

2019-04-15 18:00	1	6811.00	Diesel-Oil Based Mud	9.0	15	N/A	N/A	67/23.5	Active Pit	33000	0.00
2019-04-16 07:00	1	12109.00	Diesel-Oil Based Mud	9.1	15	N/A	N/A	67/23.5	Active Pit	33000	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	EvoOne	14718056	Gamma (single)	8.76	49.85	6.500	2.750
1	EvoOne	14718056	Directional (mag)	9.95	51.04	6.500	2.750

Service and Tool Mnemonics

Mnemonic	Name	Description
MWD	EvoOne - Dir Gamma	EvoOne

Comments

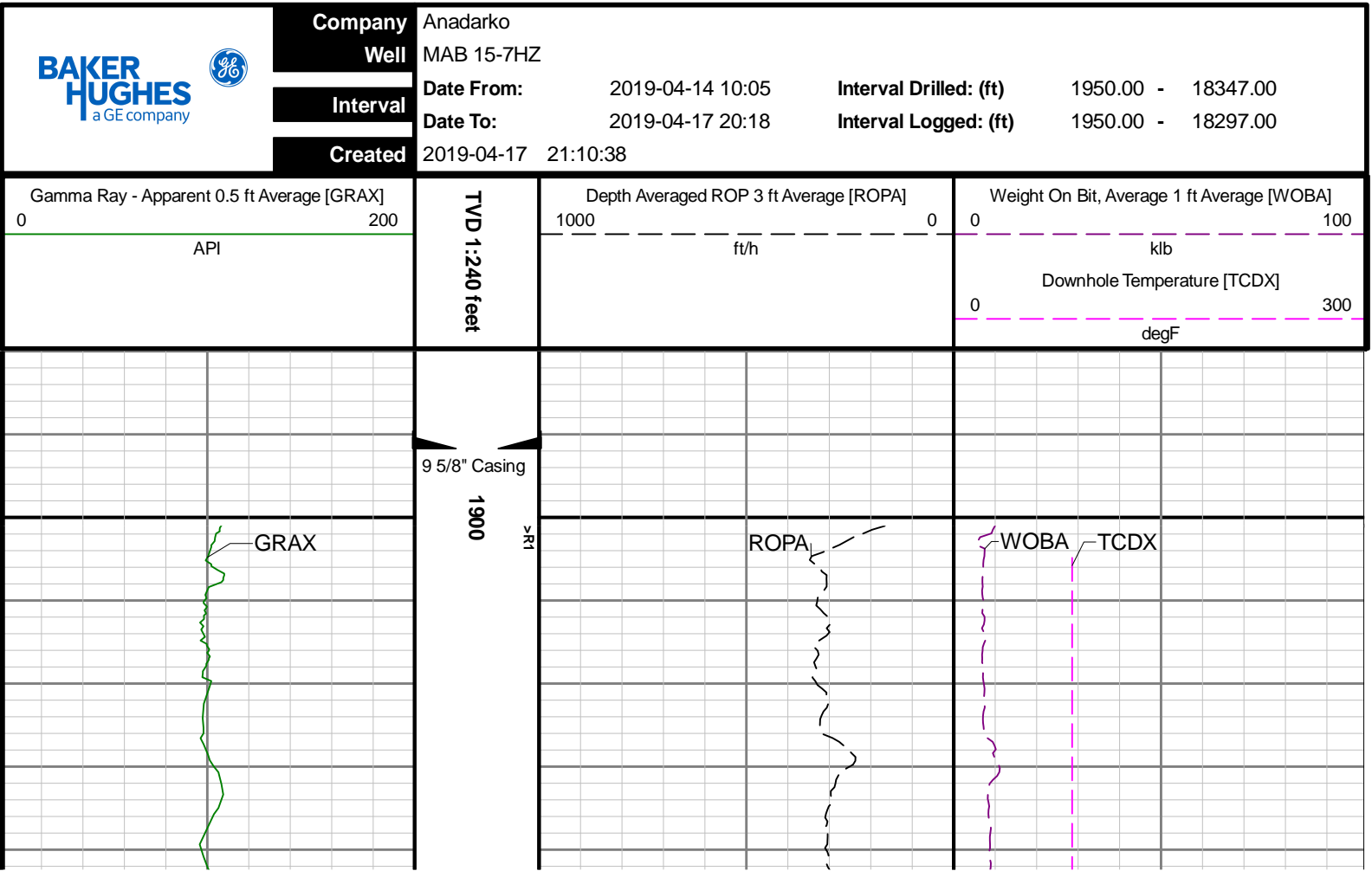
- Depth measurements were obtained from a depth control system not supplied by Baker Hughes. Due to lack of control by Baker Hughes logging engineers depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to represent logging data.
- Baker Hughes Runs 1 utilized 6 1/2 inch Evo One services (Directional and Gamma Ray) behind a 7 7/8 inch bit and steerable assembly from 1950 to 18347 feet MD (1901 to 7462 feet TVD).
- Gamma Ray (GRAX) scale is presented from a 0 to 200 API scale at the request of the customer.

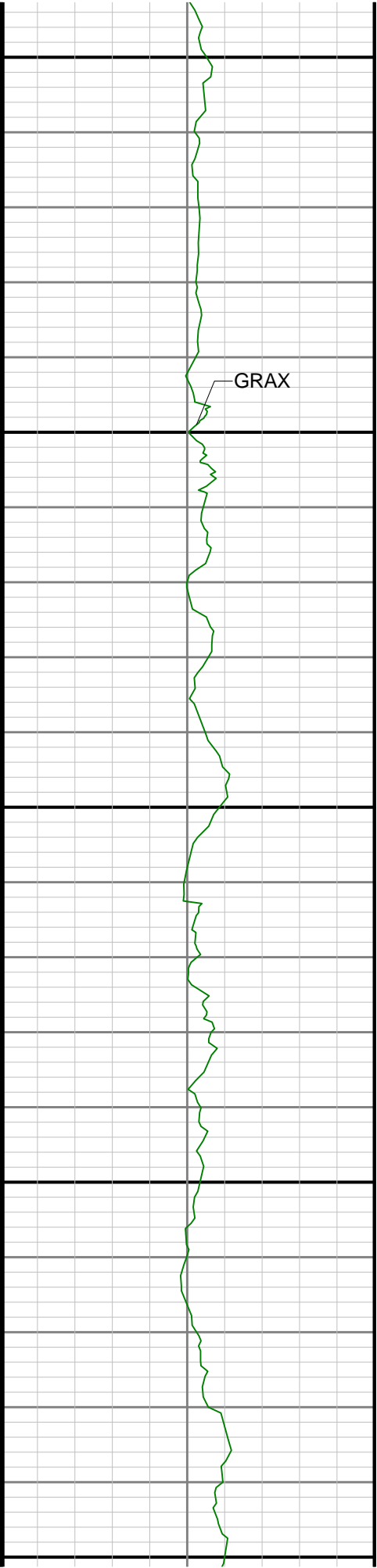
Remarks

Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	3600.00	7.875	1	The interval from 3577 to 3648 feet MD (3386 to 3450 feet TVD) was not logged due to surface gear problem.

Curve Mnemonics

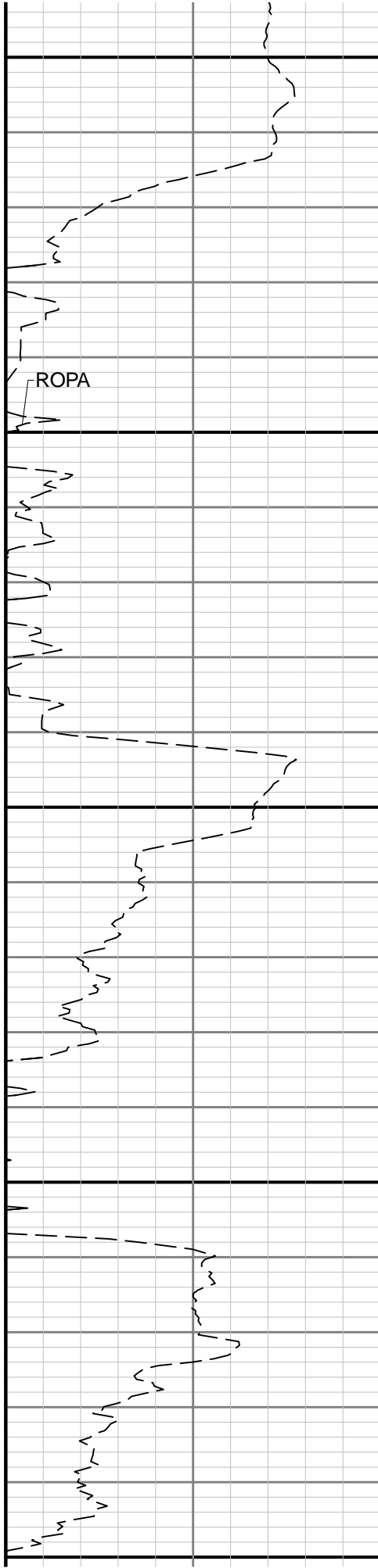
Presented Curves	Description	Units
TCDX	Downhole Temperature	degF
ROPA	Depth Averaged ROP 3 ft Average	ft/h
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAX	Gamma Ray - Apparent - Real-Time 0.5 ft Average	API



