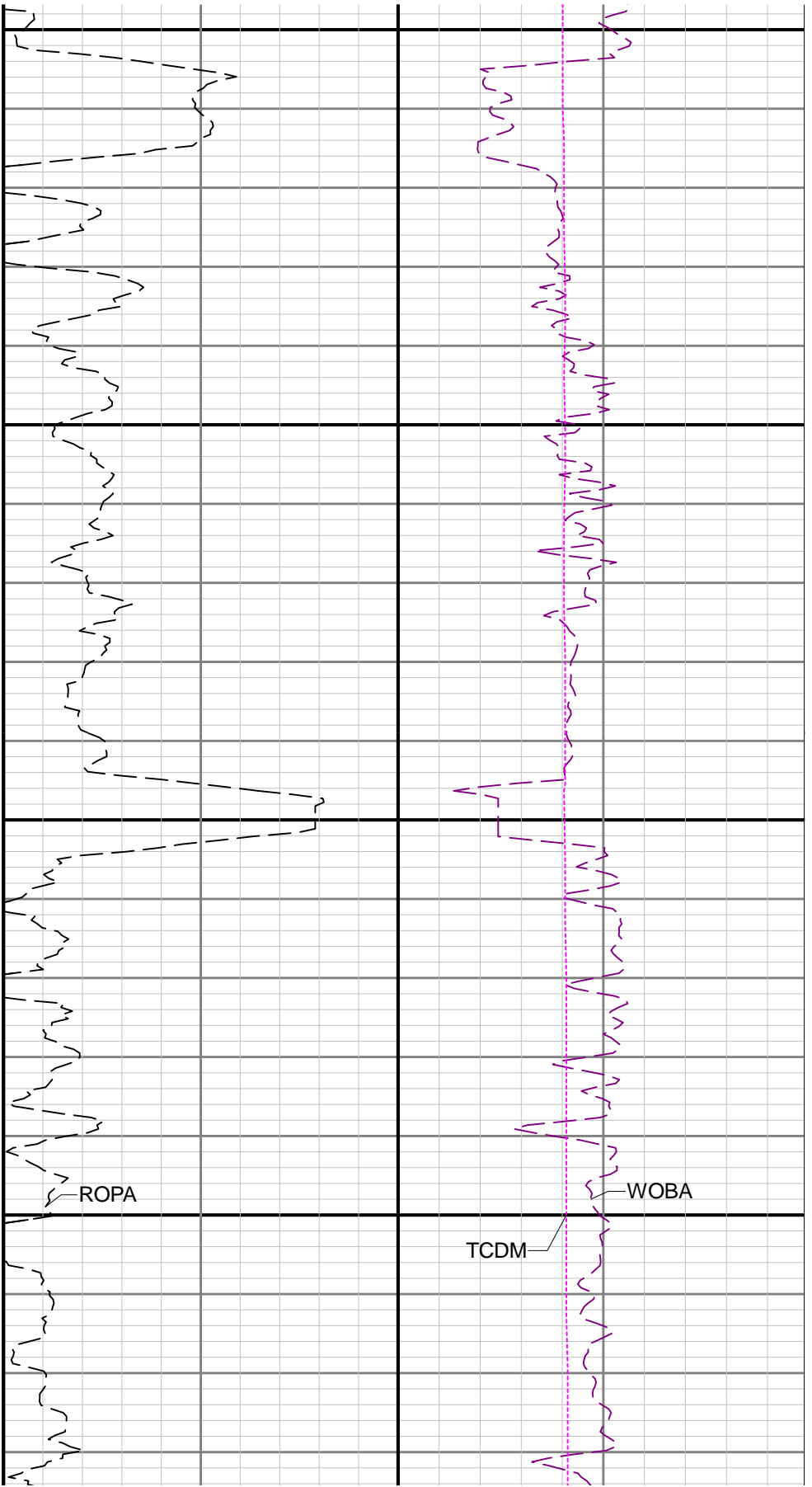


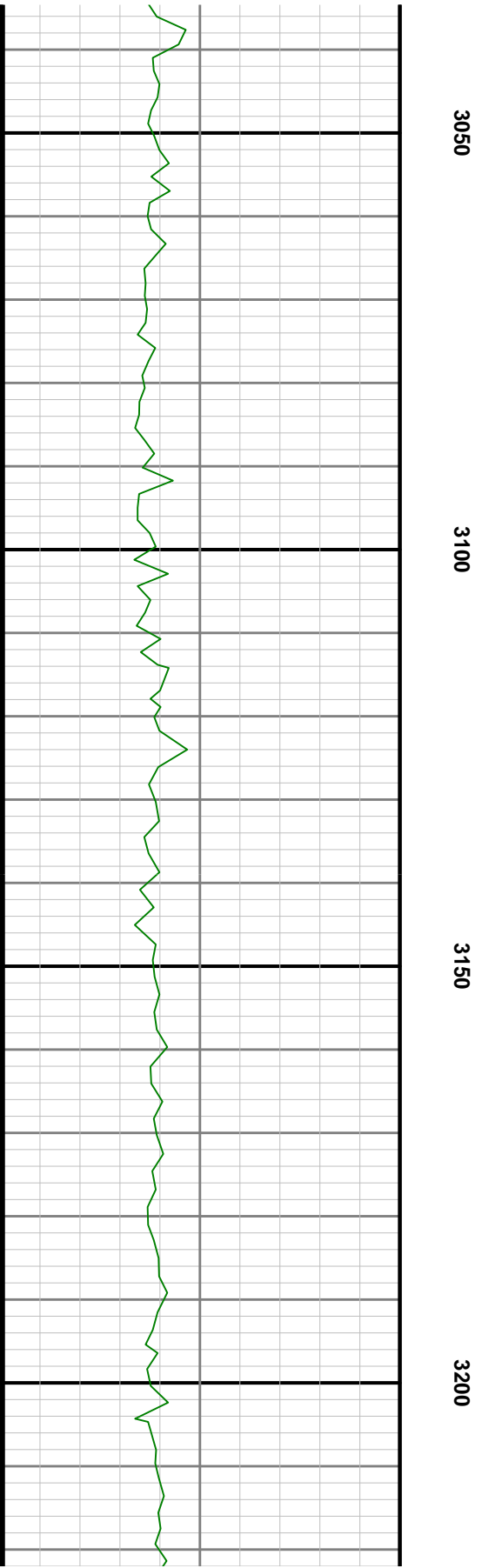
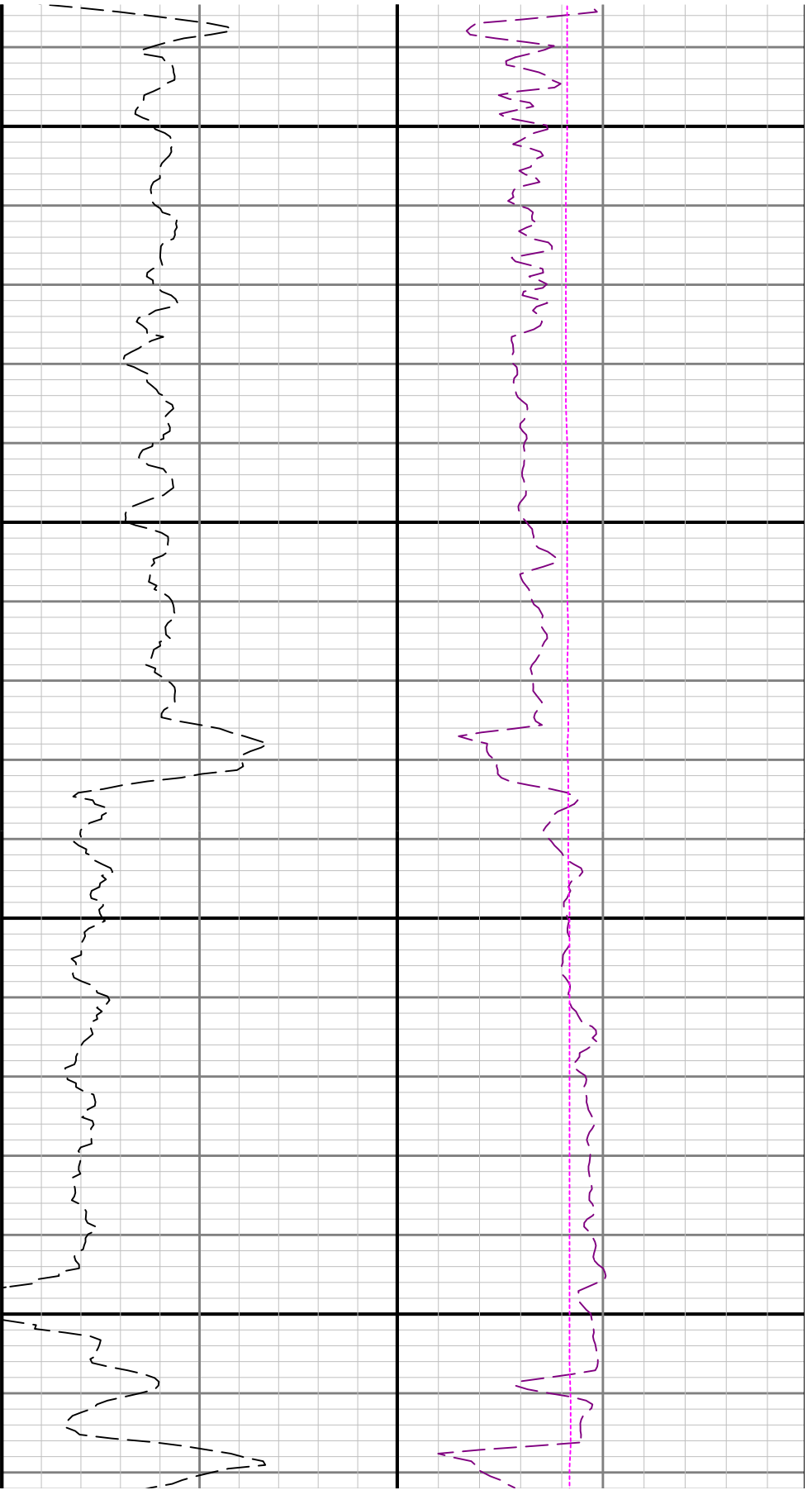
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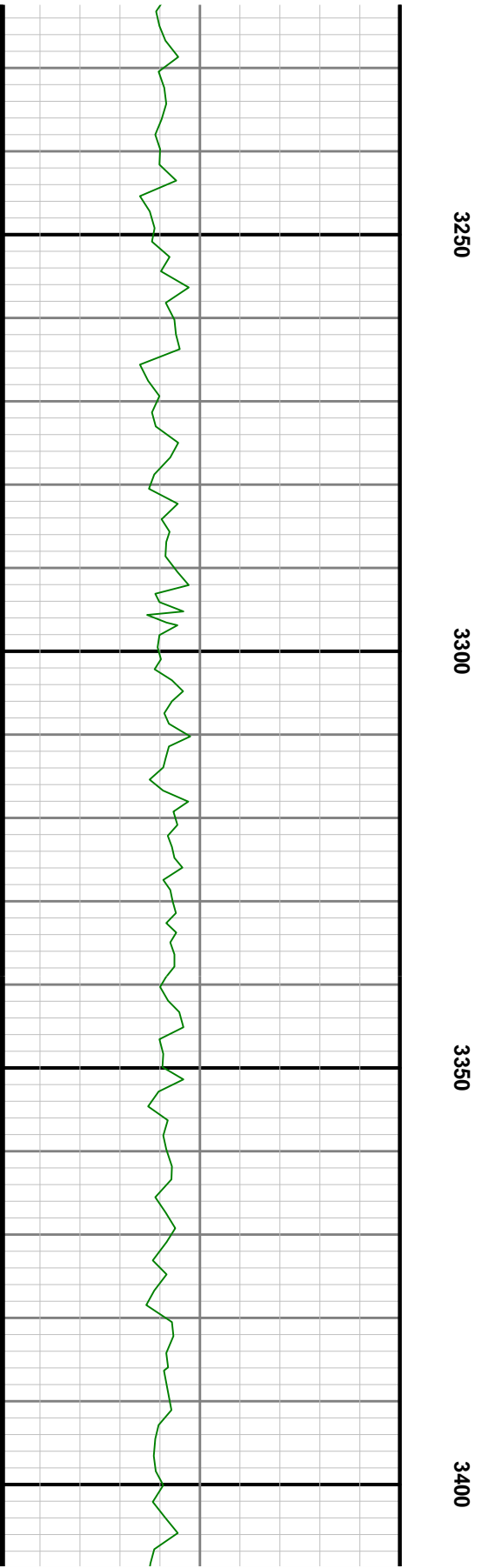
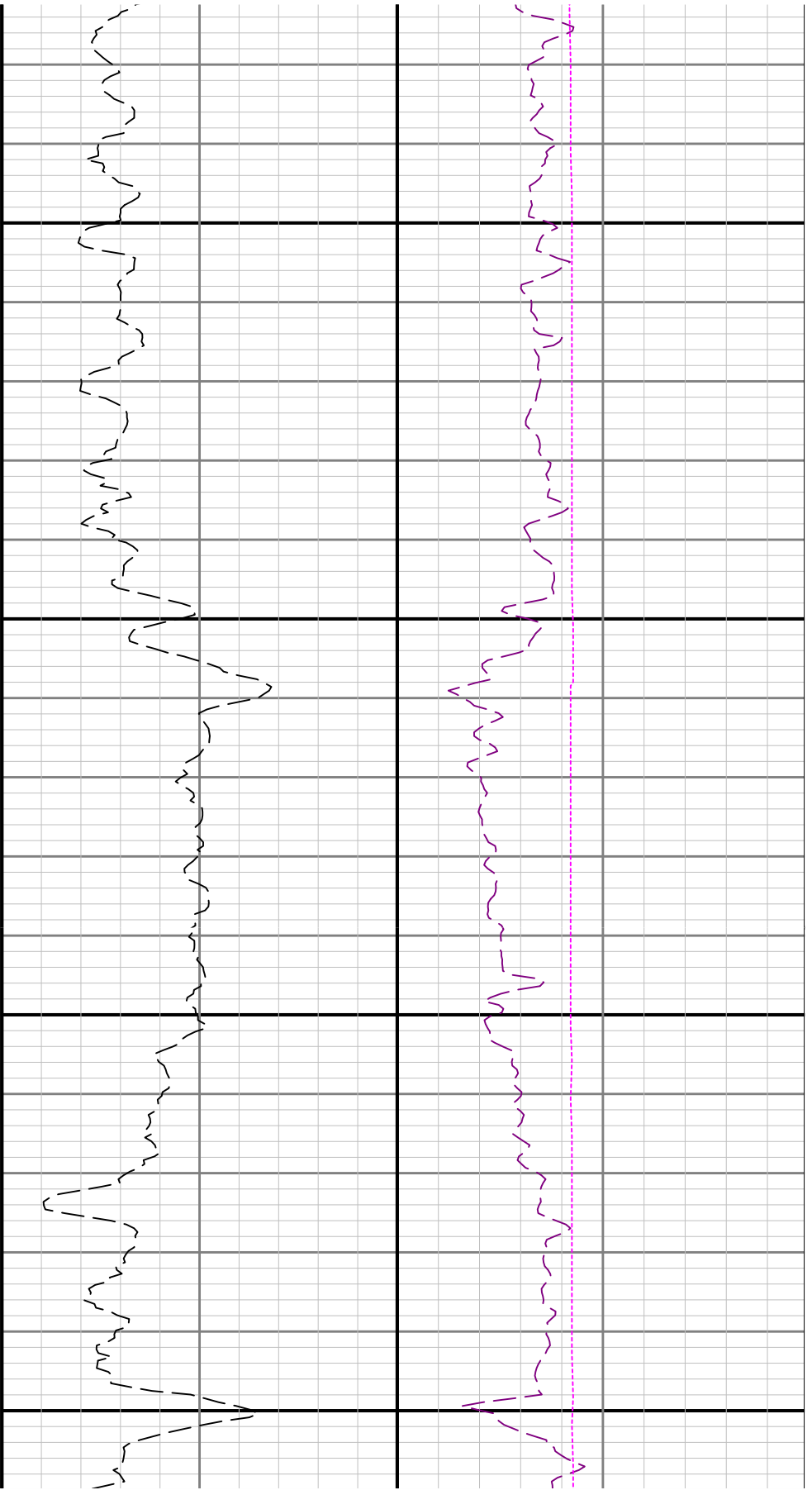
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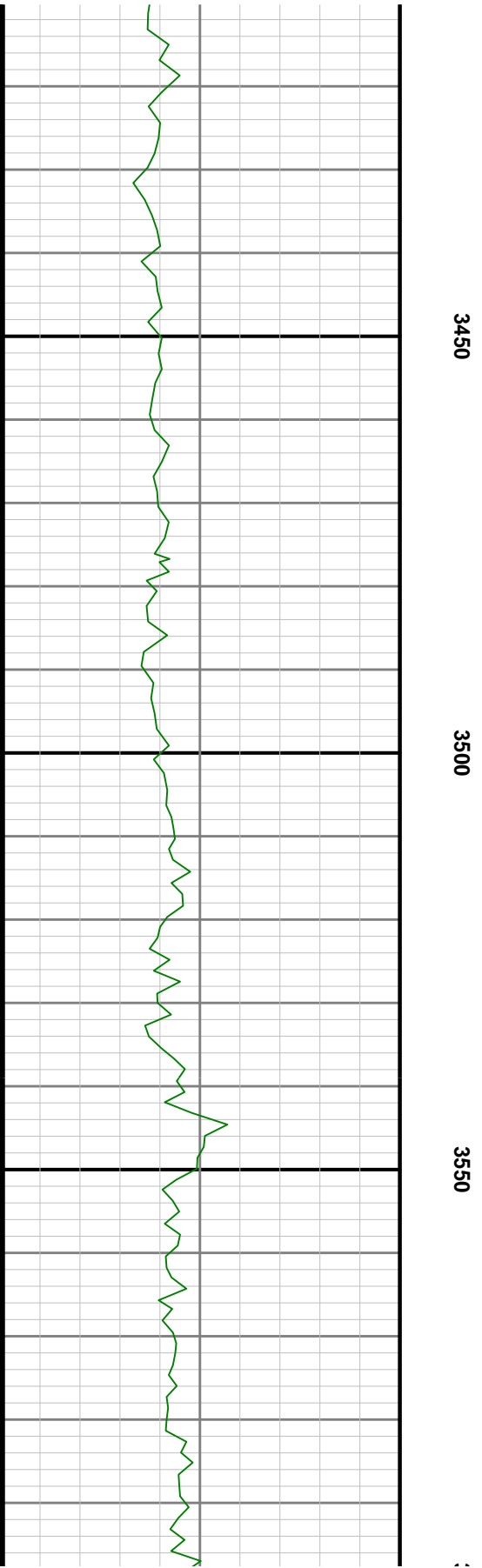
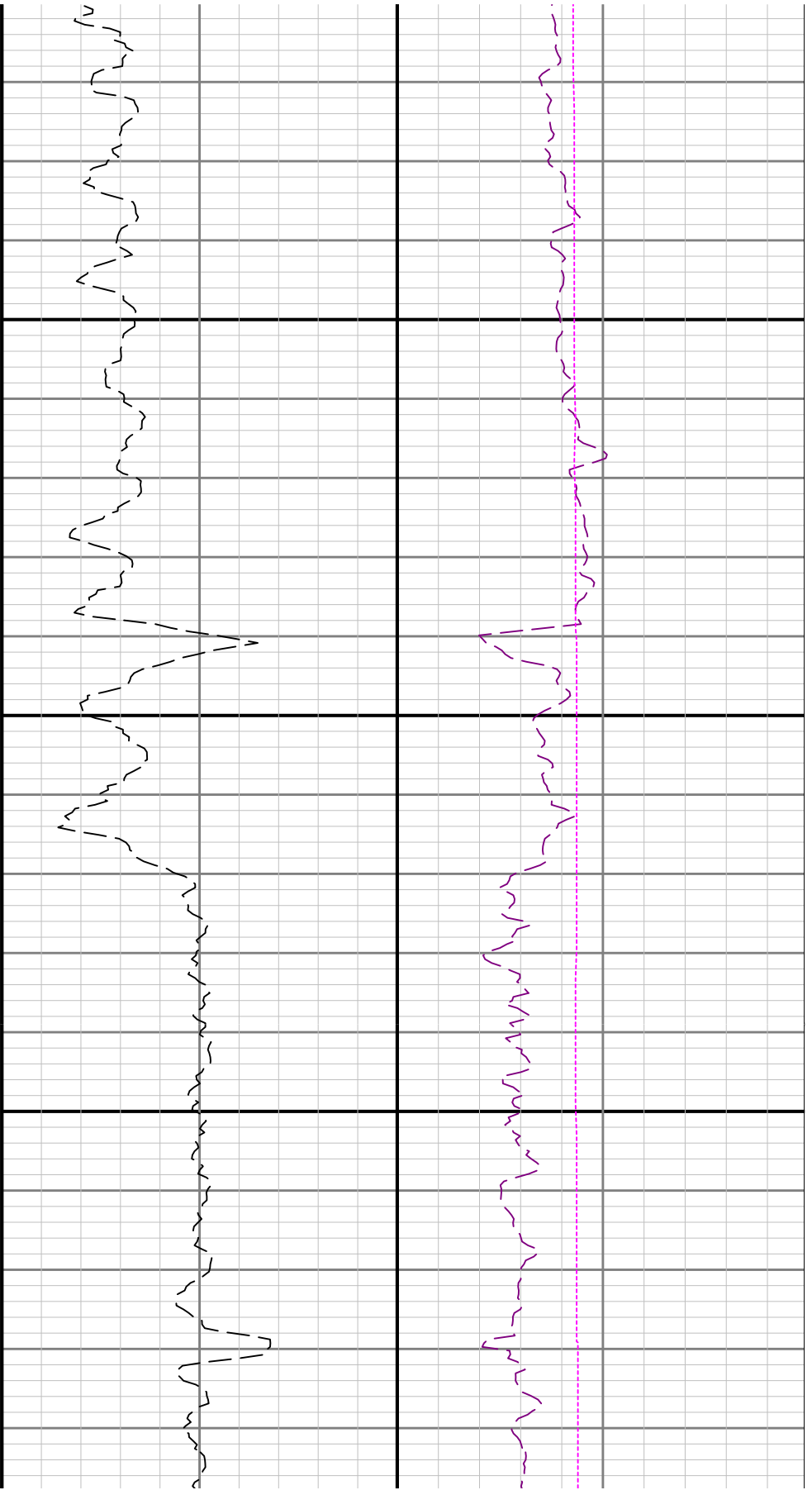
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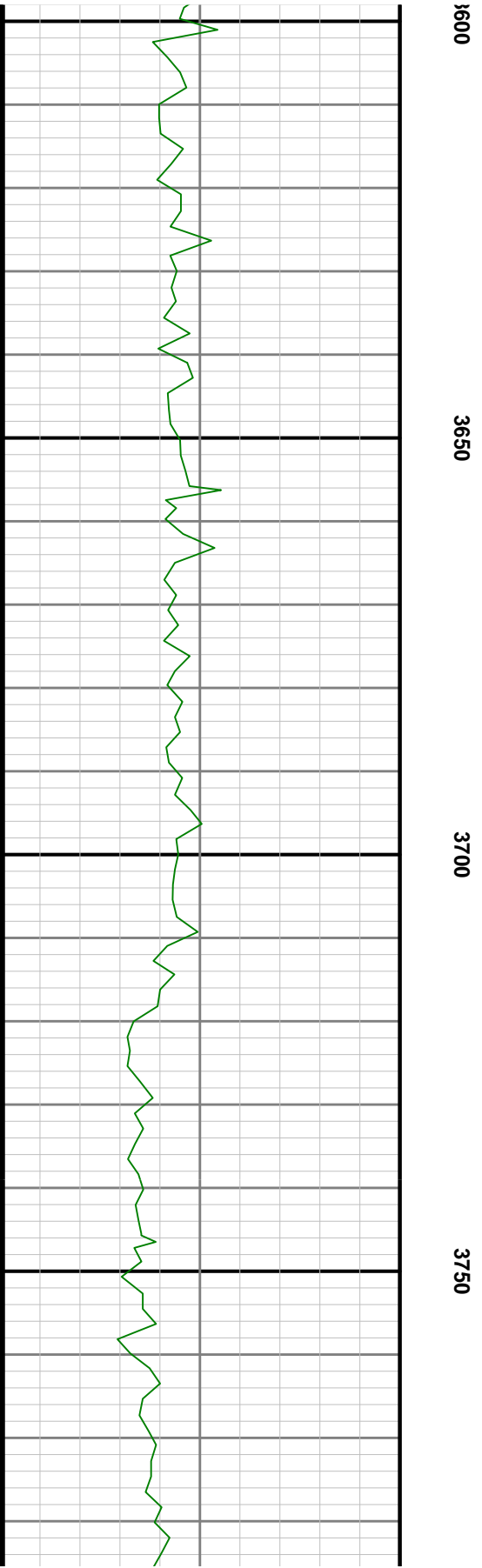
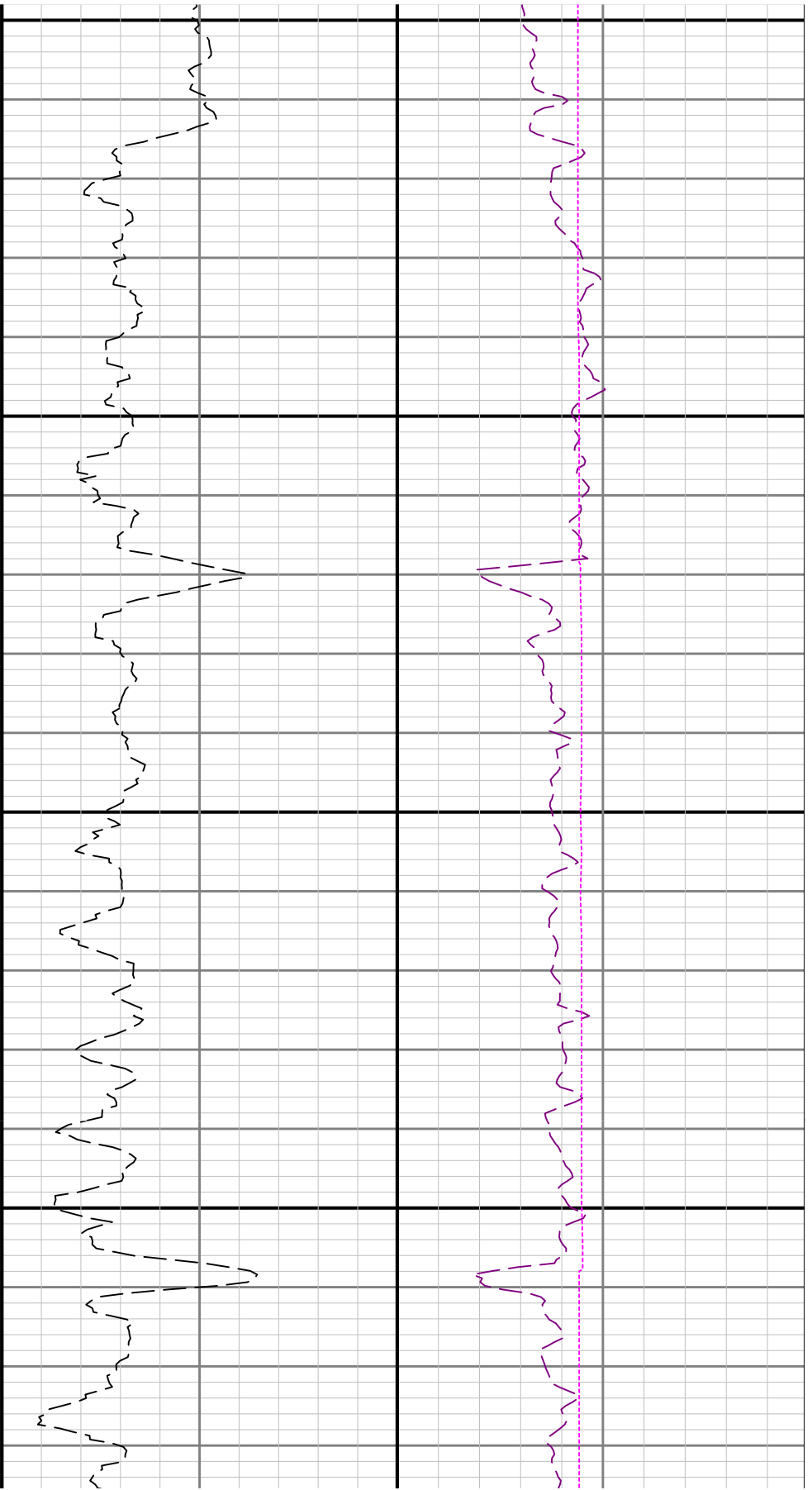


