



LWD MEMORY LOG

Gamma Ray

Scale: Company: Noble Energy

1:240 Well: Reveille A34-778

True Vertical Depth Field: Wattenberg

Depth Reference: County: Weld Country: United States

Driller's Depth State: Colorado

Status: Surface Location: 40° 26' 13.236" N Other Services:

Final Print Latitude: 104° 32' 25.188" W Directional

API No: 05-123-50791-00 SEC: 34 TWN: 6N RGE: 64W

Job ID: 110727933 Permanent Datum (P.D.): Mean Sea Level Elevation: 0.00 ft Elev. KB: N/A

Log Measured From: Rig Floor Above P.D.: 4661.00 ft Elev. DF: 4661.00 ft Elev. GL: 4631.00 ft

Dates Interval Magnetic Field Reference

From: 2021-02-11	Drilled (ft)	Logged (ft)	Azi Reference North:	Grid	Dip Angle: (deg)	66.81
To: 2021-02-14	Top: 1938.00	Top: 1938.00	Total Magnetic Field Strength: (nT)			51962
Spud: 2021-02-05	Bottom: 17038.00	Bottom: 17025.00	Mag to Reference North Correction: (deg)			7.12

Borehole Record

Casing Record

Hole Size (in)	From (ft)	To (ft)	Size (in)	Weight (lb/ft)	From (ft)	To (ft)
13.500	30.00	1938.00	9.625	36.00		1928.00
8.500	1938.00	17038.00				

Mud Record

Deviation Record

Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc Az (Start)	Inc Az (End)
Oil Based Mud	1938.00	17038.00	8.500	15100.00	1.17 210.14	90.28 0.65

Acquisition System Software Version

Other

Cadence	RT 5.8	Rig: H&P 517
Plot Studio	5.8.9018.1	Contractor: Helmerich & Payne Drilling Co
		District: RMA
		Unit: D&E

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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	3.00	AutoTrak Curve	1938.00	17025.00	1938.00	17038.00	2021-02-11 22:57	2021-02-14 13:45	48.93

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
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Wellsite	Wellsite	Wellsite	Wellsite	Wellsite	Wellsite	Wellsite	Wellsite	Wellsite
Tien Bui	2021-02-11	2021-02-15						

Mud Properties Record

Date / Time	Run No.	Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2021-02-10 20:00	1	1938.00	Oil Based Mud	9.2	10	N/A	20.0	79.5/20.5	Active Pit	27000	0.00
2021-02-13 06:52	1	11190.00	Oil Based Mud	9.6	13	N/A	19.2	79.4/20.6	Active Pit	25000	0.00

Mud Resistivity Record

Date / Time	Run No.	Depth (ft)	Surface Temp (degF)	Surface			BHCT (degF)	Downhole		
				Rm (ohm.m)	Rmf (ohm.m)	Rmc (ohm.m)		Rm @ BHCT (ohm.m)	Rmf @ BHCT (ohm.m)	Rmc @ BHCT (ohm.m)
2021-02-13 06:53	1	1937.00	62.0	100.000	N/A	N/A	225.0	100.000	N/A	N/A

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	14921839	Near Bit VSS	5.93	6.87	7.000	4.330
1	AutoTrak Curve Steering Unit	14921839	Near Bit Inclination	5.93	6.87	7.000	4.330
1	AutoTrak Curve MWD	14334277	Gamma (single)	2.78	13.04	7.000	3.250
1	AutoTrak Curve MWD	14334277	Directional (mag)	12.27	22.53	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
BCPM	BCPM	Bi-Directional Communication and Power Module, OnTrak Platform

Comments

1	Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
2	Baker Hughes LWD Run 1 utilized 6 ¾ inch NaviGamma service (Gamma Ray and Directional) behind a 8 1/2 inch bit and rotary steerable assembly from 1938 to 17038 feet MD (1938 to 6689 feet TVD).
3	The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request.
4	Several gaps appear in the log due to drilling ahead before the assembly had time to properly power on.

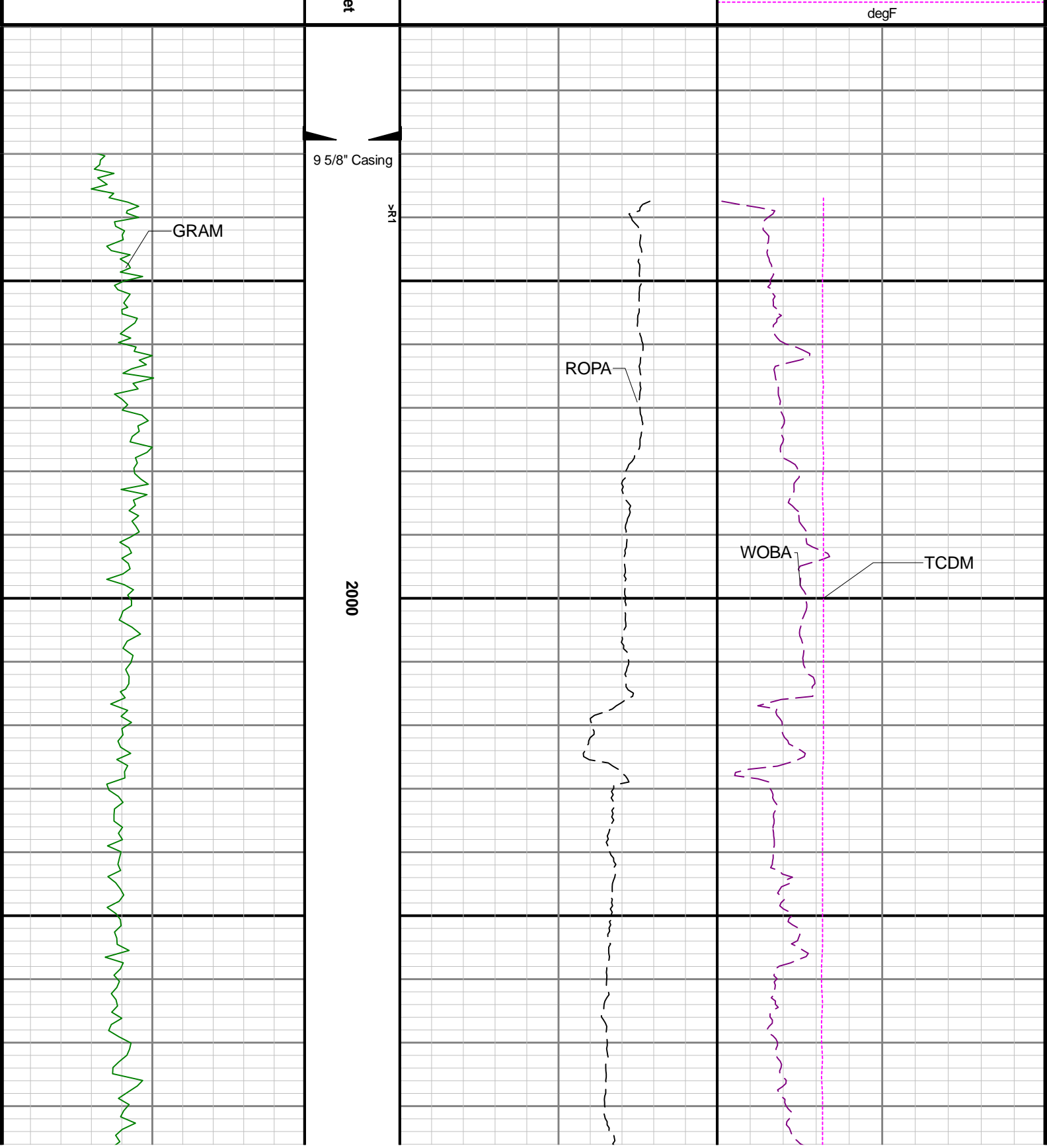
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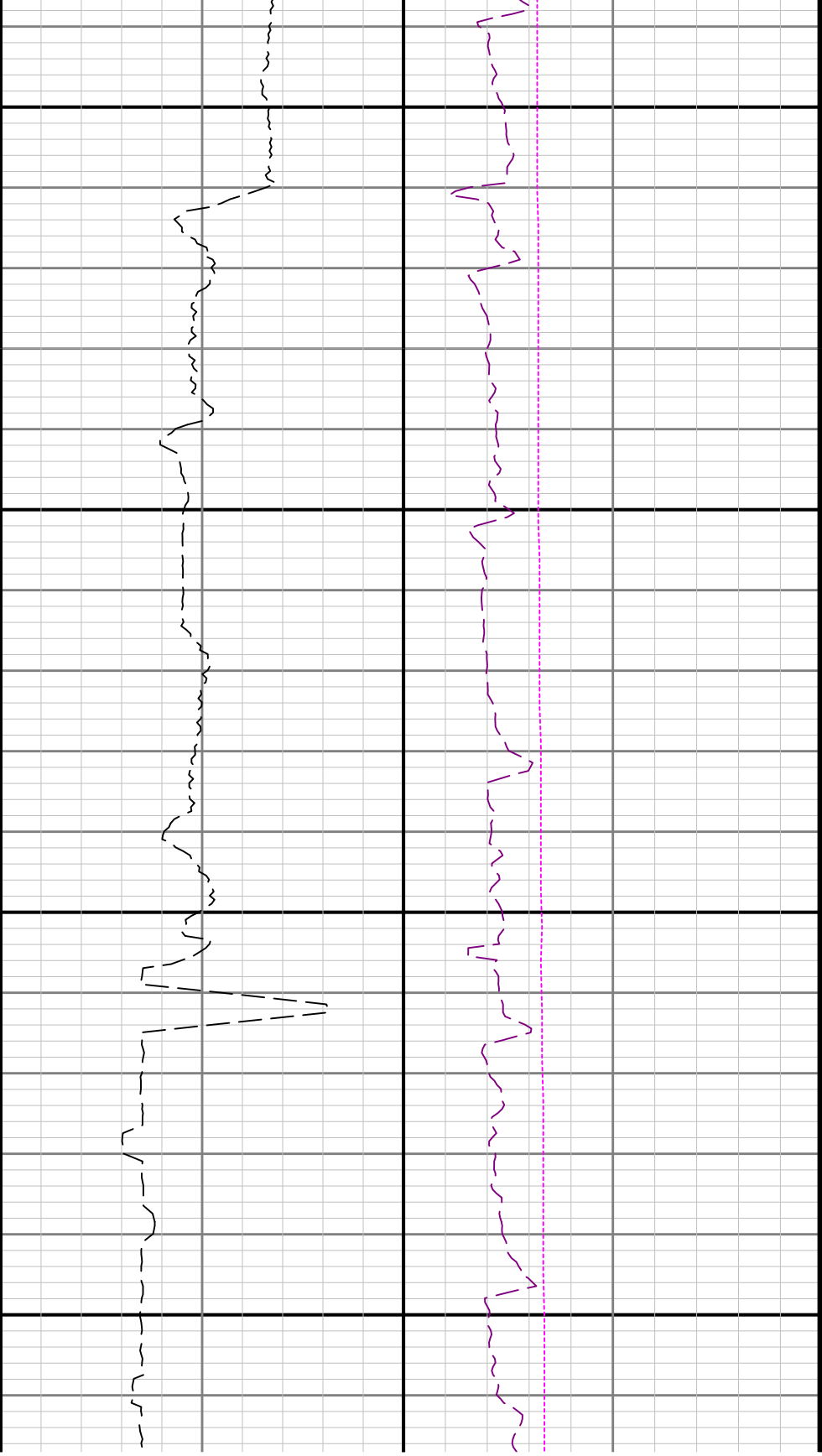
Number	Depth (ft)	Hole Section (in)	Run No.	Remark
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Curve Mnemonics

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

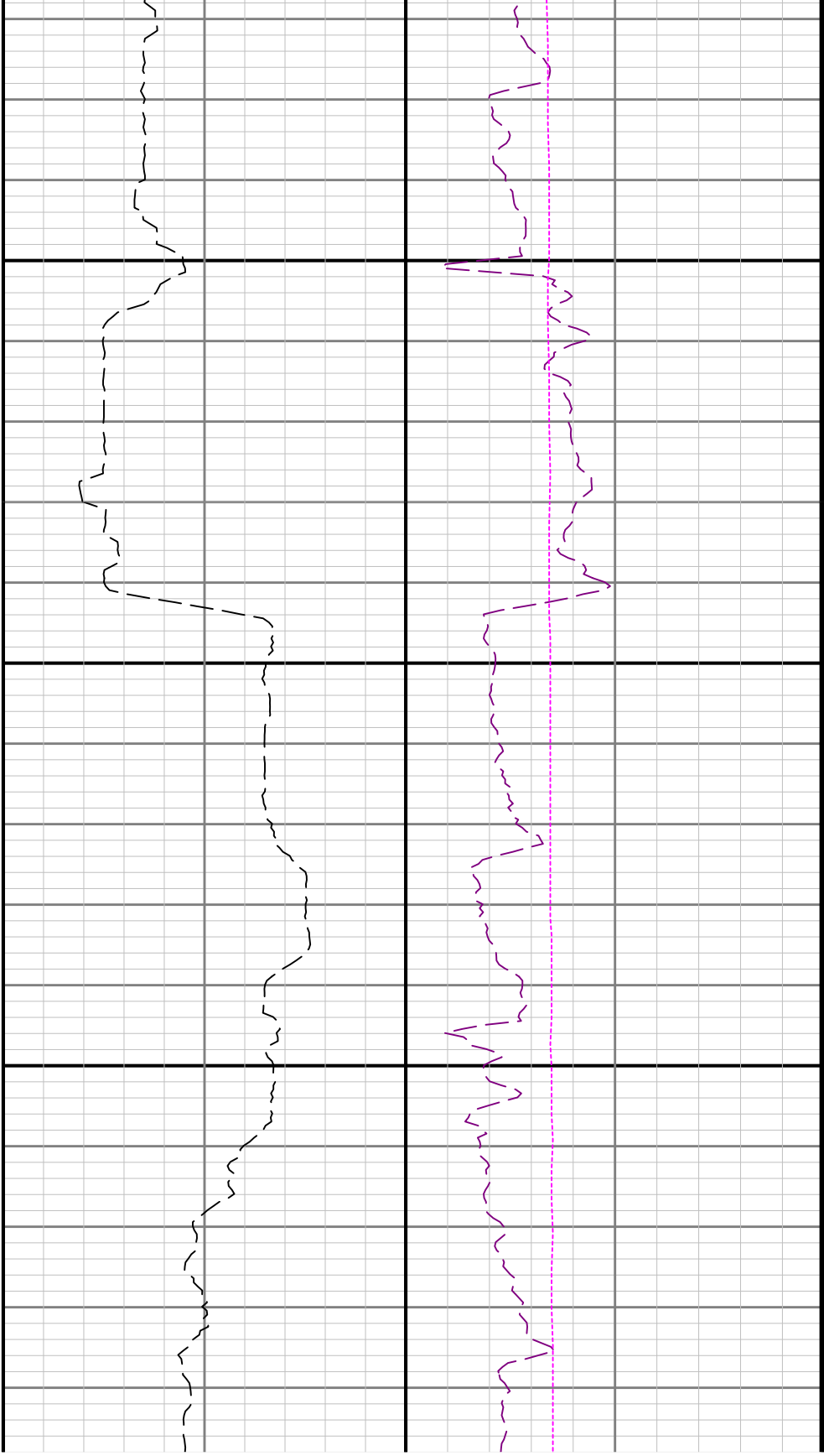
Gamma Ray - Apparent 0.5 ft Average GRAM	TVD 1:240 feet	Depth Averaged ROP 3 ft Average ROPA	Weight On Bit, Average 1 ft Average WOBA
0 300		1000 0	0 50
API		ft/h	klb
			Downhole Temperature TCDM
			0 300