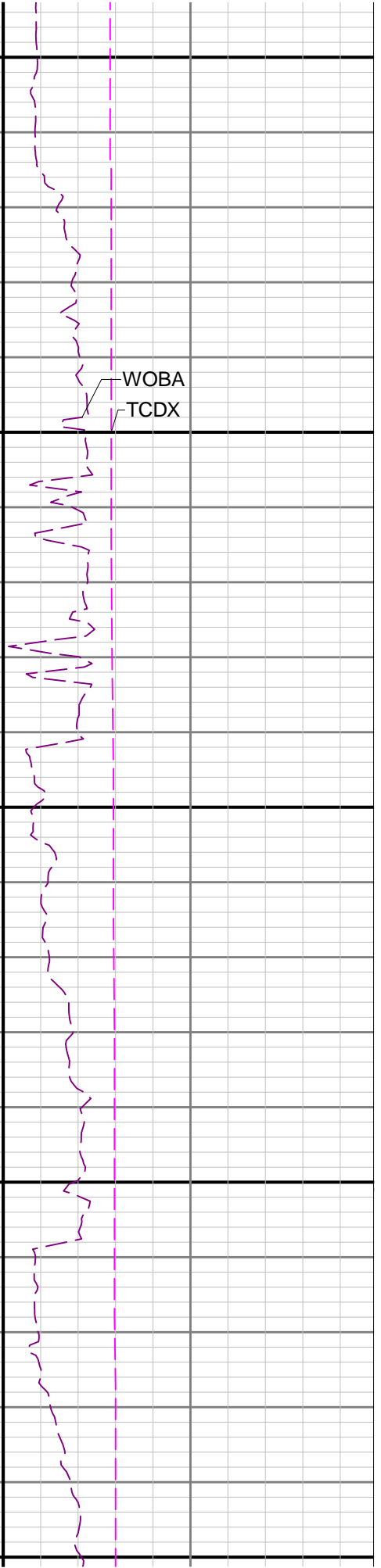


2000

2100

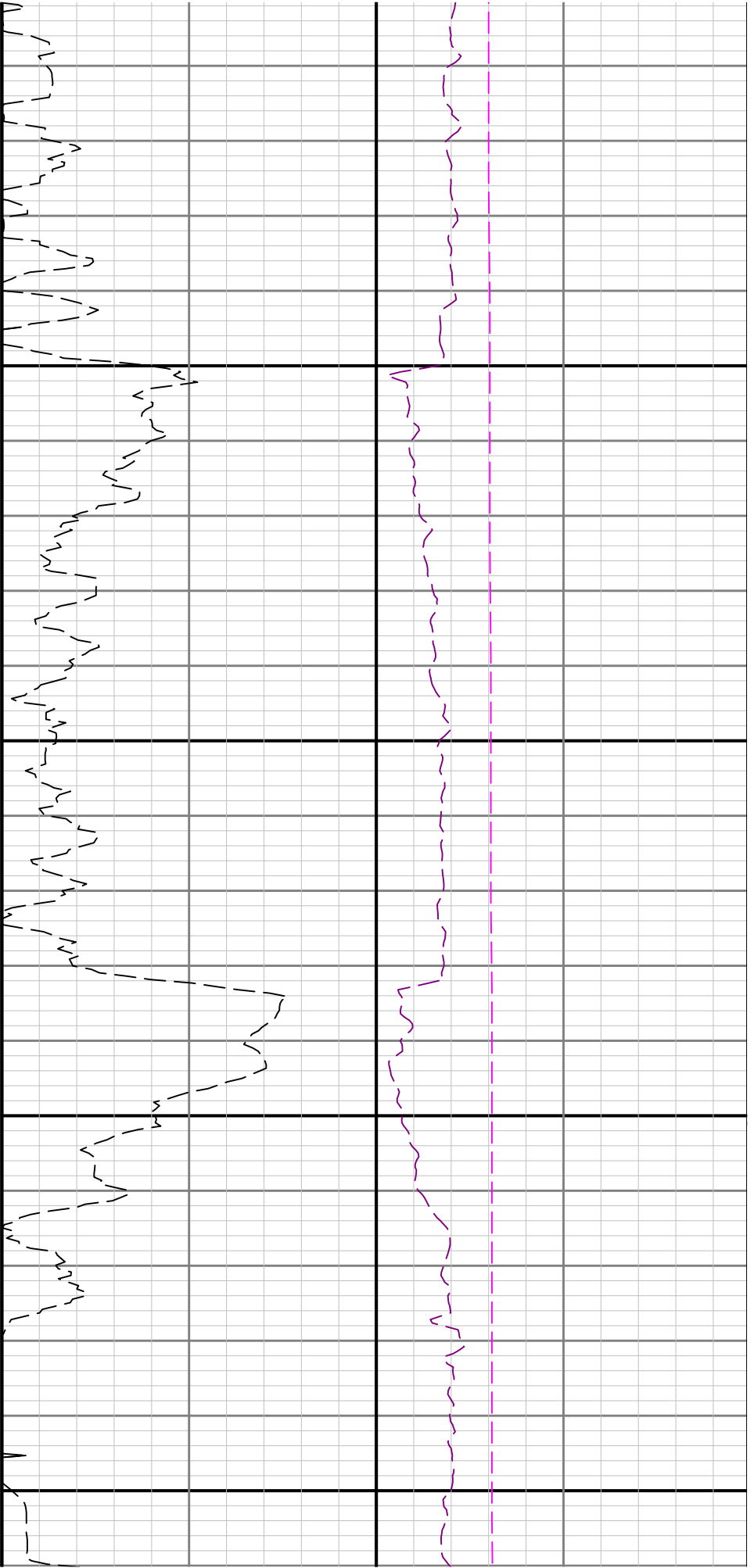


ROPA



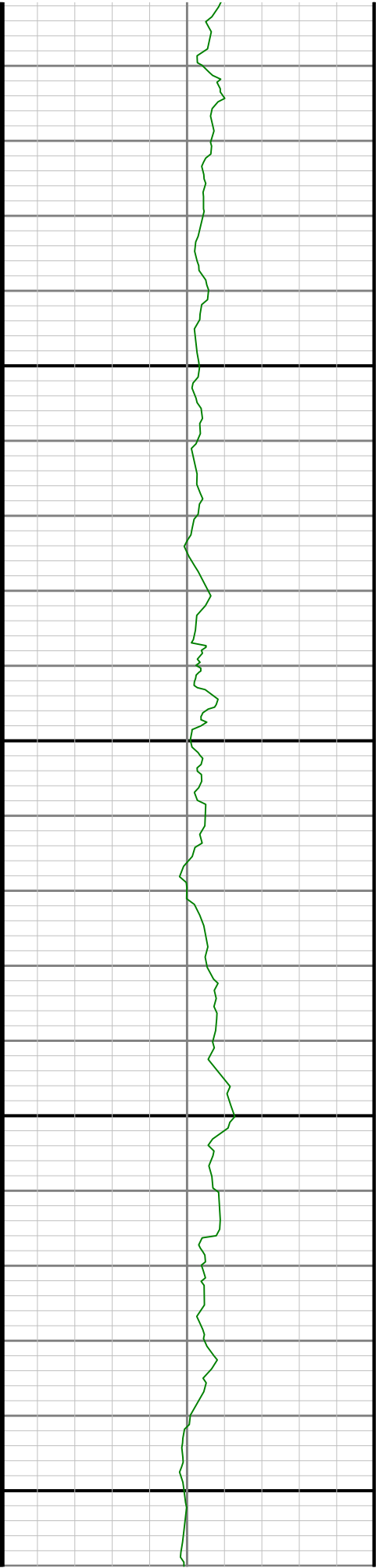
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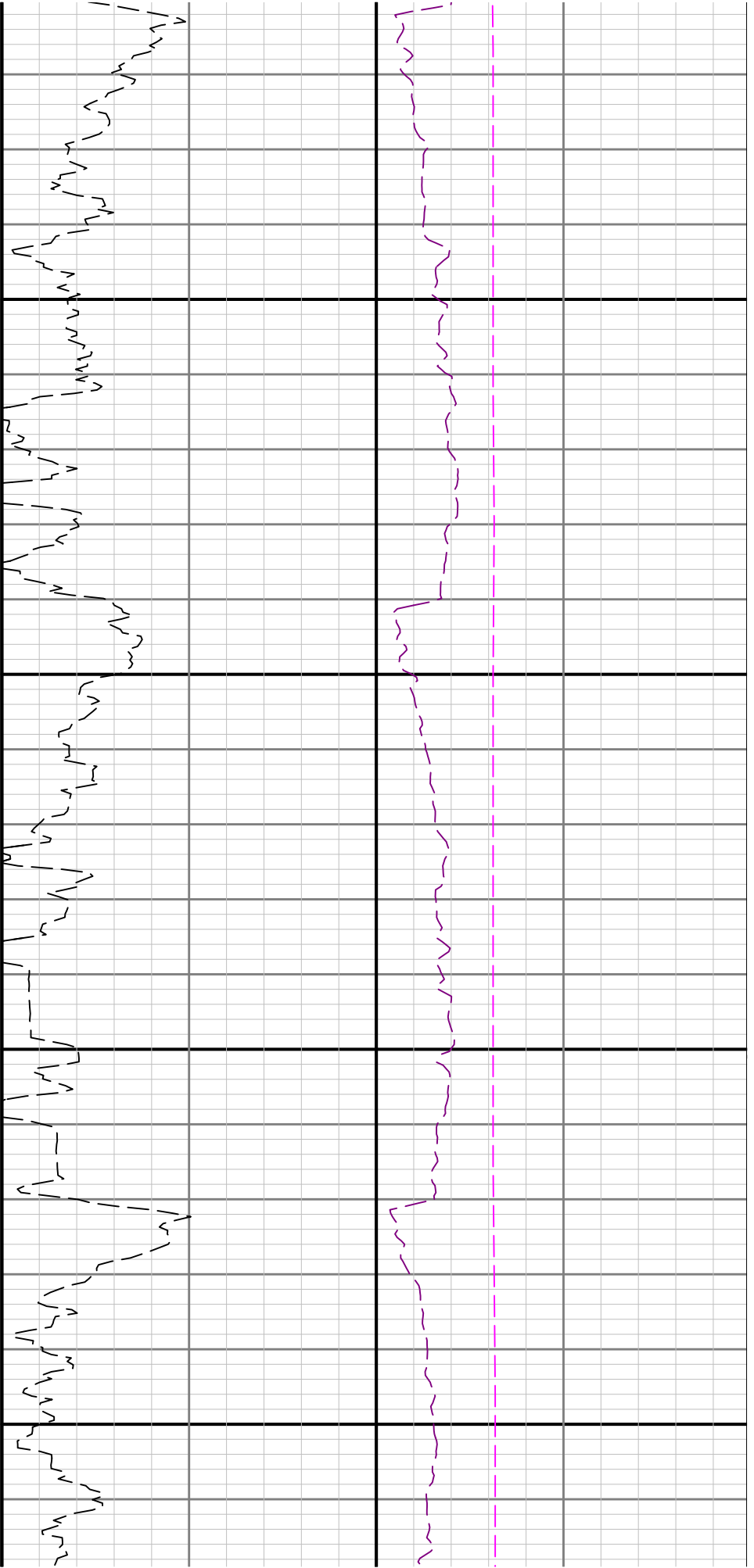
TCDX