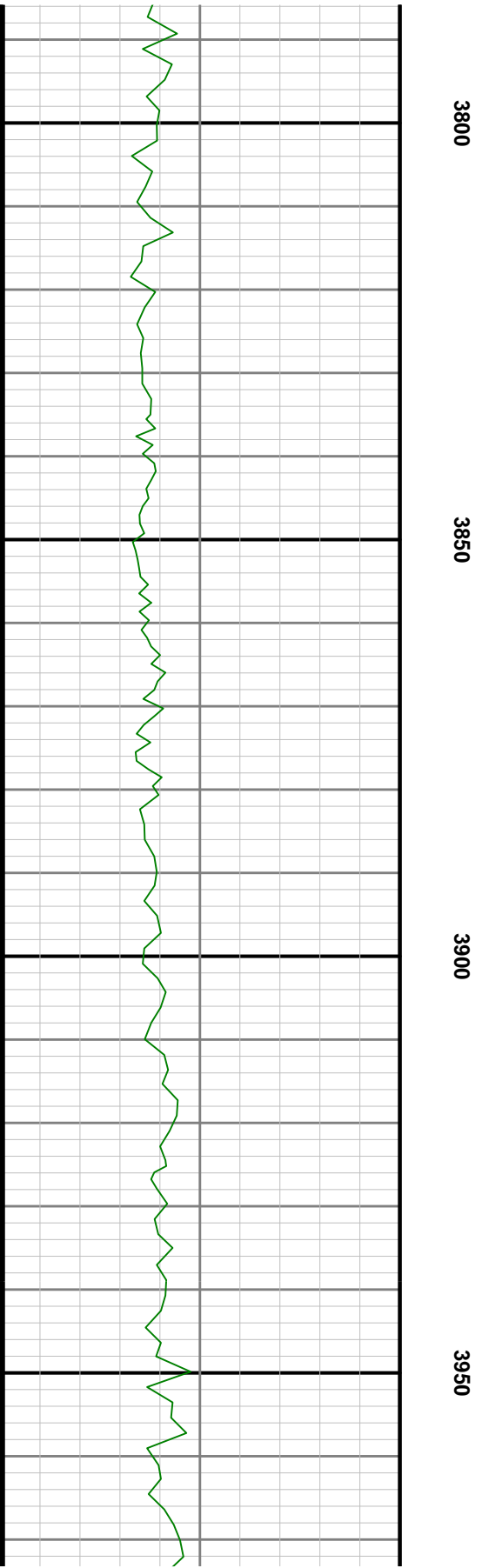
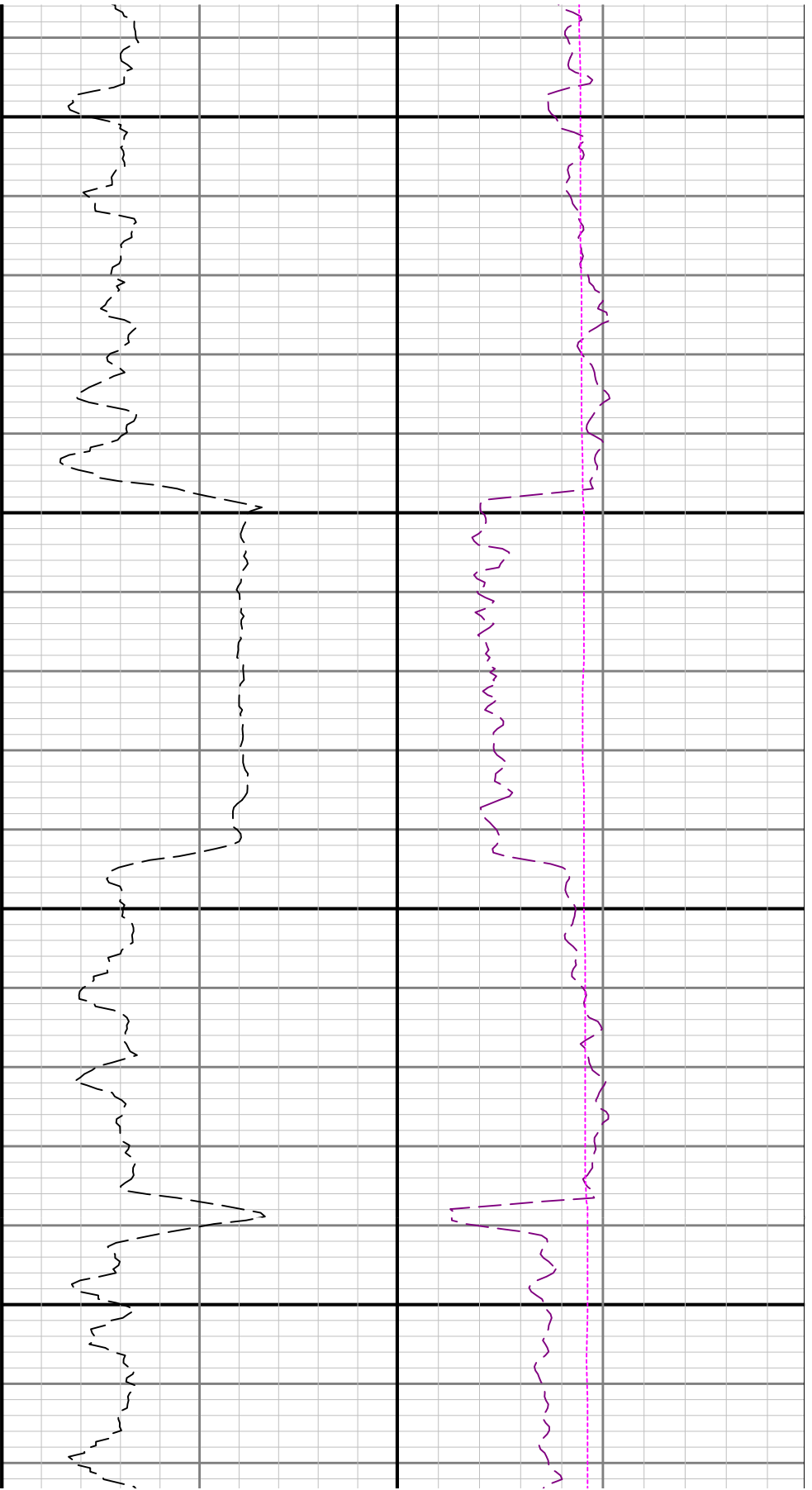