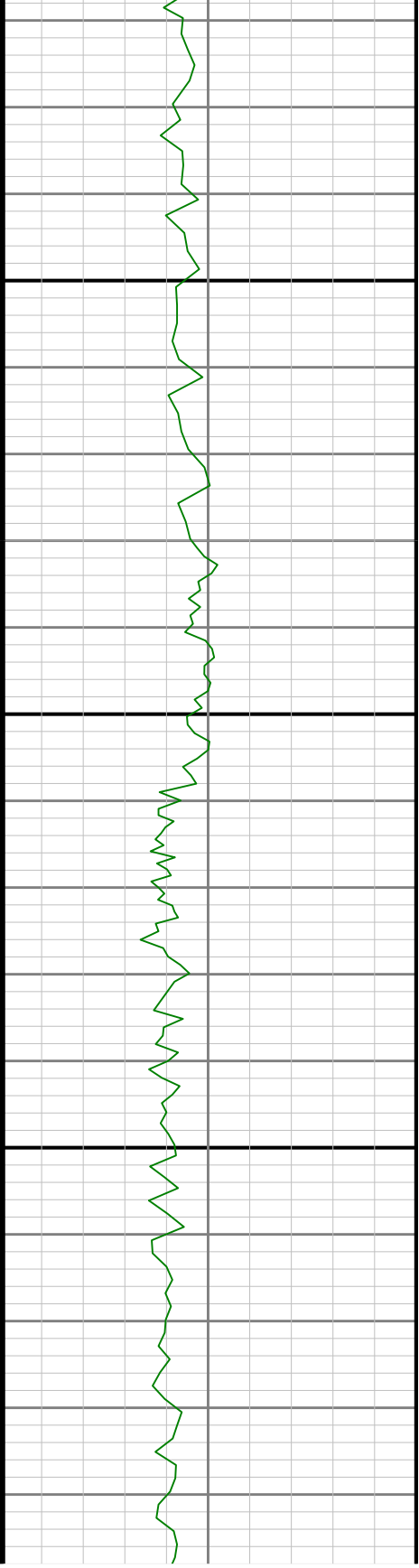
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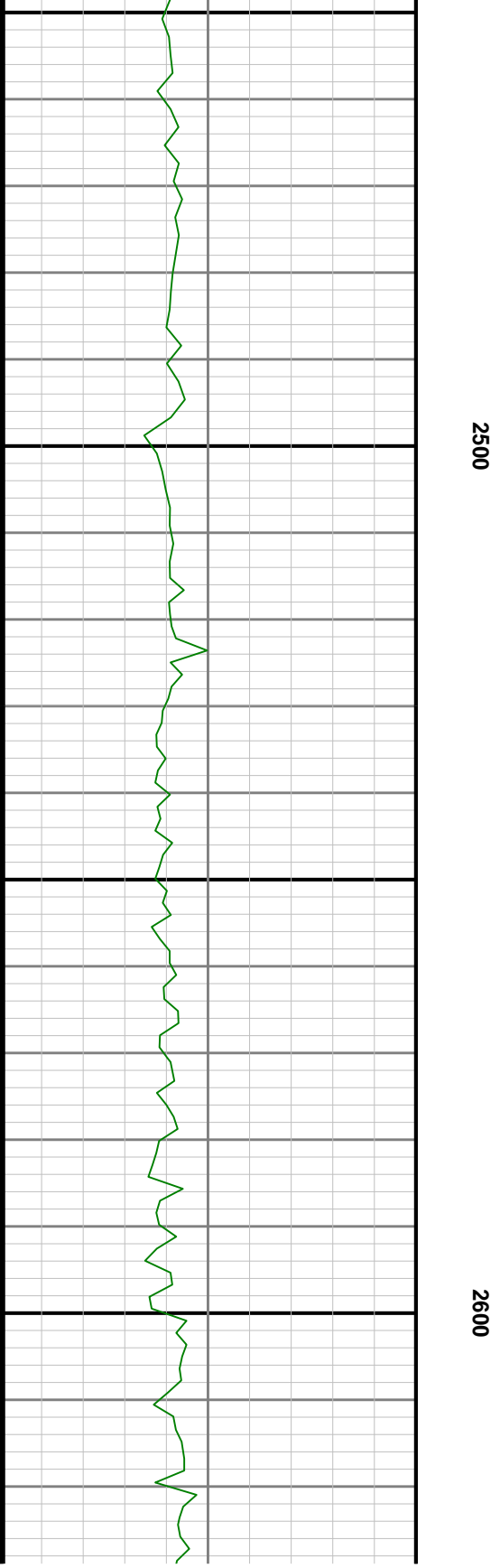
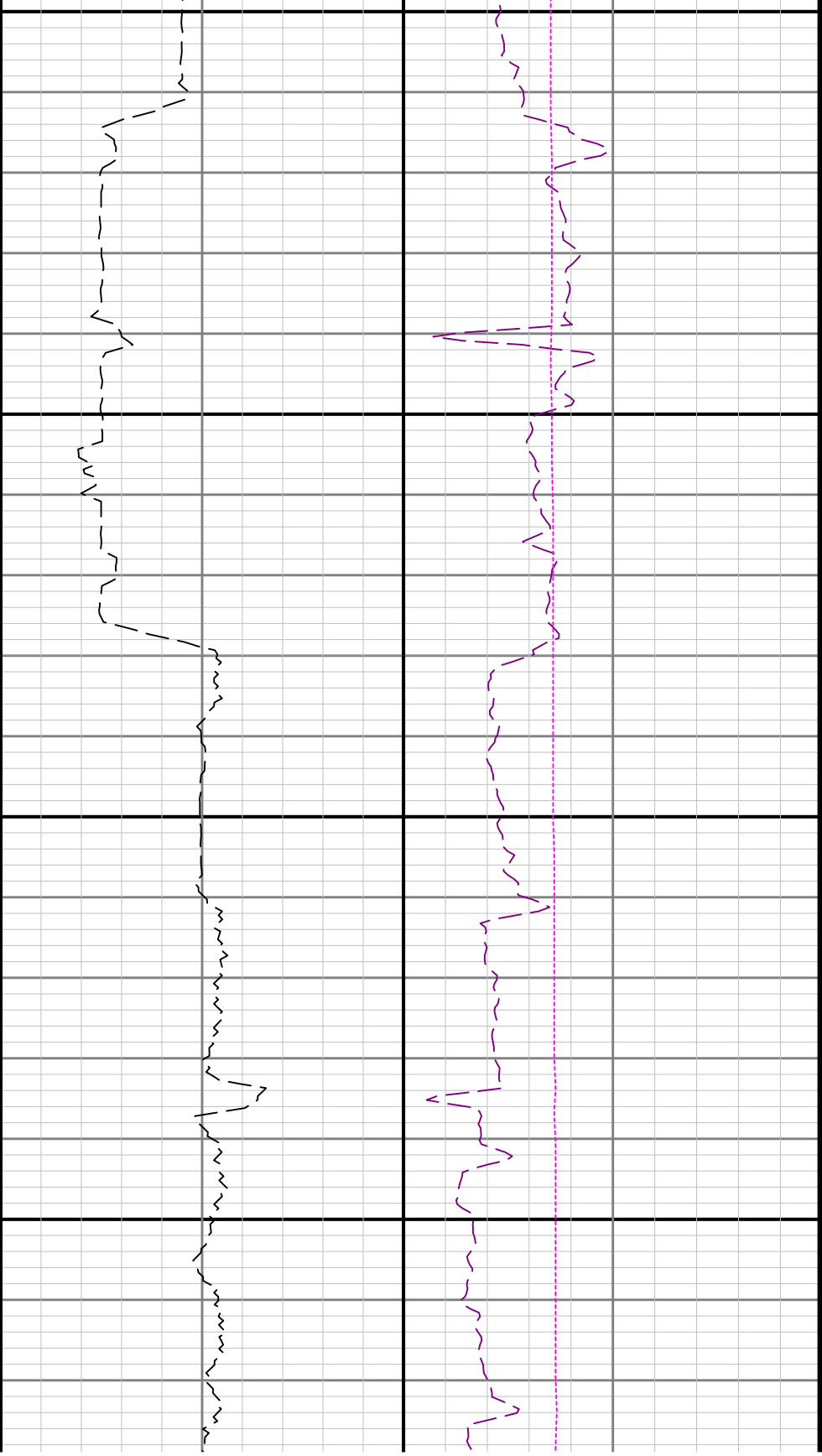
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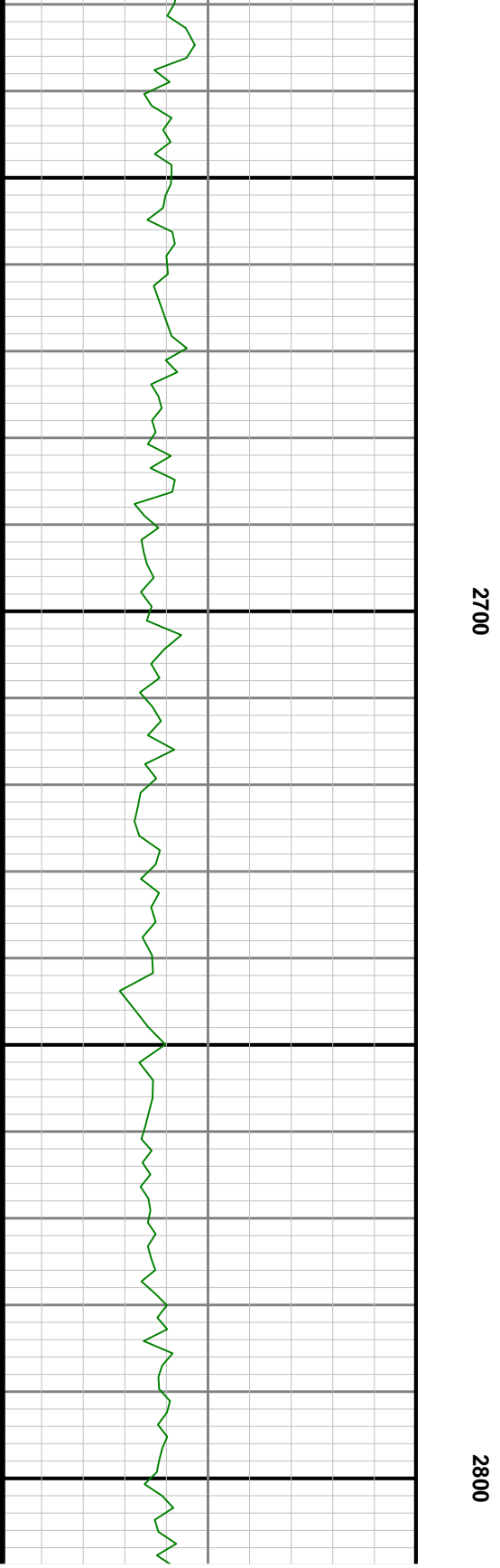
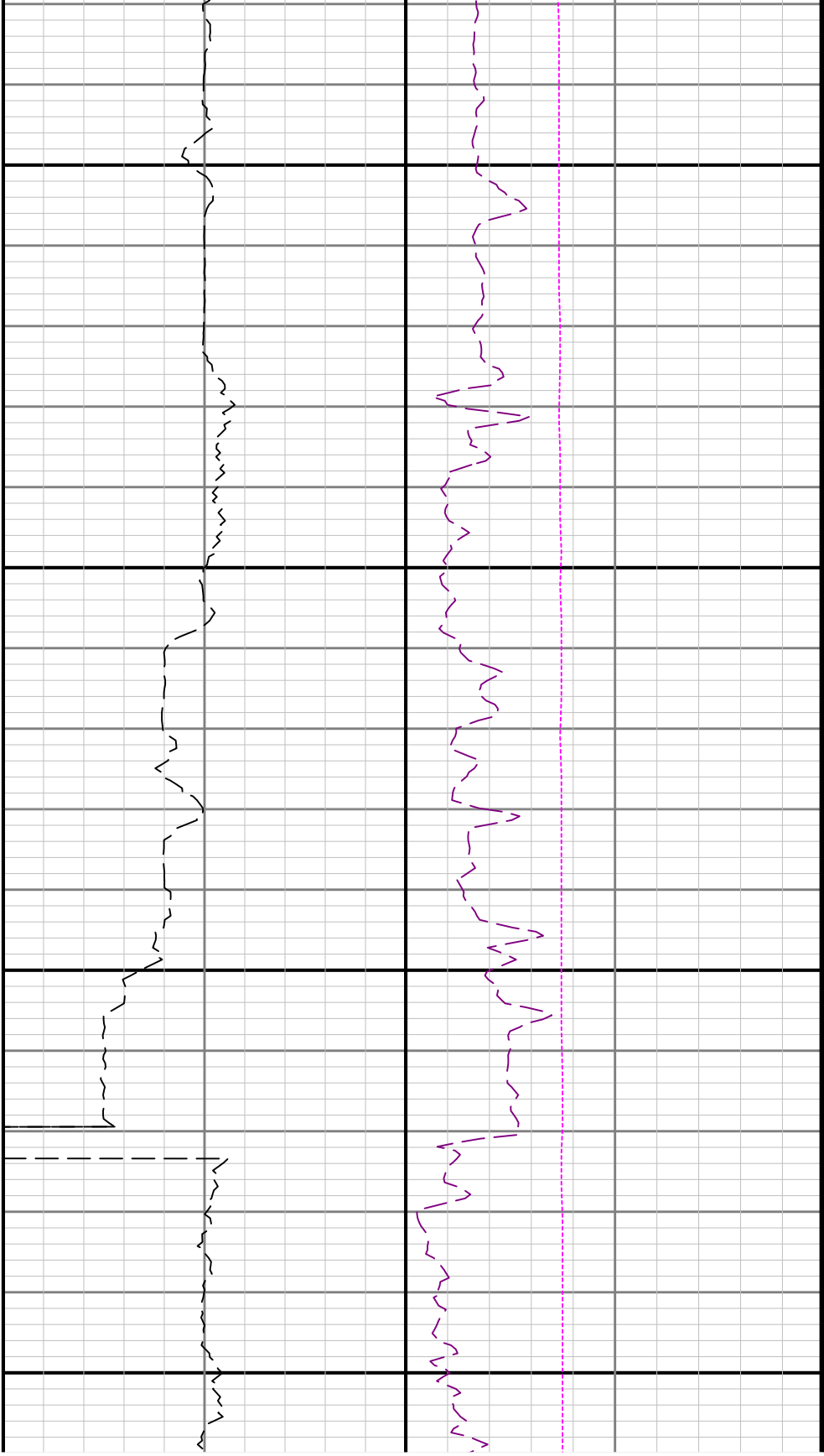


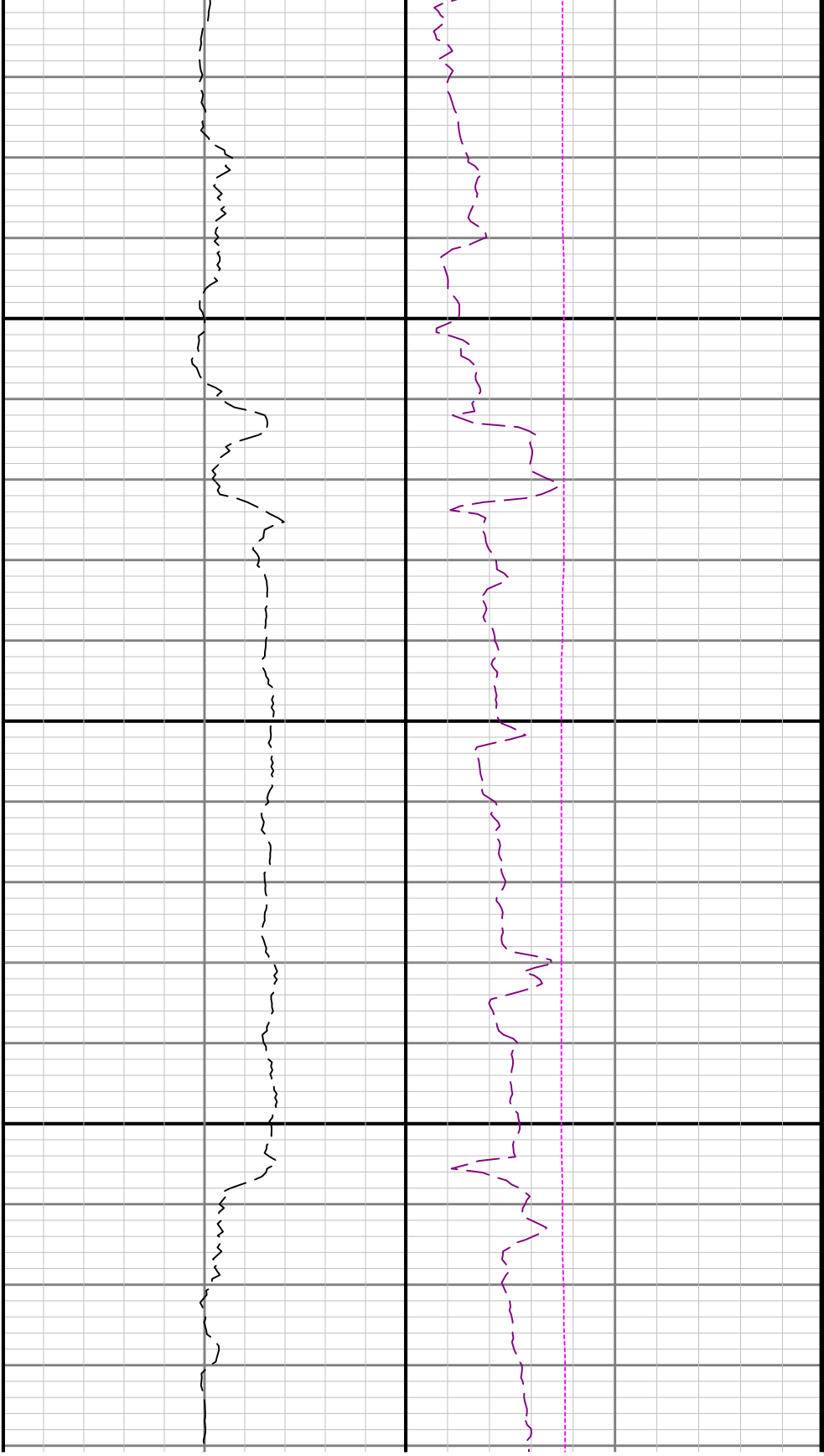
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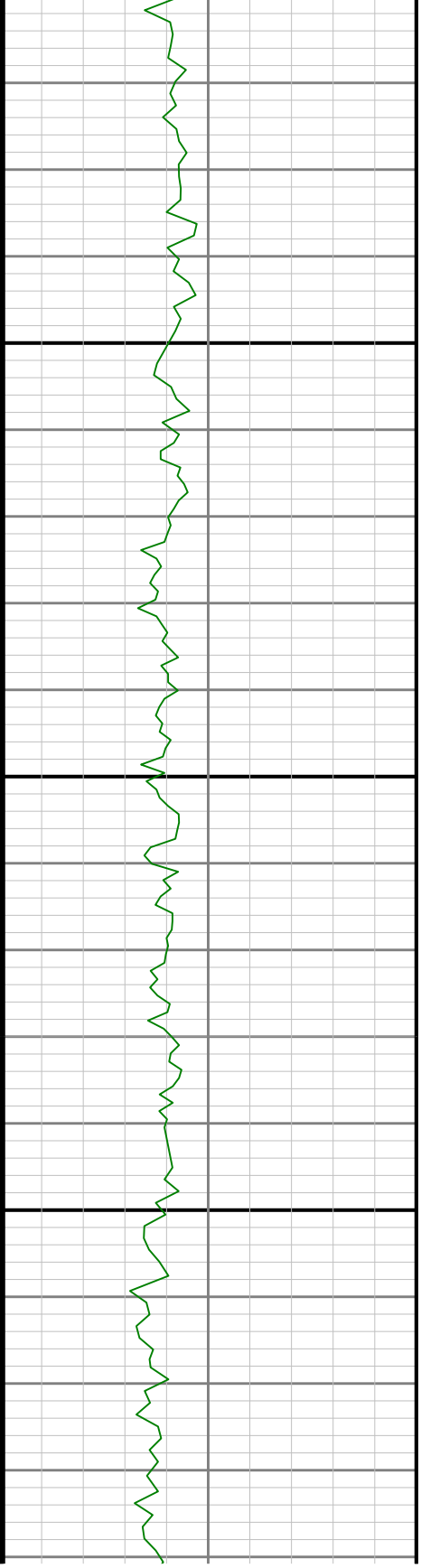