2200

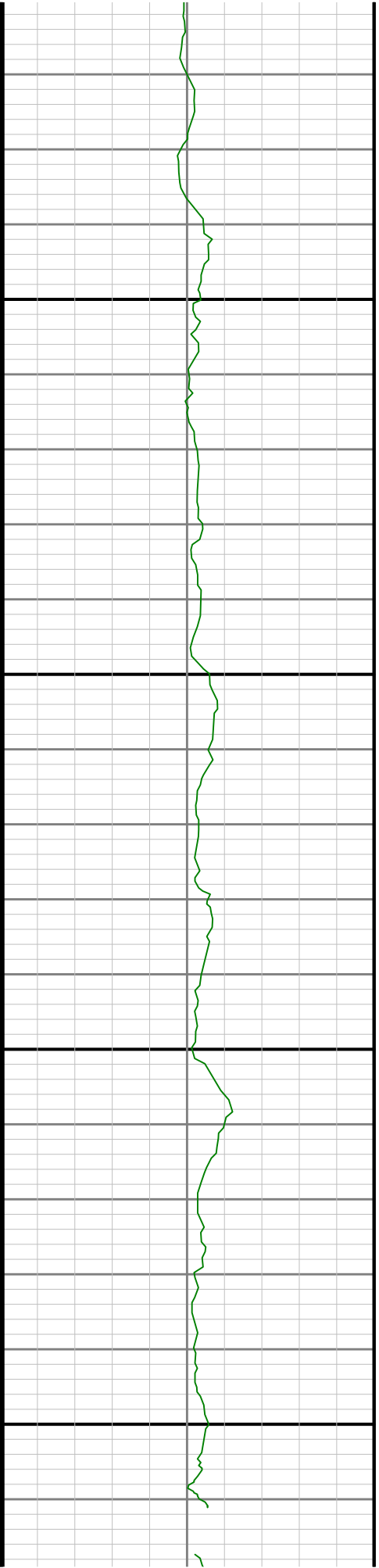
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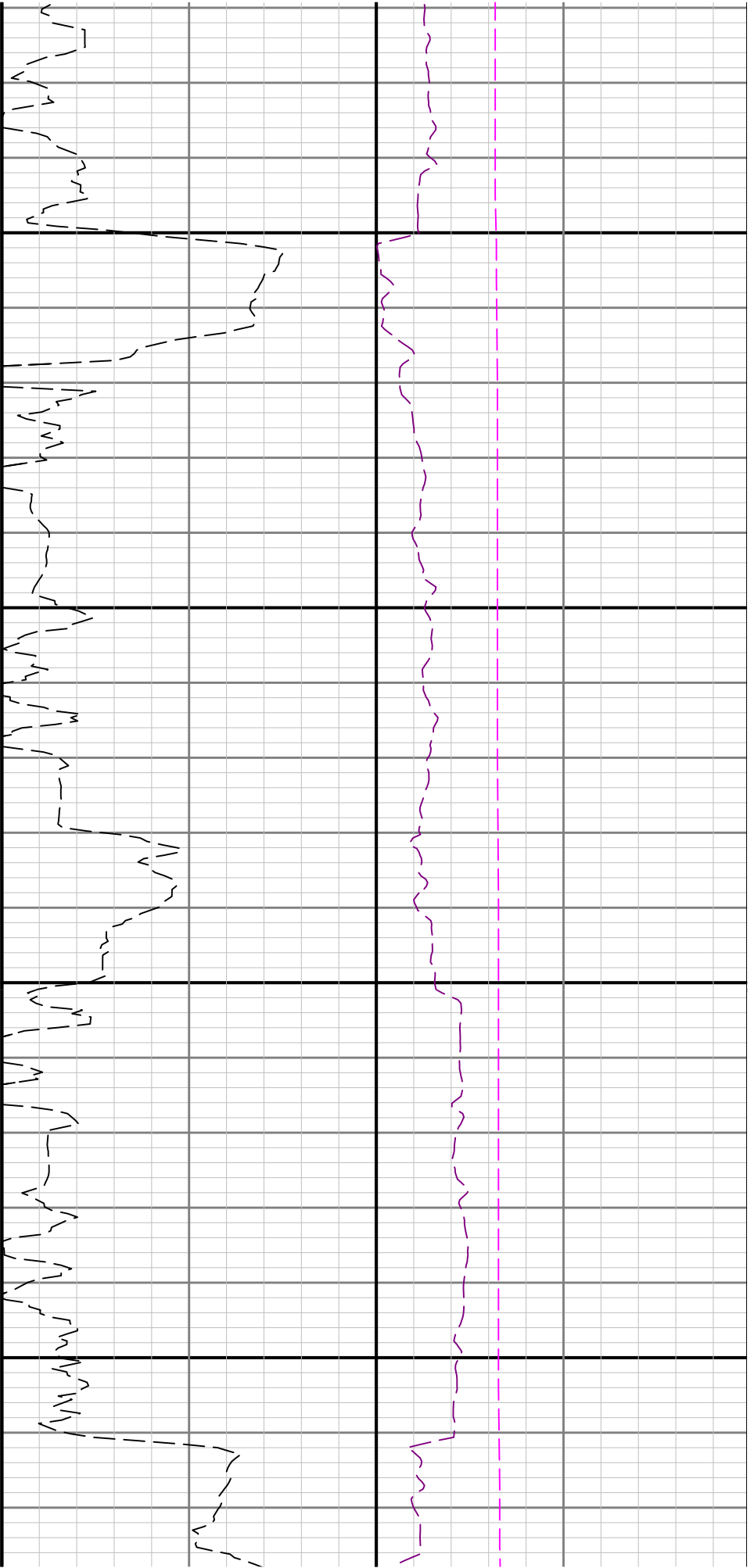




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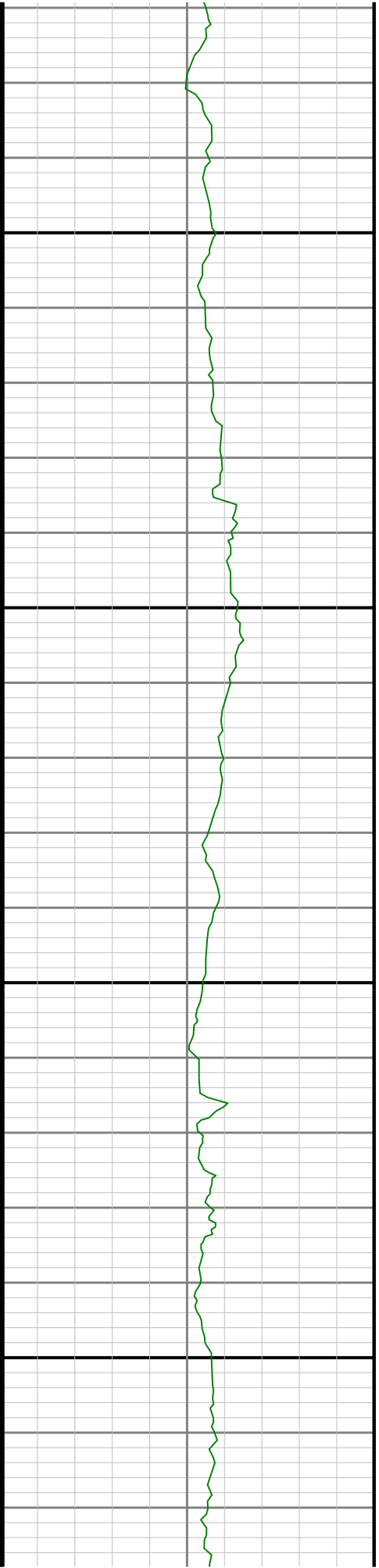
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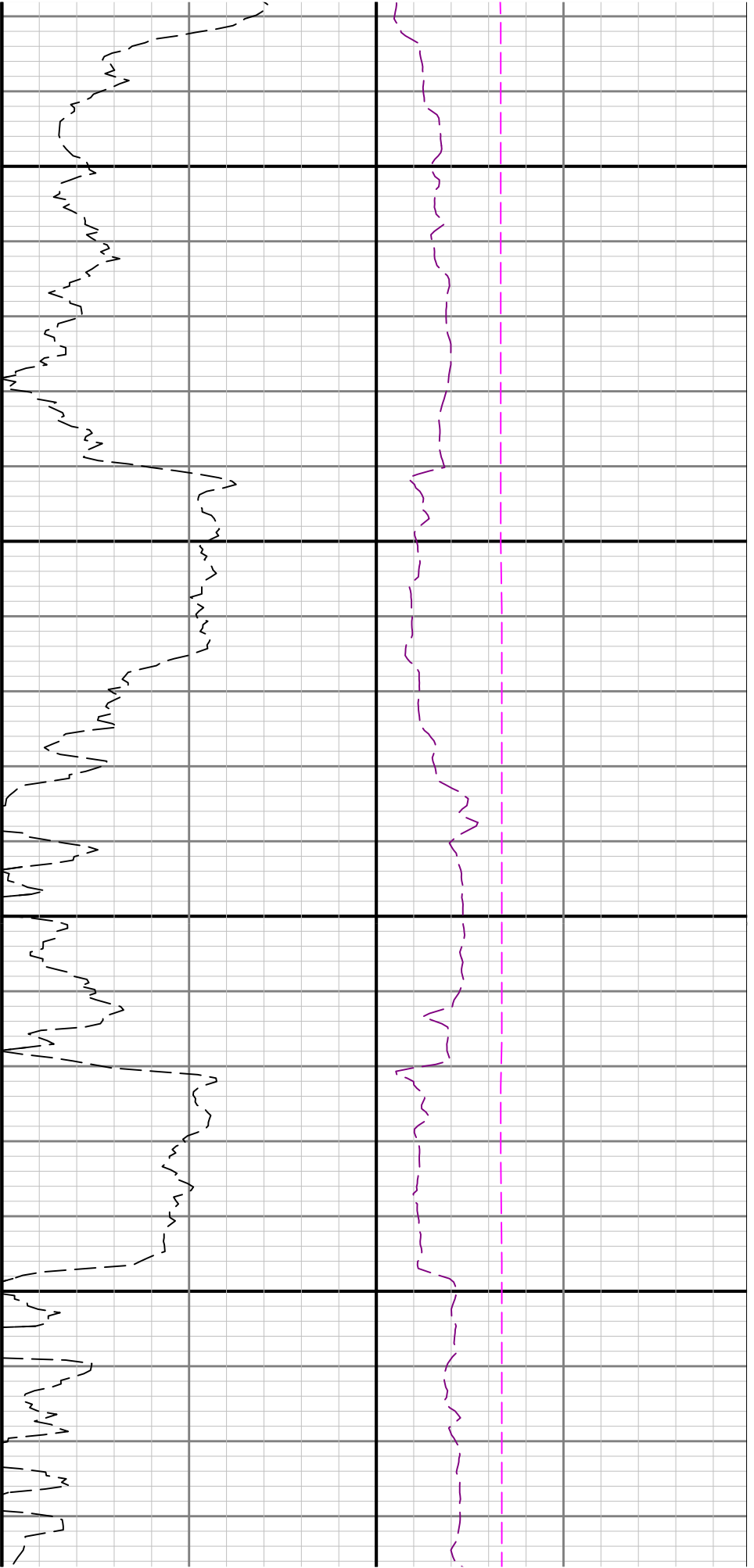