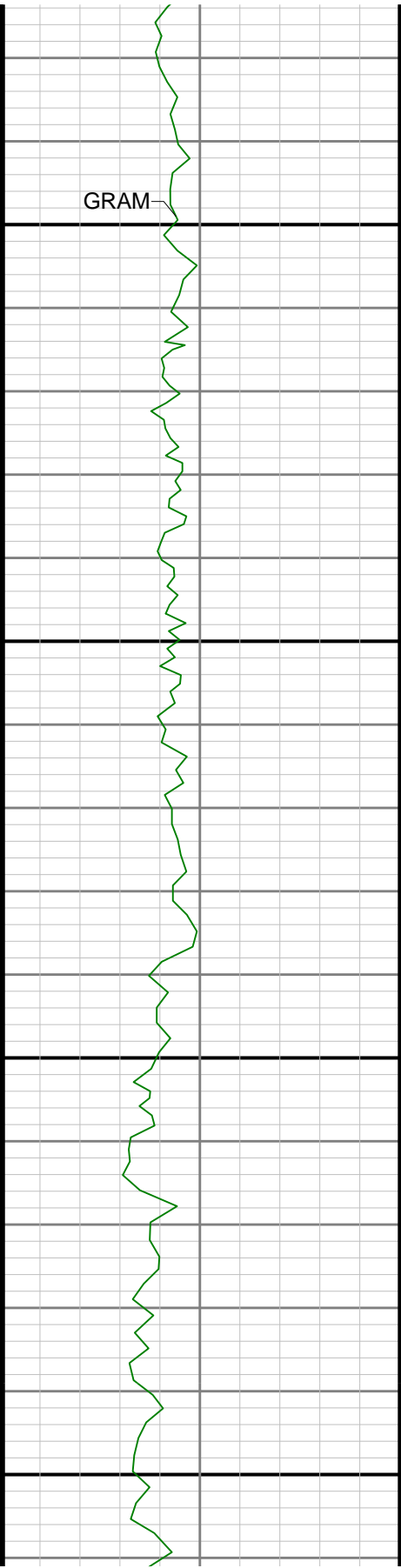










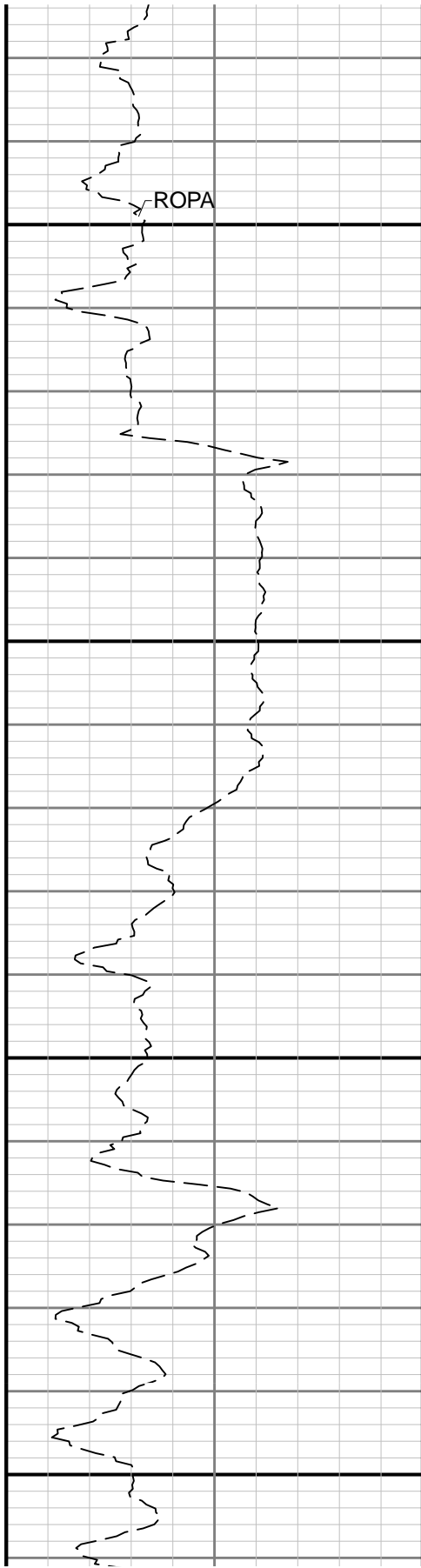


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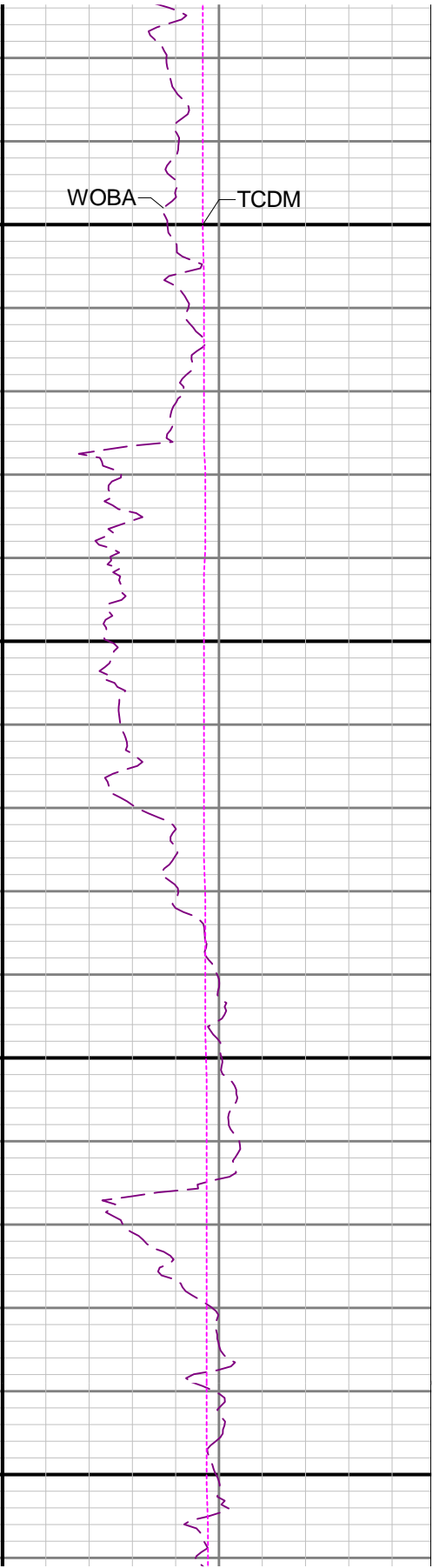
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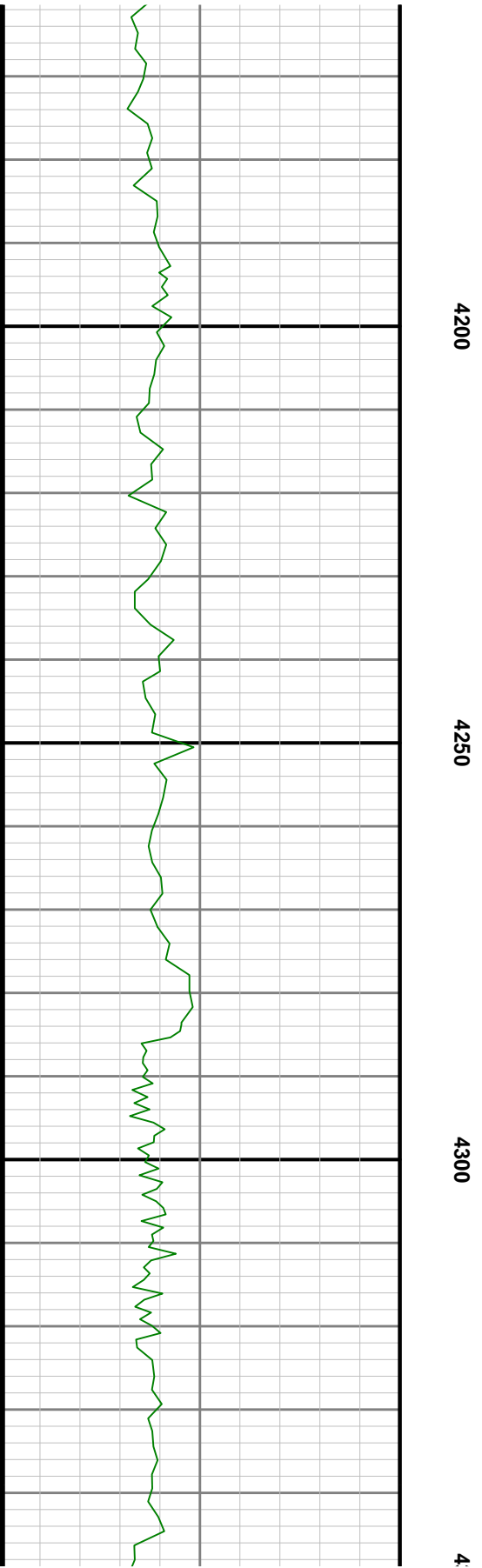
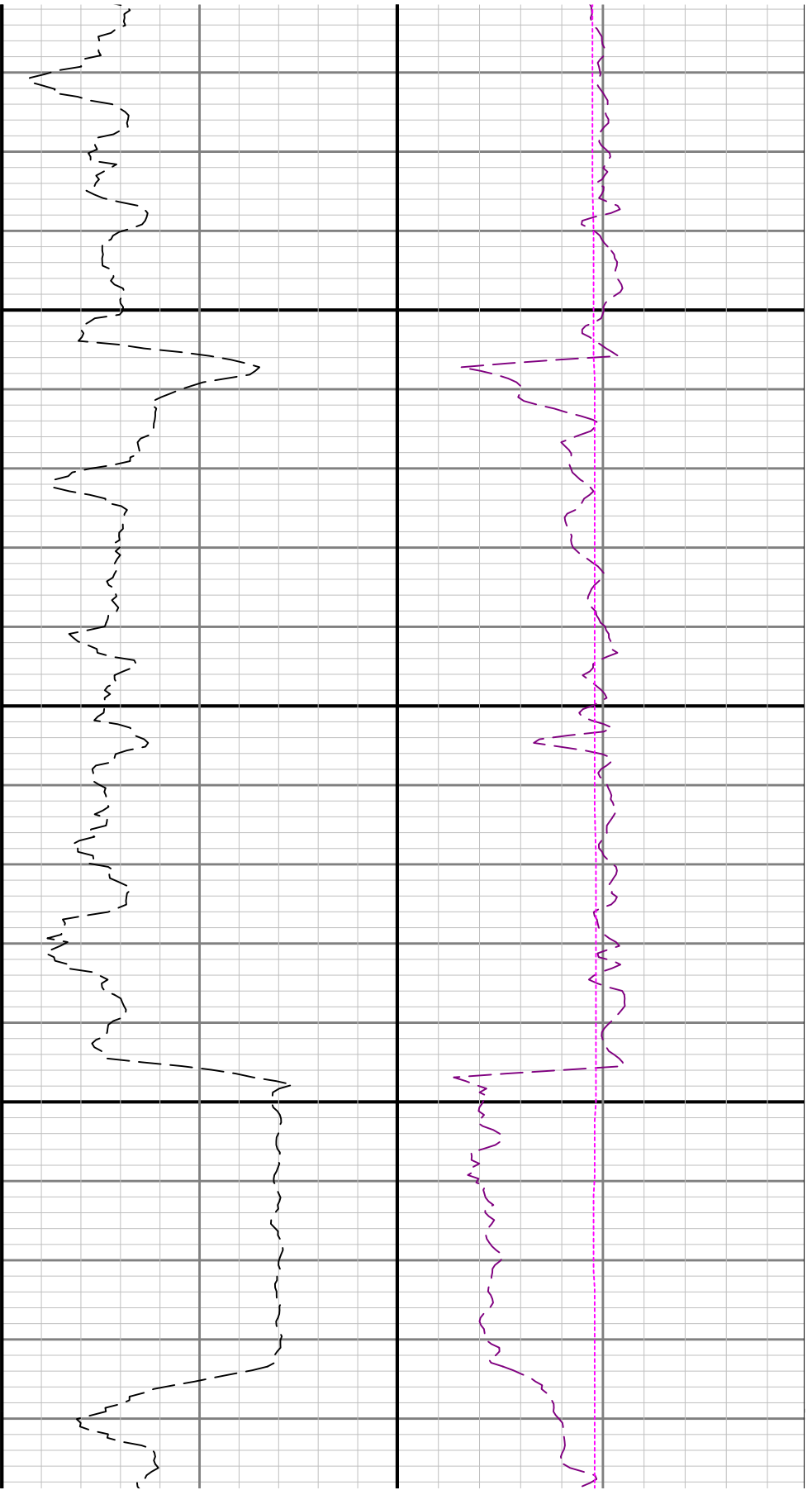
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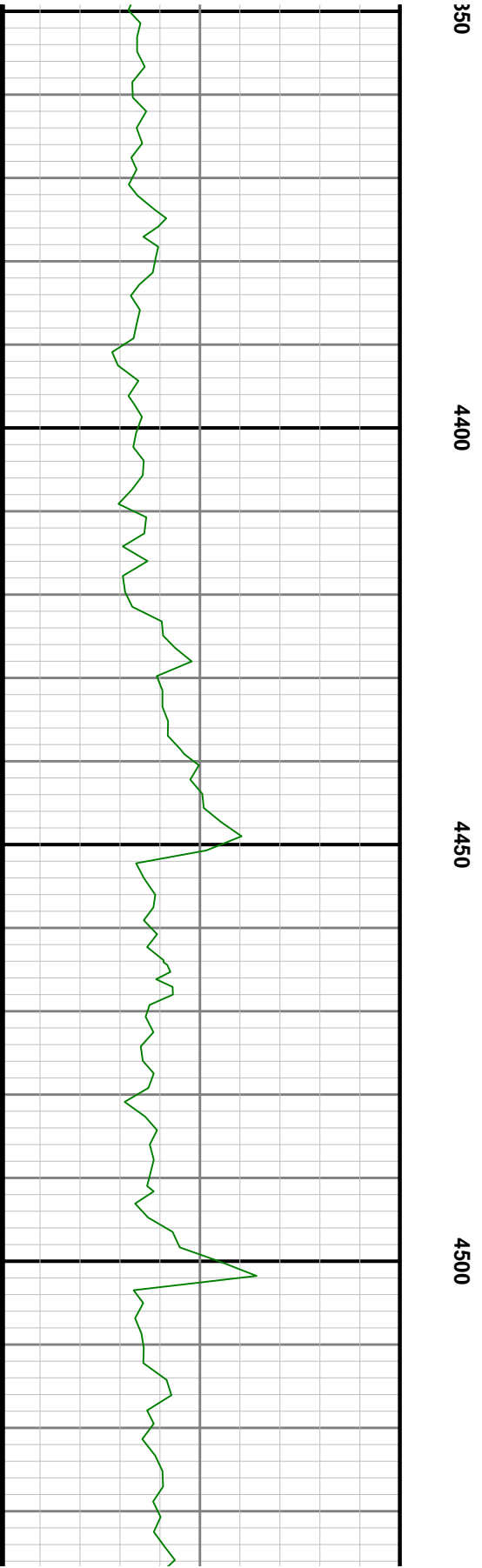
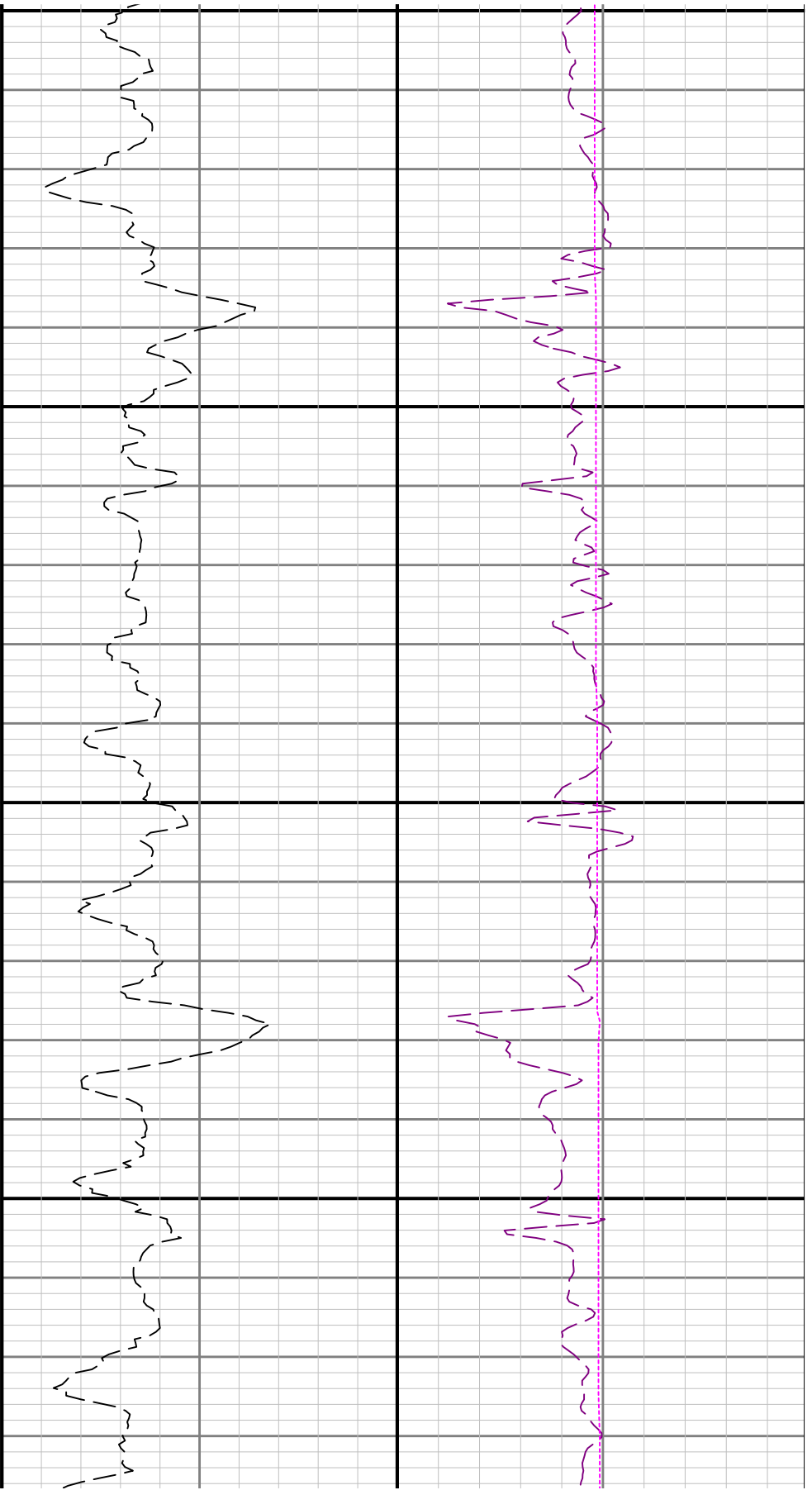