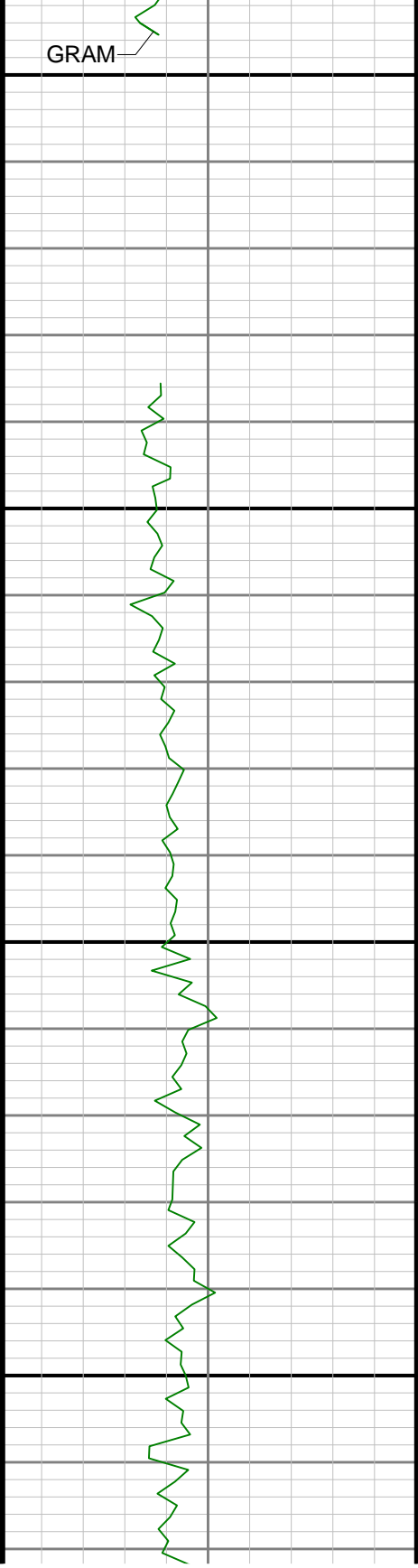






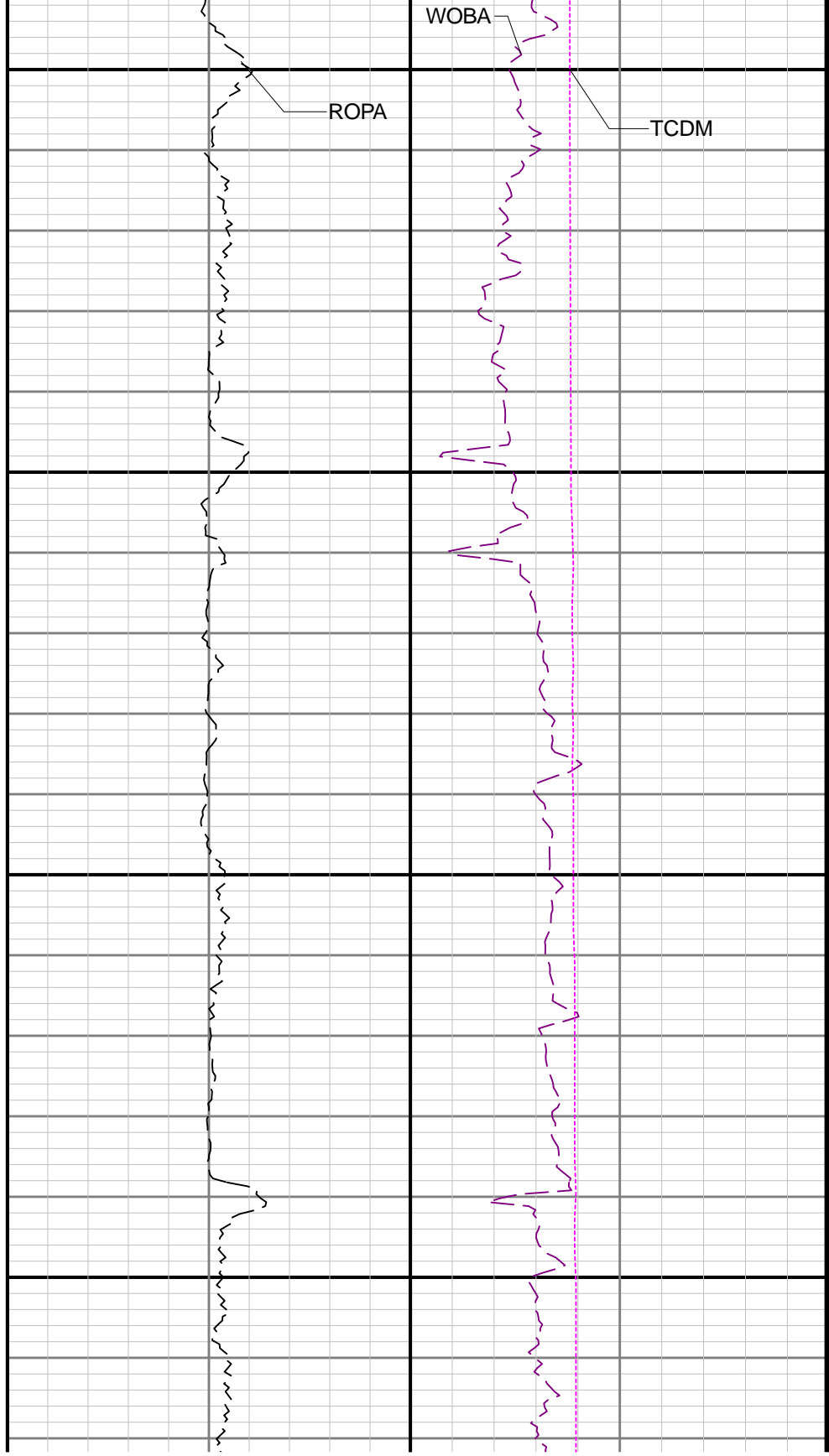
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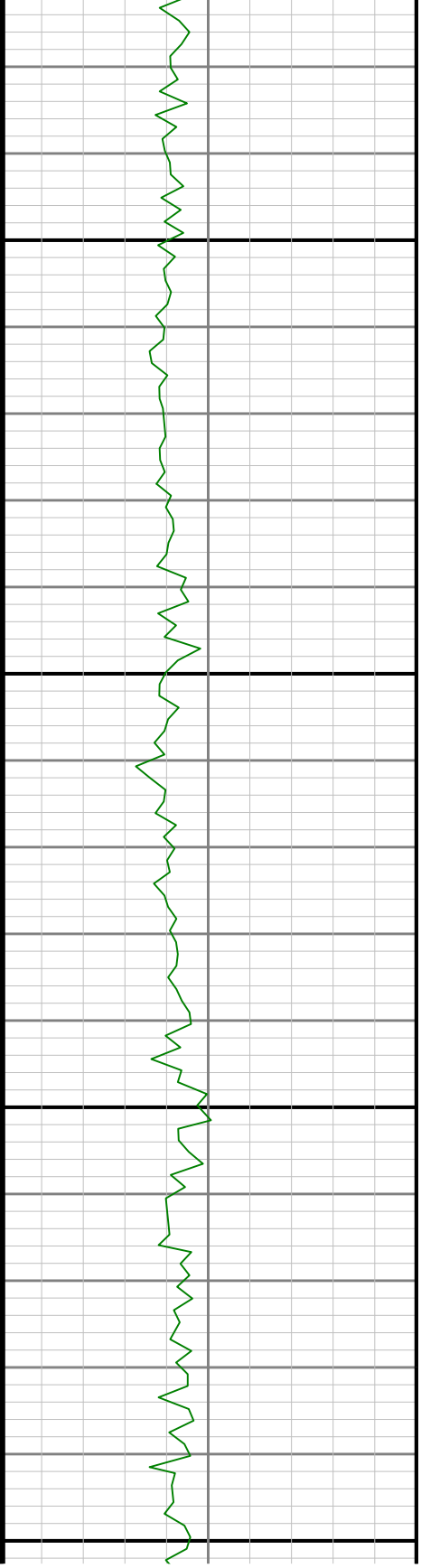
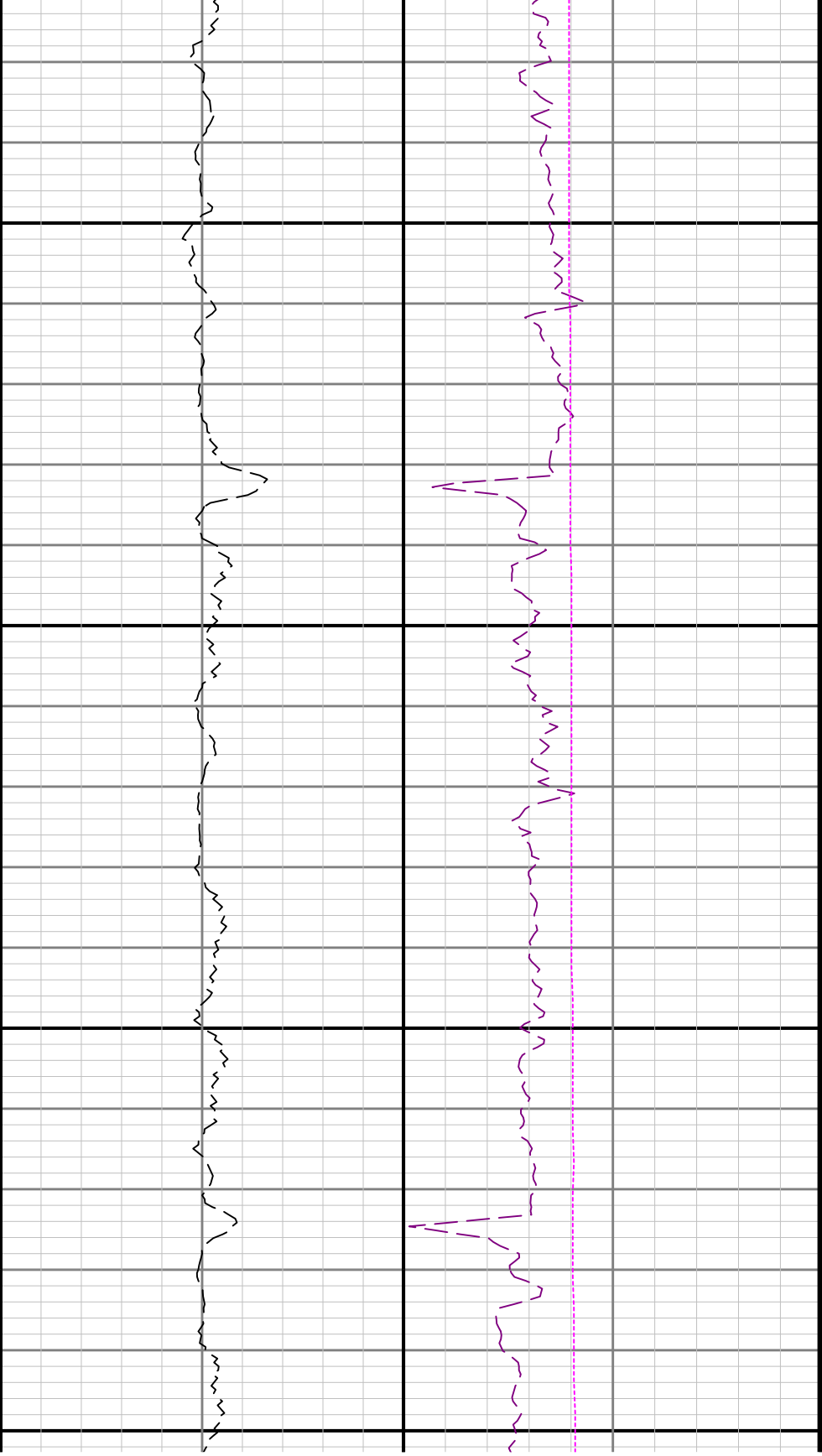


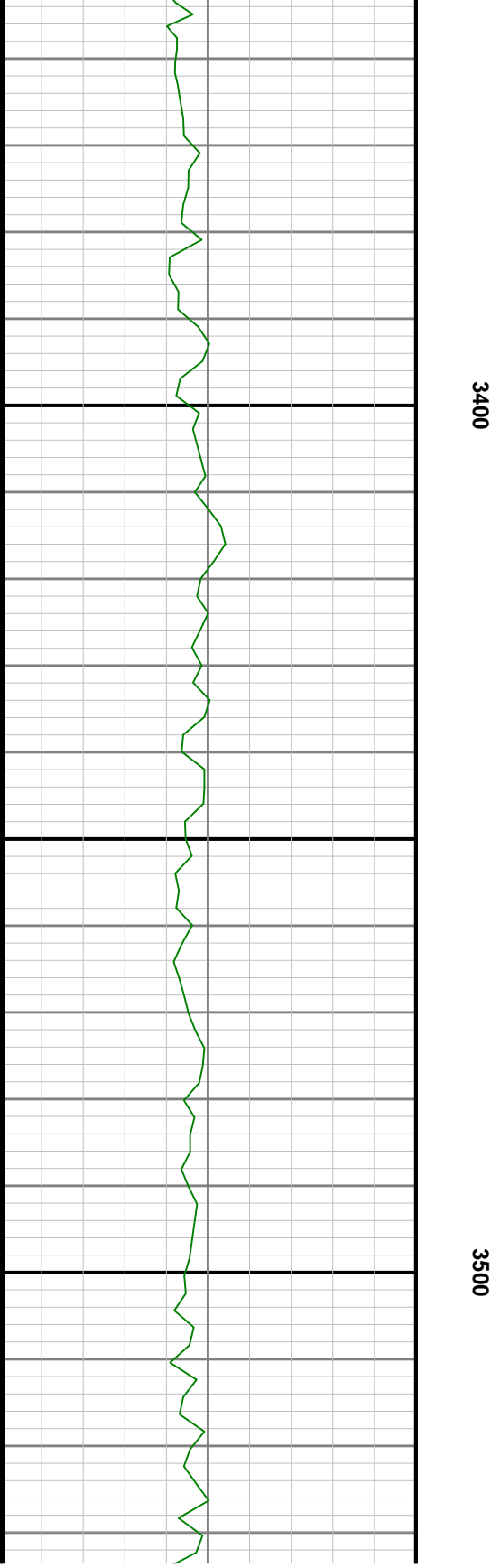
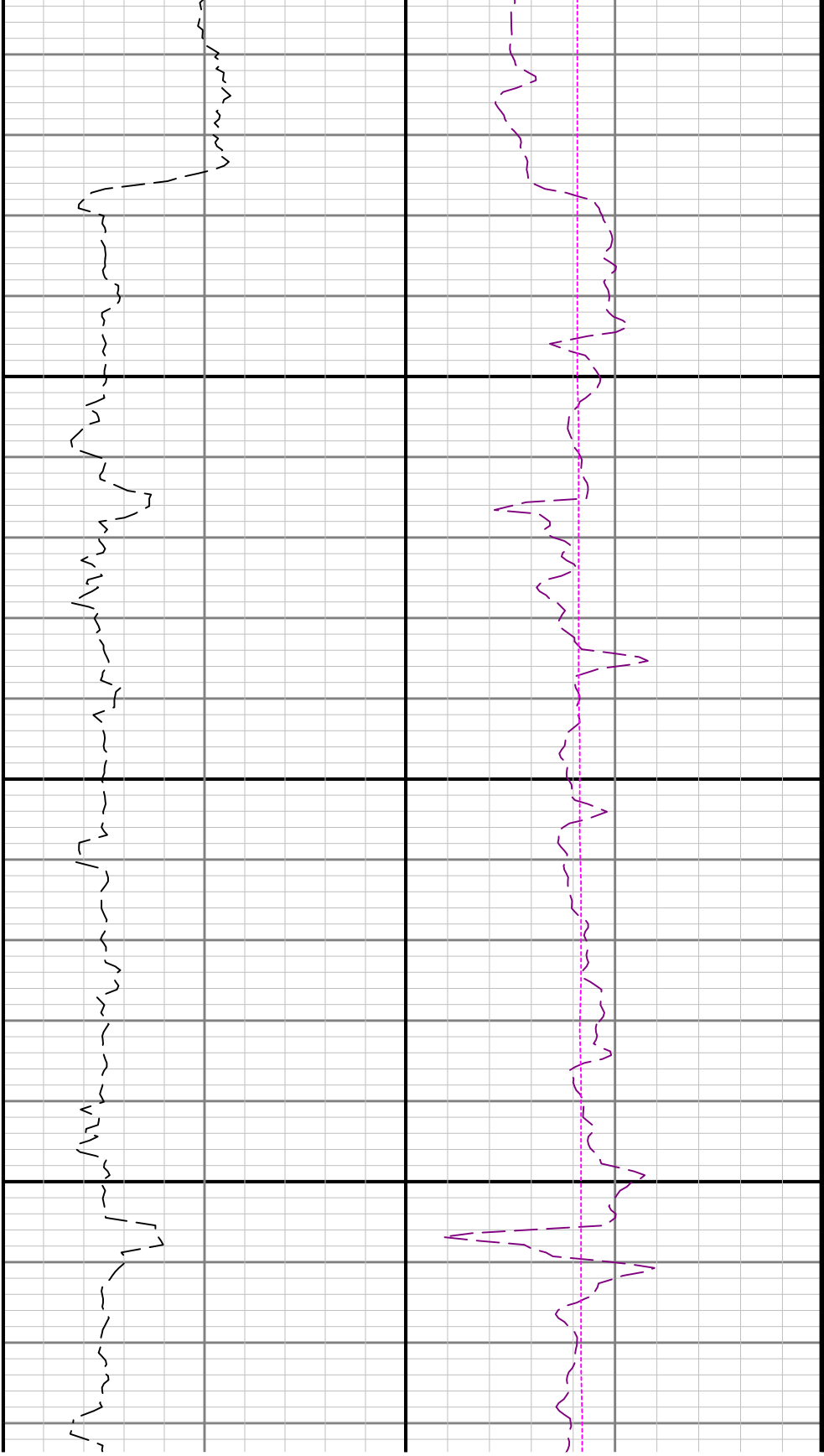


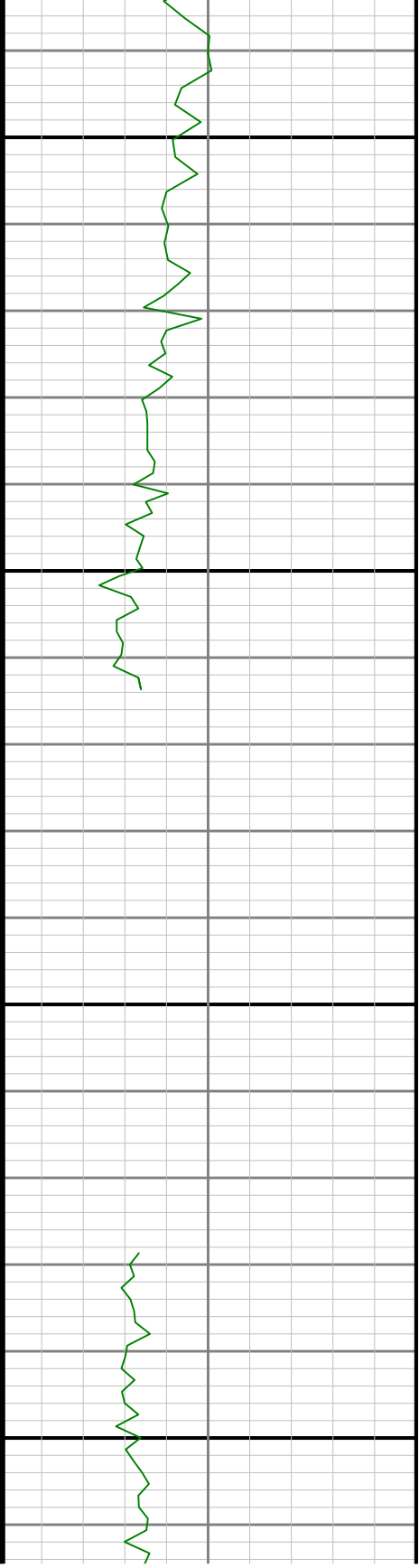
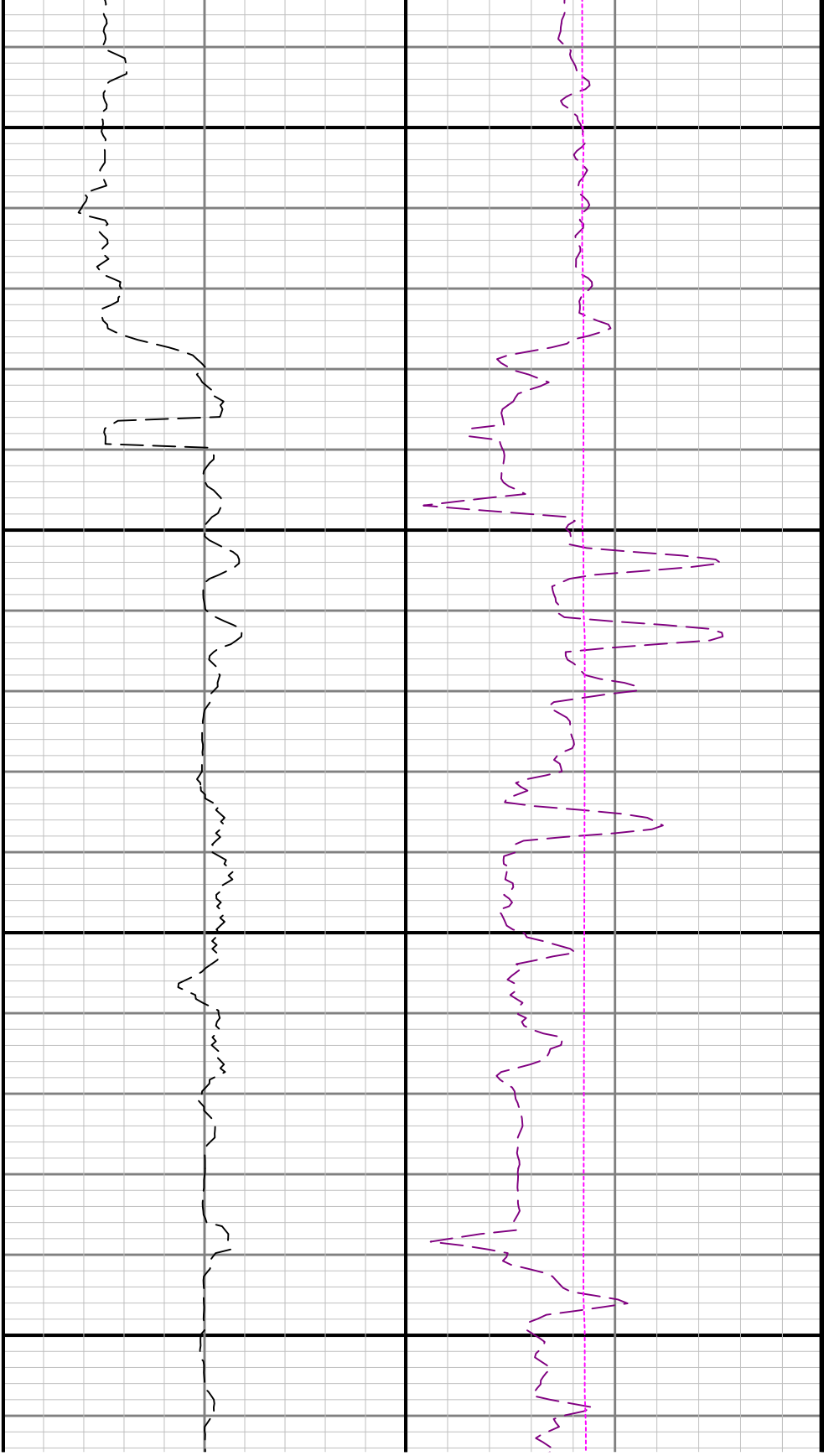
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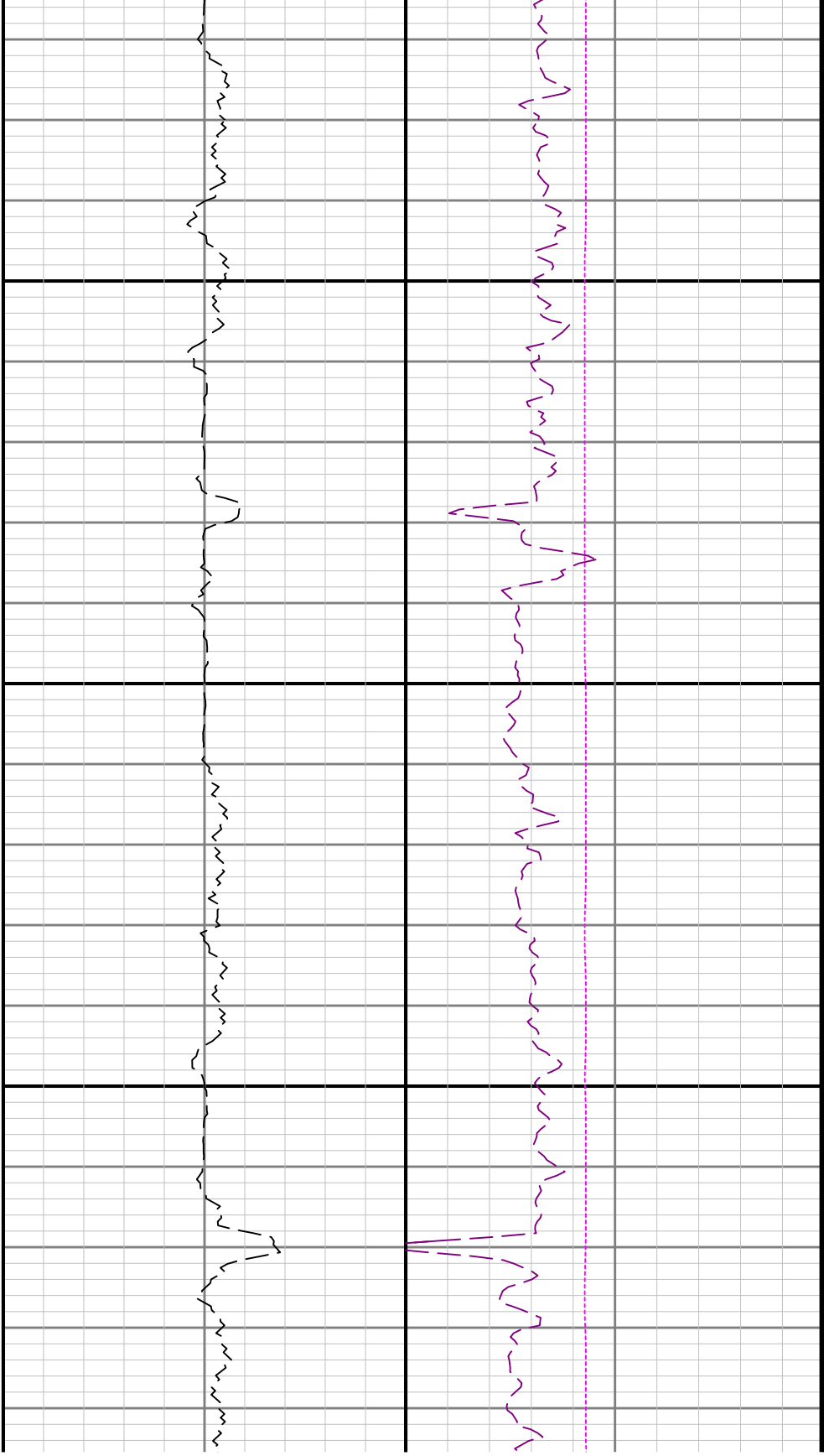
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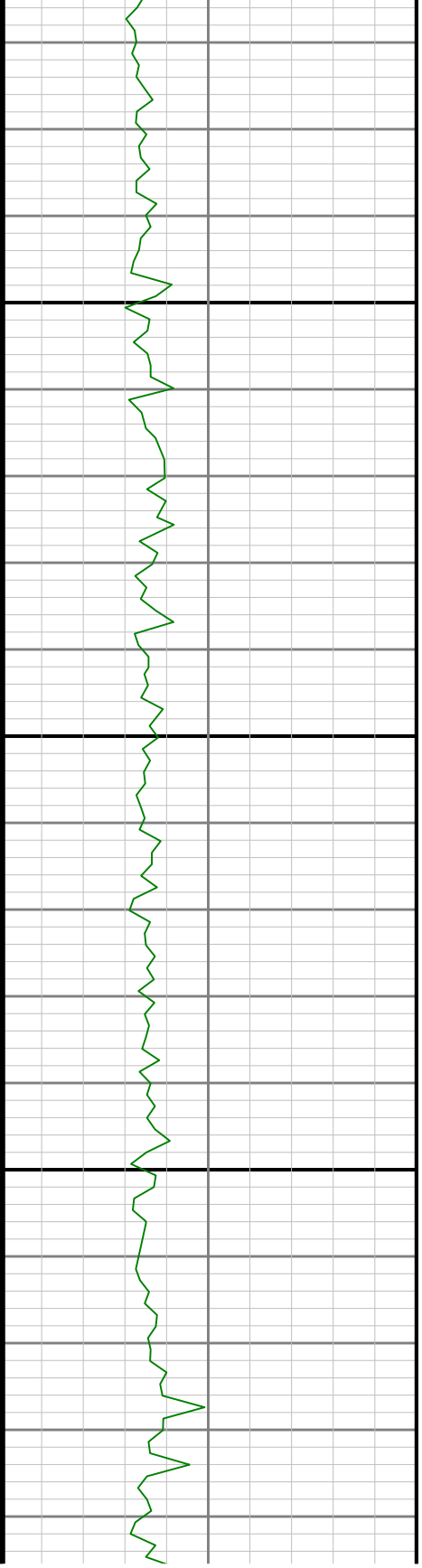