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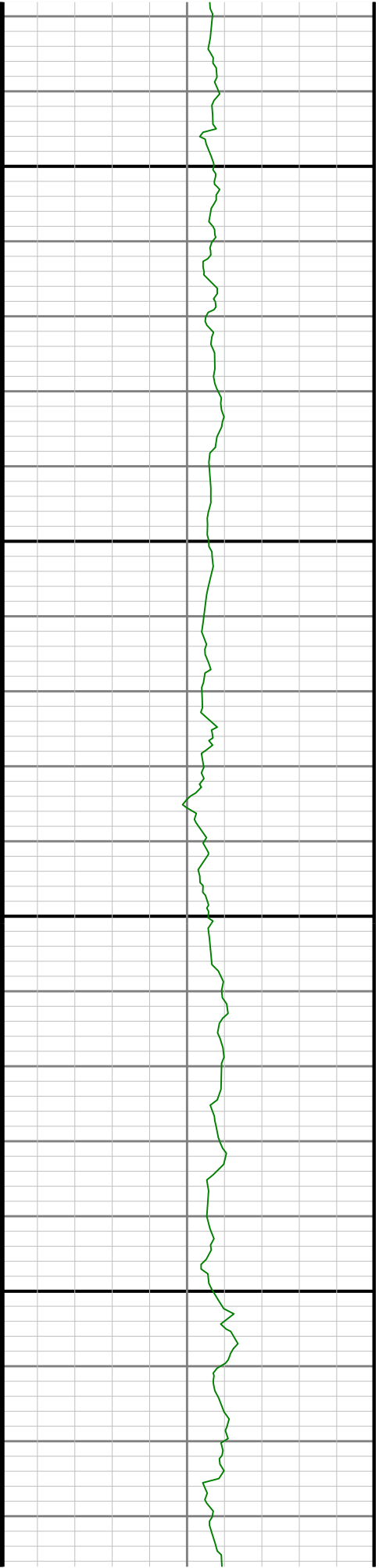
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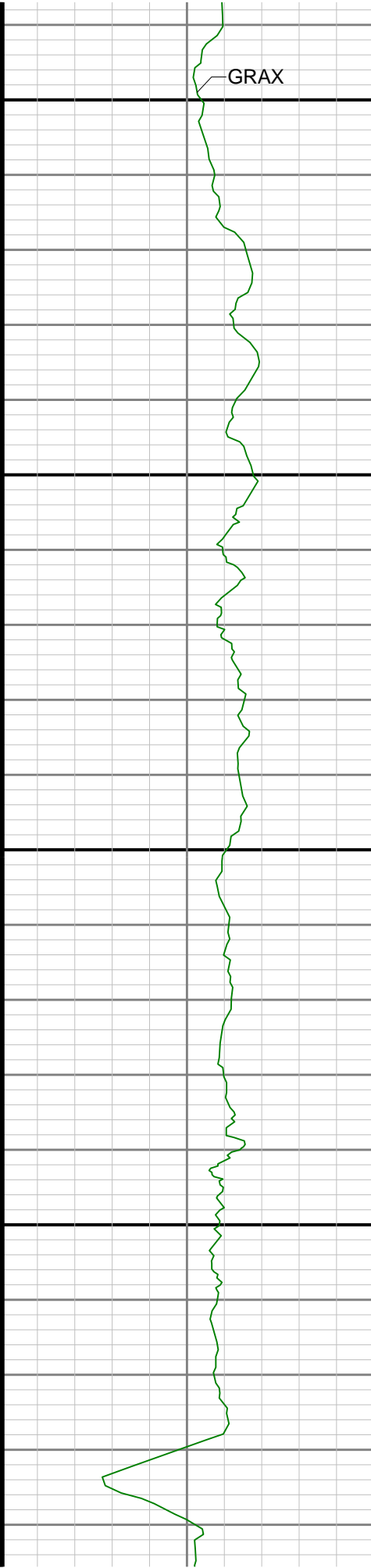