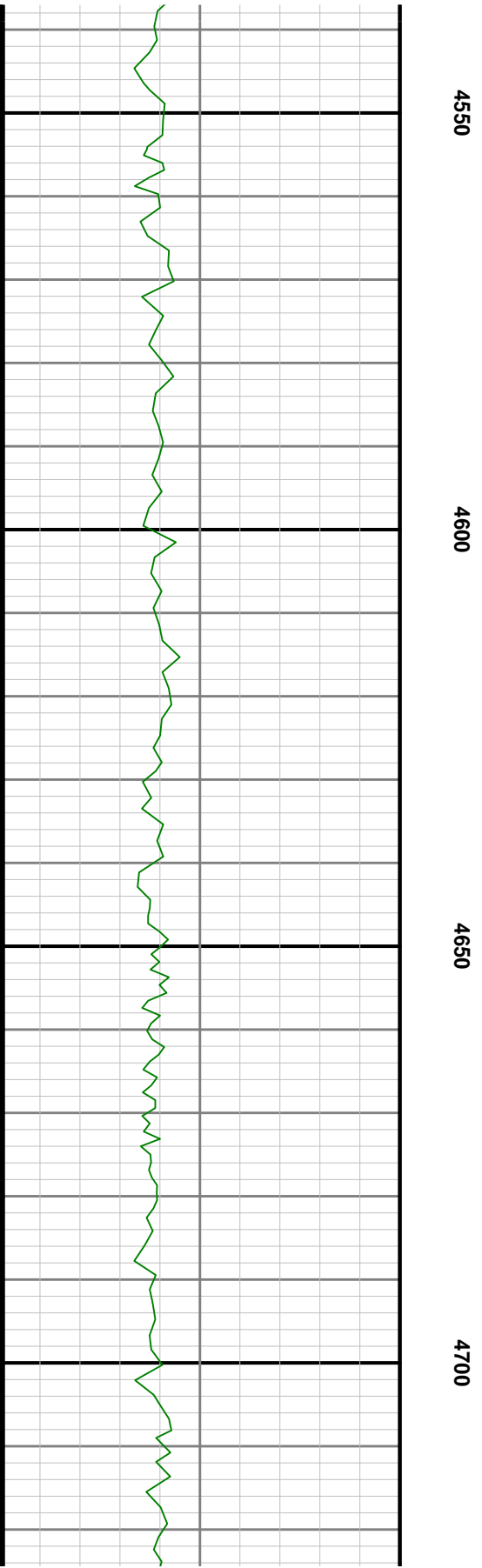
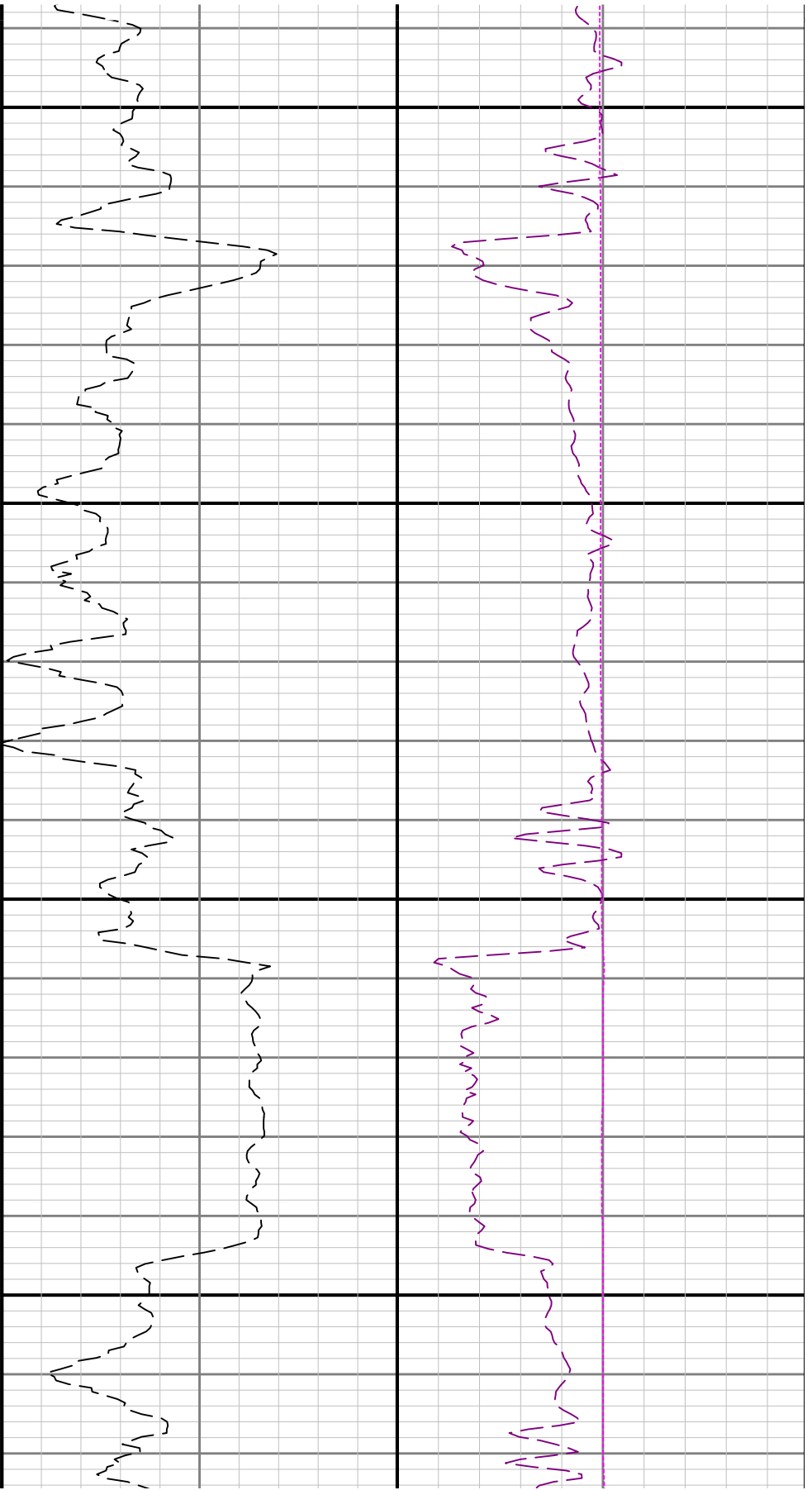
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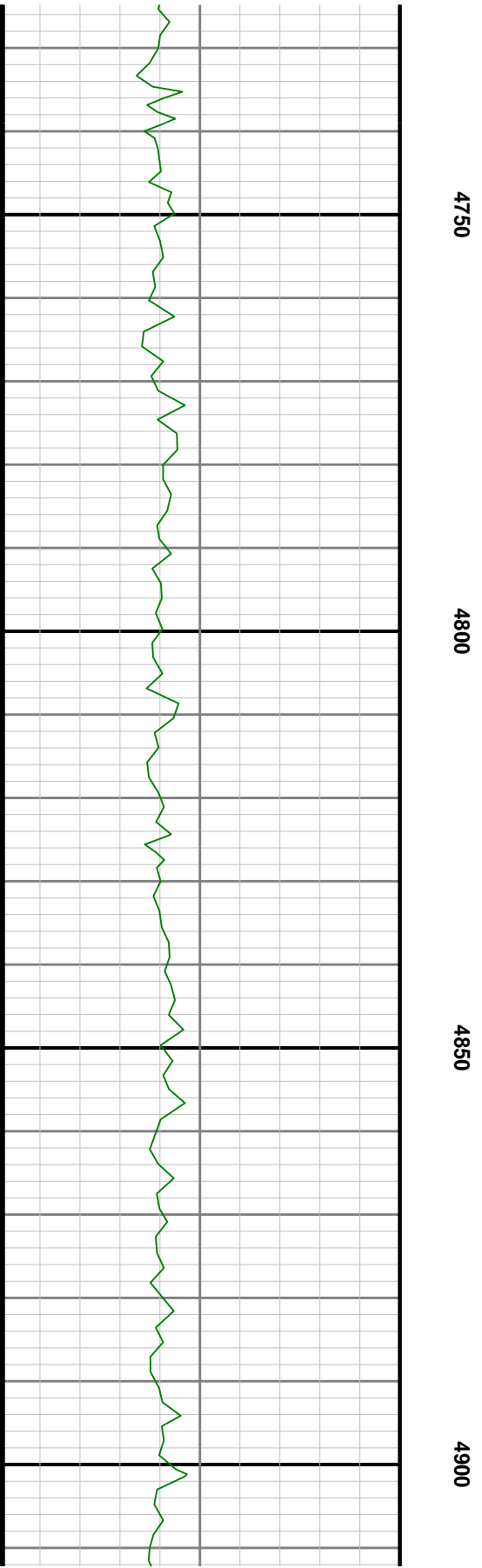
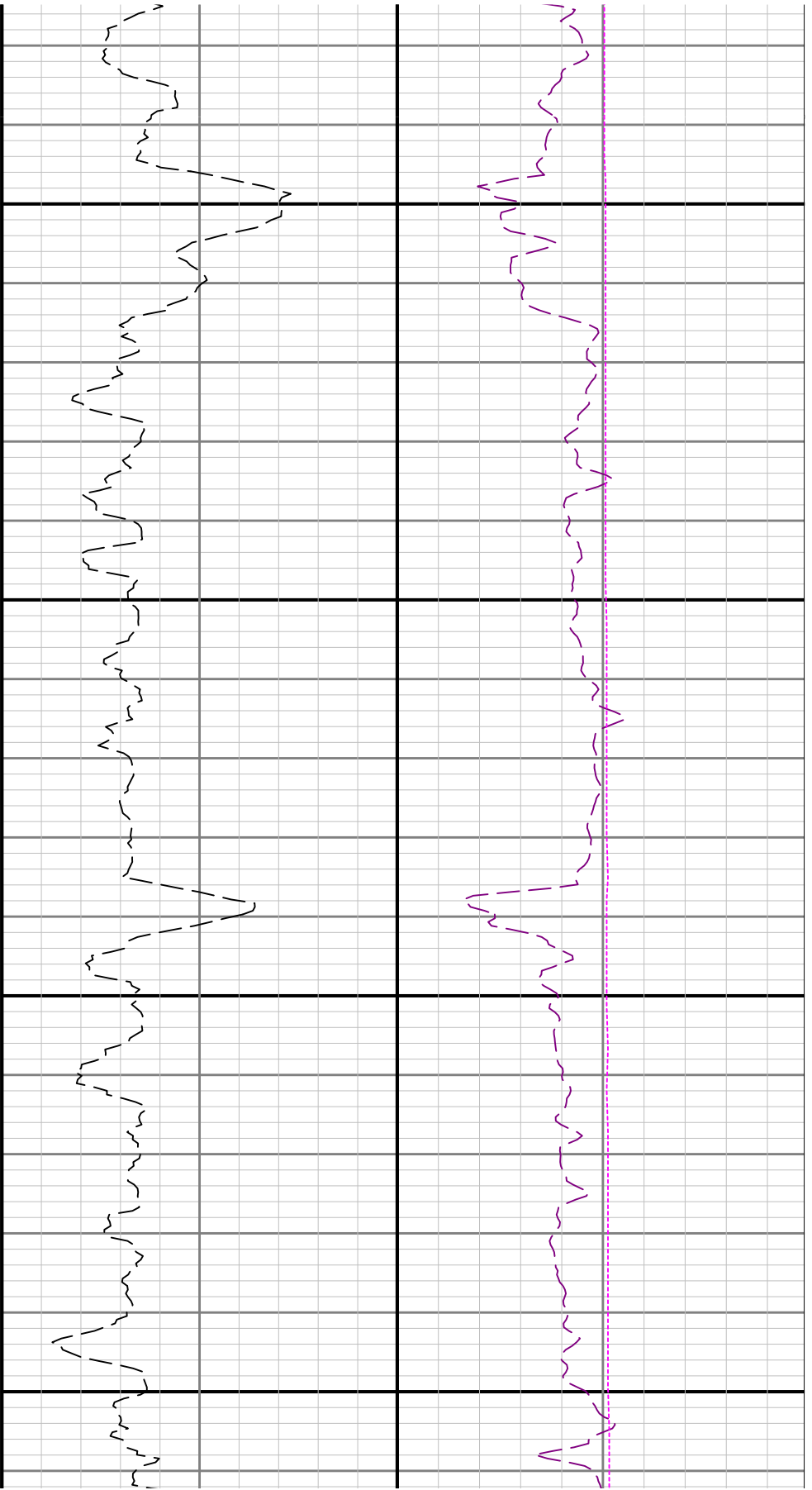
TCDM

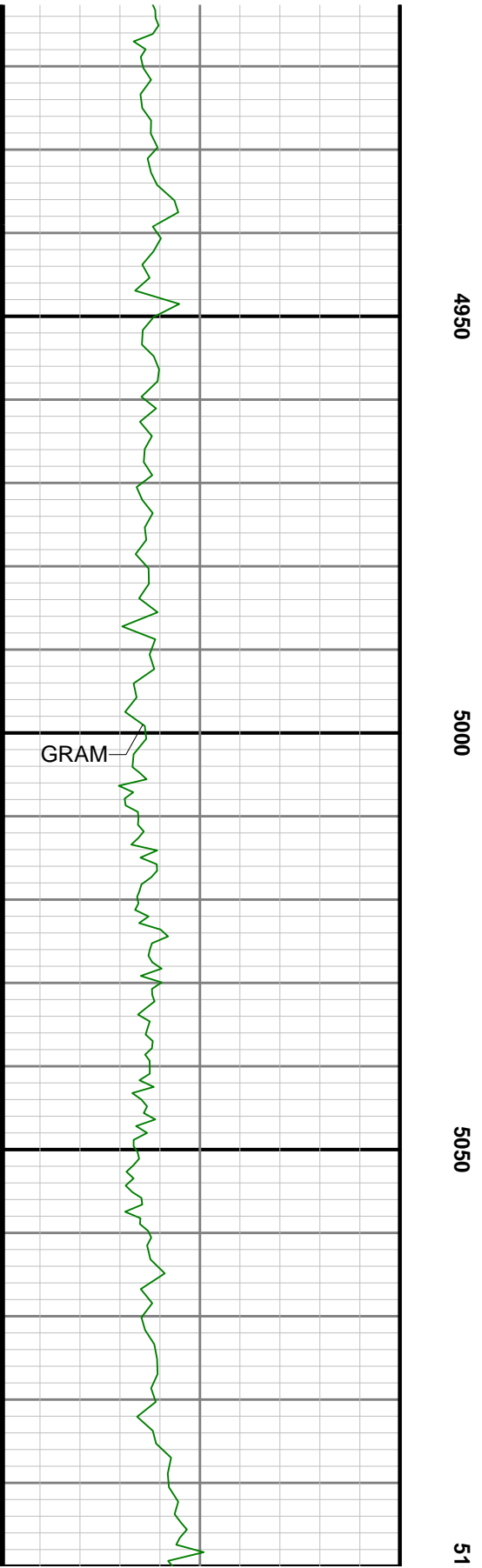
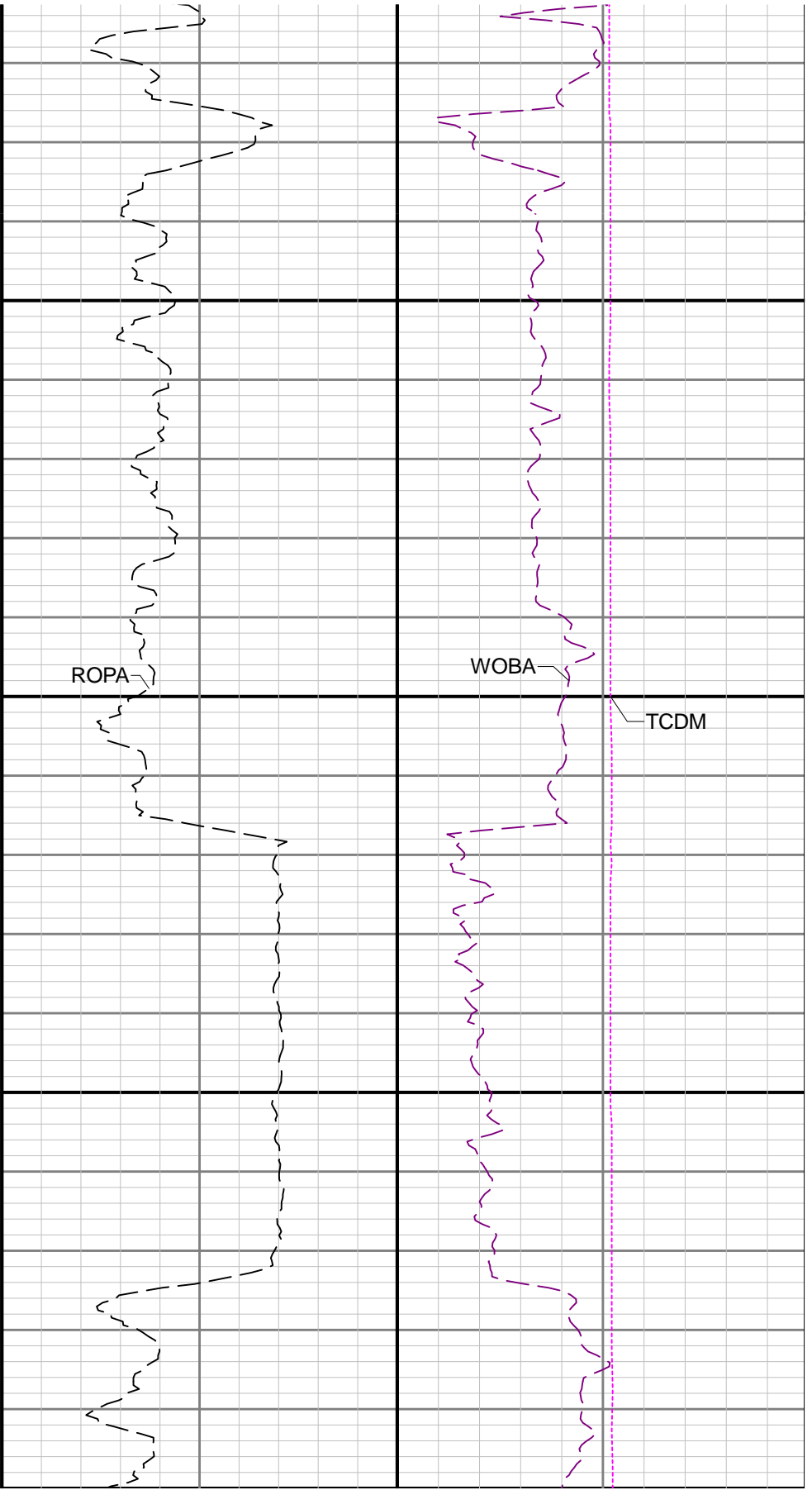