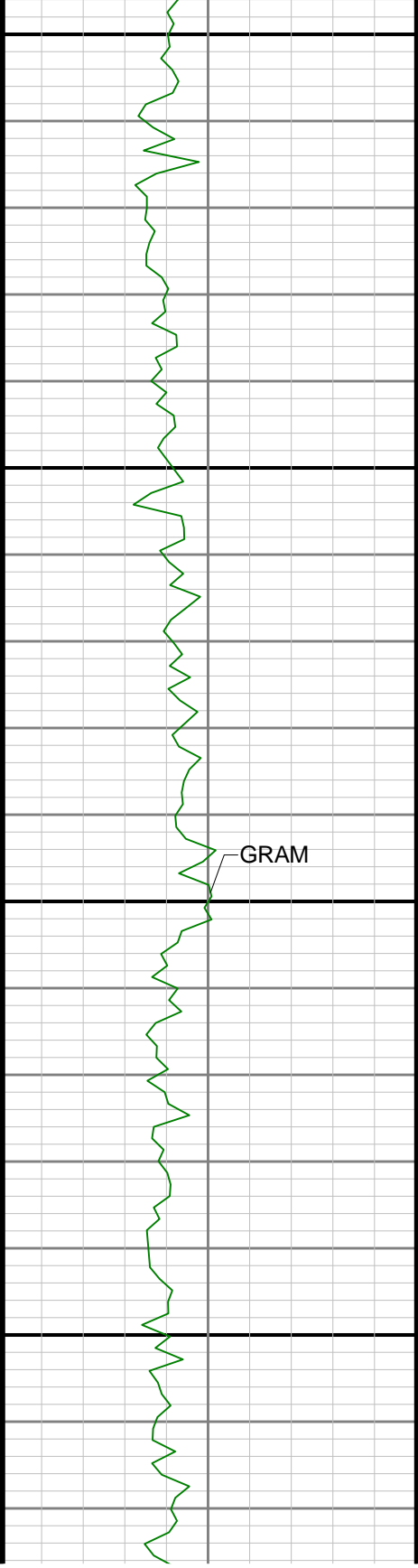






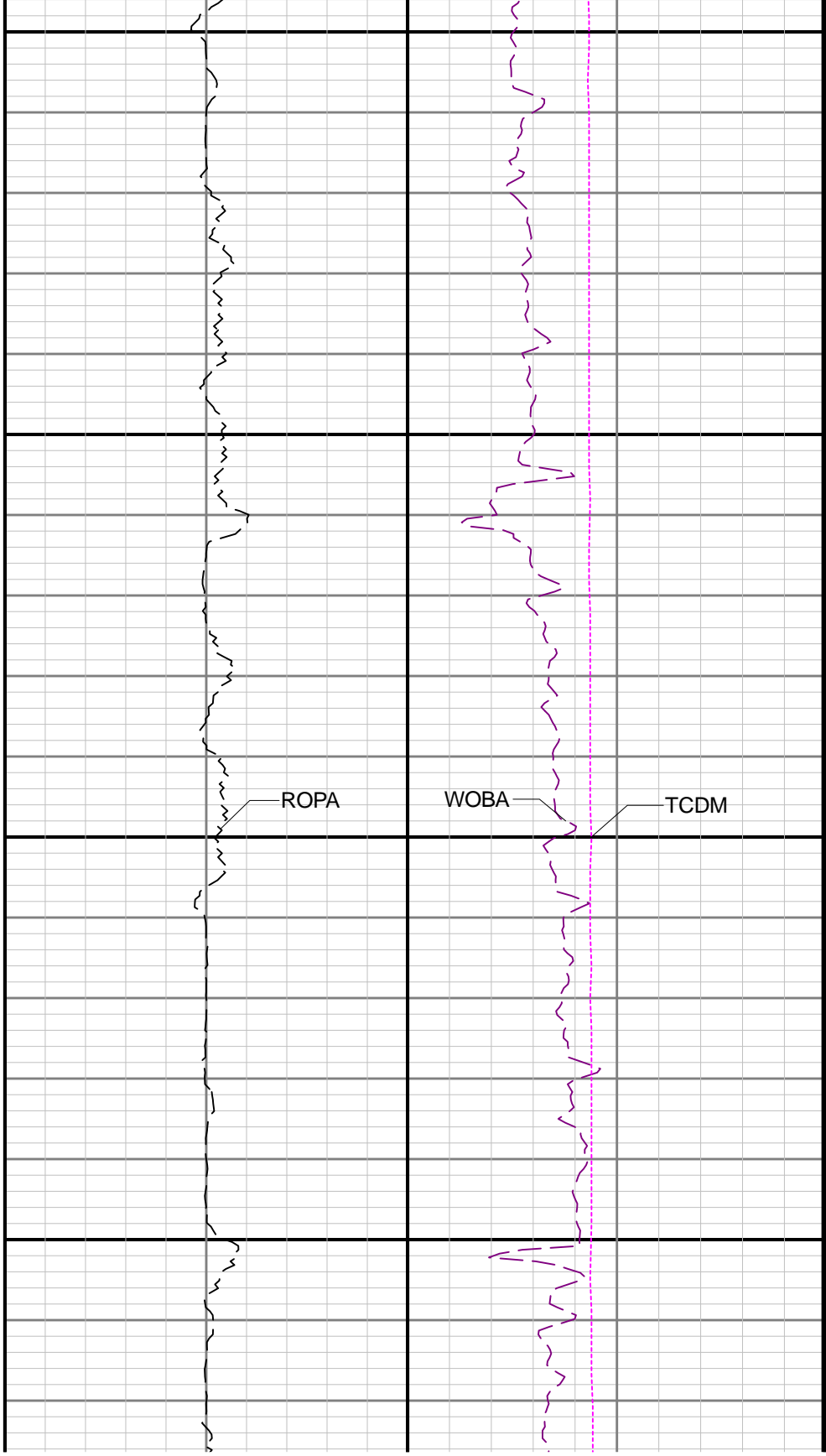
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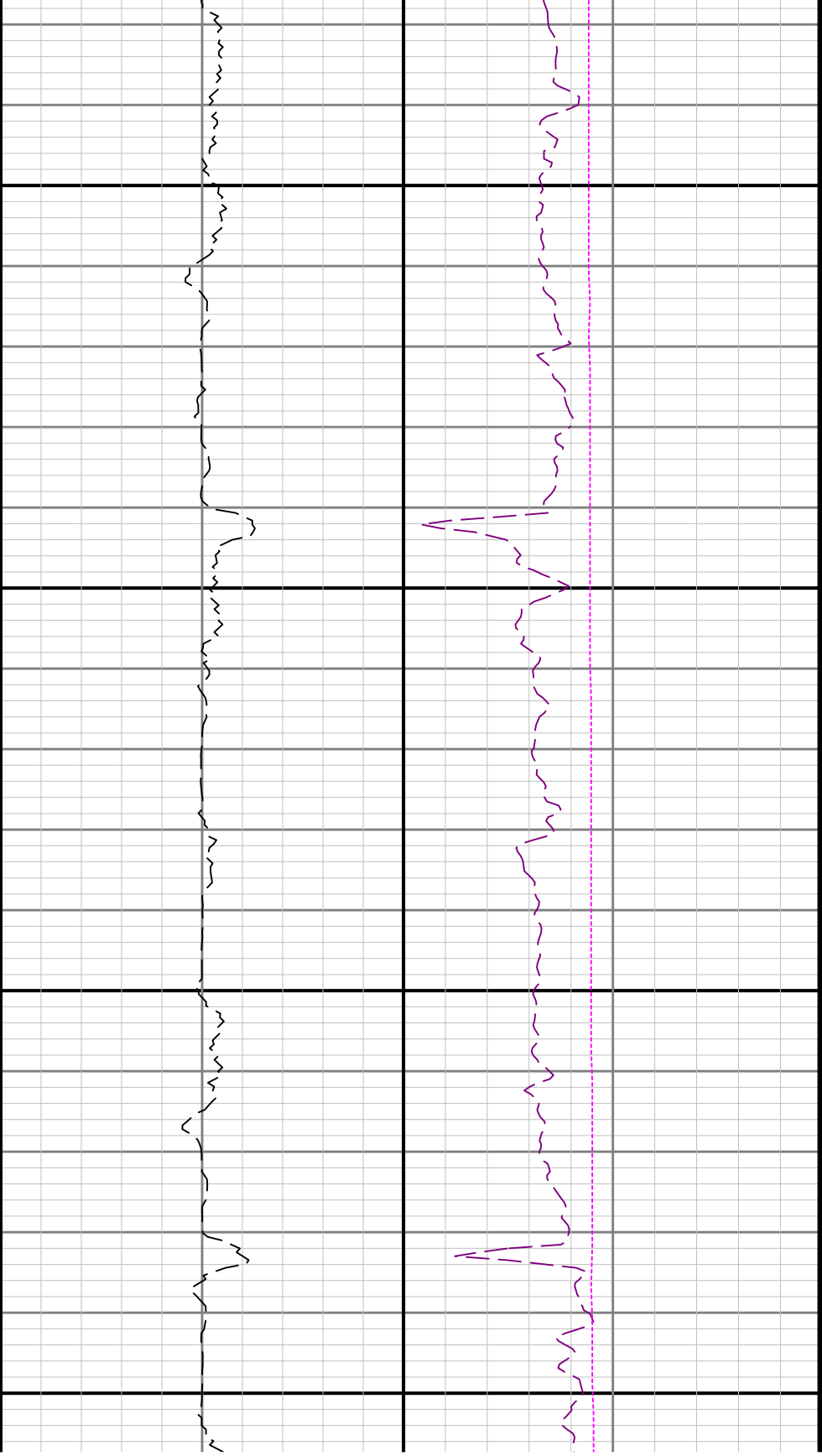




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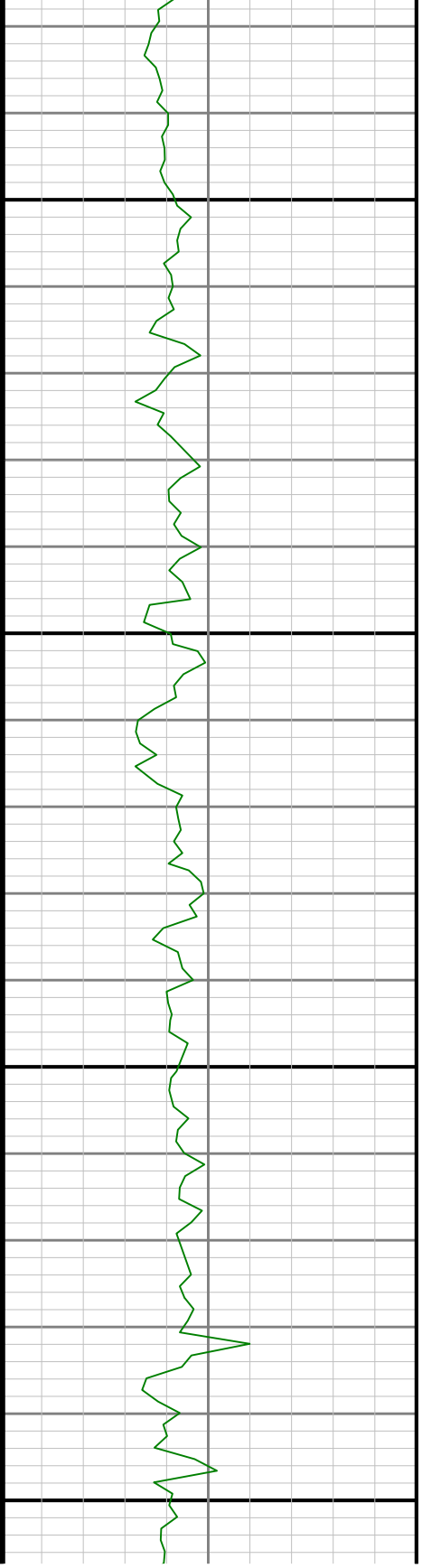
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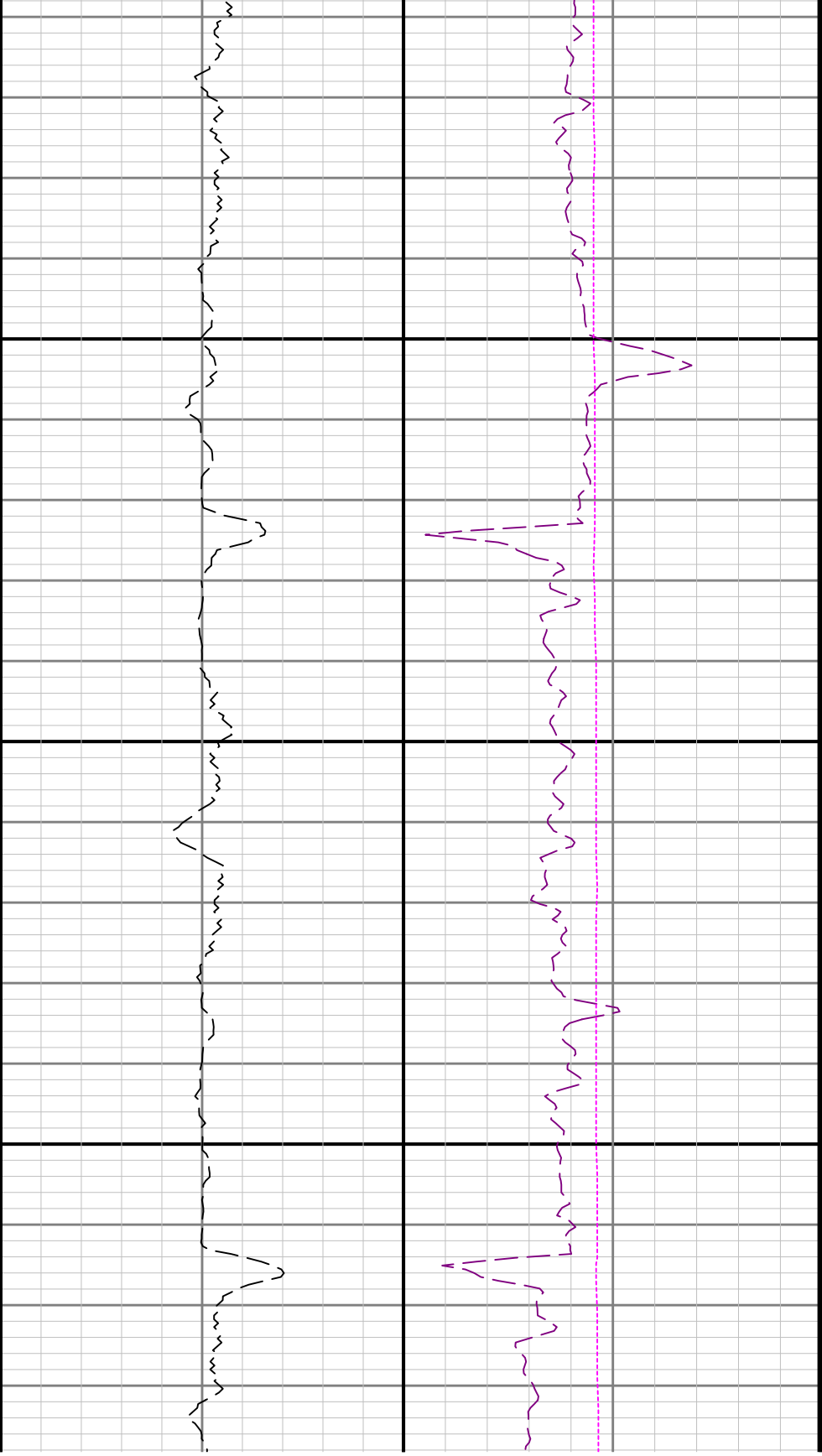


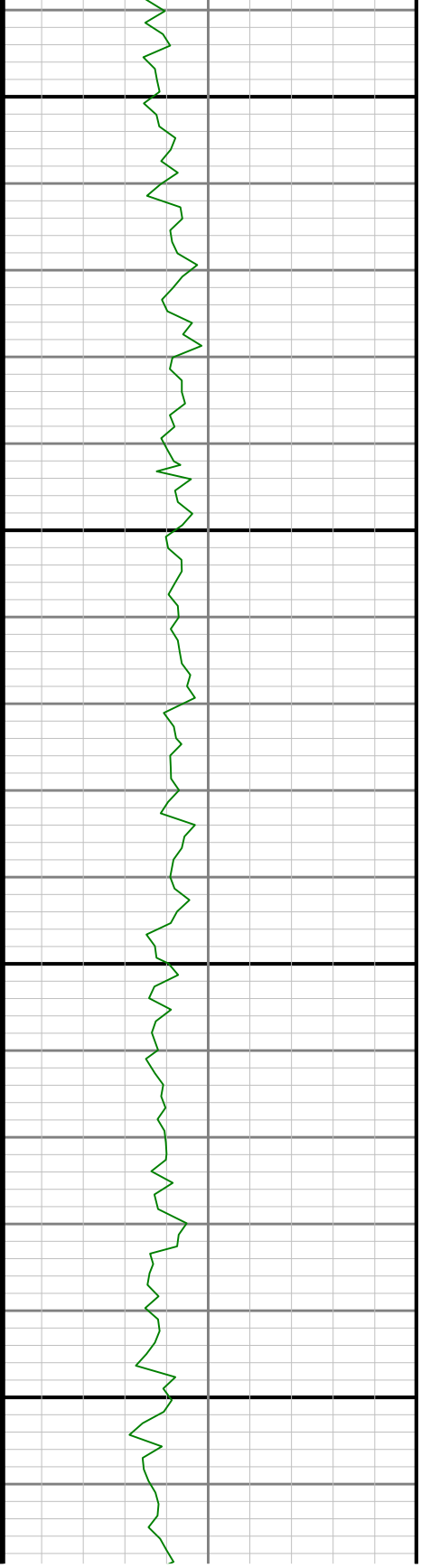
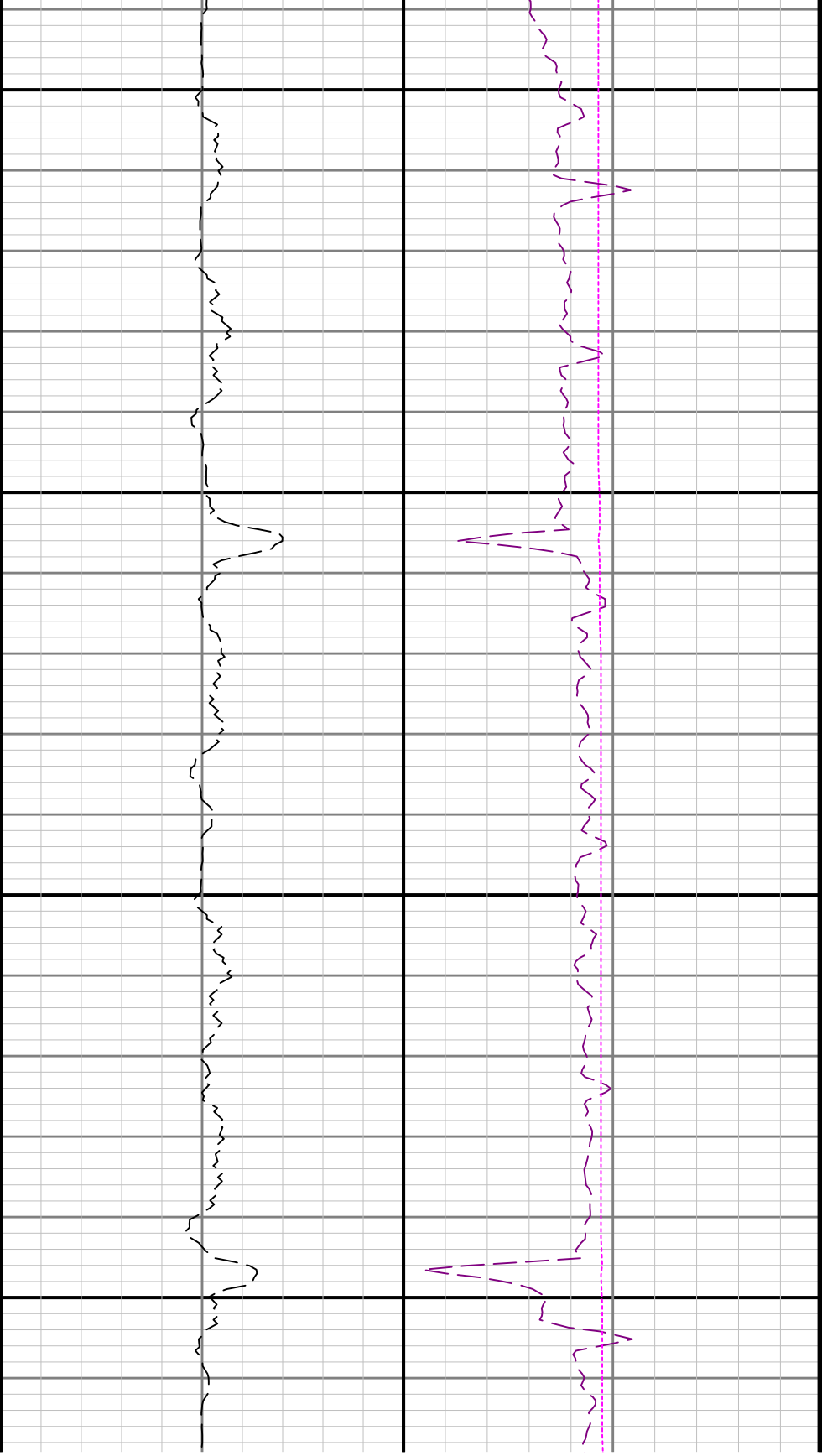