2800

2900

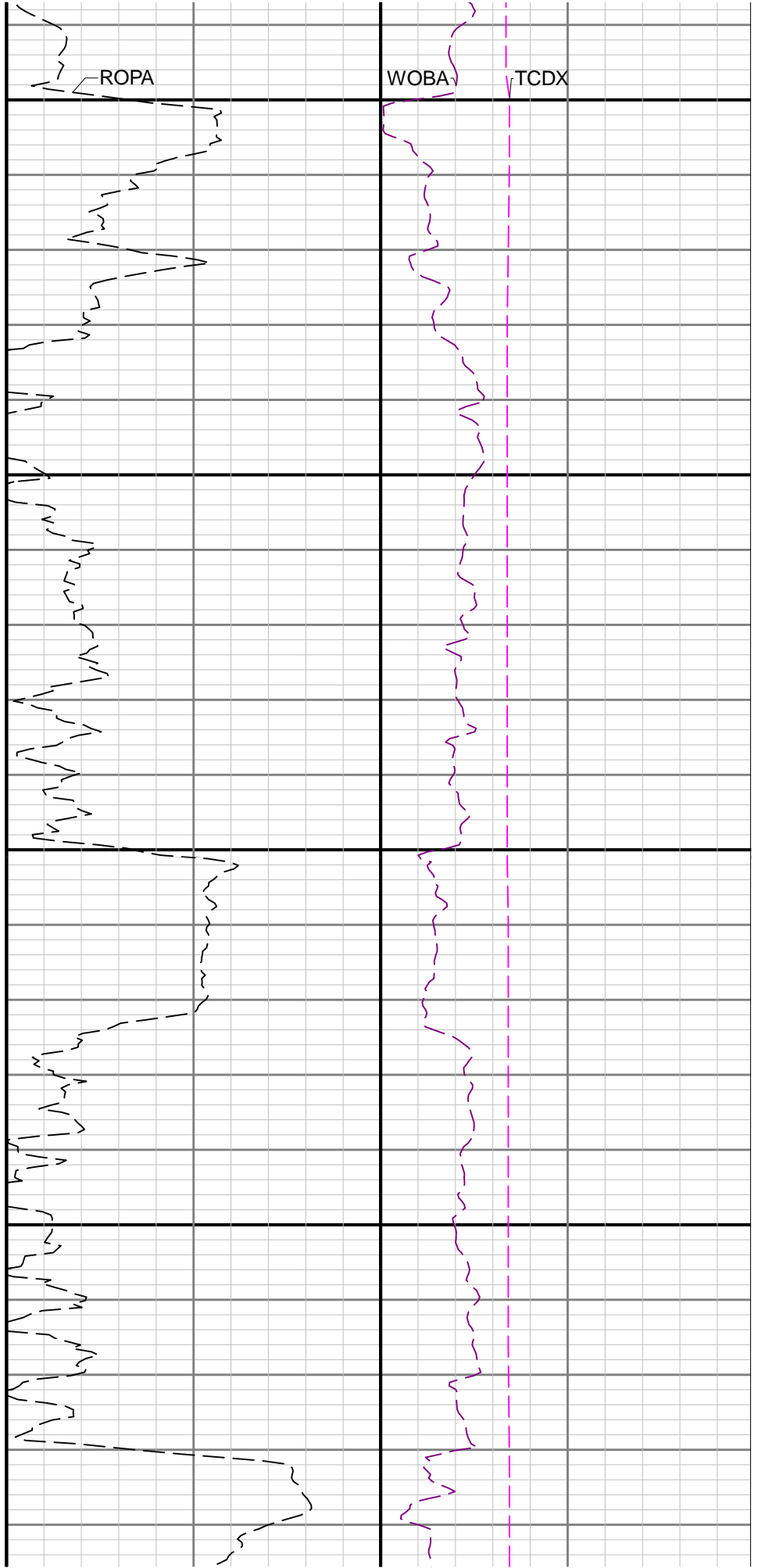




GRAX

3000

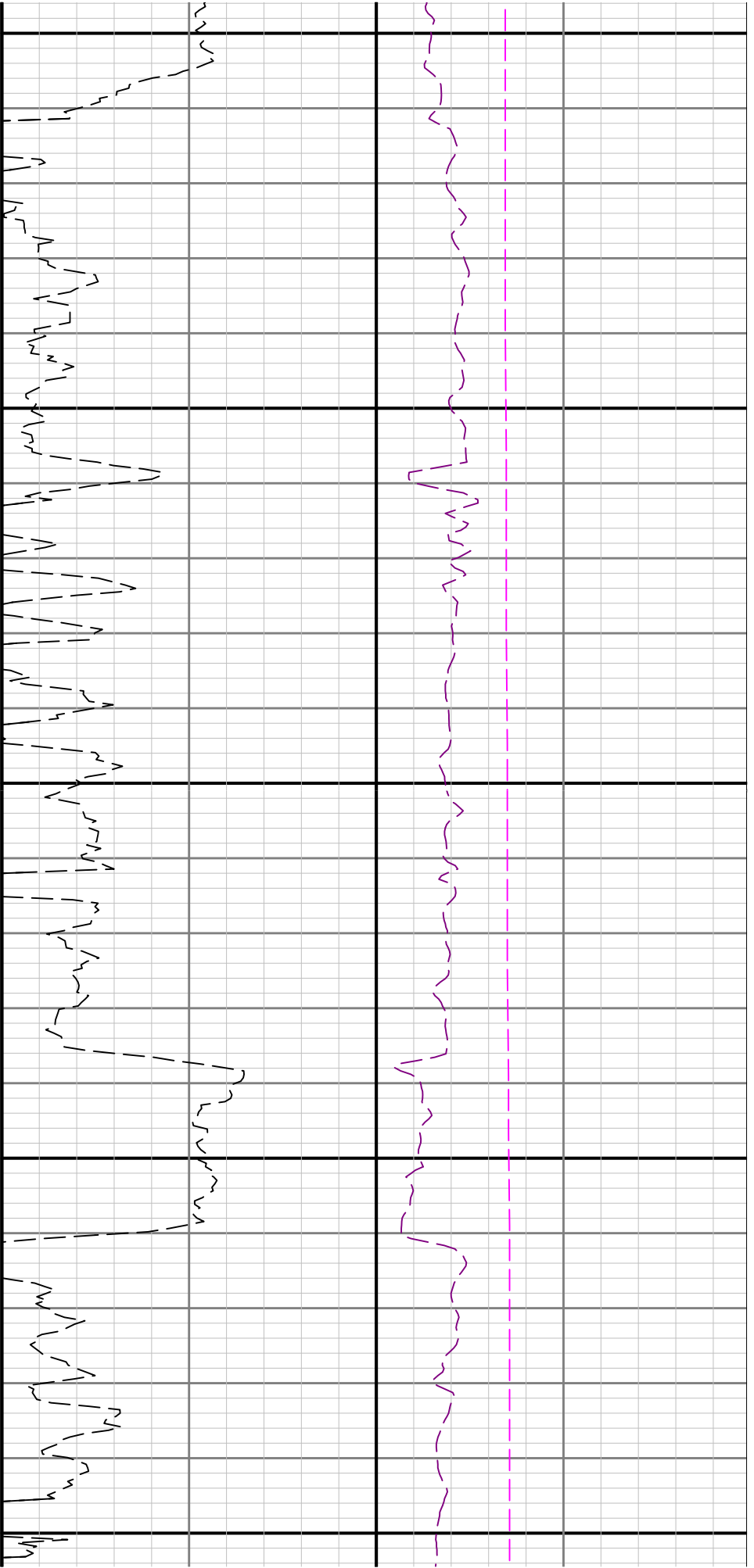
3100



ROPA

WOBA

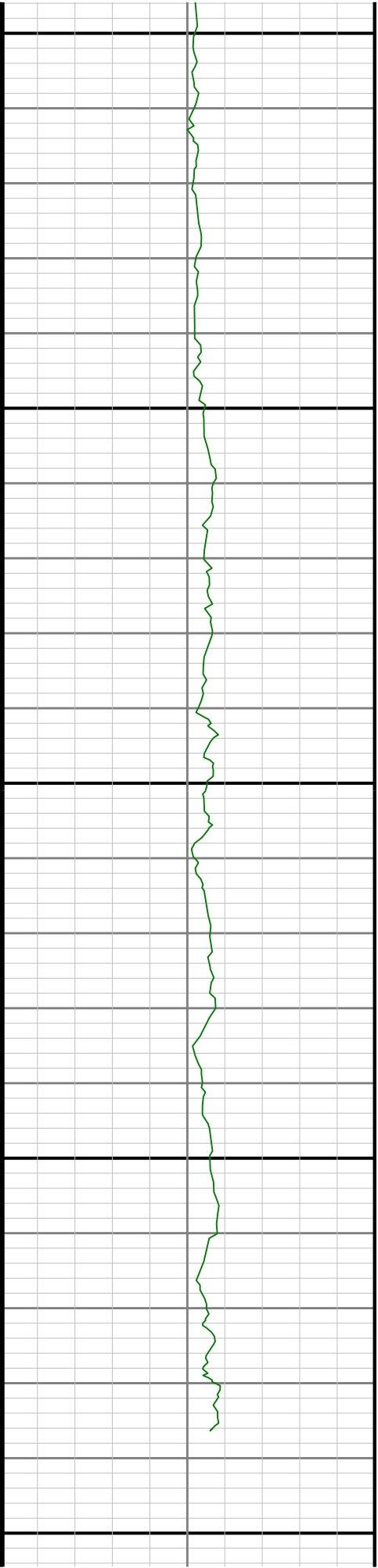
TCDX



3200

3300

3400

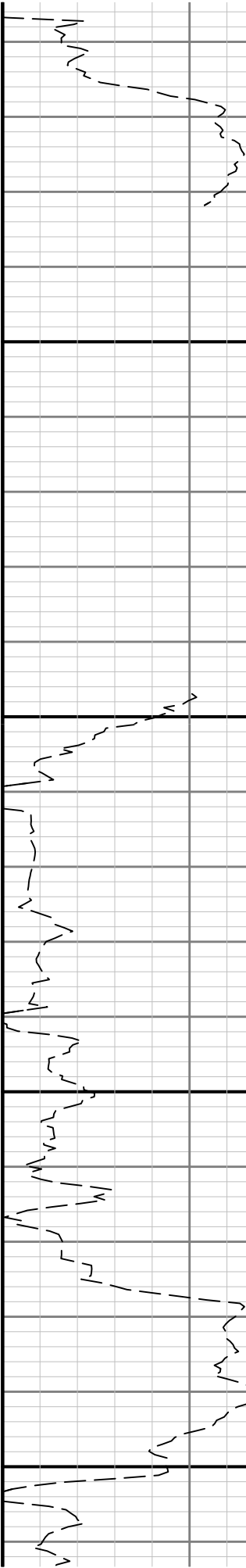


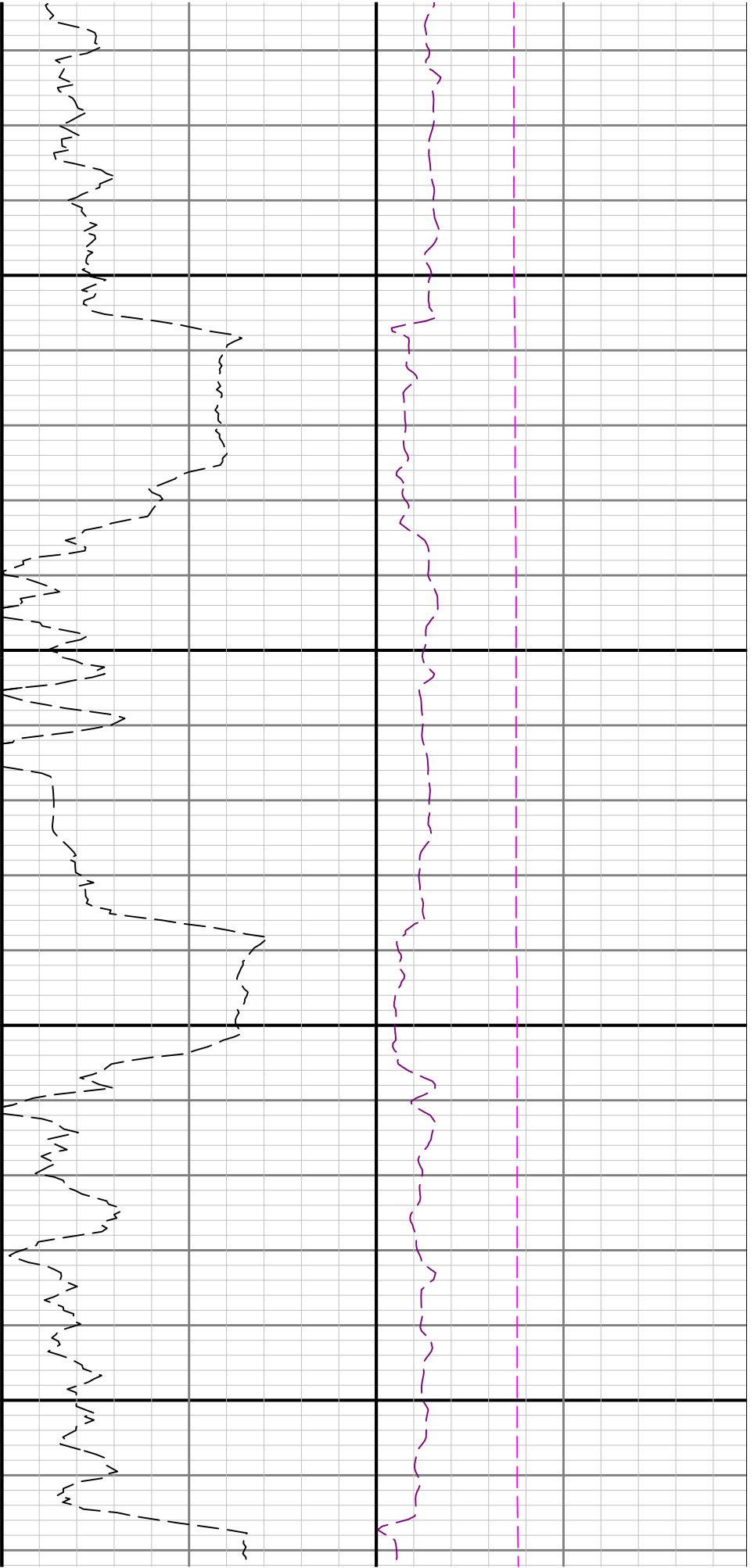
See Remark 1



3500

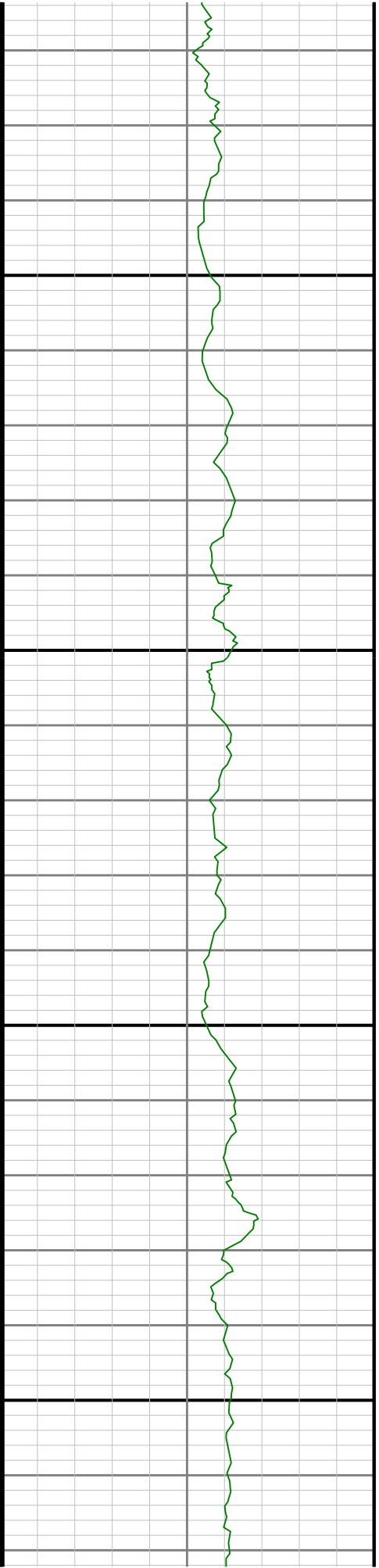