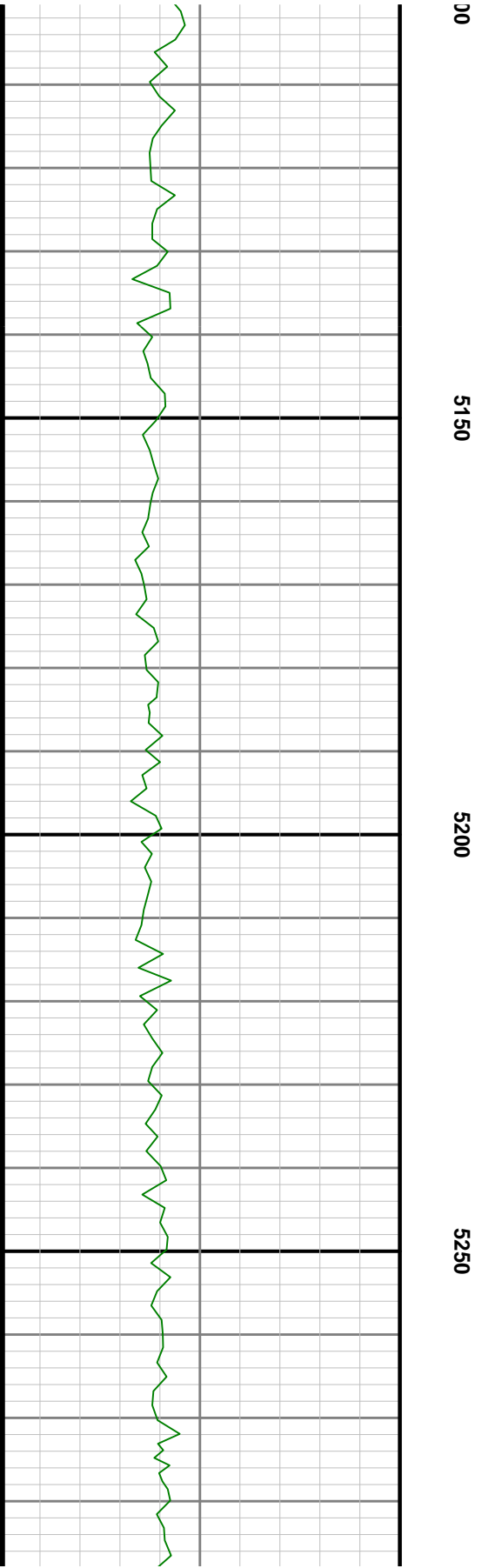
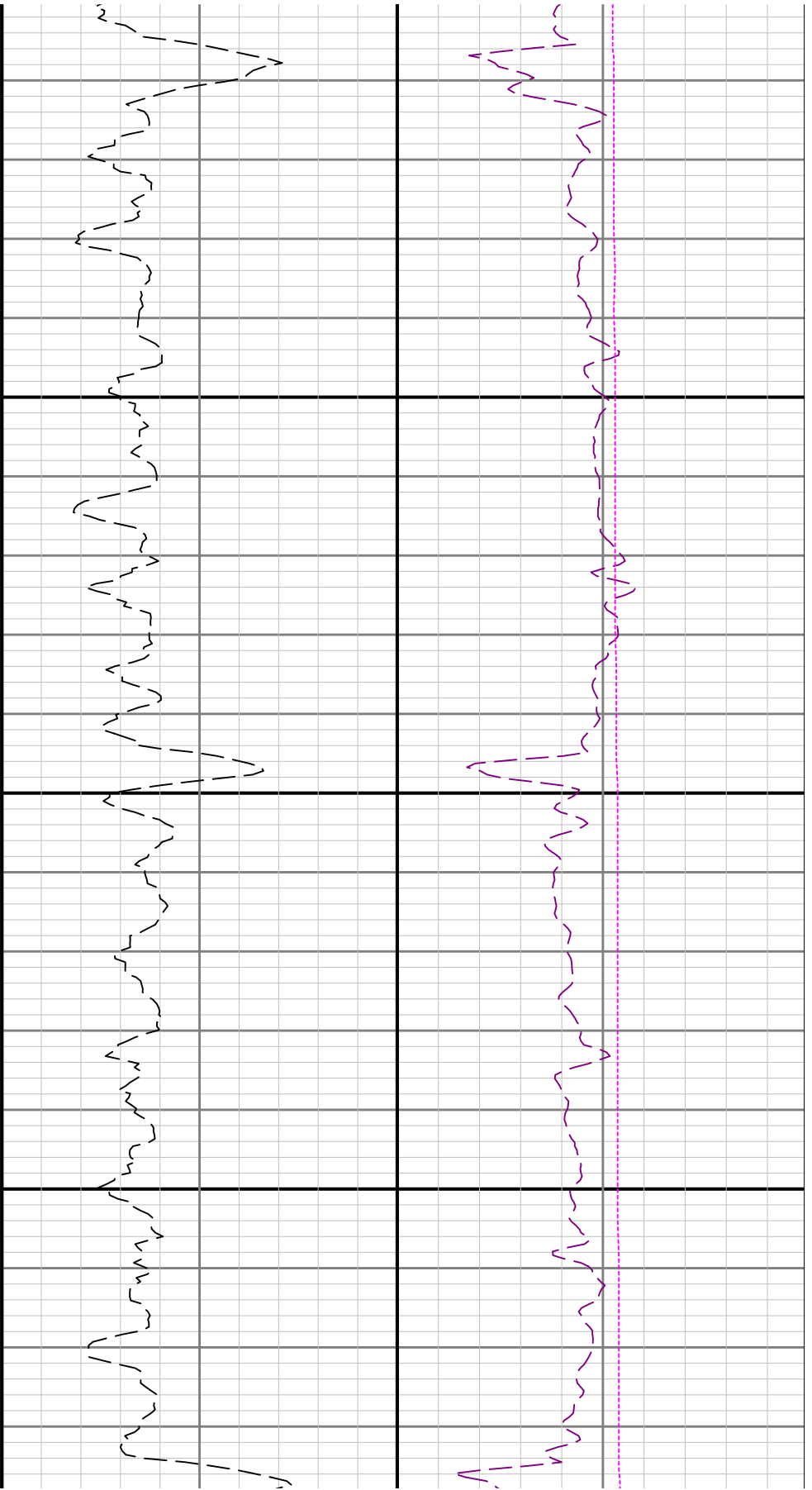


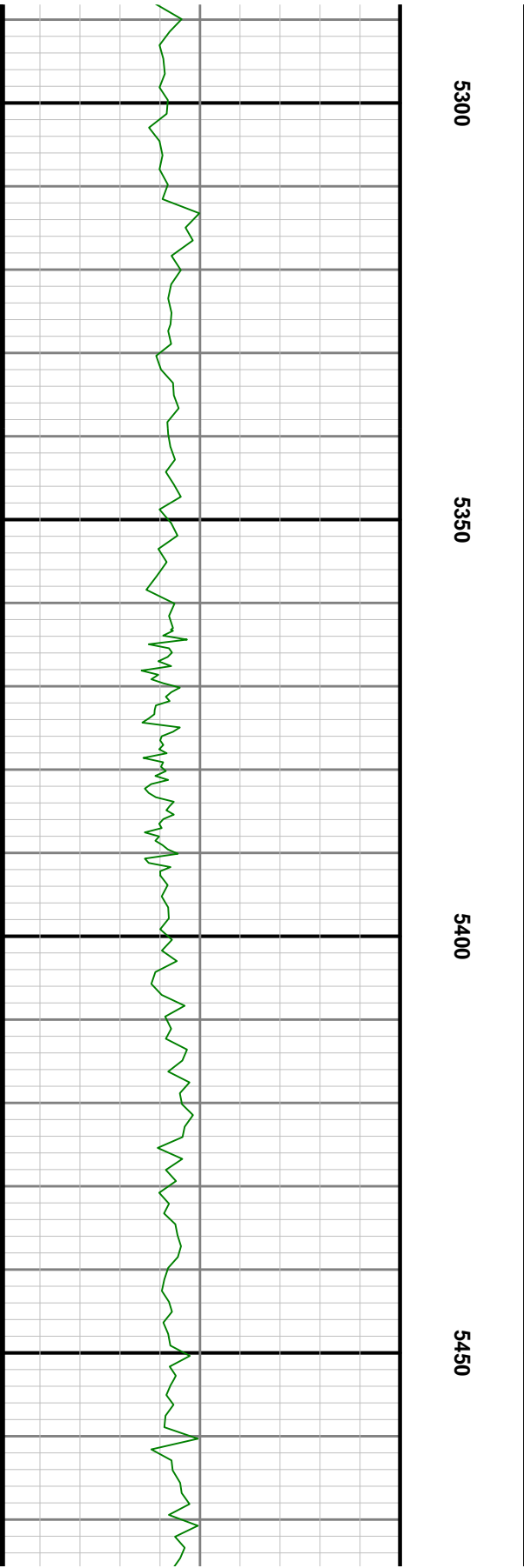
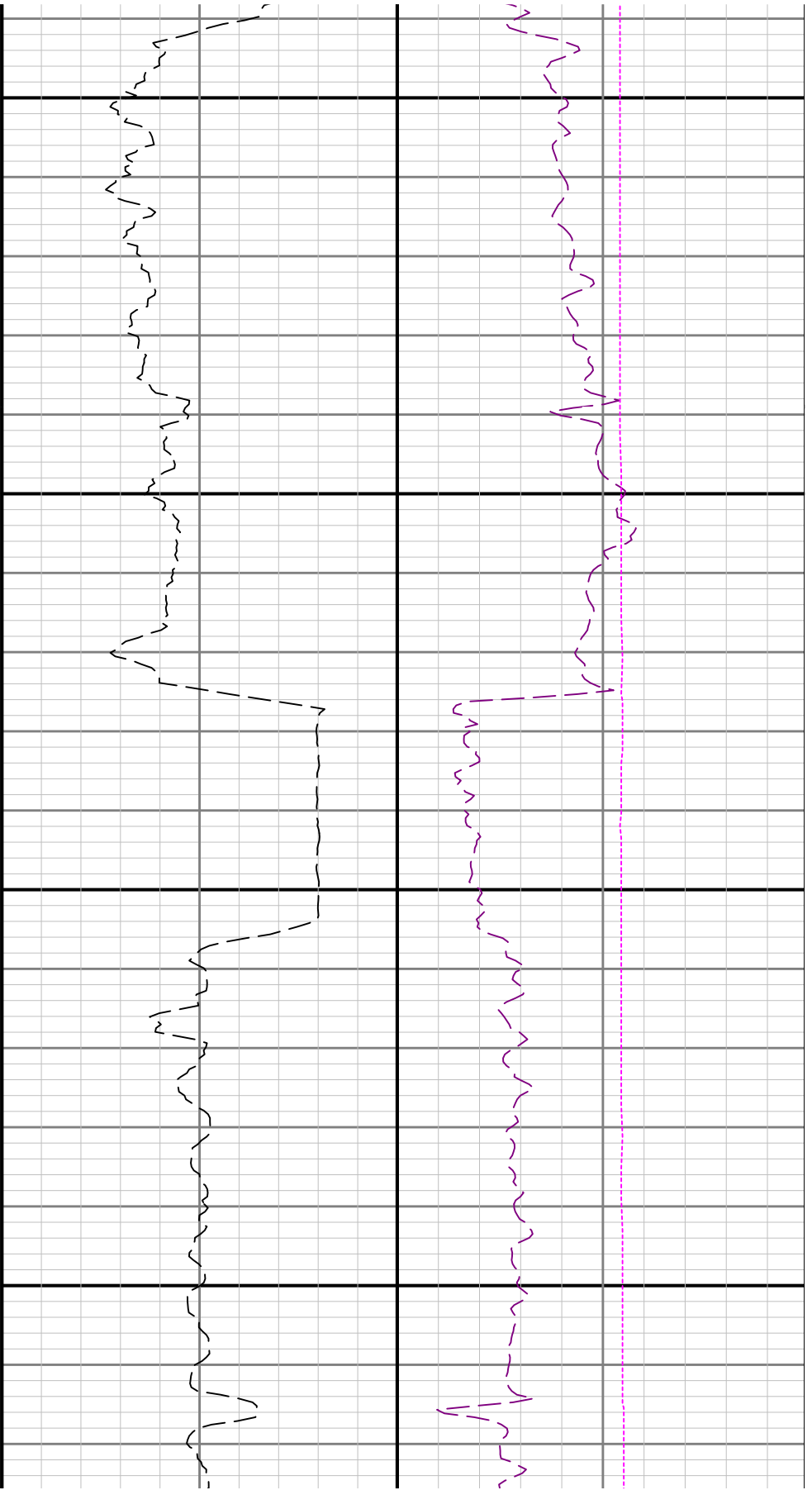


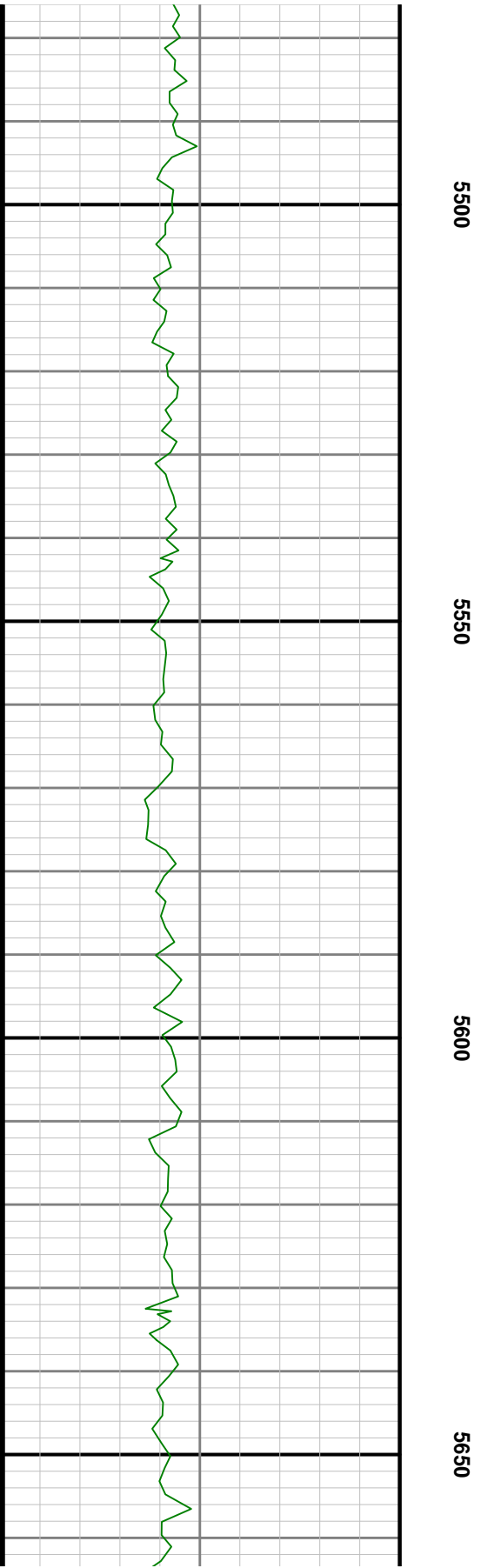
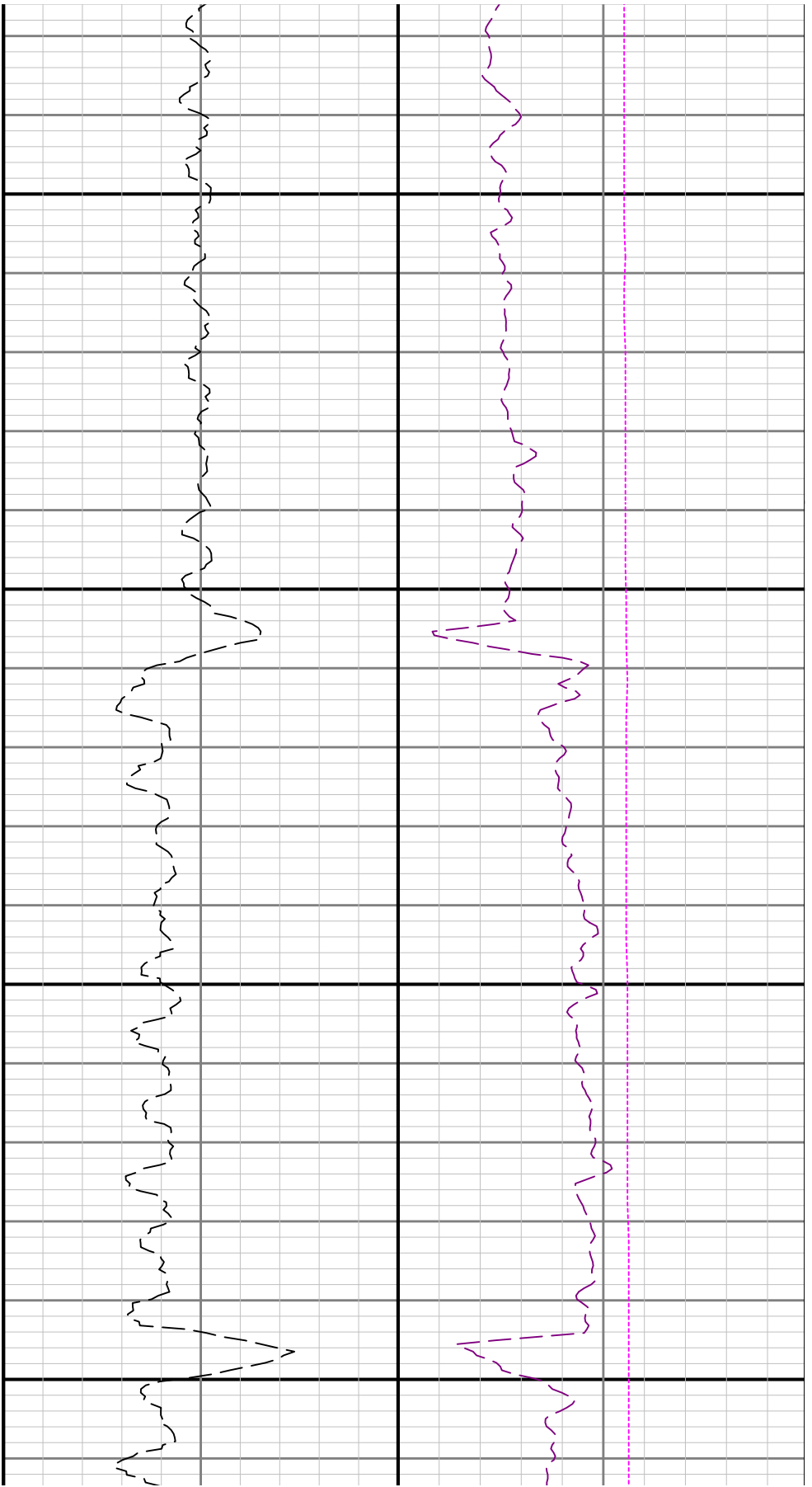