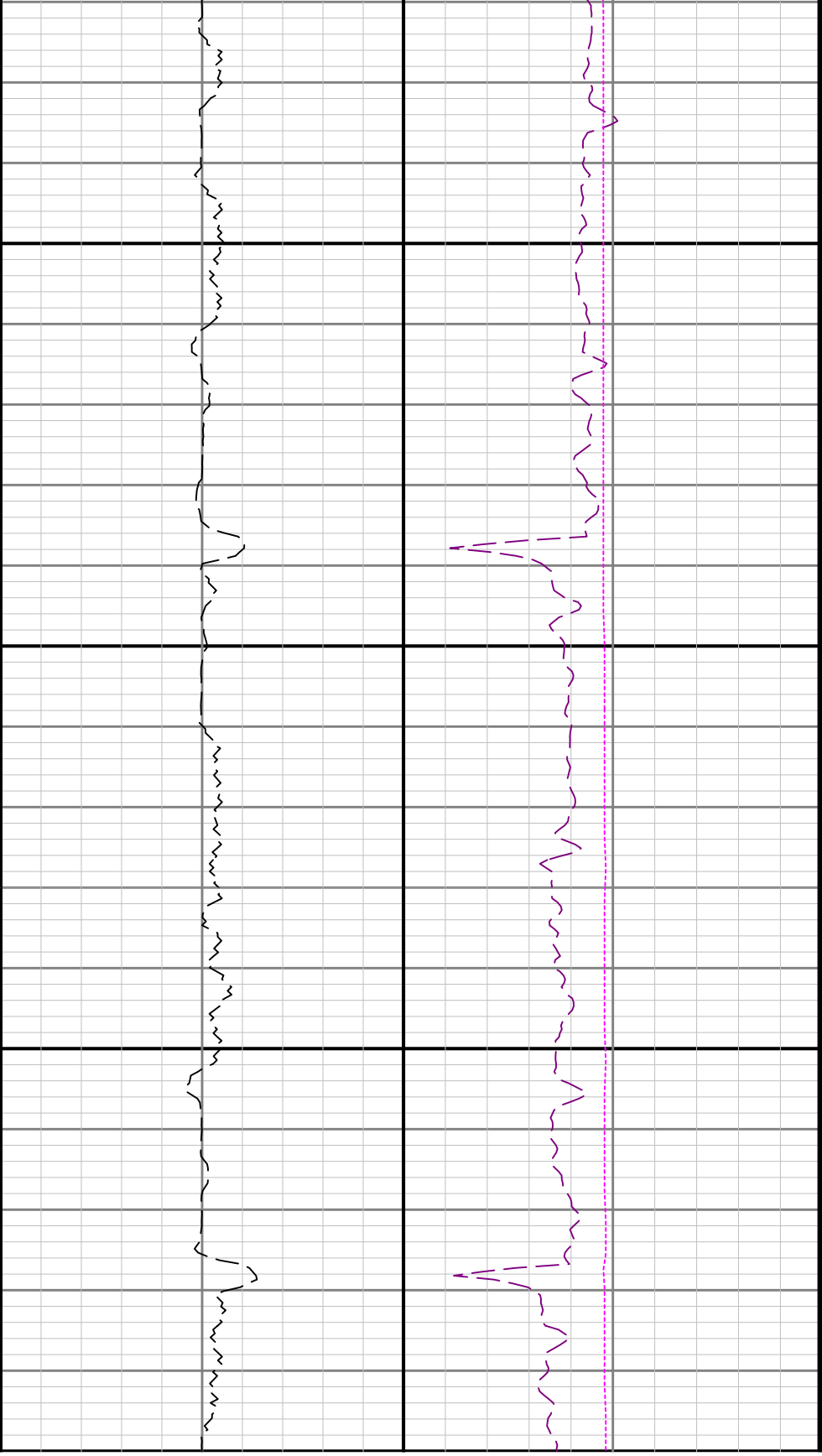
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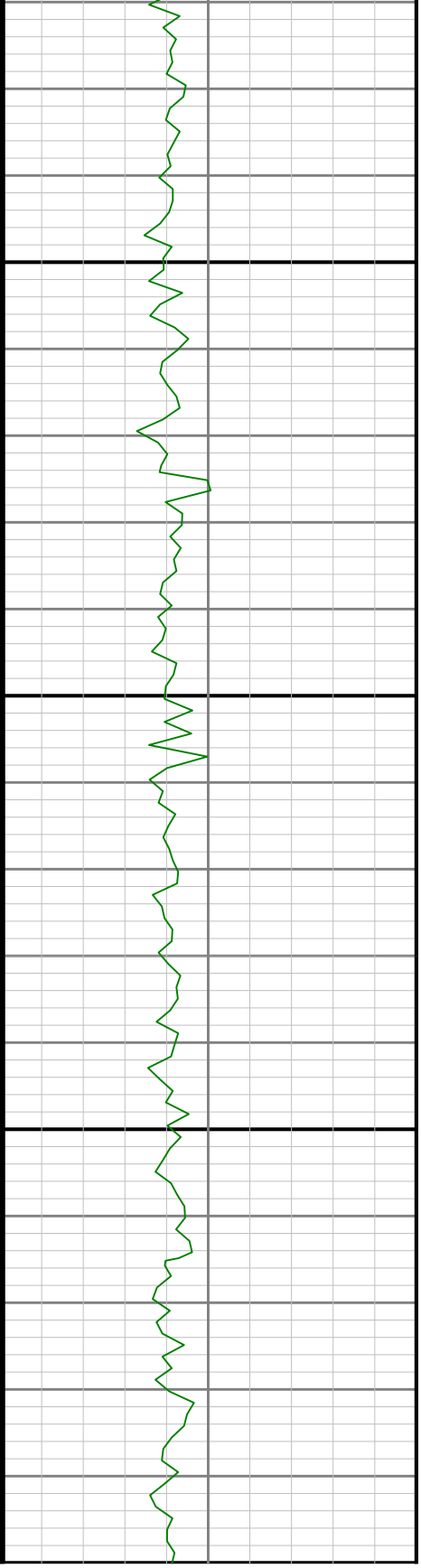


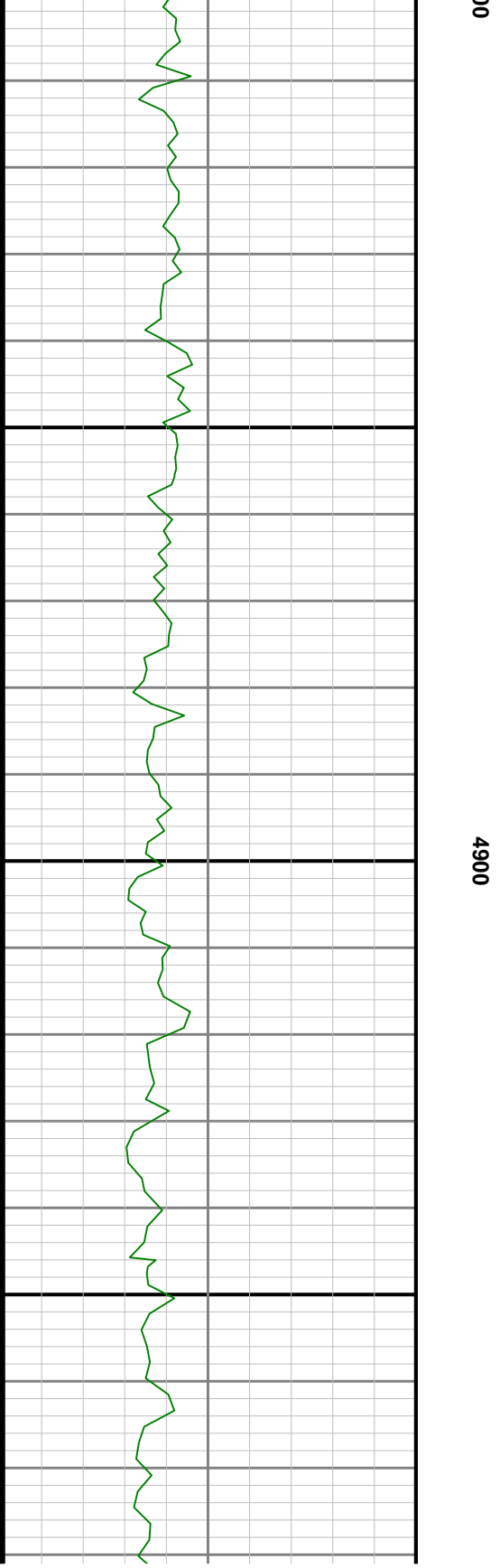
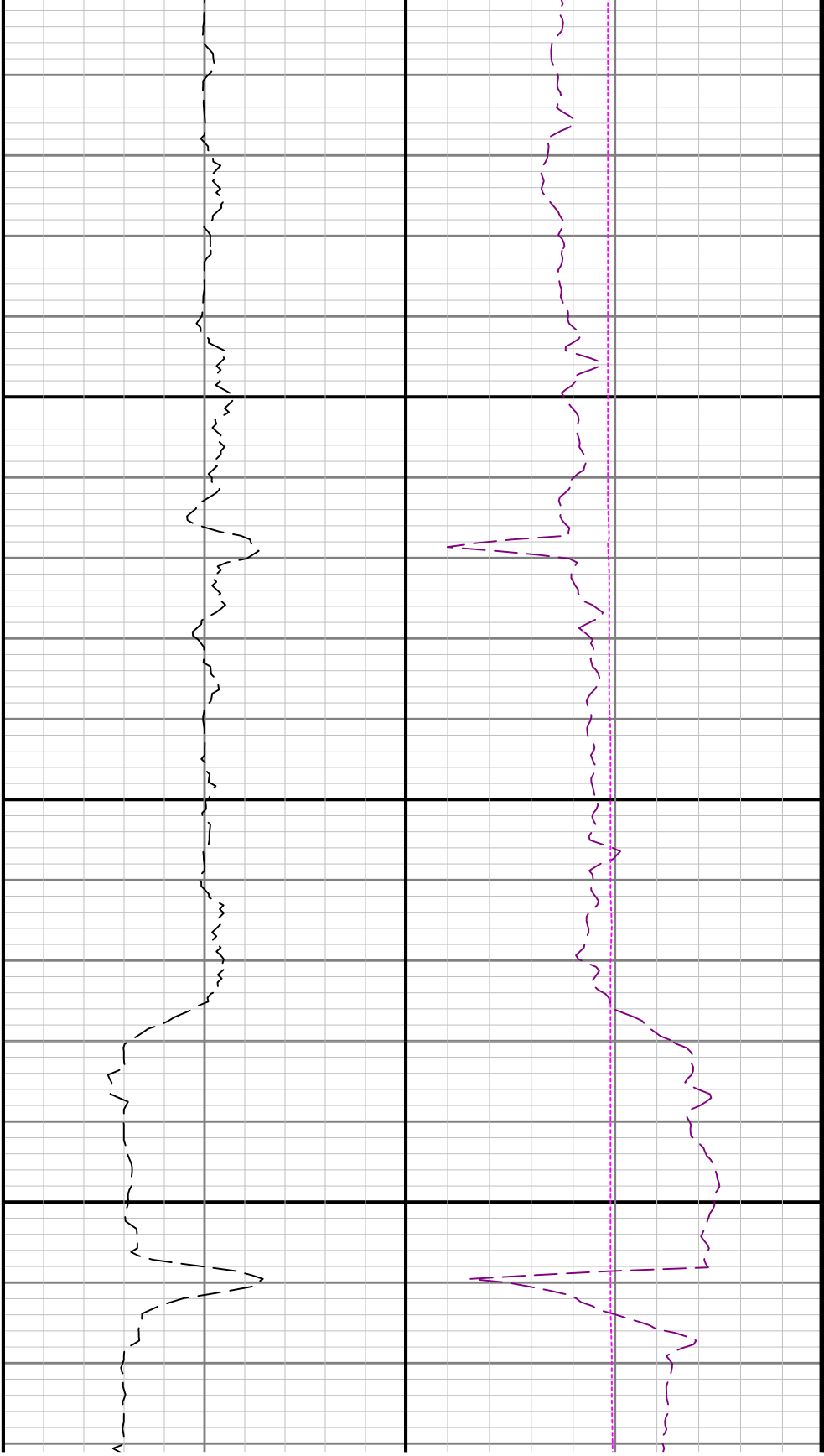


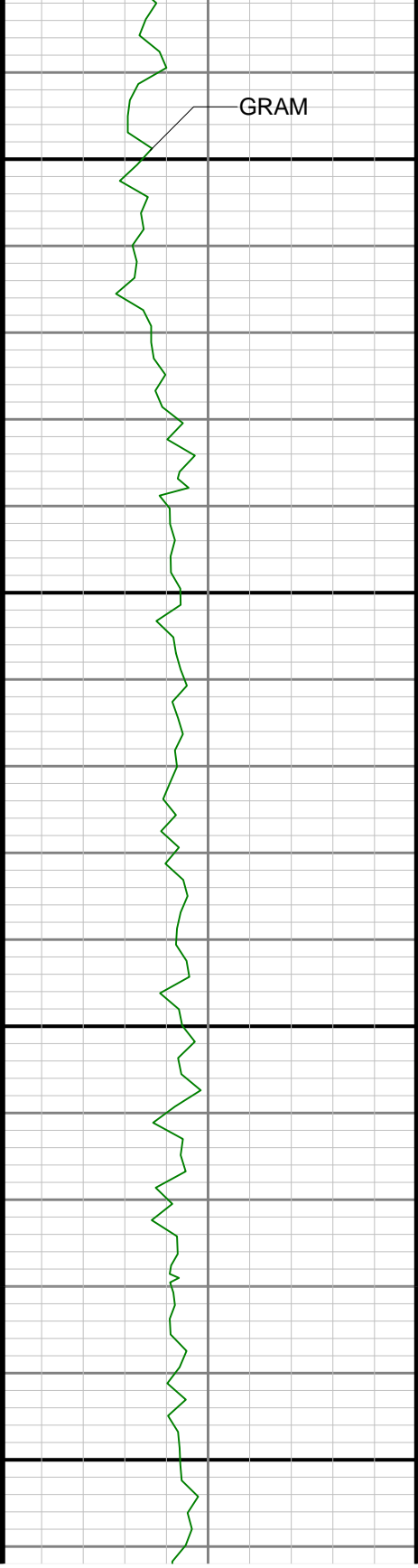


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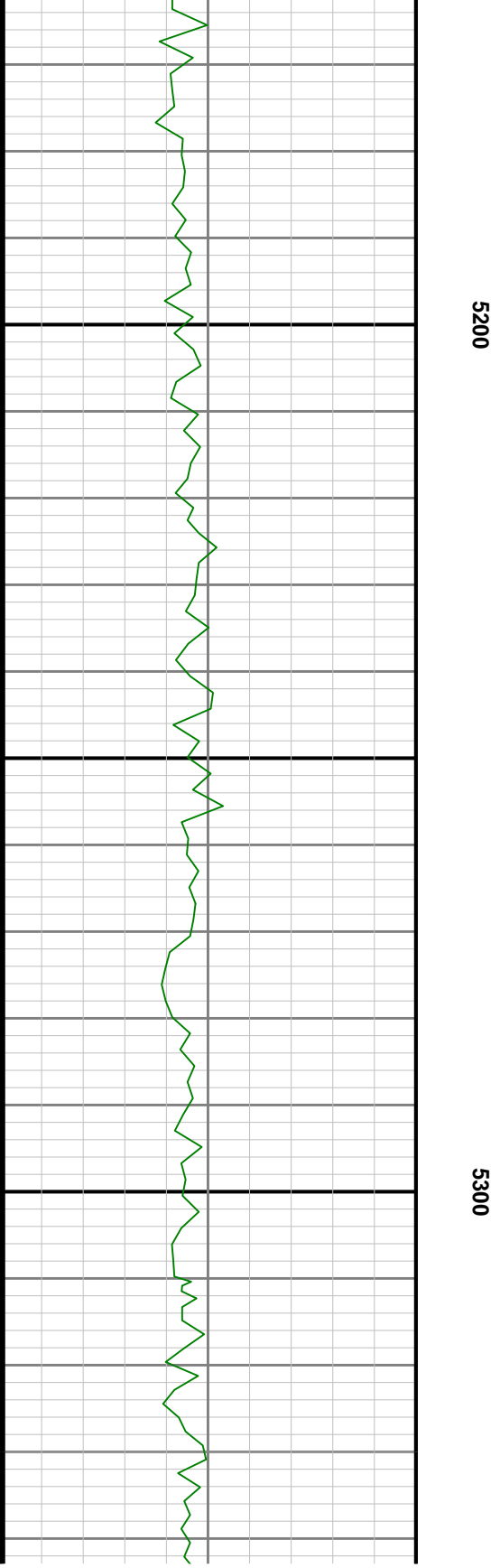
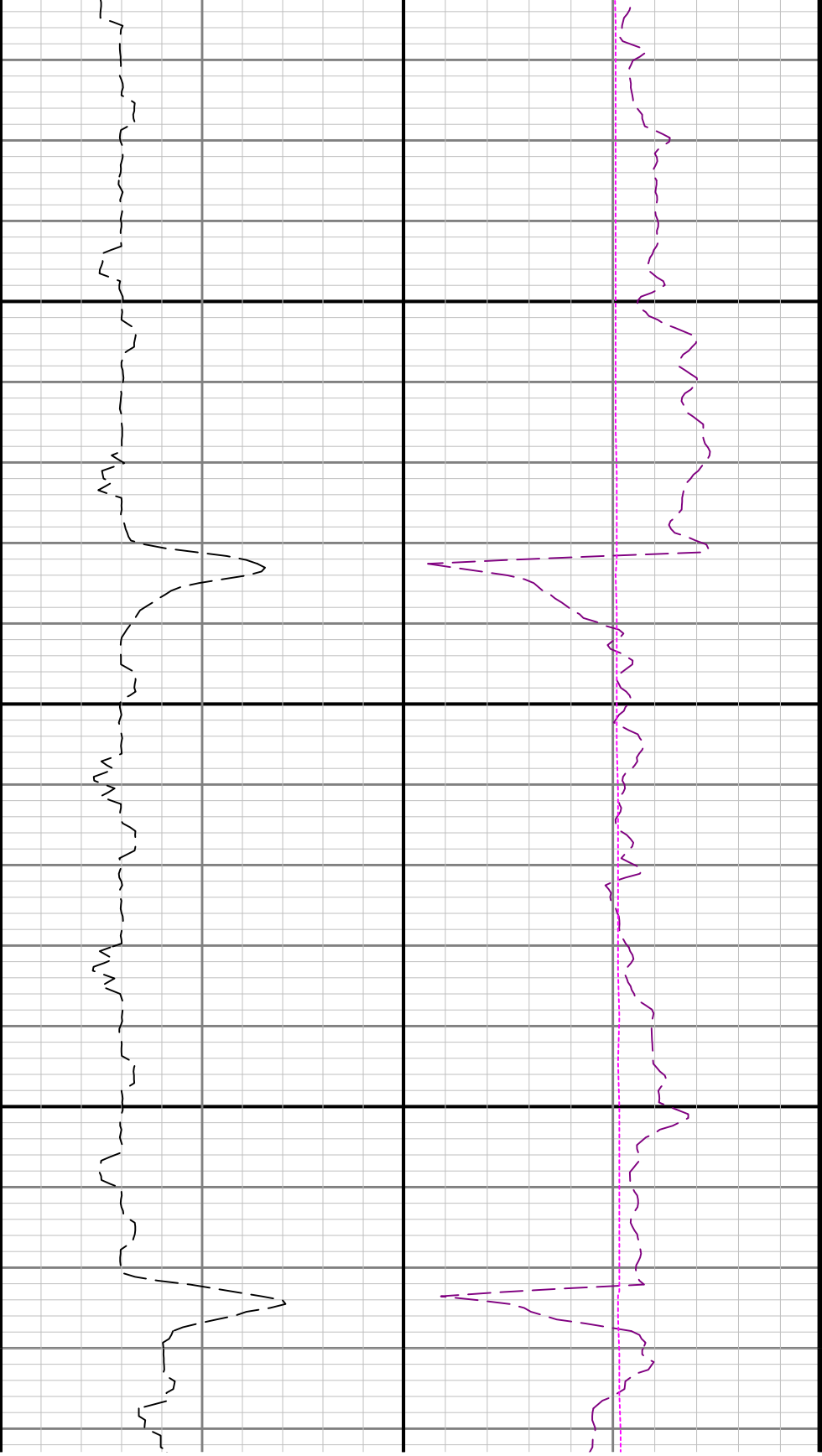