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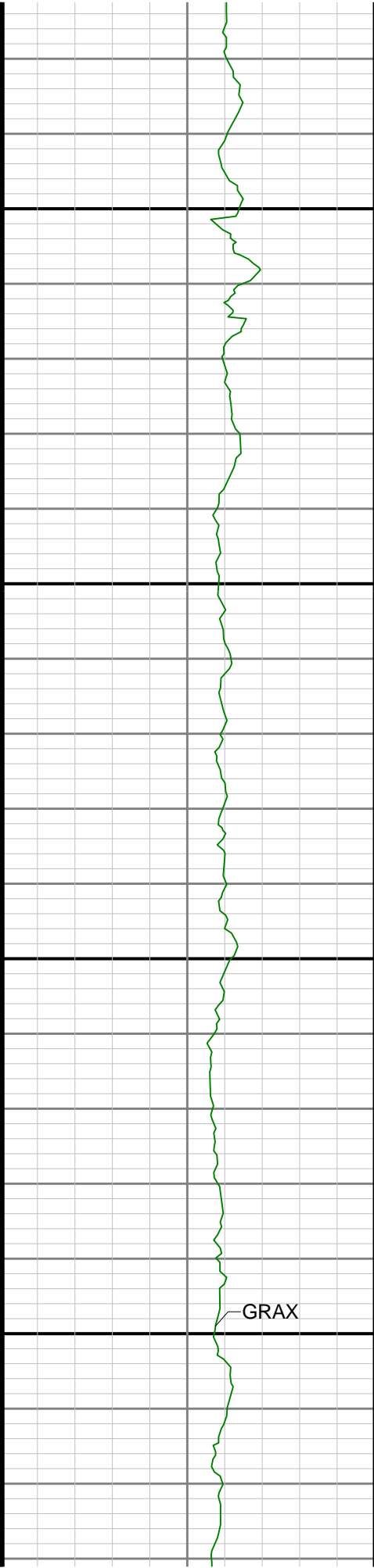




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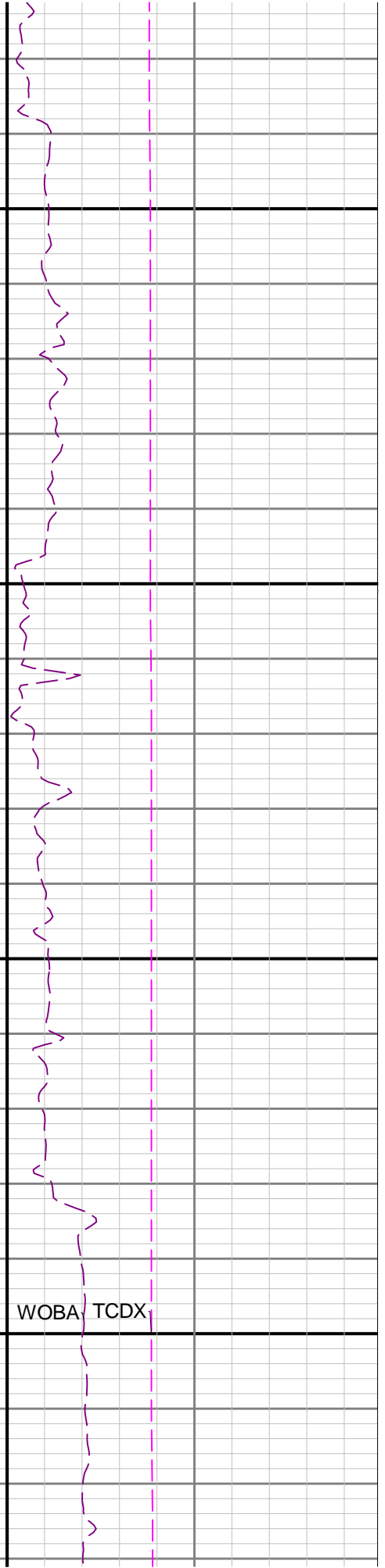
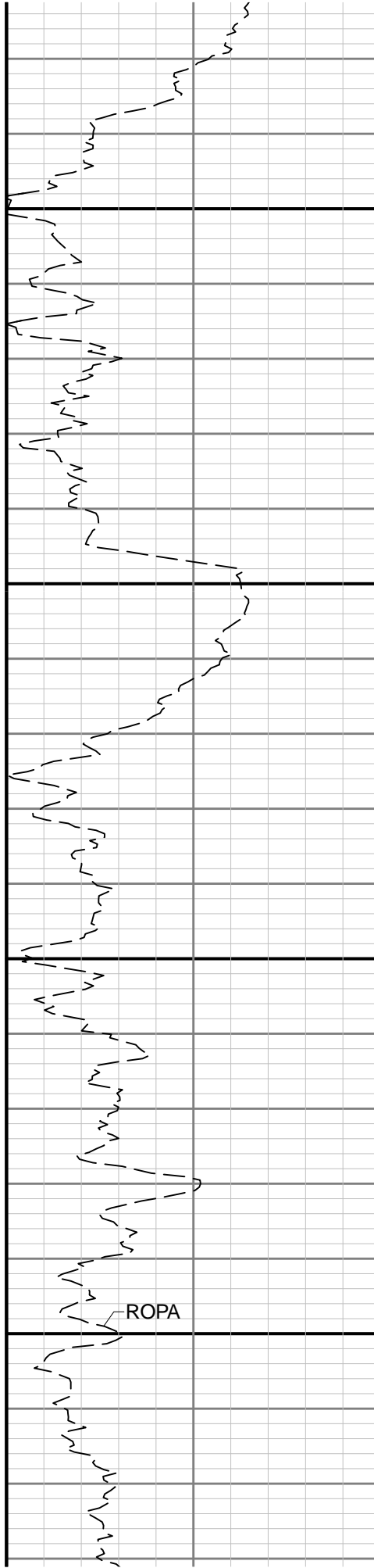
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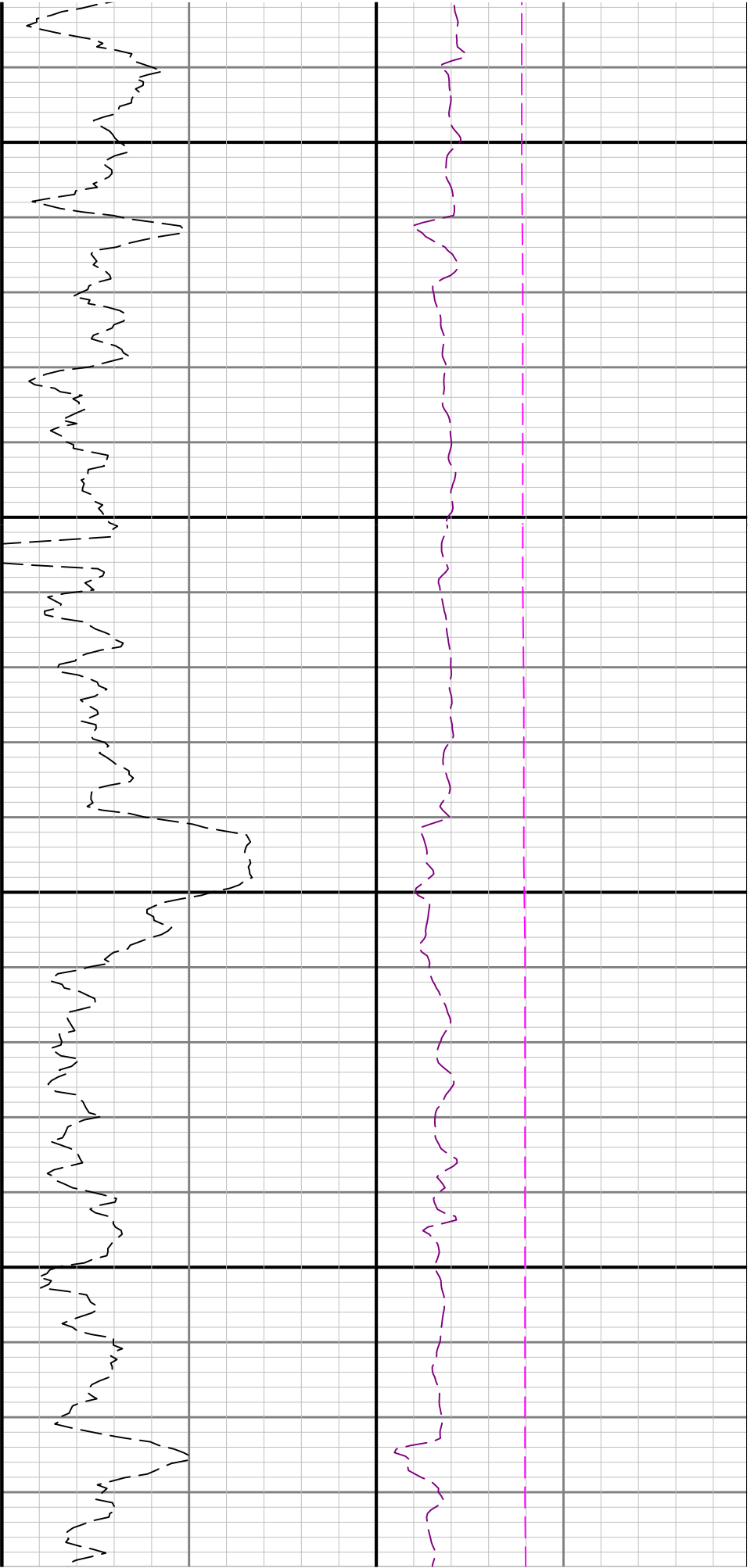