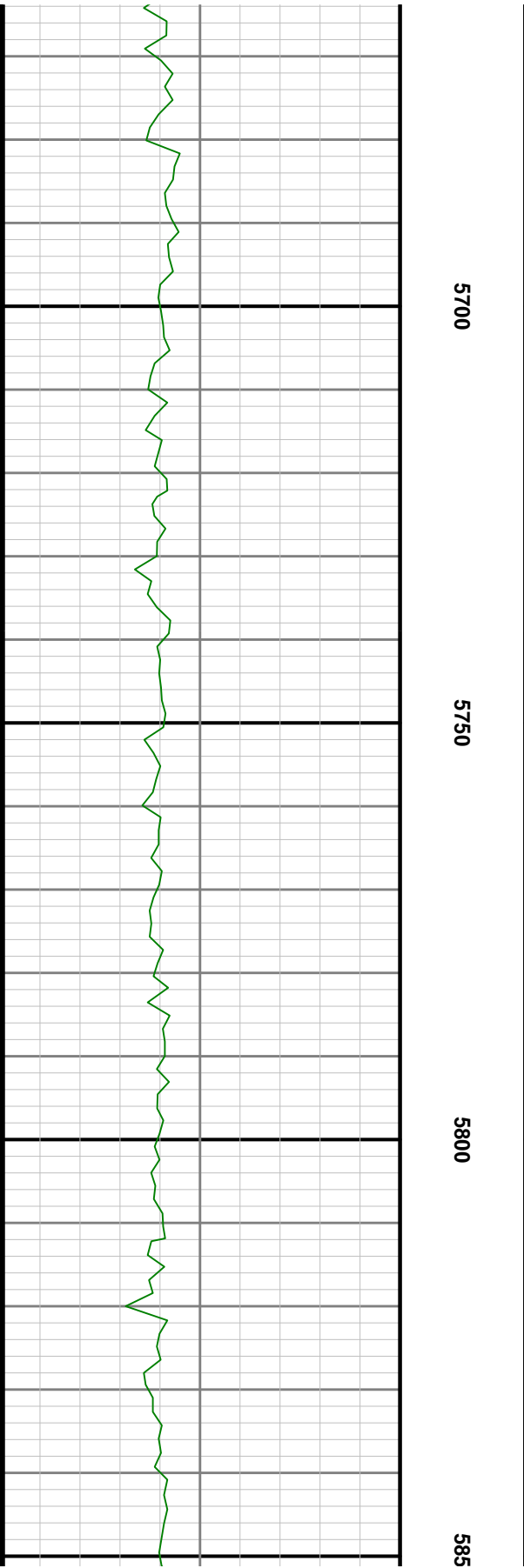
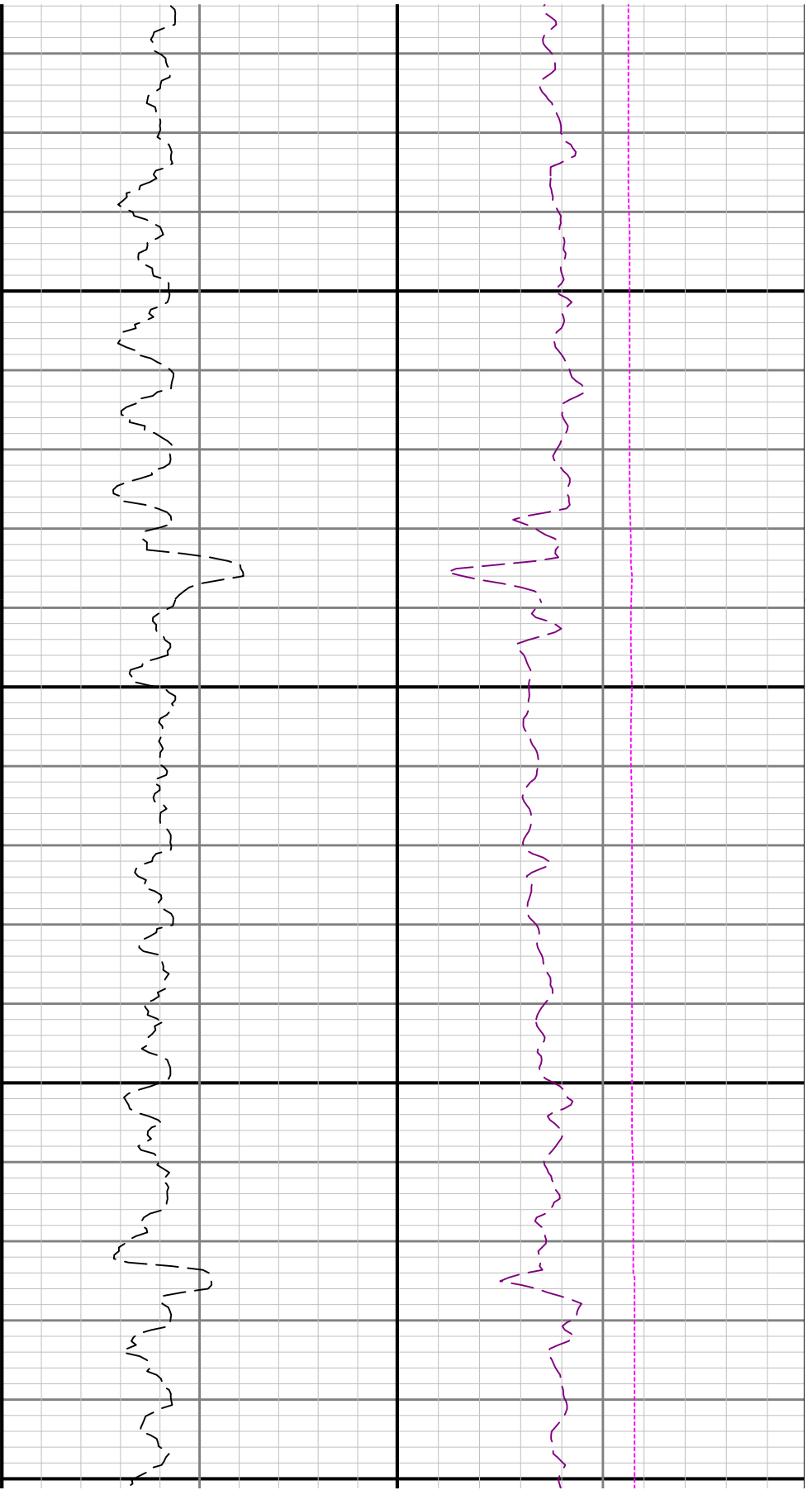


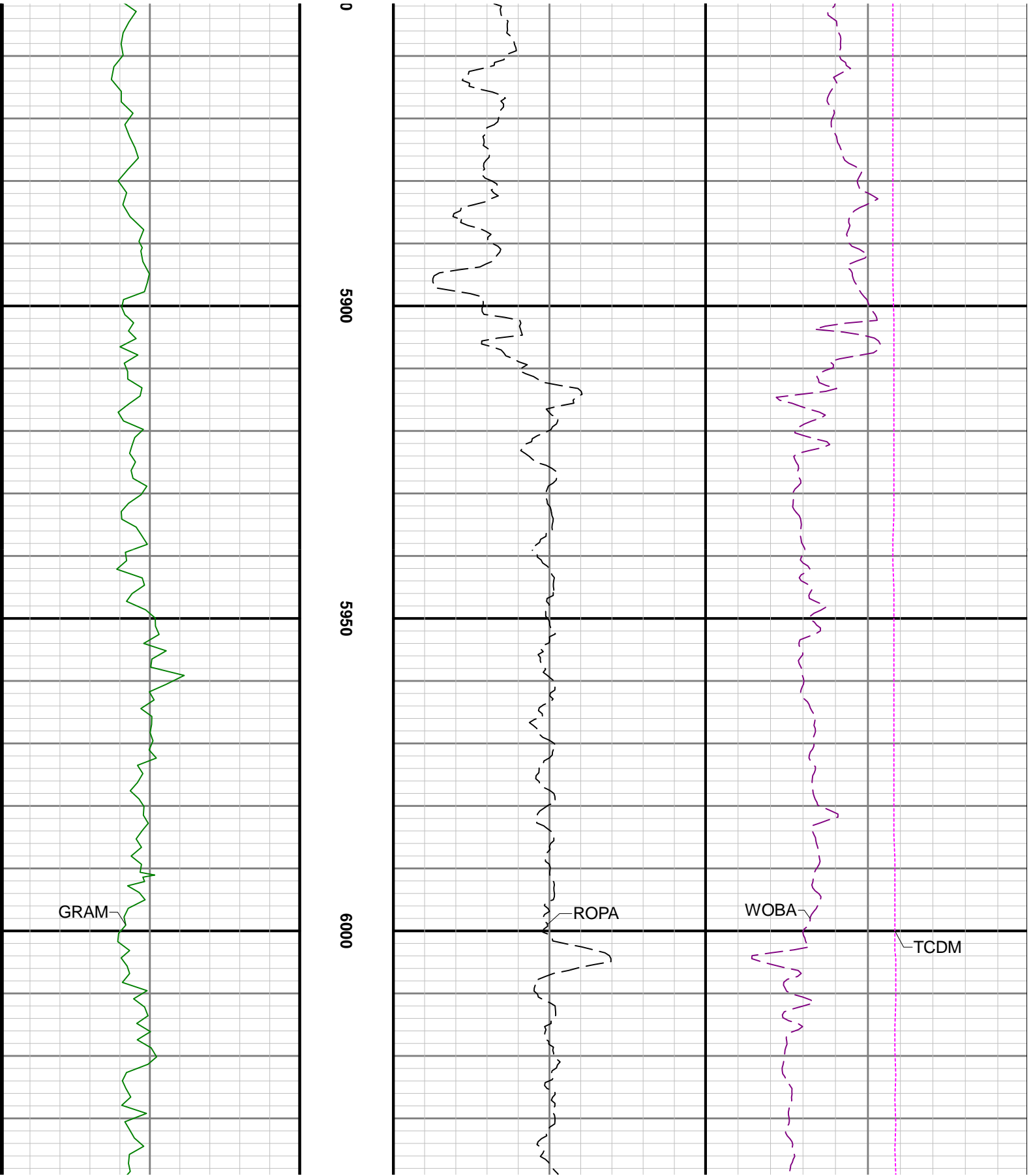


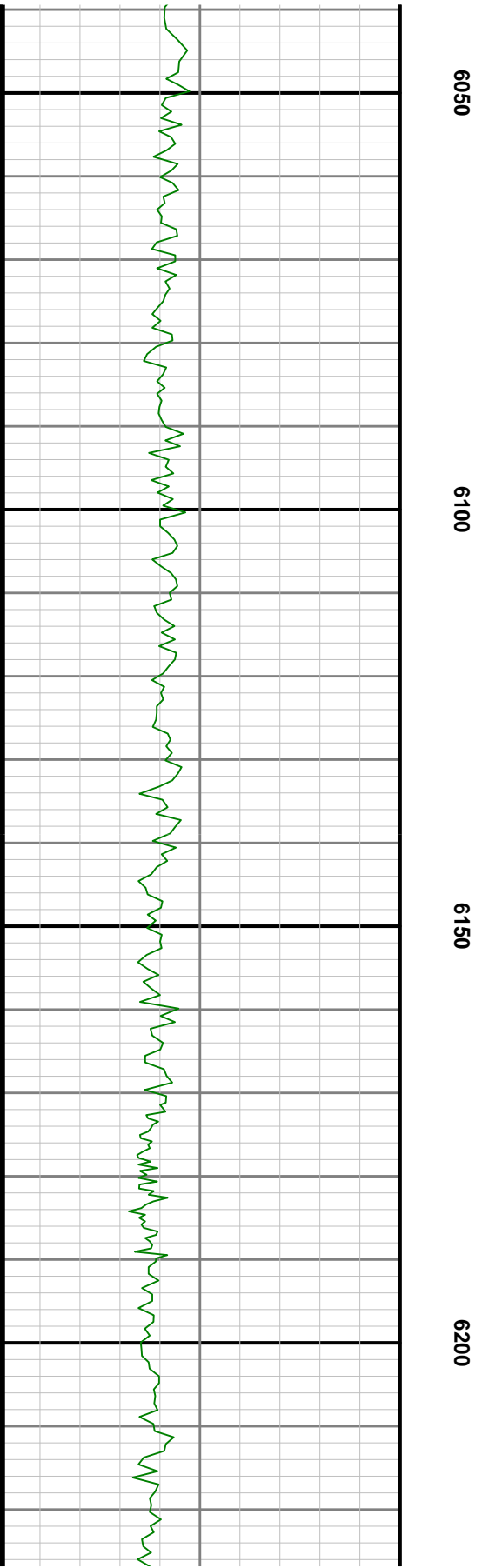
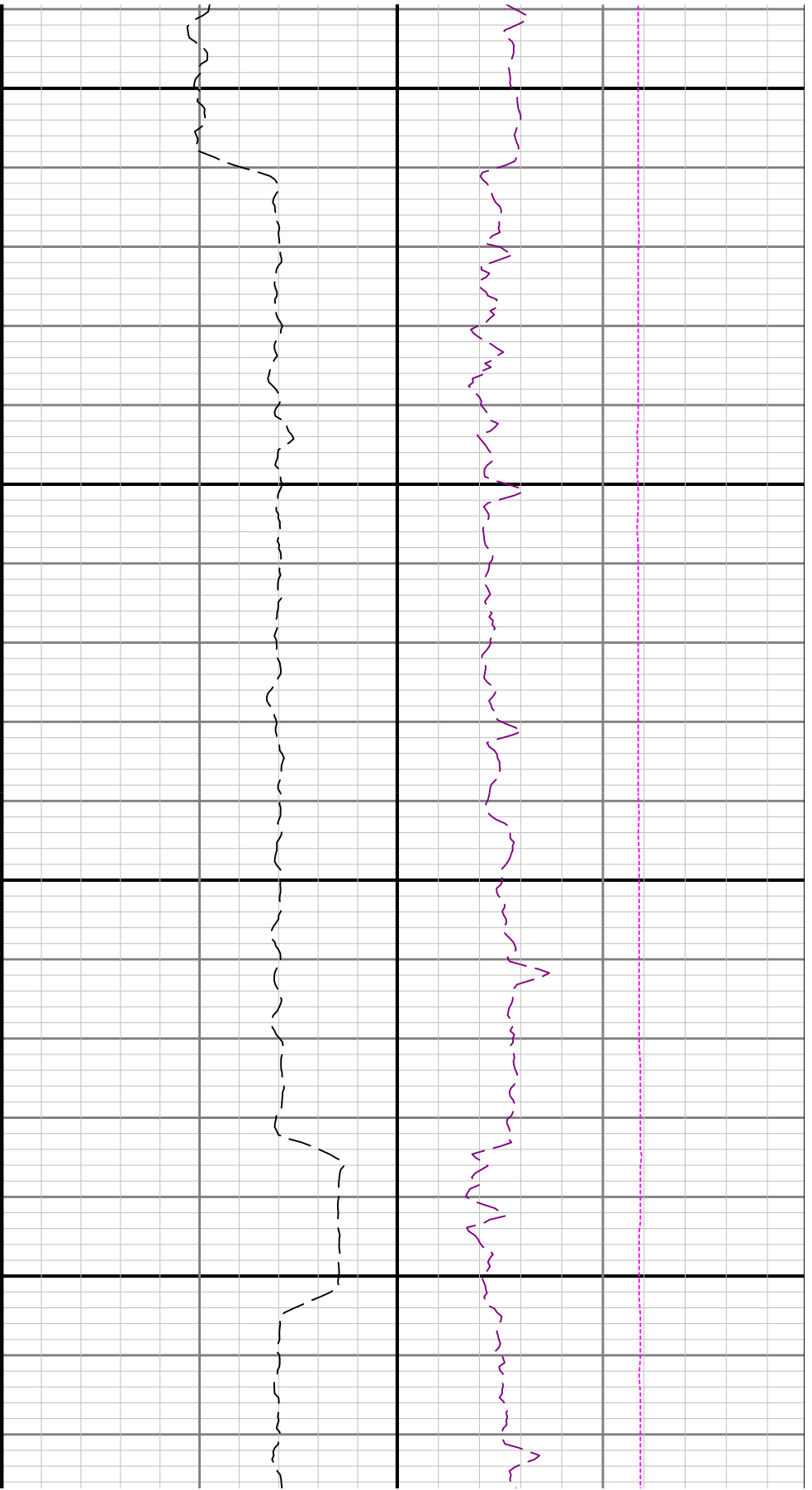


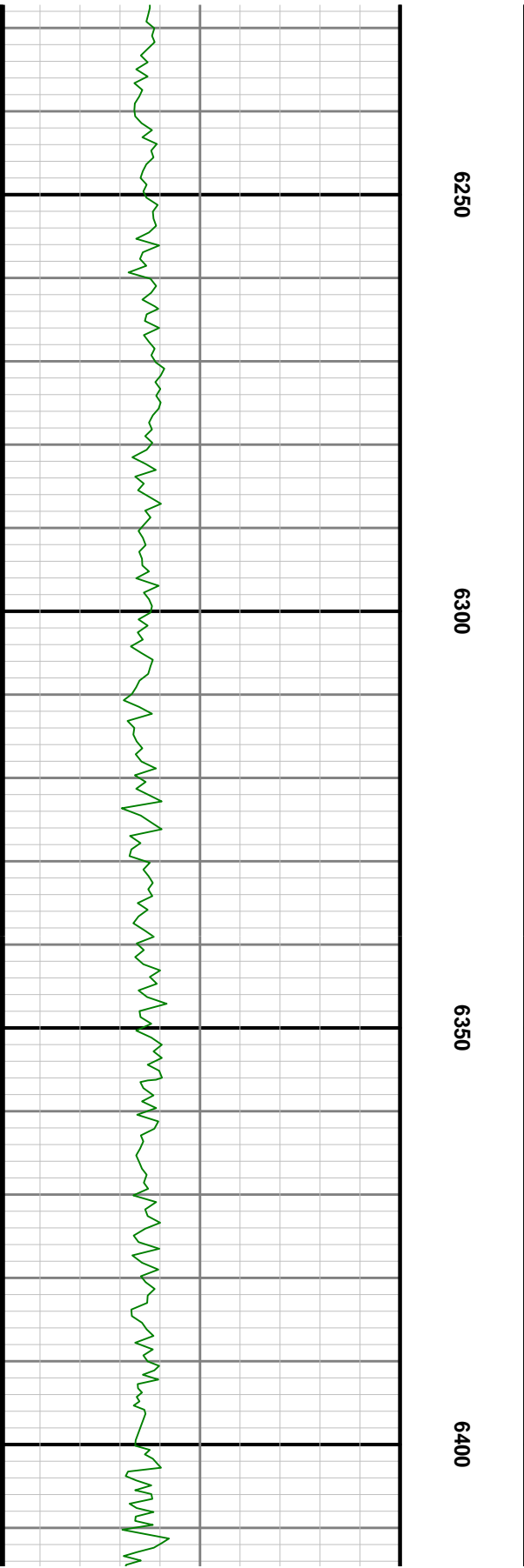
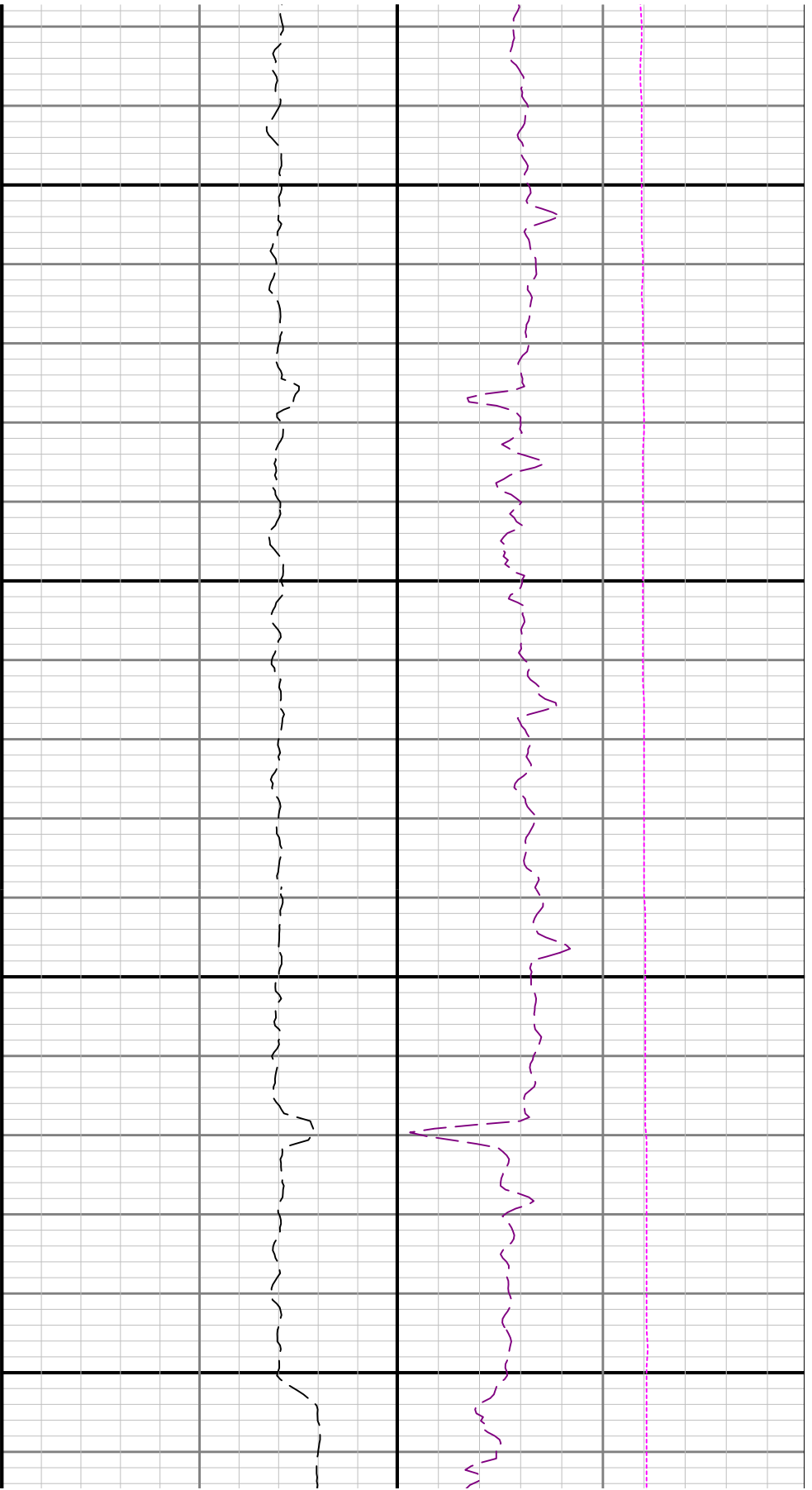