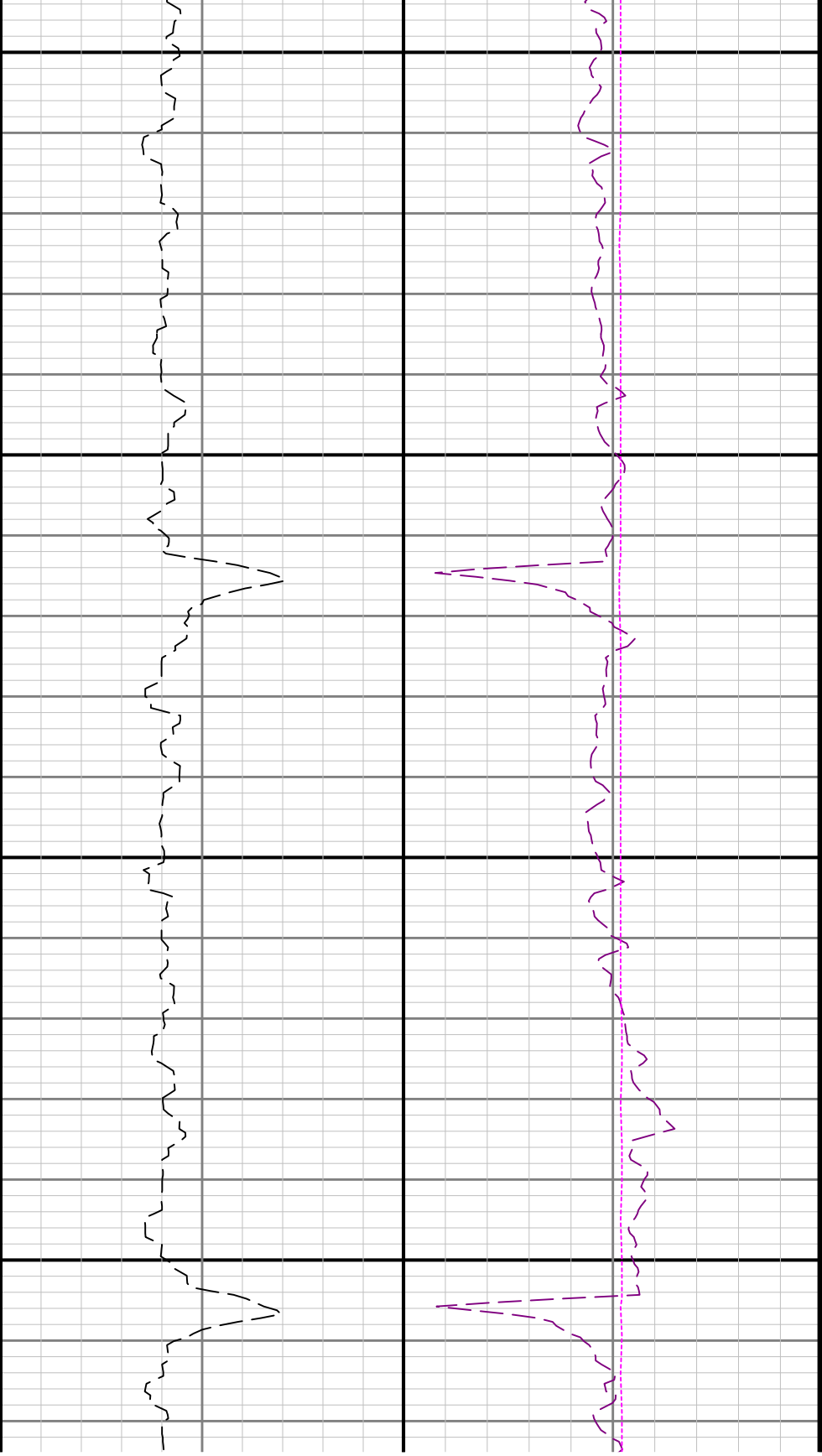


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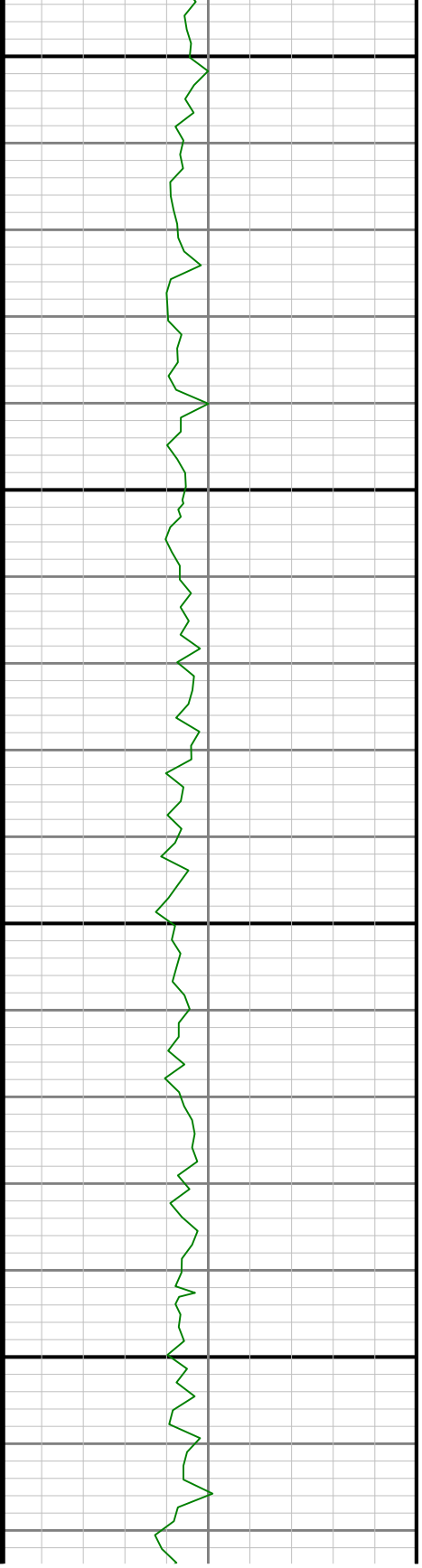


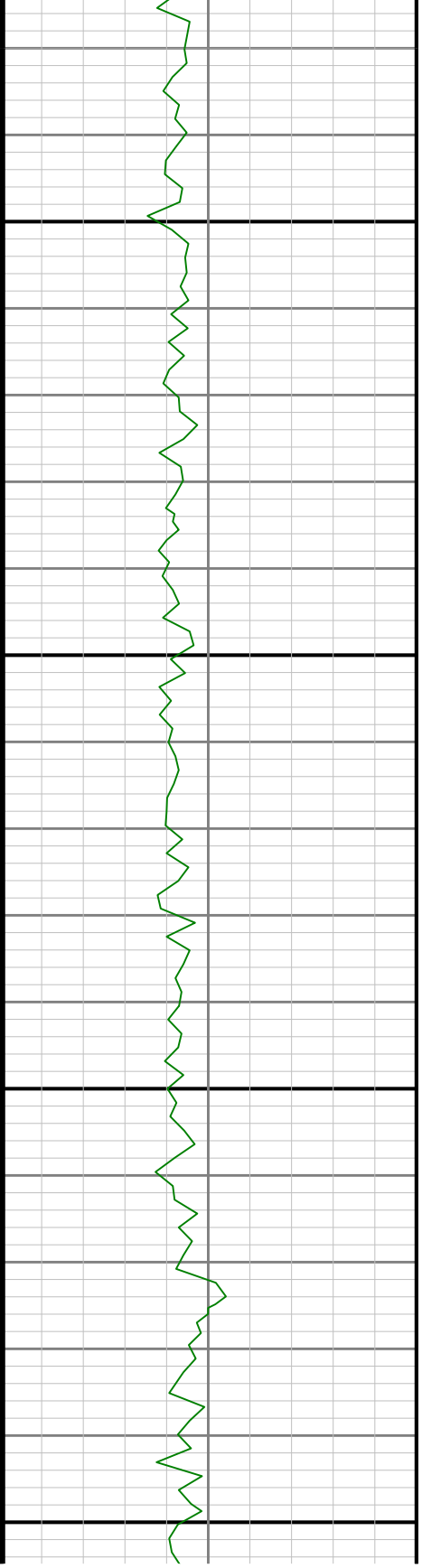
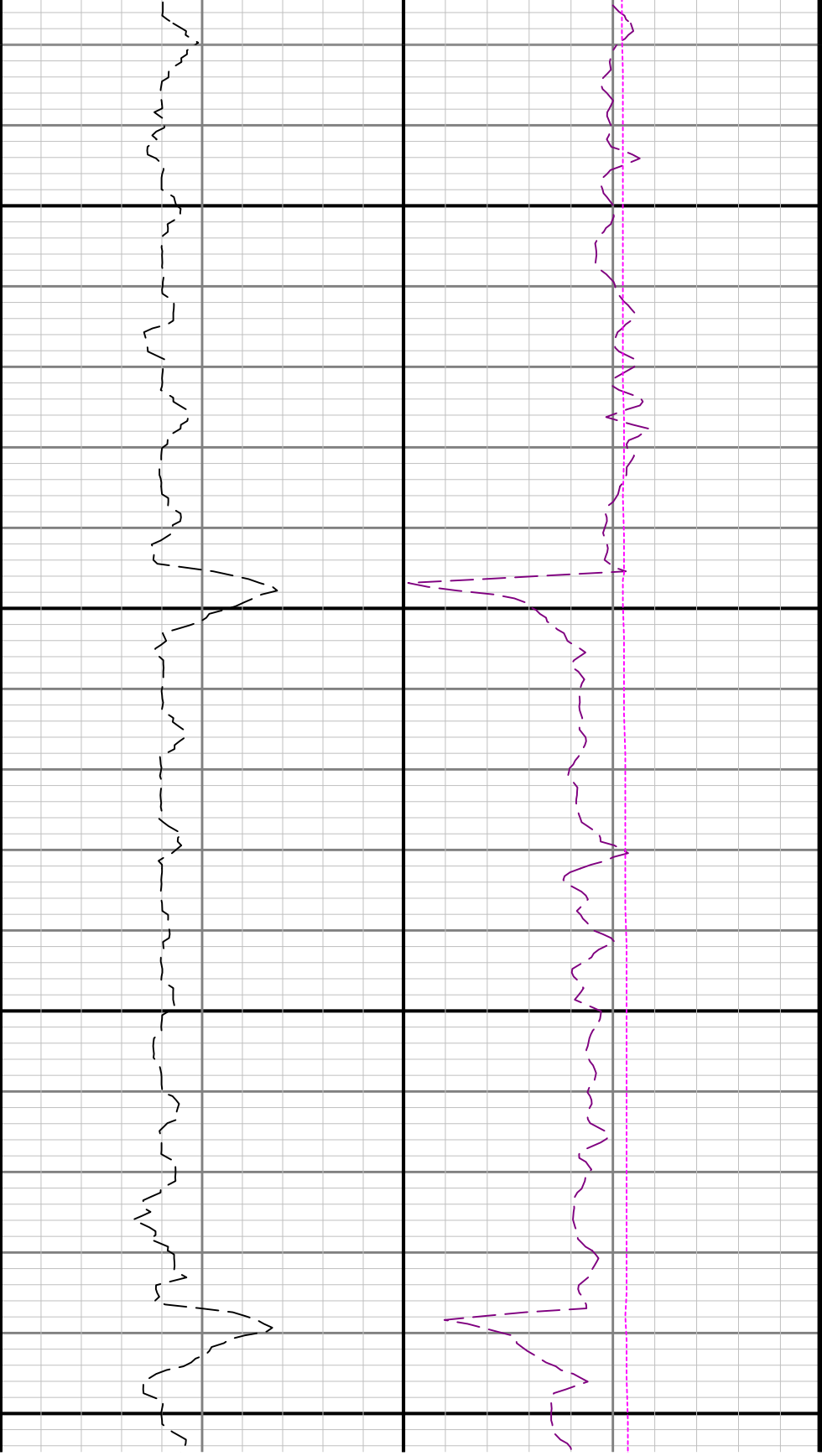




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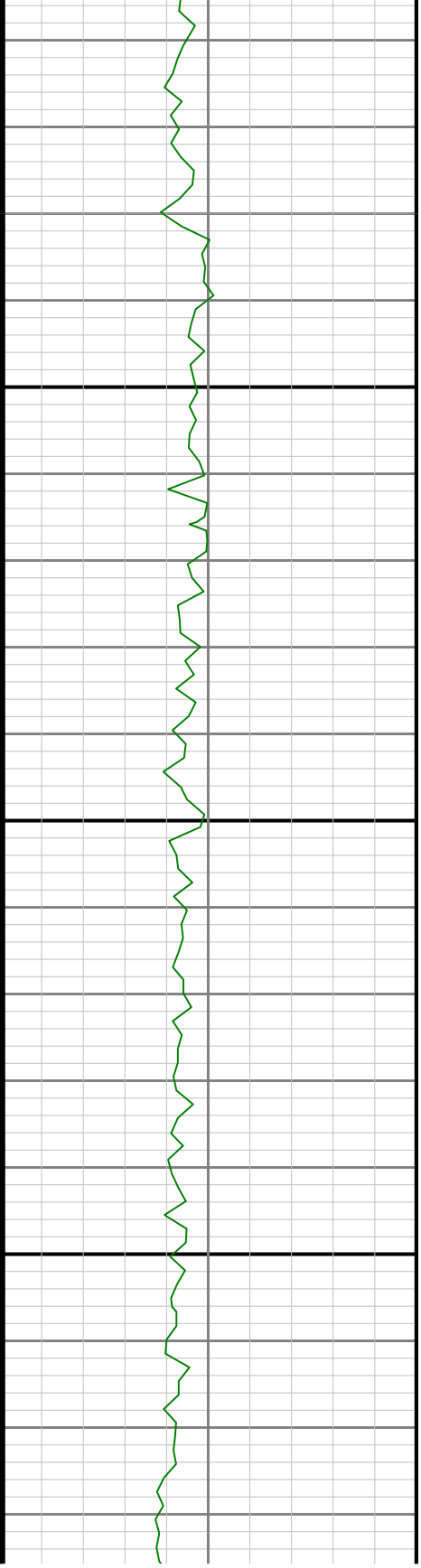
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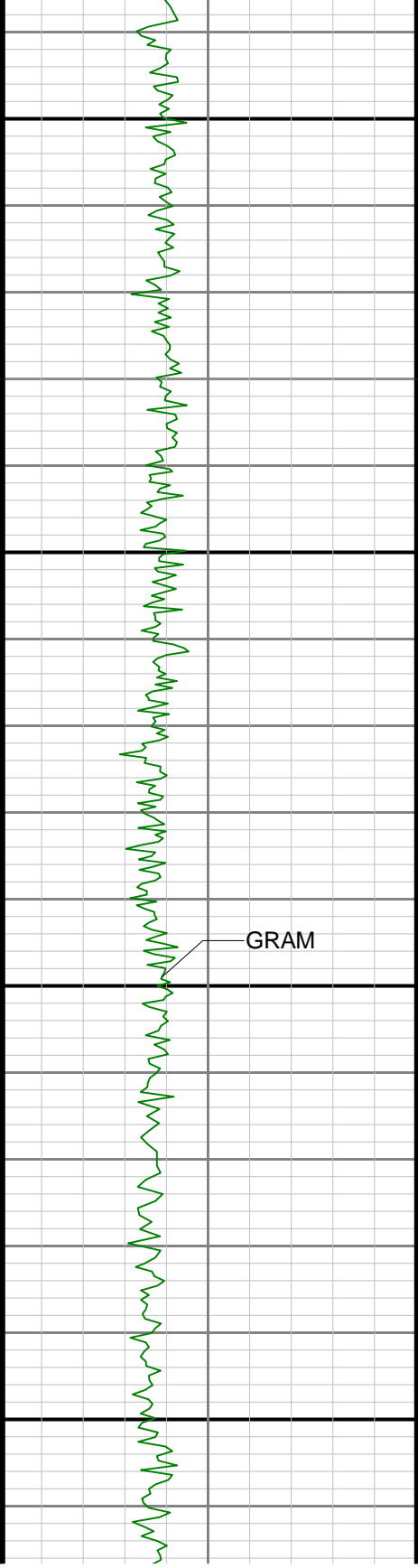






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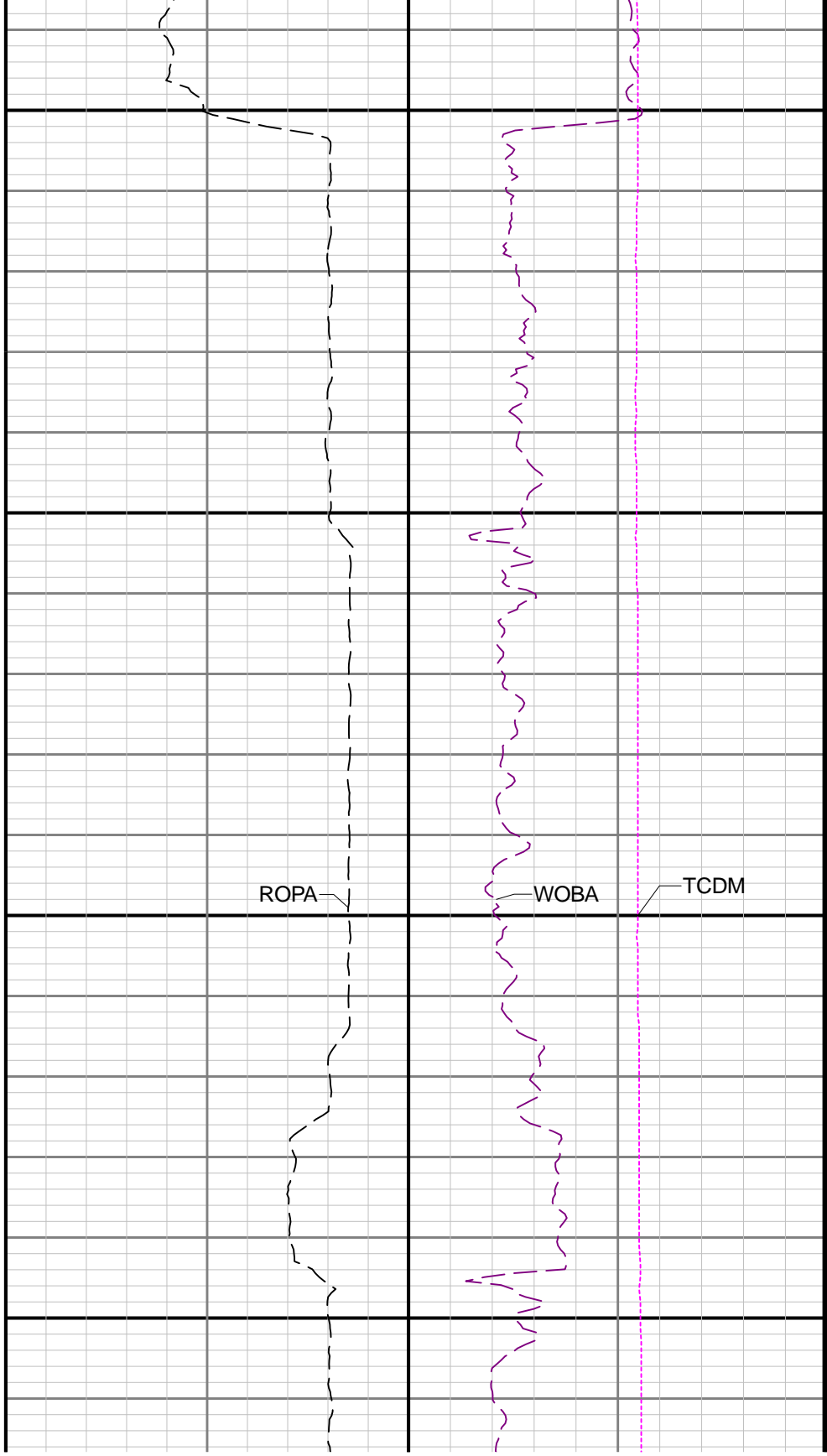