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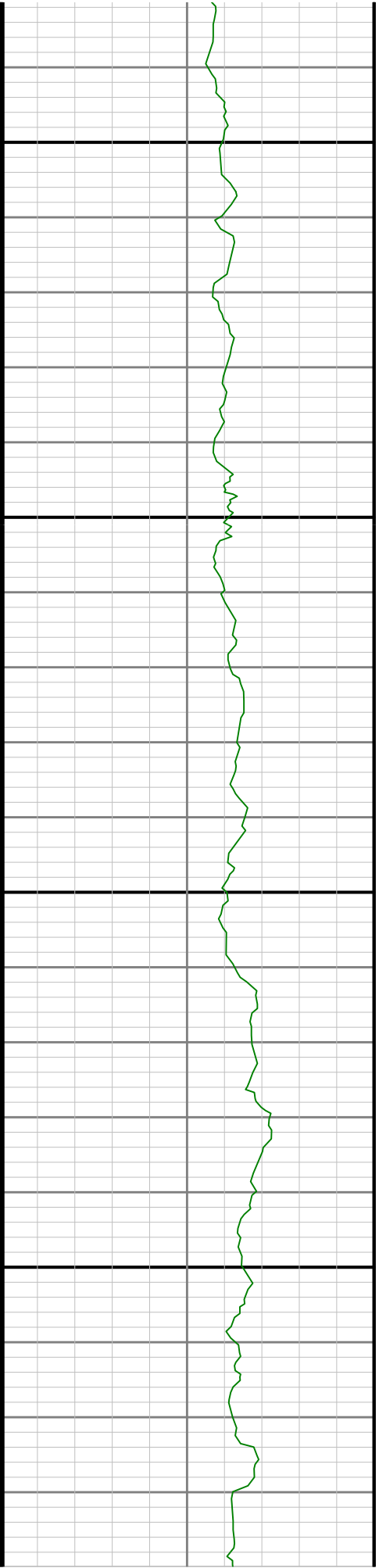
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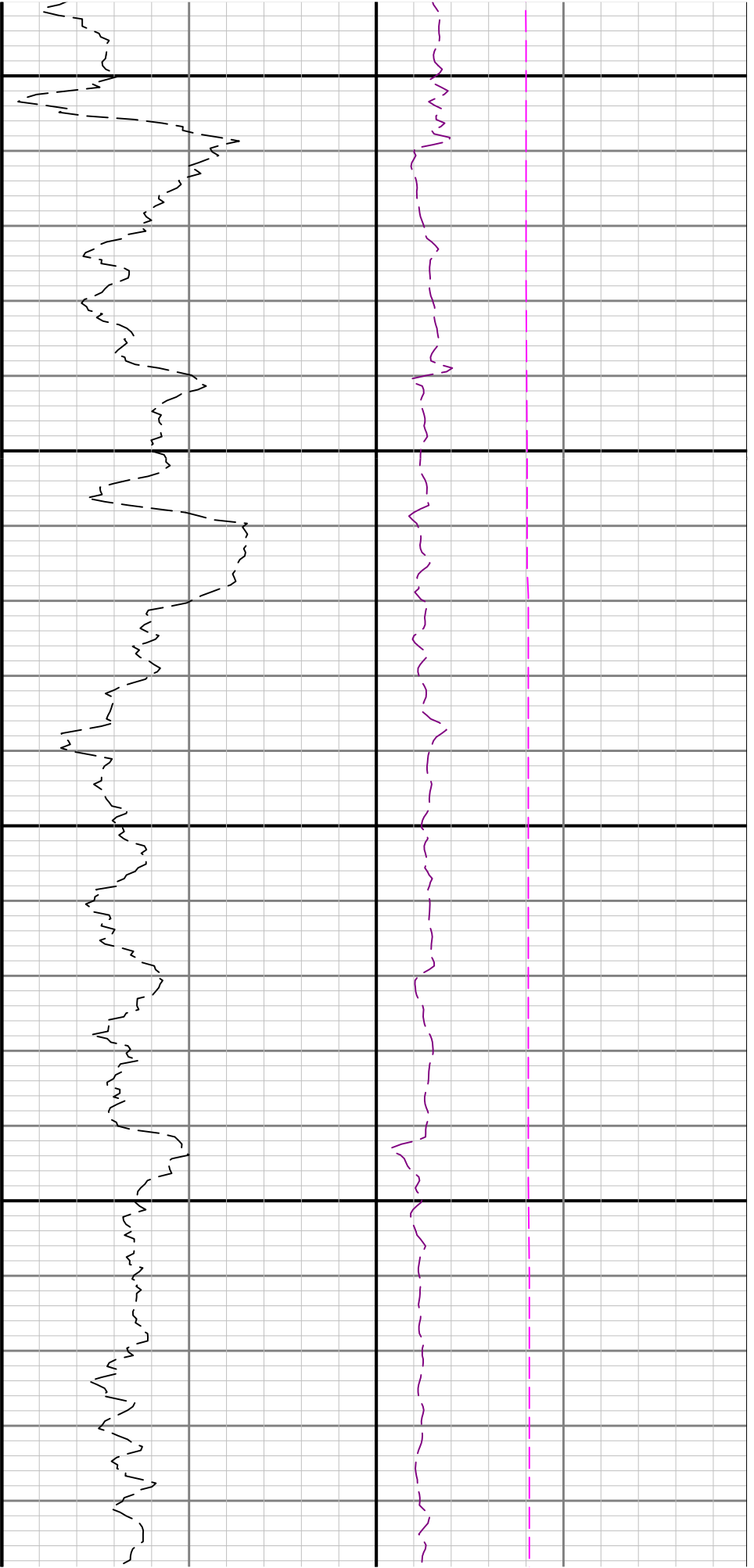