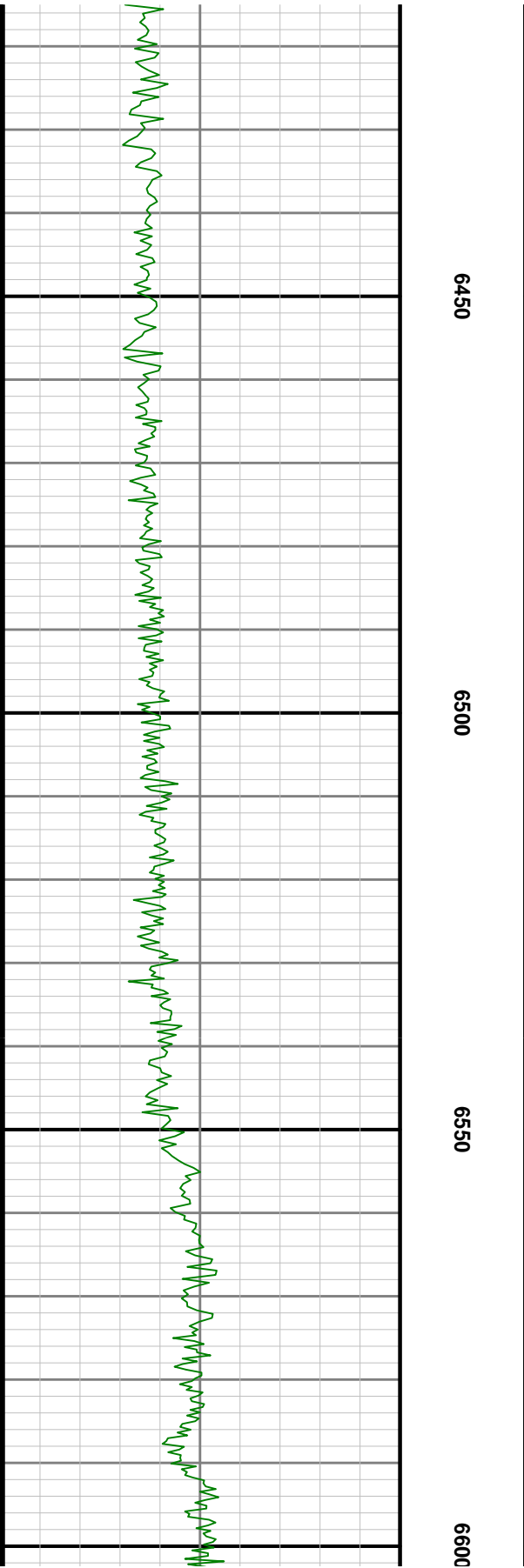
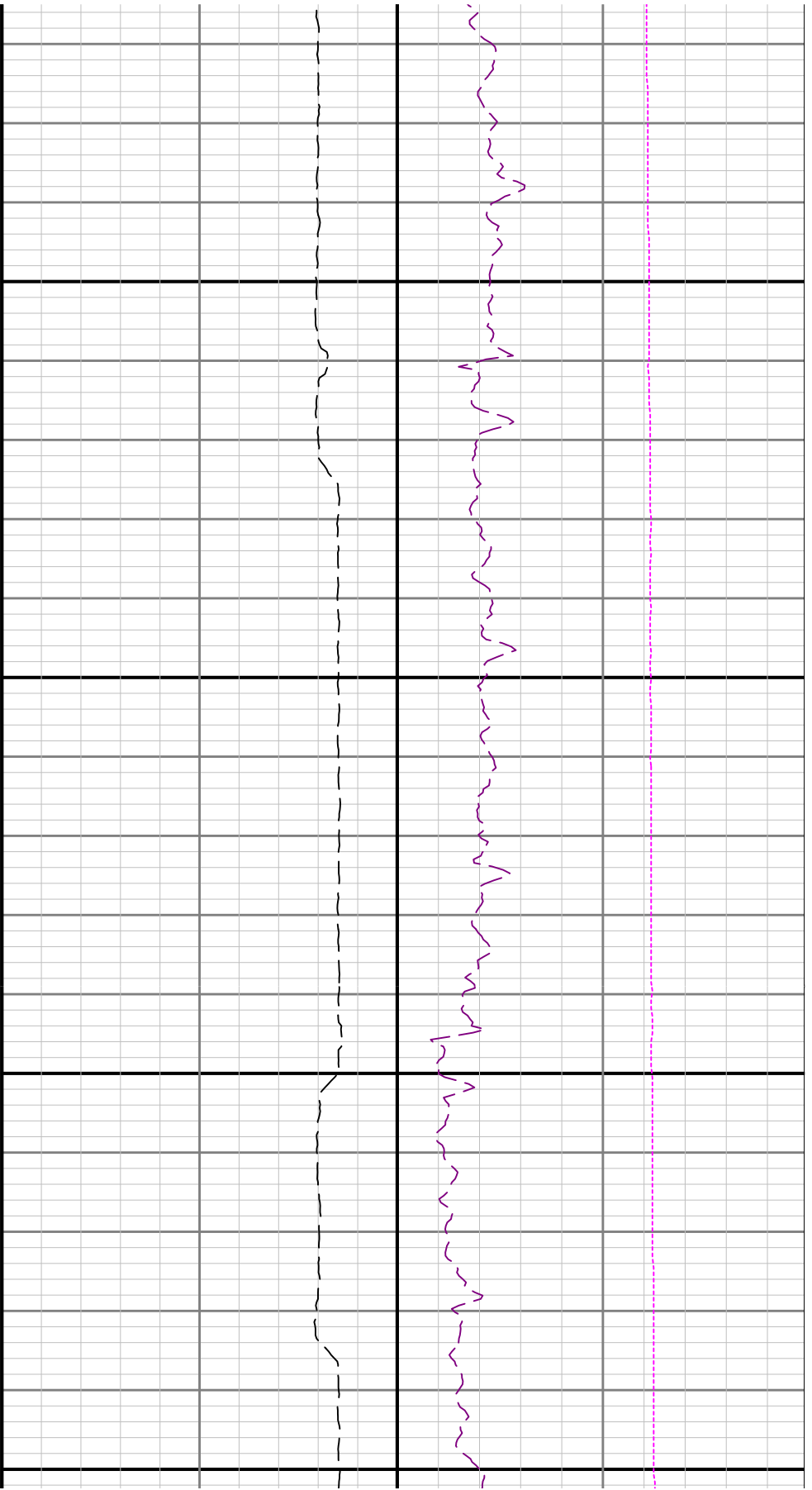


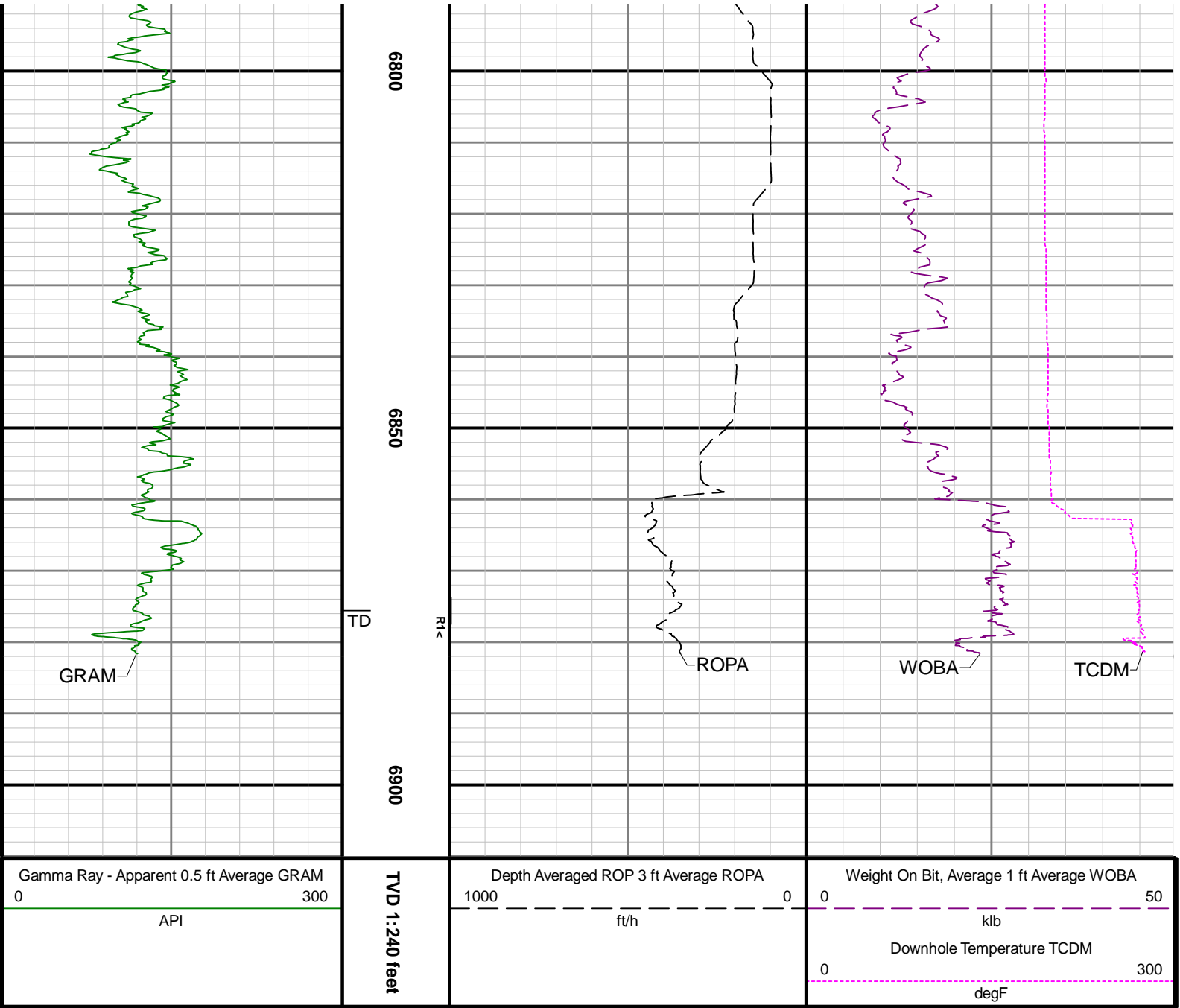












Directional Survey Summary													
Latitude:		040° 13' 01.956" N				Longitude:		104° 35' 18.888" W					
North Reference:		Grid				Drill Depth Zero:		Rig Floor					
Vertical Datum is:		Ground Level				Vertical Datum to DDZ: (ft)		30.00					
Vertical Section North: (ft)		0.00				Vertical Section East: (ft)		0.00					
Vertical Section Azimuth: (deg)		185.41											
Grid Convergence: (deg)		-0.59				Magnetic Declination: (deg)		8.11					
Total Correction: (deg)		7.52				TVD Calculation Method:		Minimum Curvature					
Magnetic Correction:		On				Local Magnetic Field: (nT)		52075					
Local Magnetic Dip Angle: (deg)		66.70				Local Gravity Field: (m/s2)		9.800					
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	-4801.00	0.00	0.00	0.00	0.00	0.00

	83.40	0.34	48.15	N/A	0.17	0.18	83.40	-4717.60	-0.18	83.40	0.41	0.41	57.73
	178.50	0.41	45.12	N/A	0.59	0.64	178.50	-4622.50	-0.65	95.10	0.08	0.07	-3.19
	270.90	0.50	23.39	N/A	1.20	1.03	270.89	-4530.11	-1.29	92.40	0.21	0.10	-23.52
	365.40	0.48	84.51	N/A	1.61	1.59	365.39	-4435.61	-1.76	94.50	0.53	-0.02	64.68
	460.20	0.49	128.17	N/A	1.40	2.30	460.19	-4340.81	-1.61	94.80	0.38	0.01	46.05
	554.90	0.52	63.77	N/A	1.34	3.01	554.89	-4246.11	-1.62	94.70	0.57	0.03	-68.00
	649.60	0.15	273.25	N/A	1.54	3.27	649.58	-4151.42	-1.84	94.70	0.69	-0.39	-158.94
	744.40	0.35	51.75	N/A	1.72	3.37	744.38	-4056.62	-2.03	94.80	0.50	0.21	146.10
	839.10	0.40	330.19	N/A	2.19	3.43	839.08	-3961.92	-2.50	94.70	0.52	0.05	-86.12
	933.90	0.21	206.87	N/A	2.32	3.19	933.88	-3867.12	-2.61	94.80	0.57	-0.20	-130.08
	1028.60	0.44	344.08	N/A	2.52	3.01	1028.58	-3772.42	-2.79	94.70	0.65	0.24	144.89
	1123.30	0.46	238.49	N/A	2.67	2.59	1123.28	-3677.72	-2.90	94.70	0.76	0.02	-111.50
	1217.90	0.30	222.70	N/A	2.29	2.10	1217.88	-3583.12	-2.47	94.60	0.20	-0.17	-16.69
	1312.60	0.10	182.16	N/A	2.02	1.93	1312.58	-3488.42	-2.19	94.70	0.25	-0.21	-42.81
	1407.20	0.19	209.00	N/A	1.80	1.85	1407.18	-3393.82	-1.97	94.60	0.12	0.10	28.37
	1501.90	0.54	353.77	N/A	2.11	1.72	1501.88	-3299.12	-2.26	94.70	0.74	0.37	152.87
	1596.60	0.54	357.71	N/A	3.00	1.66	1596.57	-3204.43	-3.14	94.70	0.04	0.00	4.16
	1691.50	0.21	355.01	N/A	3.62	1.62	1691.47	-3109.53	-3.76	94.90	0.35	-0.35	-2.85
	1786.30	0.18	140.46	N/A	3.68	1.70	1786.27	-3014.73	-3.82	94.80	0.39	-0.03	153.43
	1881.10	0.49	196.83	N/A	3.17	1.68	1881.07	-2919.93	-3.32	94.80	0.44	0.33	59.46
Tie-In	1924.00	0.66	215.19	N/A	2.80	1.48	1923.96	-2877.04	-2.92	42.90	0.58	0.40	42.80
	2176.00	0.04	182.27	96.0	1.52	0.64	2175.96	-2625.04	-1.58	252.00	0.25	-0.25	-13.06
	2271.00	2.18	302.92	106.8	2.47	-0.87	2270.94	-2530.06	-2.38	95.00	2.32	2.25	127.00
	2366.00	4.28	309.42	106.8	5.70	-5.13	2365.78	-2435.22	-5.20	95.00	2.24	2.21	6.84
	2461.00	6.18	308.24	182.5	11.12	-11.89	2460.38	-2340.62	-9.95	95.00	2.00	2.00	-1.24
	2555.00	7.13	309.06	112.2	17.93	-20.39	2553.75	-2247.25	-15.93	94.00	1.02	1.01	0.87
	2650.00	9.40	311.27	114.9	26.76	-30.80	2647.75	-2153.25	-23.74	95.00	2.41	2.39	2.33
	2744.00	12.09	313.22	117.6	38.57	-43.75	2740.10	-2060.90	-34.27	94.00	2.89	2.86	2.07
	2839.00	13.80	313.97	120.3	53.25	-59.15	2832.68	-1968.32	-47.44	95.00	1.81	1.80	0.79
	2934.00	15.30	315.28	120.3	70.02	-76.13	2924.63	-1876.37	-62.53	95.00	1.62	1.58	1.38
	3028.00	16.76	316.29	123.0	88.63	-94.22	3014.97	-1786.03	-79.36	94.00	1.58	1.55	1.07
	3123.00	18.07	317.29	125.7	109.36	-113.68	3105.62	-1695.38	-98.16	95.00	1.41	1.38	1.05
	3313.00	16.54	318.64	350.0	151.32	-151.54	3287.01	-1513.99	-136.35	190.00	0.83	-0.81	0.71
	3502.00	17.94	323.96	128.4	195.05	-186.45	3467.53	-1333.47	-176.60	189.00	1.11	0.74	2.81
	3597.00	18.04	326.53	131.1	219.15	-203.17	3557.88	-1243.12	-199.02	95.00	0.84	0.11	2.71
	3691.00	18.59	321.30	131.1	242.99	-220.56	3647.13	-1153.87	-221.11	94.00	1.84	0.59	-5.56
	3786.00	18.84	318.97	131.1	266.38	-240.10	3737.11	-1063.89	-242.55	95.00	0.83	0.26	-2.45
	3881.00	18.69	314.61	131.1	288.64	-261.01	3827.06	-973.94	-262.75	95.00	1.48	-0.16	-4.59
	3976.00	18.59	311.17	136.5	309.30	-283.24	3917.08	-883.92	-281.22	95.00	1.16	-0.11	-3.62
	4165.00	18.56	308.87	328.4	348.01	-329.34	4096.24	-704.76	-315.41	189.00	0.39	-0.02	-1.22
	4354.00	18.35	316.69	144.6	388.54	-373.17	4275.55	-525.45	-351.62	189.00	1.31	-0.11	4.14
	4449.00	18.59	318.69	144.6	410.79	-393.43	4365.65	-435.35	-371.87	95.00	0.71	0.25	2.11
	4638.00	18.57	318.13	147.3	455.83	-433.40	4544.80	-256.20	-412.94	189.00	0.09	-0.01	-0.30
	4733.00	17.51	319.88	193.3	478.03	-452.71	4635.13	-165.87	-433.22	95.00	1.25	-1.12	1.84
	4828.00	18.48	321.52	204.1	500.74	-471.28	4725.48	-75.52	-454.08	95.00	1.15	1.02	1.73
	4923.00	18.58	322.60	152.7	524.55	-489.85	4815.56	14.56	-476.03	95.00	0.38	0.11	1.14
	5112.00	18.67	323.31	158.1	572.73	-526.21	4994.66	193.66	-520.57	189.00	0.13	0.05	0.38
	5207.00	18.86	321.09	155.4	596.87	-544.94	5084.61	283.61	-542.84	95.00	0.78	0.20	-2.34
	5301.00	18.94	321.22	158.1	620.59	-564.04	5173.54	372.54	-564.64	94.00	0.10	0.09	0.14
	5396.00	18.19	321.54	160.8	644.22	-582.92	5263.60	462.60	-586.39	95.00	0.80	-0.79	0.34
	5491.00	17.97	323.82	163.5	667.66	-600.79	5353.91	552.91	-608.04	95.00	0.78	-0.23	2.40
	5585.00	19.21	318.73	166.2	690.99	-619.55	5443.01	642.01	-629.50	94.00	2.17	1.32	-5.41
	5680.00	19.26	314.14	166.2	713.65	-641.11	5532.71	731.71	-650.02	95.00	1.59	0.05	-4.83
	5775.00	19.26	314.14	166.2	735.47	-663.59	5622.40	821.40	-669.63	95.00	0.00	0.00	0.00
	5869.00	18.48	310.34	168.9	755.91	-686.08	5711.35	910.35	-687.86	94.00	1.55	-0.83	-4.04
	5964.00	18.78	308.66	171.6	775.21	-709.49	5801.37	1000.37	-704.86	95.00	0.65	0.32	-1.77
	6059.00	18.49	308.42	174.3	794.12	-733.24	5891.39	1090.39	-721.46	95.00	0.32	-0.31	-0.25
	6154.00	19.19	305.55	174.3	812.56	-757.74	5981.30	1180.30	-737.50	95.00	1.22	0.74	-3.02
	6249.00	19.28	298.95	174.3	829.23	-784.17	6071.01	1270.01	-751.61	95.00	2.29	0.09	-6.95
	6343.00	13.62	274.14	177.0	837.56	-808.84	6161.23	1360.23	-757.57	94.00	9.47	-6.02	-26.39
	6438.00	12.10	244.24	177.0	834.04	-828.99	6253.95	1452.95	-752.16	95.00	7.10	-1.60	-31.47
	6533.00	14.26	228.54	179.7	821.96	-846.73	6346.47	1545.47	-738.47	95.00	4.38	2.27	-16.53
	6627.00	18.54	245.24	182.5	821.57	-842.57	6438.48	1635.48	-719.48	94.00	8.23	5.57	-18.78