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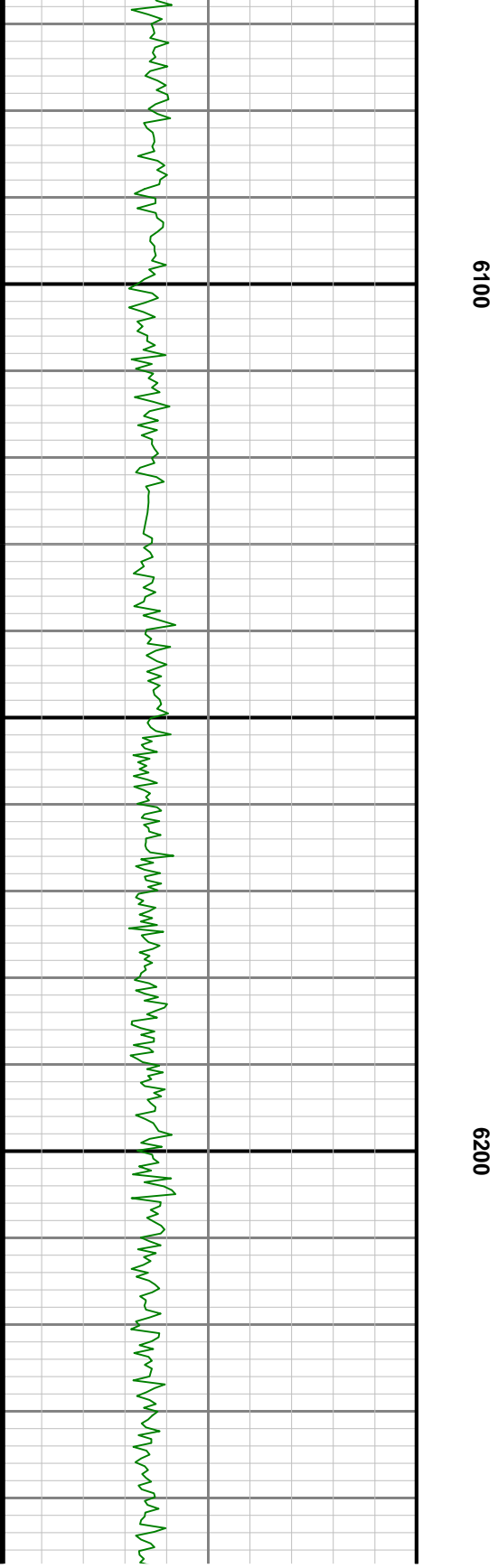
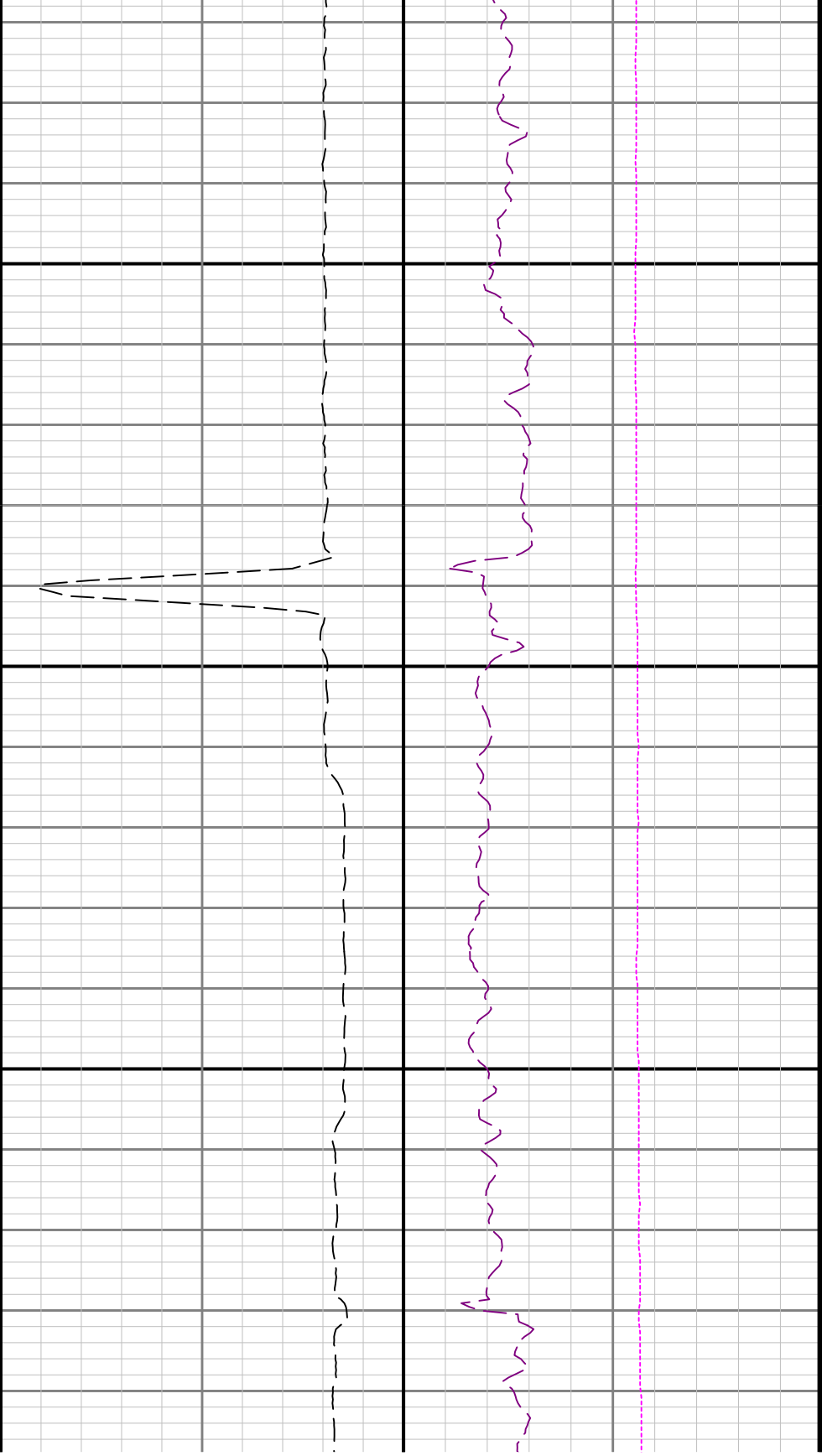
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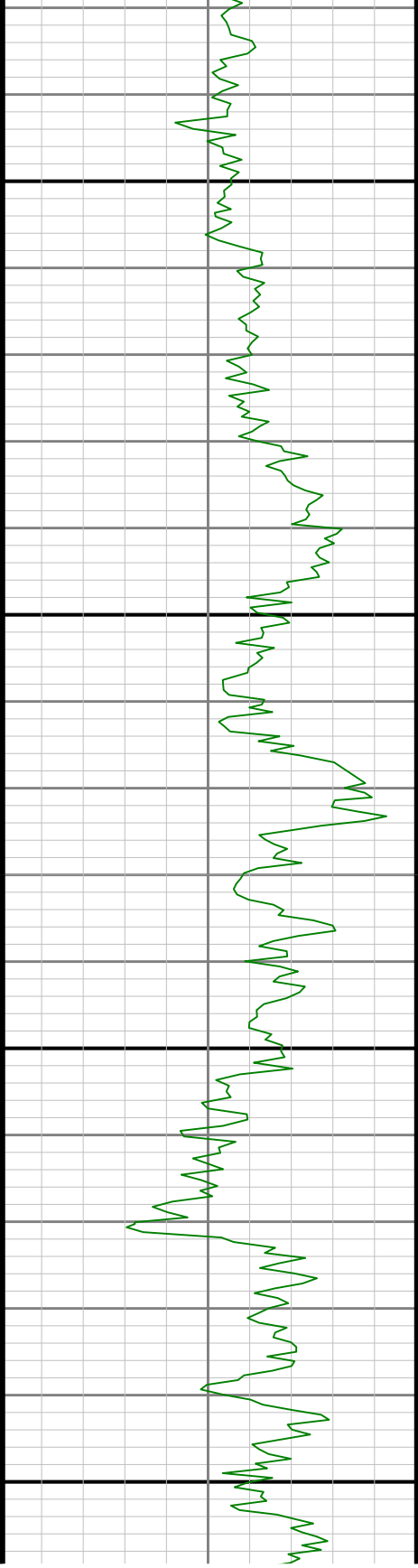


ROPA

WOBA

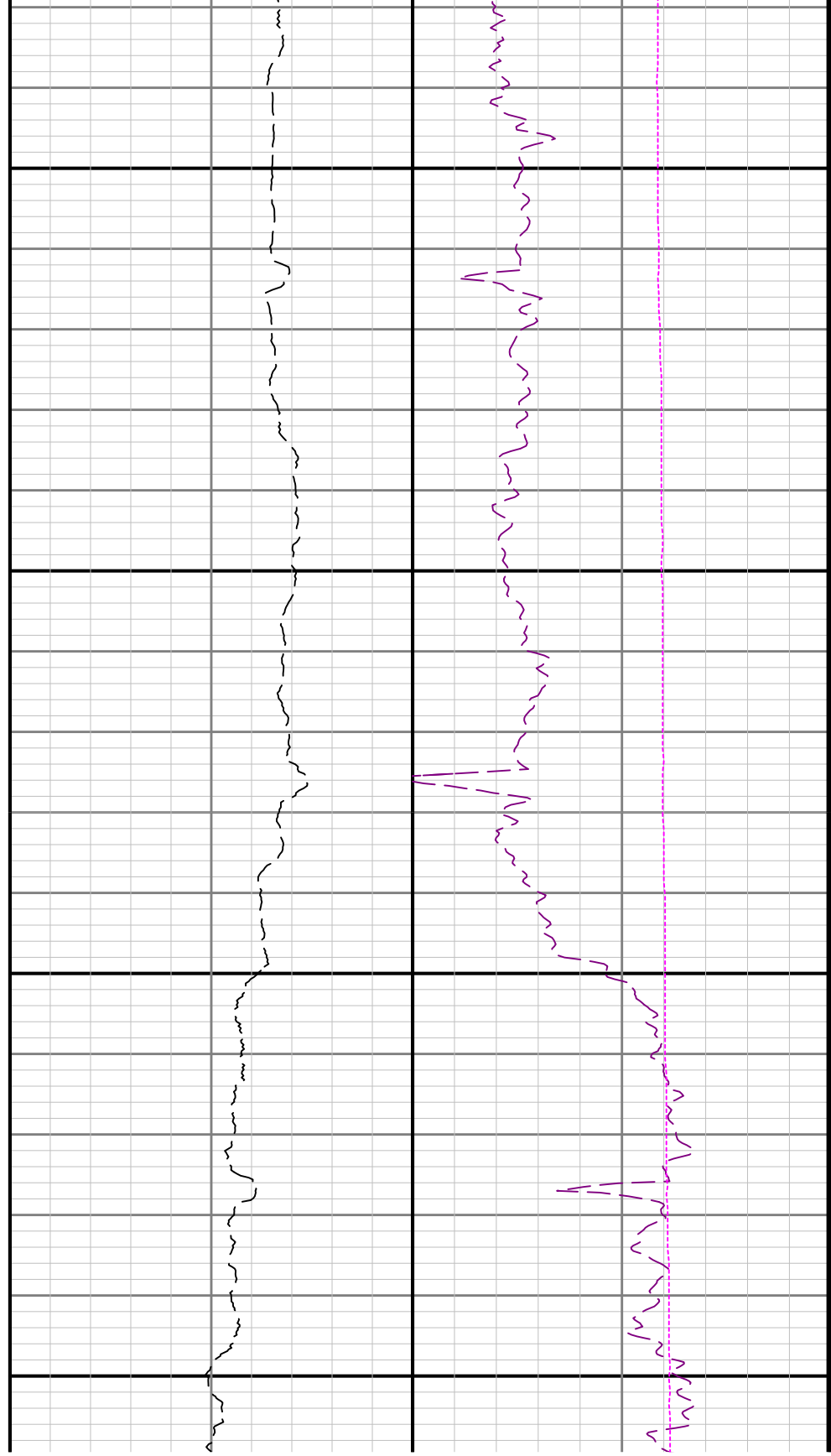
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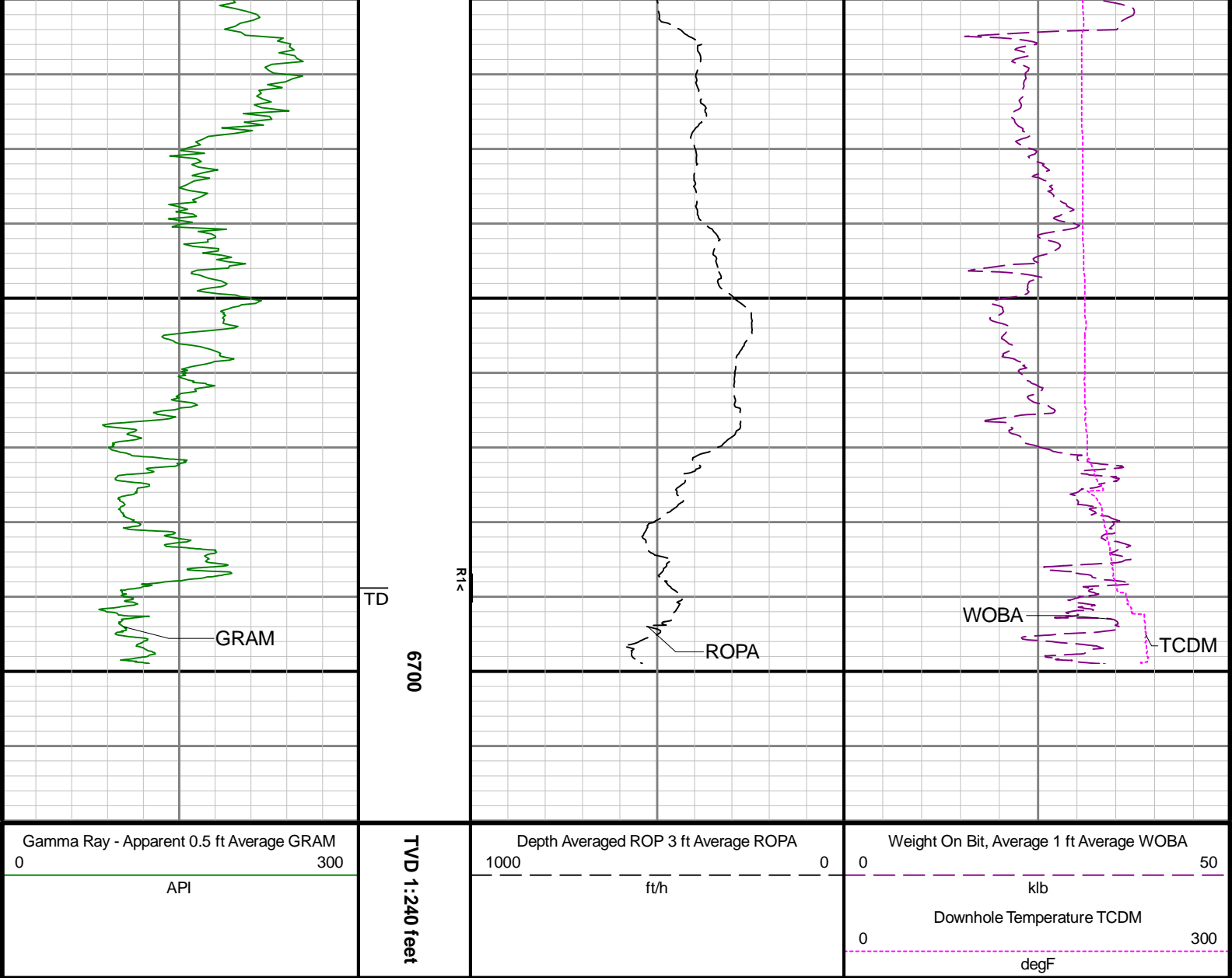




6600

0099





Directional Survey Summary

Latitude:	40° 26' 13.236" N	Longitude:	104° 32' 25.188" W
North Reference:	Grid	Drill Depth Zero:	Rig Floor
Vertical Datum is:	Mean Sea Level	Vertical Datum to DDZ: (ft)	4661.00
Vertical Section North: (ft)	0.00	Vertical Section East: (ft)	0.00
Vertical Section Azimuth: (deg)	355.15		
Grid Convergence: (deg)	-0.62	Magnetic Declination: (deg)	7.74
Total Correction: (deg)	7.12	TVD Calculation Method:	Minimum Curvature
Magnetic Correction:	Off	Local Magnetic Field: (nT)	51962
Local Magnetic Dip Angle: (deg)	66.81	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	-4661.00	0.00	0.00	0.00	0.00	0.00
	82.00	0.35	47.04	N/A	0.17	0.18	82.00	-4579.00	0.15	82.00	0.43	0.43	57.37

	175.00	0.19	53.66	N/A	0.46	0.52	175.00	-4486.00	0.41	93.00	0.17	-0.17	7.12
	266.00	0.28	225.75	N/A	0.39	0.48	266.00	-4395.00	0.35	91.00	0.52	0.10	189.11
	330.00	0.22	252.90	N/A	0.24	0.25	330.00	-4331.00	0.22	64.00	0.20	-0.09	42.42
	424.00	0.38	278.75	N/A	0.24	-0.23	424.00	-4237.00	0.26	94.00	0.22	0.17	27.50
	519.00	0.12	359.75	N/A	0.39	-0.54	519.00	-4142.00	0.43	95.00	0.40	-0.27	85.26
	614.00	0.11	356.11	N/A	0.58	-0.55	614.00	-4047.00	0.62	95.00	0.01	-0.01	-3.83
	709.00	0.69	275.96	N/A	0.73	-1.13	708.99	-3952.01	0.82	95.00	0.72	0.61	-84.37
	803.00	0.34	235.56	N/A	0.63	-1.92	802.99	-3858.01	0.79	94.00	0.52	-0.37	-42.98
	898.00	0.16	176.53	N/A	0.34	-2.14	897.99	-3763.01	0.52	95.00	0.31	-0.19	-62.14
	992.00	0.18	221.68	N/A	0.10	-2.23	991.99	-3669.01	0.28	94.00	0.14	0.02	48.03
	1087.00	0.30	249.93	N/A	-0.10	-2.57	1086.99	-3574.01	0.12	95.00	0.17	0.13	29.74
	1182.00	0.50	244.20	N/A	-0.37	-3.17	1181.98	-3479.02	-0.10	95.00	0.21	0.21	-6.03
	1276.00	0.36	350.56	N/A	-0.25	-3.59	1275.98	-3385.02	0.05	94.00	0.74	-0.15	113.15
	1371.00	0.22	15.03	N/A	0.22	-3.59	1370.98	-3290.02	0.52	95.00	0.19	-0.15	25.76
	1466.00	0.32	205.83	N/A	0.15	-3.66	1465.98	-3195.02	0.46	95.00	0.57	0.11	-178.11
	1561.00	0.34	293.24	N/A	0.03	-4.04	1560.98	-3100.02	0.37	95.00	0.48	0.02	92.01
	1655.00	0.58	352.34	N/A	0.61	-4.36	1654.98	-3006.02	0.97	94.00	0.53	0.26	62.87
	1750.00	0.42	90.92	N/A	1.08	-4.07	1749.98	-2911.02	1.42	95.00	0.81	-0.17	103.77
	1845.00	0.73	190.33	N/A	0.48	-3.83	1844.97	-2816.03	0.80	95.00	0.95	0.33	104.64
	1876.00	0.93	200.96	N/A	0.05	-3.96	1875.97	-2785.03	0.38	31.00	0.81	0.65	34.29
	1921.00	1.17	210.14	N/A	-0.69	-4.32	1920.96	-2740.04	-0.32	45.00	0.65	0.53	20.40
	1994.00	1.48	251.05	96.0	-1.64	-5.58	1993.94	-2667.06	-1.16	73.00	1.33	0.42	56.04
	2089.00	0.13	180.98	96.0	-2.15	-6.75	2088.93	-2572.07	-1.57	95.00	1.52	-1.42	-73.76
	2183.00	0.06	111.37	98.7	-2.27	-6.70	2182.93	-2478.07	-1.70	94.00	0.13	-0.07	-74.05
	2373.00	0.13	37.11	104.1	-2.14	-6.48	2372.93	-2288.07	-1.58	190.00	0.07	0.04	-39.08
	2467.00	2.60	216.83	106.8	-3.76	-7.69	2466.90	-2194.10	-3.09	94.00	2.90	2.63	191.19
	2562.00	3.88	222.91	106.8	-7.84	-11.17	2561.75	-2099.25	-6.86	95.00	1.39	1.35	6.40
	2657.00	5.75	217.97	109.5	-13.94	-16.29	2656.41	-2004.59	-12.52	95.00	2.01	1.97	-5.20
	2751.00	8.49	218.54	112.2	-23.08	-23.51	2749.68	-1911.32	-21.01	94.00	2.92	2.91	0.61
	2846.00	10.64	218.14	112.2	-35.47	-33.30	2843.35	-1817.65	-32.53	95.00	2.26	2.26	-0.42
	2941.00	11.93	218.20	112.2	-50.08	-44.79	2936.51	-1724.49	-46.12	95.00	1.36	1.36	0.06
	3036.00	11.87	217.88	117.6	-65.51	-56.86	3029.47	-1631.53	-60.47	95.00	0.09	-0.06	-0.34
	3131.00	11.33	218.34	120.3	-80.54	-68.65	3122.53	-1538.47	-74.45	95.00	0.58	-0.57	0.48
	3225.00	11.41	219.11	120.3	-95.00	-80.24	3214.68	-1446.32	-87.88	94.00	0.18	0.09	0.82
	3320.00	14.66	218.44	120.3	-111.71	-93.65	3307.22	-1353.78	-103.39	95.00	3.42	3.42	-0.71
	3414.00	16.10	218.20	123.0	-131.27	-109.10	3397.85	-1263.15	-121.58	94.00	1.53	1.53	-0.26
	3509.00	16.18	221.17	125.7	-151.59	-125.96	3489.11	-1171.89	-140.40	95.00	0.87	0.08	3.13
	3603.00	16.83	217.79	125.7	-172.20	-142.92	3579.24	-1081.76	-159.50	94.00	1.23	0.69	-3.60
	3792.00	16.74	218.05	128.4	-215.26	-176.46	3760.19	-900.81	-199.57	189.00	0.06	-0.05	0.14
	3887.00	17.16	218.08	128.4	-237.06	-193.54	3851.06	-809.94	-219.85	95.00	0.44	0.44	0.03
	3981.00	17.20	218.02	131.1	-258.93	-210.65	3940.87	-720.13	-240.19	94.00	0.05	0.04	-0.06
	4075.00	17.04	218.16	131.1	-280.71	-227.72	4030.70	-630.30	-260.45	94.00	0.18	-0.17	0.15
	4170.00	17.03	217.94	133.8	-302.62	-244.88	4121.53	-539.47	-280.83	95.00	0.07	-0.01	-0.23
	4264.00	16.87	218.19	136.5	-324.20	-261.77	4211.45	-449.55	-300.90	94.00	0.19	-0.17	0.27
	4359.00	17.03	217.08	136.5	-346.13	-278.68	4302.32	-358.68	-321.33	95.00	0.38	0.17	-1.17
	4453.00	17.27	217.53	139.2	-368.18	-295.48	4392.14	-268.86	-341.88	94.00	0.29	0.26	0.48
	4548.00	16.53	218.26	141.9	-389.97	-312.44	4483.04	-177.96	-362.16	95.00	0.81	-0.78	0.77
	4643.00	16.79	217.88	141.9	-411.41	-329.24	4574.05	-86.95	-382.11	95.00	0.30	0.27	-0.40
	4738.00	17.18	218.24	144.6	-433.26	-346.34	4664.91	3.91	-402.43	95.00	0.43	0.41	0.38
	4832.00	16.96	218.44	144.6	-454.91	-363.46	4754.77	93.77	-422.55	94.00	0.24	-0.23	0.21
	4927.00	16.80	217.83	144.6	-476.60	-380.50	4845.67	184.67	-442.73	95.00	0.25	-0.17	-0.64
	5021.00	16.95	217.77	147.3	-498.16	-397.22	4936.63	274.63	-462.80	94.00	0.16	0.16	-0.06
	5115.00	16.65	218.06	147.3	-519.60	-413.91	5025.61	364.61	-482.74	94.00	0.33	-0.32	0.31
	5210.00	16.16	220.82	152.7	-540.32	-430.95	5116.75	455.75	-501.95	95.00	0.97	-0.52	2.91
	5304.00	15.92	223.73	152.7	-559.53	-448.41	5207.09	546.09	-519.62	94.00	0.89	-0.26	3.10
	5399.00	15.57	224.31	152.7	-578.07	-466.32	5298.53	637.53	-536.58	95.00	0.40	-0.37	0.61
	5493.00	16.79	223.45	155.4	-596.96	-484.47	5388.80	727.80	-553.86	94.00	1.32	1.30	-0.91
	5588.00	16.34	218.58	155.4	-617.37	-502.24	5479.86	818.86	-572.69	95.00	1.54	-0.47	-5.13
	5682.00	16.58	218.27	158.1	-638.23	-518.80	5570.01	909.01	-592.08	94.00	0.27	0.26	-0.33
	5777.00	16.56	218.53	160.8	-659.47	-535.62	5661.06	1000.06	-611.82	95.00	0.08	-0.02	0.27

		5871.00	16.66	218.14	160.8	-680.54	-552.29	5751.14	1090.14	-631.41	94.00	0.16	0.11	-0.41
		5966.00	16.64	218.96	163.5	-701.83	-569.25	5842.16	1181.16	-651.19	95.00	0.25	-0.02	0.86
		6061.00	16.91	222.17	163.5	-722.65	-587.08	5933.12	1272.12	-670.42	95.00	1.02	0.28	3.38
		6156.00	11.71	258.96	166.2	-734.76	-605.87	6025.32	1364.32	-680.91	95.00	10.76	-5.47	38.73
		6250.00	12.77	310.39	166.2	-729.85	-623.19	6117.44	1456.44	-674.54	94.00	11.28	1.13	54.71
		6345.00	20.23	336.81	168.9	-707.88	-637.70	6208.59	1547.59	-651.43	95.00	10.95	7.85	27.81
		6440.00	29.11	341.80	171.6	-670.76	-651.41	6294.84	1633.84	-613.28	95.00	9.59	9.35	5.25
		6534.00	35.62	343.40	177.0	-622.75	-666.39	6374.20	1713.20	-564.18	94.00	6.98	6.93	1.70
		6629.00	42.74	345.08	177.0	-565.01	-682.62	6447.79	1786.79	-505.28	95.00	7.58	7.49	1.77
		6723.00	51.37	347.85	179.7	-498.16	-698.59	6511.78	1850.78	-437.32	94.00	9.43	9.18	2.95
		6818.00	60.13	349.94	182.5	-421.18	-713.62	6565.20	1904.20	-359.33	95.00	9.40	9.22	2.20
		6913.00	68.60	352.69	182.5	-336.59	-726.47	6606.27	1945.27	-273.96	95.00	9.29	8.92	2.89
		7007.00	70.93	358.97	185.2	-248.68	-732.84	6638.81	1977.81	-185.83	94.00	6.74	2.48	6.68
		7102.00	80.01	2.24	185.2	-156.83	-731.82	6662.62	2001.62	-94.40	95.00	10.12	9.56	3.44
		7196.00	89.38	2.32	187.9	-63.41	-728.10	6671.30	2010.30	-1.63	94.00	9.97	9.97	0.09
		7291.00	89.01	2.83	193.3	31.48	-723.83	6672.64	2011.64	92.57	95.00	0.66	-0.39	0.54
		7385.00	89.14	0.98	196.0	125.41	-720.71	6674.16	2013.16	185.90	94.00	1.97	0.14	-1.97
		7480.00	89.88	359.36	198.7	220.40	-720.43	6674.97	2013.97	280.53	95.00	1.87	0.78	-1.71
		7575.00	89.38	359.84	187.9	315.40	-721.09	6675.58	2014.58	375.24	95.00	0.73	-0.53	0.51
		7669.00	89.14	359.64	196.0	409.39	-721.52	6676.80	2015.80	468.93	94.00	0.33	-0.26	-0.21
		7764.00	89.14	359.88	198.7	504.38	-721.91	6678.22	2017.22	563.61	95.00	0.25	-0.00	0.25
		7859.00	88.77	359.78	201.4	599.36	-722.20	6679.95	2018.95	658.28	95.00	0.40	-0.39	-0.11
		7954.00	89.11	359.10	204.1	694.34	-723.12	6681.71	2020.71	752.99	95.00	0.80	0.36	-0.72
		8048.00	88.83	359.53	204.1	788.32	-724.25	6683.40	2022.40	846.73	94.00	0.55	-0.30	0.46
		8143.00	89.02	359.55	206.8	883.30	-725.01	6685.18	2024.18	941.43	95.00	0.20	0.20	0.02
		8237.00	88.98	0.56	209.5	977.28	-724.92	6686.82	2025.82	1035.07	94.00	1.08	-0.04	1.07
		8332.00	89.01	0.94	212.2	1072.26	-723.68	6688.49	2027.49	1129.61	95.00	0.40	0.03	0.40
		8427.00	89.91	0.14	212.2	1167.25	-722.78	6689.39	2028.39	1224.18	95.00	1.27	0.95	-0.84
		8521.00	90.00	0.56	214.9	1261.25	-722.21	6689.46	2028.46	1317.79	94.00	0.46	0.10	0.45
		8616.00	90.28	1.20	214.9	1356.24	-720.75	6689.23	2028.23	1412.32	95.00	0.74	0.29	0.67
		8711.00	89.17	0.22	217.6	1451.23	-719.57	6689.68	2028.68	1506.87	95.00	1.56	-1.17	-1.03
		8806.00	89.51	0.43	217.6	1546.22	-719.03	6690.78	2029.78	1601.47	95.00	0.42	0.36	0.22
		8900.00	89.60	0.64	220.3	1640.21	-718.15	6691.51	2030.51	1695.06	94.00	0.24	0.10	0.22
		8995.00	89.69	359.24	220.3	1735.21	-718.25	6692.10	2031.10	1789.72	95.00	1.48	0.09	-1.47
		9090.00	90.00	358.88	223.0	1830.19	-719.81	6692.35	2031.35	1884.50	95.00	0.50	0.33	-0.38
		9185.00	91.20	0.13	223.0	1925.18	-720.63	6691.36	2030.36	1979.21	95.00	1.82	1.26	1.32
		9279.00	89.72	0.57	223.0	2019.17	-720.06	6690.60	2029.60	2072.82	94.00	1.64	-1.57	0.47
		9374.00	90.34	357.53	223.0	2114.15	-721.63	6690.55	2029.55	2167.59	95.00	3.27	0.65	-3.20
		9468.00	90.18	357.56	225.7	2208.06	-725.66	6690.13	2029.13	2261.51	94.00	0.17	-0.17	0.03
		9563.00	90.18	357.16	228.4	2302.96	-730.04	6689.83	2028.83	2356.44	95.00	0.42	-0.00	-0.42
		9658.00	89.72	356.84	228.4	2397.83	-735.01	6689.91	2028.91	2451.39	95.00	0.59	-0.48	-0.34
		9752.00	89.23	356.43	231.1	2491.66	-740.52	6690.77	2029.77	2545.35	94.00	0.68	-0.52	-0.44
		9847.00	89.32	358.02	231.1	2586.54	-745.12	6691.98	2030.98	2640.28	95.00	1.68	0.09	1.67
		9942.00	87.66	358.32	233.8	2681.46	-748.16	6694.48	2033.48	2735.11	95.00	1.78	-1.75	0.32
		10036.00	89.14	357.68	233.8	2775.36	-751.44	6697.10	2036.10	2828.95	94.00	1.72	1.57	-0.68
		10131.00	89.14	357.50	233.8	2870.26	-755.43	6698.53	2037.53	2923.86	95.00	0.19	-0.00	-0.19
		10226.00	90.37	357.42	233.8	2965.17	-759.64	6698.94	2037.94	3018.78	95.00	1.30	1.29	-0.08
		10320.00	90.03	357.54	233.8	3059.08	-763.77	6698.61	2037.61	3112.70	94.00	0.38	-0.36	0.13
		10415.00	89.94	357.52	236.5	3153.99	-767.87	6698.63	2037.63	3207.62	95.00	0.10	-0.09	-0.02
		10509.00	90.03	356.79	236.5	3247.87	-772.53	6698.66	2037.66	3301.56	94.00	0.78	0.10	-0.78
		10604.00	90.12	357.28	239.2	3342.74	-777.45	6698.53	2037.53	3396.51	95.00	0.52	0.09	0.52
		10698.00	90.18	356.96	239.2	3436.62	-782.17	6698.29	2037.29	3490.45	94.00	0.35	0.06	-0.34
		10793.00	90.52	357.34	239.2	3531.50	-786.89	6697.71	2036.71	3585.39	95.00	0.54	0.36	0.40
		10888.00	89.78	356.61	241.9	3626.37	-791.91	6697.46	2036.46	3680.34	95.00	1.09	-0.78	-0.77
		10982.00	90.12	0.95	241.9	3720.33	-793.91	6697.54	2036.54	3774.13	94.00	4.63	0.36	4.62
		11077.00	89.94	0.12	241.9	3815.32	-793.02	6697.49	2036.49	3868.71	95.00	0.89	-0.19	-0.87
		11202.00	90.28	0.37	236.5	3940.32	-792.49	6697.25	2036.25	3993.21	125.00	0.34	0.27	0.20
		11296.00	90.25	0.34	236.5	4034.32	-791.90	6696.81	2035.81	4086.83	94.00	0.05	-0.03	-0.03
		11391.00	90.03	359.95	239.2	4129.32	-791.66	6696.58	2035.58	4181.46	95.00	0.47	-0.23	-0.41
		11486.00	90.12	359.98	239.2	4224.32	-791.72	6696.46	2035.46	4276.13	95.00	0.10	0.09	0.03

	11580.00	90.09	0.58	241.9	4318.31	-791.26	6696.29	2035.29	4369.75	94.00	0.64	-0.03	0.64
	11675.00	89.35	0.87	241.9	4413.31	-790.06	6696.75	2035.75	4464.30	95.00	0.84	-0.78	0.31
	11769.00	89.72	359.77	244.6	4507.30	-789.53	6697.51	2036.51	4557.91	94.00	1.23	0.39	-1.17
	11864.00	90.65	0.41	244.6	4602.30	-789.39	6697.21	2036.21	4652.56	95.00	1.19	0.98	0.67
	11958.00	90.80	359.83	244.6	4696.29	-789.19	6696.02	2035.02	4746.20	94.00	0.64	0.16	-0.62
	12053.00	89.97	359.89	247.3	4791.29	-789.42	6695.38	2034.38	4840.87	95.00	0.88	-0.87	0.06
	12148.00	90.46	359.62	250.0	4886.28	-789.83	6695.02	2034.02	4935.57	95.00	0.59	0.52	-0.28
	12242.00	89.78	0.43	250.0	4980.28	-789.79	6694.83	2033.83	5029.22	94.00	1.13	-0.72	0.86
	12337.00	90.43	0.50	250.0	5075.28	-789.01	6694.65	2033.65	5123.82	95.00	0.69	0.68	0.07
	12431.00	90.58	359.82	250.0	5169.27	-788.75	6693.82	2032.82	5217.45	94.00	0.74	0.16	-0.72
	12526.00	90.80	0.20	252.7	5264.27	-788.74	6692.68	2031.68	5312.10	95.00	0.46	0.23	0.40
	12621.00	90.65	0.53	252.7	5359.26	-788.13	6691.48	2030.48	5406.70	95.00	0.38	-0.16	0.35
	12715.00	91.38	0.46	252.7	5453.24	-787.32	6689.81	2028.81	5500.28	94.00	0.78	0.78	-0.07
	12810.00	90.03	0.13	328.4	5548.23	-786.83	6688.64	2027.64	5594.89	95.00	1.46	-1.42	-0.35
	12999.00	90.06	359.87	255.4	5737.23	-786.83	6688.49	2027.49	5783.21	189.00	0.14	0.02	-0.14
	13094.00	90.22	359.85	255.4	5832.23	-787.06	6688.26	2027.26	5877.89	95.00	0.17	0.17	-0.02
	13188.00	90.40	0.13	258.1	5926.22	-787.08	6687.75	2026.75	5971.55	94.00	0.35	0.19	0.30
	13283.00	90.15	0.20	258.1	6021.22	-786.80	6687.30	2026.30	6066.19	95.00	0.27	-0.26	0.07
	13377.00	90.18	0.71	260.8	6115.22	-786.06	6687.03	2026.03	6159.78	94.00	0.54	0.03	0.54
	13472.00	90.34	0.19	260.8	6210.22	-785.31	6686.60	2025.60	6254.38	95.00	0.57	0.17	-0.55
	13567.00	88.98	0.43	260.8	6305.21	-784.80	6687.16	2026.16	6348.99	95.00	1.45	-1.43	0.25
	13661.00	90.15	0.11	260.8	6399.20	-784.35	6687.87	2026.87	6442.61	94.00	1.29	1.24	-0.34
	13756.00	90.15	0.13	260.8	6494.20	-784.16	6687.62	2026.62	6537.25	95.00	0.02	0.00	0.02
	13851.00	90.00	0.70	263.5	6589.20	-783.47	6687.50	2026.50	6631.85	95.00	0.62	-0.16	0.60
	14040.00	90.06	4.95	260.8	6777.93	-774.15	6687.40	2026.40	6819.11	189.00	2.25	0.03	2.25
	14134.00	90.06	0.77	263.5	6871.79	-769.47	6687.30	2026.30	6912.24	94.00	4.45	-0.00	-4.45
	14229.00	90.25	0.77	258.1	6966.78	-768.19	6687.05	2026.05	7006.78	95.00	0.20	0.20	0.00
	14324.00	90.18	0.75	263.5	7061.77	-766.93	6686.69	2025.69	7101.33	95.00	0.08	-0.07	-0.02
	14418.00	90.09	358.95	263.5	7155.77	-767.18	6686.47	2025.47	7195.01	94.00	1.92	-0.10	-1.91
	14608.00	90.15	358.86	260.8	7345.73	-770.81	6686.07	2025.07	7384.60	190.00	0.06	0.03	-0.05
	14702.00	89.94	358.81	260.8	7439.71	-772.72	6686.00	2025.00	7478.41	94.00	0.23	-0.22	-0.05
	14797.00	90.22	358.08	263.5	7534.68	-775.30	6685.86	2024.86	7573.25	95.00	0.82	0.29	-0.77
	14892.00	89.75	358.33	263.5	7629.63	-778.27	6685.89	2024.89	7668.11	95.00	0.56	-0.49	0.26
	14987.00	89.85	357.79	260.8	7724.57	-781.49	6686.22	2025.22	7762.99	95.00	0.58	0.11	-0.57
	15081.00	89.97	358.27	266.2	7818.52	-784.72	6686.37	2025.37	7856.87	94.00	0.53	0.13	0.51
	15176.00	89.72	357.51	260.8	7913.45	-788.22	6686.62	2025.62	7951.76	95.00	0.84	-0.26	-0.80
	15270.00	89.57	356.58	260.8	8007.33	-793.06	6687.21	2026.21	8045.71	94.00	1.00	-0.16	-0.99
	15365.00	89.63	354.80	260.8	8102.05	-800.20	6687.87	2026.87	8140.70	95.00	1.87	0.06	-1.87
	15554.00	89.88	357.66	258.1	8290.62	-812.63	6688.68	2027.68	8329.64	189.00	1.52	0.13	1.51
	15649.00	89.32	359.80	260.8	8385.59	-814.73	6689.34	2028.34	8424.45	95.00	2.33	-0.59	2.25
	15743.00	89.94	359.97	263.5	8479.59	-814.92	6689.95	2028.95	8518.12	94.00	0.68	0.66	0.18
	15838.00	90.12	359.84	266.2	8574.59	-815.08	6689.90	2028.90	8612.80	95.00	0.23	0.19	-0.14
	15933.00	90.15	0.86	260.8	8669.58	-814.50	6689.68	2028.68	8707.40	95.00	1.07	0.03	1.07
	16027.00	89.97	0.39	260.8	8763.58	-813.47	6689.58	2028.58	8800.98	94.00	0.54	-0.19	-0.50
	16217.00	89.78	1.23	260.8	8953.56	-810.79	6689.99	2028.99	8990.05	190.00	0.45	-0.10	0.44
	16406.00	89.48	1.49	258.1	9142.50	-806.30	6691.21	2030.21	9177.93	189.00	0.21	-0.16	0.14
	16500.00	90.15	0.89	263.5	9236.48	-804.35	6691.52	2030.52	9271.41	94.00	0.96	0.71	-0.64
	16689.00	90.31	0.05	260.8	9425.47	-802.80	6690.76	2029.76	9459.59	189.00	0.45	0.08	-0.44
	16784.00	90.18	0.52	260.8	9520.46	-802.33	6690.35	2029.35	9554.21	95.00	0.51	-0.14	0.49
	16879.00	90.28	0.65	263.5	9615.46	-801.36	6689.97	2028.97	9648.78	95.00	0.17	0.11	0.14
Projection	17038.00	90.28	0.65	N/A	9774.45	-799.55	6689.19	2028.19	9807.05	159.00	0.00	0.00	-0.00