	6627.00	19.51	215.64	182.5	801.52	-864.57	6436.42	1635.42	-716.43	94.00	6.83	5.59	-13.72
	6722.00	27.83	202.05	185.2	767.99	-882.19	6523.41	1722.41	-681.39	95.00	10.42	8.76	-14.31
	6817.00	36.23	192.02	187.9	719.86	-896.39	6603.94	1802.94	-632.13	95.00	10.44	8.84	-10.56
	6912.00	45.53	187.17	187.9	658.61	-906.49	6675.70	1874.70	-570.22	95.00	10.34	9.79	-5.11
	7007.00	53.39	187.88	190.6	587.10	-915.97	6737.40	1936.40	-498.13	95.00	8.29	8.27	0.75
	7101.00	60.03	186.73	193.3	509.21	-925.92	6788.97	1987.97	-419.64	94.00	7.14	7.06	-1.22
	7196.00	70.28	183.22	193.3	423.45	-933.28	6828.84	2027.84	-333.57	95.00	11.30	10.79	-3.69
	7291.00	80.72	182.45	196.0	331.71	-937.81	6852.60	2051.60	-241.82	95.00	11.02	10.99	-0.81
	7386.00	89.78	182.49	201.4	237.23	-941.88	6860.45	2059.45	-147.37	95.00	9.54	9.54	0.04
	7480.00	89.82	182.80	201.4	143.33	-946.22	6860.78	2059.78	-53.48	94.00	0.33	0.04	0.33
	7575.00	89.75	182.54	204.1	48.43	-950.65	6861.14	2060.14	41.41	95.00	0.28	-0.07	-0.27
	7670.00	89.85	182.20	206.8	-46.49	-954.57	6861.47	2060.47	136.28	95.00	0.37	0.11	-0.36
	7764.00	89.75	181.71	209.5	-140.43	-957.78	6861.80	2060.80	230.11	94.00	0.53	-0.11	-0.52
	7859.00	89.82	181.71	212.2	-235.39	-960.62	6862.15	2061.15	324.91	95.00	0.07	0.07	0.00
	7954.00	89.82	182.86	214.9	-330.31	-964.40	6862.45	2061.45	419.77	95.00	1.21	0.00	1.21
	8048.00	89.85	183.99	214.9	-424.14	-970.02	6862.72	2061.72	513.71	94.00	1.20	0.03	1.20
	8143.00	90.18	184.78	214.9	-518.86	-977.28	6862.70	2061.70	608.69	95.00	0.90	0.35	0.83
	8238.00	90.09	184.76	217.6	-613.53	-985.18	6862.48	2061.48	703.69	95.00	0.10	-0.09	-0.02
	8333.00	90.06	184.13	220.3	-708.25	-992.54	6862.35	2061.35	798.67	95.00	0.66	-0.03	-0.66
	8427.00	90.09	183.13	220.3	-802.06	-998.50	6862.23	2061.23	892.63	94.00	1.06	0.03	-1.06
	8522.00	90.06	181.85	220.3	-896.97	-1002.62	6862.10	2061.10	987.50	95.00	1.35	-0.03	-1.35
	8617.00	90.06	180.05	223.0	-991.95	-1004.20	6862.00	2061.00	1082.21	95.00	1.89	0.00	-1.89
	8711.00	90.06	177.31	225.7	-1085.91	-1002.03	6861.91	2060.91	1175.55	94.00	2.91	0.00	-2.91
	8806.00	90.06	176.58	228.4	-1180.78	-996.97	6861.81	2060.81	1269.52	95.00	0.77	0.00	-0.77
	8901.00	90.15	178.03	228.4	-1275.67	-992.50	6861.63	2060.63	1363.56	95.00	1.53	0.09	1.53
	8995.00	90.09	177.70	231.1	-1369.61	-989.00	6861.44	2060.44	1456.75	94.00	0.36	-0.06	-0.35
	9090.00	90.09	176.23	231.1	-1464.47	-983.97	6861.29	2060.29	1550.72	95.00	1.55	0.00	-1.55
	9184.00	90.06	177.49	231.1	-1558.33	-978.82	6861.16	2060.16	1643.67	94.00	1.34	-0.03	1.34
	9279.00	90.15	178.42	233.8	-1653.27	-975.43	6860.99	2059.99	1737.87	95.00	0.98	0.09	0.98
	9374.00	90.03	177.57	233.8	-1748.21	-972.11	6860.84	2059.84	1832.07	95.00	0.90	-0.13	-0.89
	9469.00	90.12	177.41	233.8	-1843.11	-967.95	6860.72	2059.72	1926.16	95.00	0.19	0.09	-0.17
	9563.00	90.12	178.52	233.8	-1937.05	-964.61	6860.52	2059.52	2019.37	94.00	1.18	0.00	1.18
	9658.00	90.18	179.44	236.5	-2032.04	-962.92	6860.27	2059.27	2113.77	95.00	0.97	0.06	0.97
	9753.00	90.09	179.65	239.2	-2127.03	-962.17	6860.05	2059.05	2208.27	95.00	0.24	-0.09	0.22
	9847.00	90.12	181.29	233.8	-2221.03	-962.94	6859.87	2058.87	2301.92	94.00	1.74	0.03	1.74
	9942.00	89.91	182.17	236.5	-2315.98	-965.80	6859.85	2058.85	2396.72	95.00	0.95	-0.22	0.93
	10037.00	89.91	180.46	239.2	-2410.95	-967.98	6860.00	2059.00	2491.48	95.00	1.80	0.00	-1.80
	10131.00	89.75	179.49	241.9	-2504.95	-967.94	6860.28	2059.28	2585.05	94.00	1.05	-0.17	-1.03
	10226.00	89.82	178.73	241.9	-2599.94	-966.47	6860.63	2059.63	2679.48	95.00	0.80	0.07	-0.80
	10321.00	89.85	177.05	244.6	-2694.87	-962.97	6860.91	2059.91	2773.66	95.00	1.77	0.03	-1.77
	10416.00	89.94	175.14	244.6	-2789.65	-956.50	6861.08	2060.08	2867.40	95.00	2.01	0.09	-2.01
	10510.00	89.94	175.05	244.6	-2883.30	-948.46	6861.18	2060.18	2959.88	94.00	0.10	0.00	-0.10
	10605.00	90.00	174.16	244.6	-2977.88	-939.53	6861.23	2060.23	3053.20	95.00	0.94	0.06	-0.94
	10700.00	89.94	176.23	244.6	-3072.54	-931.57	6861.28	2060.28	3146.69	95.00	2.18	-0.06	2.18
	10794.00	89.97	177.50	244.6	-3166.40	-926.43	6861.35	2060.35	3239.64	94.00	1.35	0.03	1.35
	10889.00	90.03	179.23	247.3	-3261.36	-923.72	6861.35	2060.35	3333.92	95.00	1.82	0.06	1.82
	10984.00	90.00	181.30	250.0	-3356.35	-924.16	6861.33	2060.33	3428.53	95.00	2.18	-0.03	2.18
	11078.00	90.03	182.60	250.0	-3450.29	-927.36	6861.30	2060.30	3522.36	94.00	1.38	0.03	1.38
	11173.00	89.97	182.48	250.0	-3545.20	-931.57	6861.30	2060.30	3617.24	95.00	0.14	-0.06	-0.13
	11267.00	90.00	183.25	250.0	-3639.08	-936.27	6861.33	2060.33	3711.15	94.00	0.82	0.03	0.82
	11362.00	90.03	183.18	252.7	-3733.93	-941.60	6861.30	2060.30	3806.08	95.00	0.08	0.03	-0.07
	11457.00	89.94	185.01	252.7	-3828.69	-948.38	6861.33	2060.33	3901.05	95.00	1.93	-0.09	1.93
	11551.00	89.97	184.24	252.7	-3922.38	-955.96	6861.40	2060.40	3995.04	94.00	0.82	0.03	-0.82
	11646.00	90.03	180.36	252.7	-4017.28	-959.77	6861.40	2060.40	4089.88	95.00	4.08	0.06	-4.08
	11741.00	90.06	178.72	255.4	-4112.28	-959.01	6861.33	2060.33	4184.38	95.00	1.73	0.03	-1.73
	11836.00	89.91	180.48	252.7	-4207.27	-958.35	6861.35	2060.35	4278.89	95.00	1.86	-0.16	1.85
	11931.00	90.00	181.67	255.4	-4302.25	-960.13	6861.43	2060.43	4373.61	95.00	1.26	0.09	1.25
	12025.00	90.00	184.35	255.4	-4396.12	-965.06	6861.43	2060.43	4467.52	94.00	2.85	0.00	2.85
	12120.00	90.00	183.70	255.4	-4490.88	-971.73	6861.43	2060.43	4562.49	95.00	0.68	0.00	-0.68
	12214.00	90.00	183.59	258.1	-4584.69	-977.71	6861.43	2060.43	4656.45	94.00	0.12	0.00	-0.12
	12309.00	90.03	182.77	260.8	-4679.54	-982.98	6861.40	2060.40	4751.38	95.00	0.86	0.03	-0.86
	12404.00	90.03	182.38	260.8	-4774.45	-987.25	6861.35	2060.35	4846.26	95.00	0.41	0.00	-0.41
	12499.00	90.00	182.39	260.8	-4869.37	-991.20	6861.33	2060.33	4941.13	95.00	0.03	-0.03	0.01

	12593.00	90.06	182.18	260.8	-4963.29	-994.95	6861.28	2060.28	5034.99	94.00	0.23	0.06	-0.22
	12688.00	89.97	180.42	260.8	-5058.26	-997.10	6861.25	2060.25	5129.74	95.00	1.86	-0.09	-1.85
	12783.00	89.97	178.93	260.8	-5153.26	-996.56	6861.30	2060.30	5224.26	95.00	1.57	0.00	-1.57
	12877.00	89.97	178.17	263.5	-5247.23	-994.19	6861.35	2060.35	5317.59	94.00	0.81	0.00	-0.81
	12972.00	89.94	178.81	260.8	-5342.19	-991.68	6861.43	2060.43	5411.89	95.00	0.67	-0.03	0.67
	13067.00	89.97	178.72	263.5	-5437.17	-989.63	6861.50	2060.50	5506.26	95.00	0.10	0.03	-0.09
	13161.00	90.00	178.13	263.5	-5531.14	-987.05	6861.53	2060.53	5599.56	94.00	0.63	0.03	-0.63
	13256.00	90.03	178.35	263.5	-5626.09	-984.13	6861.50	2060.50	5693.82	95.00	0.23	0.03	0.23
	13351.00	89.82	178.79	263.5	-5721.06	-981.76	6861.63	2060.63	5788.14	95.00	0.51	-0.22	0.46
	13446.00	90.09	177.83	263.5	-5816.02	-978.96	6861.70	2060.70	5882.41	95.00	1.05	0.28	-1.01
	13540.00	89.48	178.77	263.5	-5909.97	-976.17	6862.05	2061.05	5975.68	94.00	1.19	-0.65	1.00
	13730.00	89.51	181.66	263.5	-6099.95	-976.89	6863.73	2062.73	6164.88	190.00	1.52	0.02	1.52
	13825.00	89.45	182.13	263.5	-6194.89	-980.03	6864.59	2063.59	6259.69	95.00	0.50	-0.06	0.49
	13920.00	89.45	182.62	263.5	-6289.80	-983.96	6865.50	2064.50	6354.56	95.00	0.52	0.00	0.52
	14014.00	89.54	180.96	263.5	-6383.75	-986.90	6866.33	2065.33	6448.36	94.00	1.77	0.10	-1.77
	14109.00	89.54	180.85	266.2	-6478.74	-988.40	6867.09	2066.09	6543.06	95.00	0.12	0.00	-0.12
	14204.00	89.51	180.44	266.2	-6573.73	-989.47	6867.88	2066.88	6637.73	95.00	0.43	-0.03	-0.43
	14299.00	89.51	179.72	266.2	-6668.72	-989.60	6868.69	2067.69	6732.32	95.00	0.76	0.00	-0.76
	14394.00	89.51	178.92	266.2	-6763.71	-988.47	6869.51	2068.51	6826.78	95.00	0.84	0.00	-0.84
	14489.00	89.57	178.55	266.2	-6858.68	-986.38	6870.27	2069.27	6921.13	95.00	0.39	0.06	-0.39
	14583.00	89.48	179.59	266.2	-6952.67	-984.85	6871.05	2070.05	7014.55	94.00	1.11	-0.10	1.11
	14678.00	89.60	179.05	269.0	-7047.66	-983.72	6871.81	2070.81	7109.01	95.00	0.58	0.13	-0.57
	14772.00	89.51	179.27	266.2	-7141.64	-982.35	6872.54	2071.54	7202.45	94.00	0.25	-0.10	0.23
	14867.00	89.48	179.72	269.0	-7236.64	-981.51	6873.38	2072.38	7296.94	95.00	0.47	-0.03	0.47
	14962.00	89.48	179.71	269.0	-7331.63	-981.04	6874.24	2073.24	7391.47	95.00	0.01	0.00	-0.01
	15057.00	89.54	180.20	269.0	-7426.63	-980.96	6875.05	2074.05	7486.03	95.00	0.52	0.06	0.52
	15151.00	89.54	180.21	269.0	-7520.62	-981.30	6875.81	2074.81	7579.64	94.00	0.01	0.00	0.01
	15246.00	89.72	179.82	269.0	-7615.62	-981.32	6876.42	2075.42	7674.22	95.00	0.45	0.19	-0.41
	15435.00	89.60	180.04	269.0	-7804.62	-981.09	6877.54	2076.54	7862.35	189.00	0.13	-0.06	0.12
	15624.00	89.38	178.32	312.2	-7993.58	-978.39	6879.22	2078.22	8050.22	189.00	0.92	-0.12	-0.91
	15719.00	89.97	178.16	258.1	-8088.54	-975.47	6879.76	2078.76	8144.48	95.00	0.64	0.62	-0.17
	15814.00	90.06	177.19	258.1	-8183.46	-971.62	6879.74	2078.74	8238.61	95.00	1.03	0.09	-1.02
	15908.00	90.06	176.64	260.8	-8277.32	-966.56	6879.64	2078.64	8331.58	94.00	0.59	0.00	-0.59
	16098.00	90.00	177.82	260.8	-8467.10	-957.37	6879.54	2078.54	8519.64	190.00	0.62	-0.03	0.62
	16193.00	90.06	177.26	263.5	-8562.01	-953.30	6879.49	2078.49	8613.75	95.00	0.59	0.06	-0.59
	16288.00	89.88	176.74	263.5	-8656.88	-948.33	6879.54	2078.54	8707.73	95.00	0.58	-0.19	-0.55
	16382.00	89.85	176.05	263.5	-8750.69	-942.41	6879.76	2078.76	8800.56	94.00	0.73	-0.03	-0.73
	16477.00	89.94	178.14	266.2	-8845.56	-937.60	6879.94	2078.94	8894.56	95.00	2.20	0.09	2.20
	16572.00	89.85	178.86	263.5	-8940.53	-935.11	6880.11	2079.11	8988.87	95.00	0.76	-0.09	0.76
	16667.00	89.97	178.90	266.2	-9035.51	-933.26	6880.26	2079.26	9083.25	95.00	0.13	0.13	0.04
	16762.00	89.91	179.69	266.2	-9130.50	-932.09	6880.36	2079.36	9177.71	95.00	0.83	-0.06	0.83
	16857.00	89.88	180.62	269.0	-9225.50	-932.34	6880.53	2079.53	9272.31	95.00	0.98	-0.03	0.98
	16952.00	89.94	181.64	271.7	-9320.48	-934.22	6880.68	2079.68	9367.04	95.00	1.08	0.06	1.07
	17047.00	89.85	182.47	271.7	-9415.42	-937.62	6880.86	2079.86	9461.88	95.00	0.88	-0.09	0.87
	17141.00	89.97	183.00	271.7	-9509.31	-942.11	6881.00	2080.00	9555.78	94.00	0.58	0.13	0.56
	17236.00	89.75	183.32	271.7	-9604.17	-947.35	6881.24	2080.24	9650.70	95.00	0.41	-0.23	0.34
	17331.00	89.85	183.22	271.7	-9699.01	-952.77	6881.57	2080.57	9745.64	95.00	0.15	0.11	-0.11
	17426.00	90.31	183.26	271.7	-9793.86	-958.14	6881.43	2080.43	9840.57	95.00	0.49	0.48	0.04
	17520.00	91.05	184.35	271.7	-9887.64	-964.37	6880.32	2079.32	9934.52	94.00	1.40	0.79	1.16
	17615.00	90.65	185.62	271.7	-9982.27	-972.63	6878.91	2077.91	10029.51	95.00	1.40	-0.42	1.34
	17710.00	90.40	187.05	274.4	-10076.69	-983.11	6878.04	2077.04	10124.49	95.00	1.53	-0.26	1.51
	17861.00	90.89	188.24	269.0	-10226.33	-1003.19	6876.34	2075.34	10275.36	151.00	0.85	0.32	0.79
Projection	17885.00	90.89	188.24	N/A	-10250.08	-1006.63	6875.97	2074.97	10299.33	24.00	0.00	0.00	0.00