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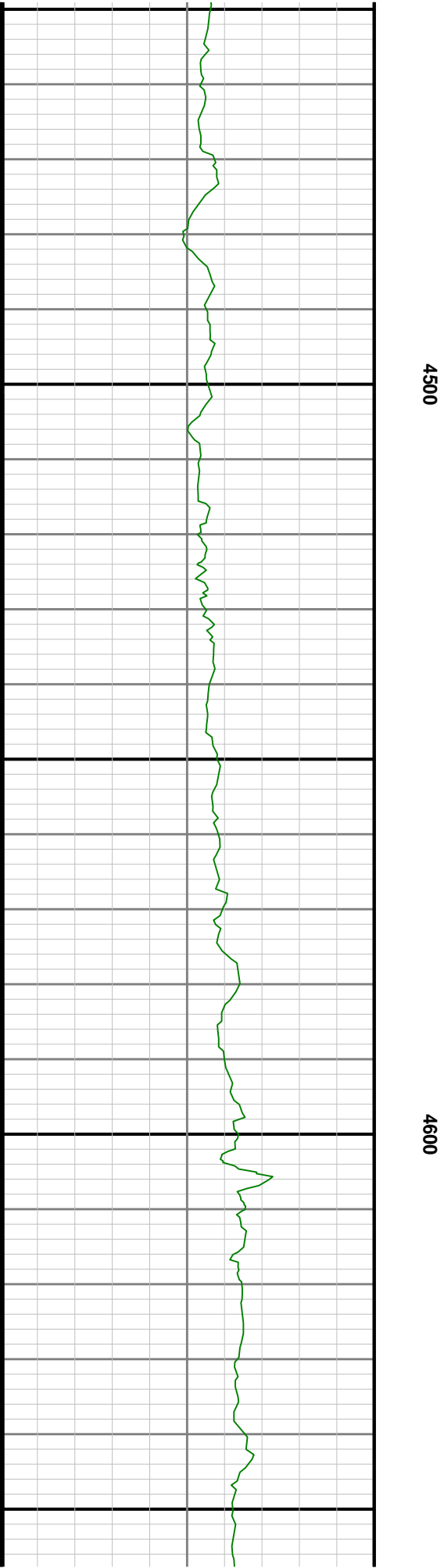
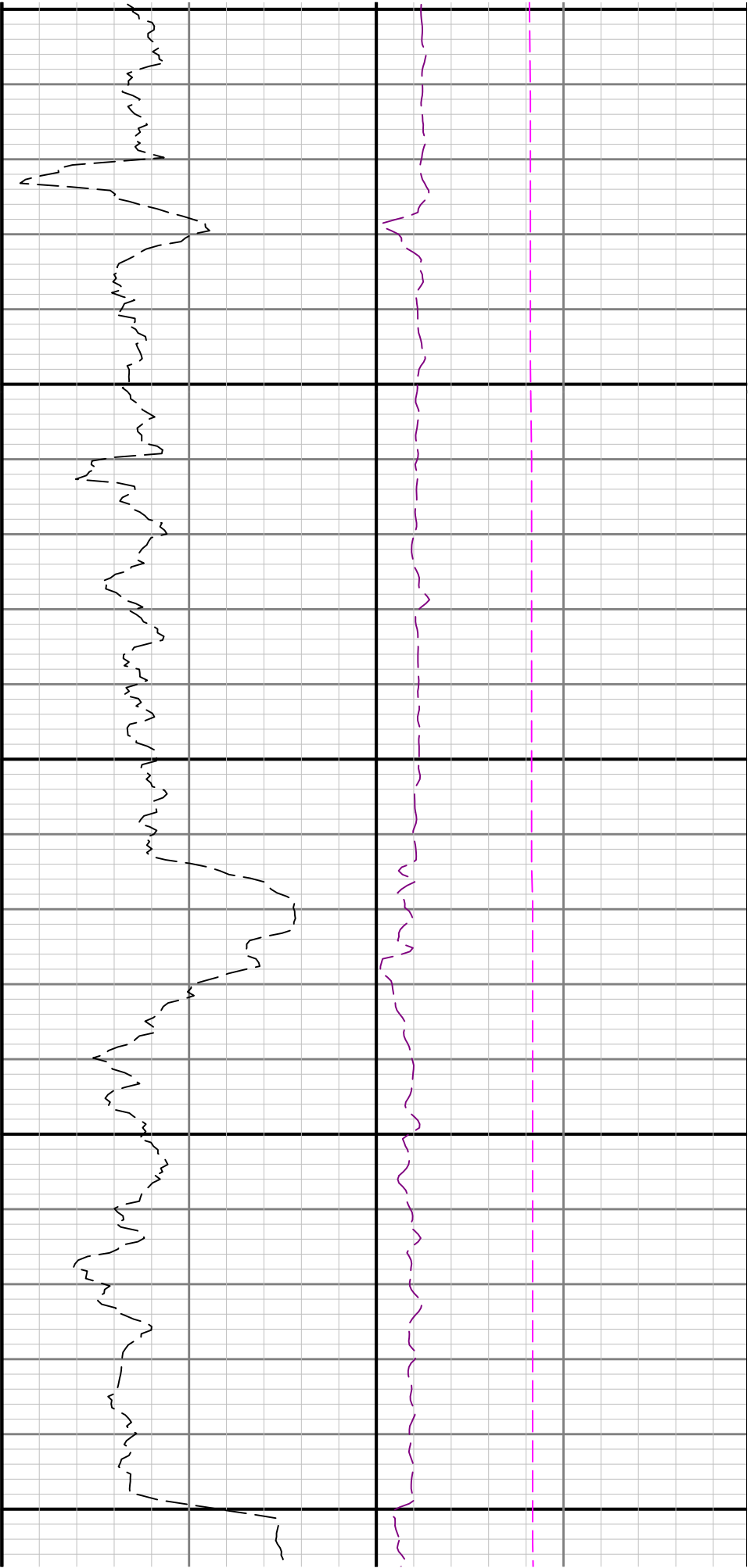
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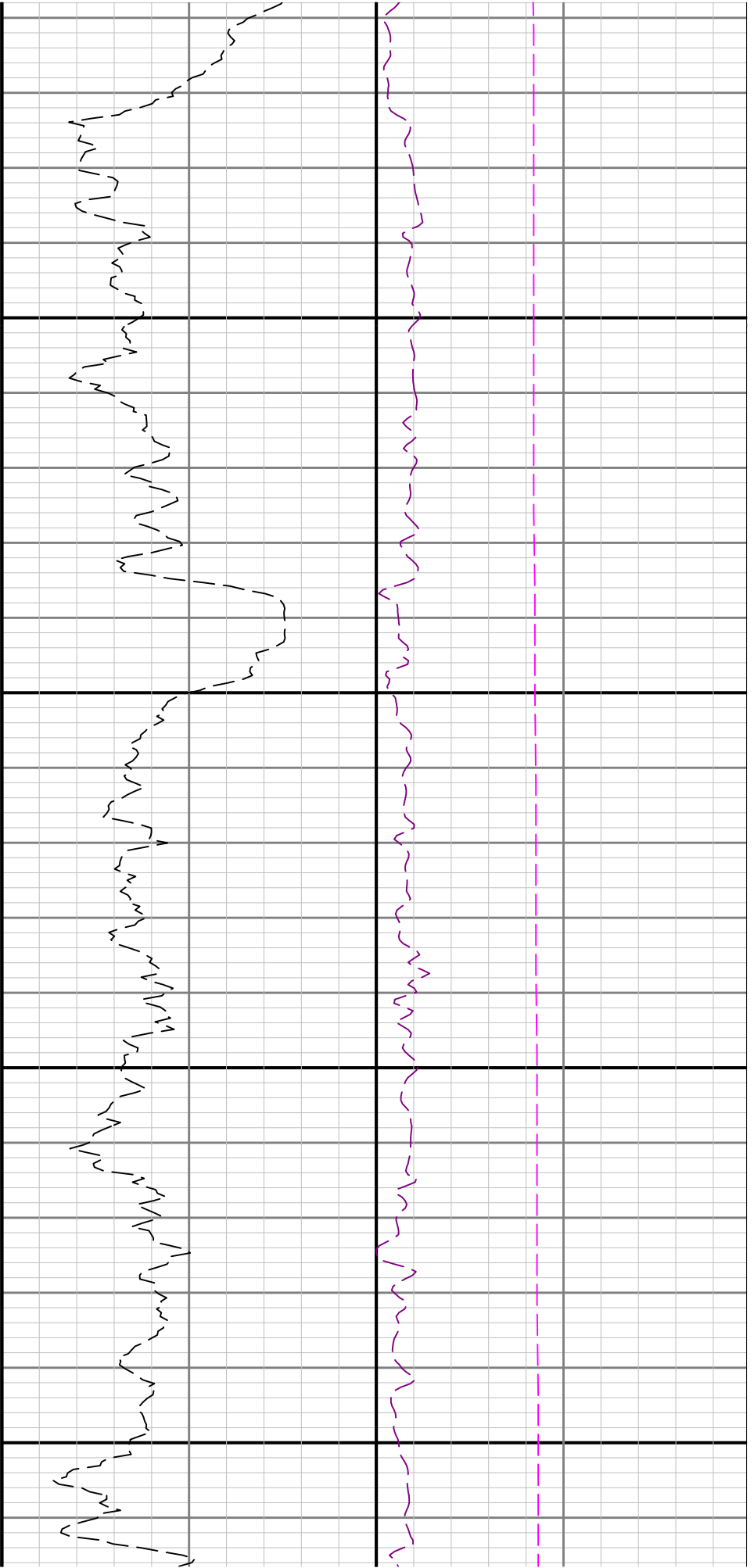




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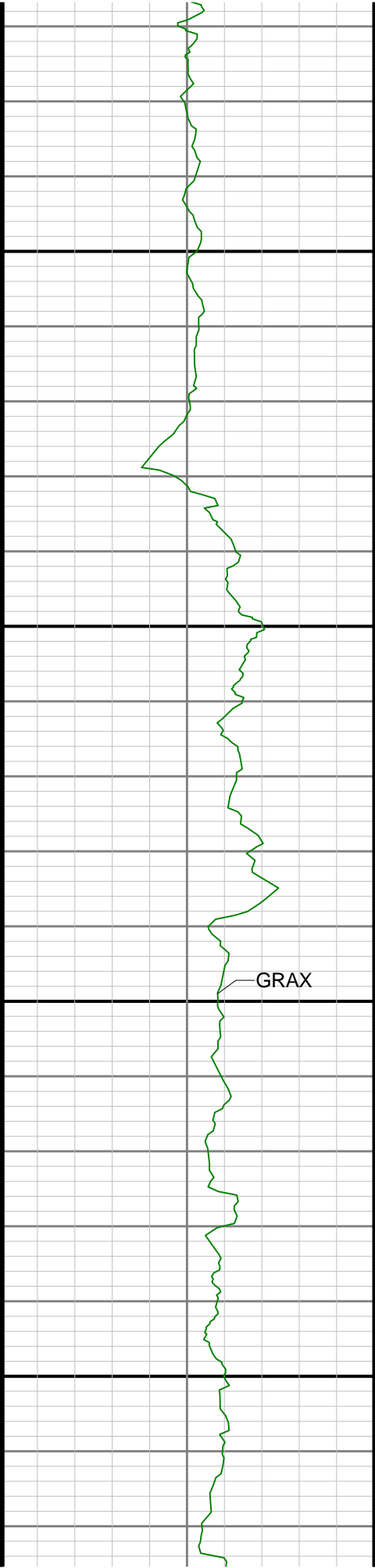




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4800

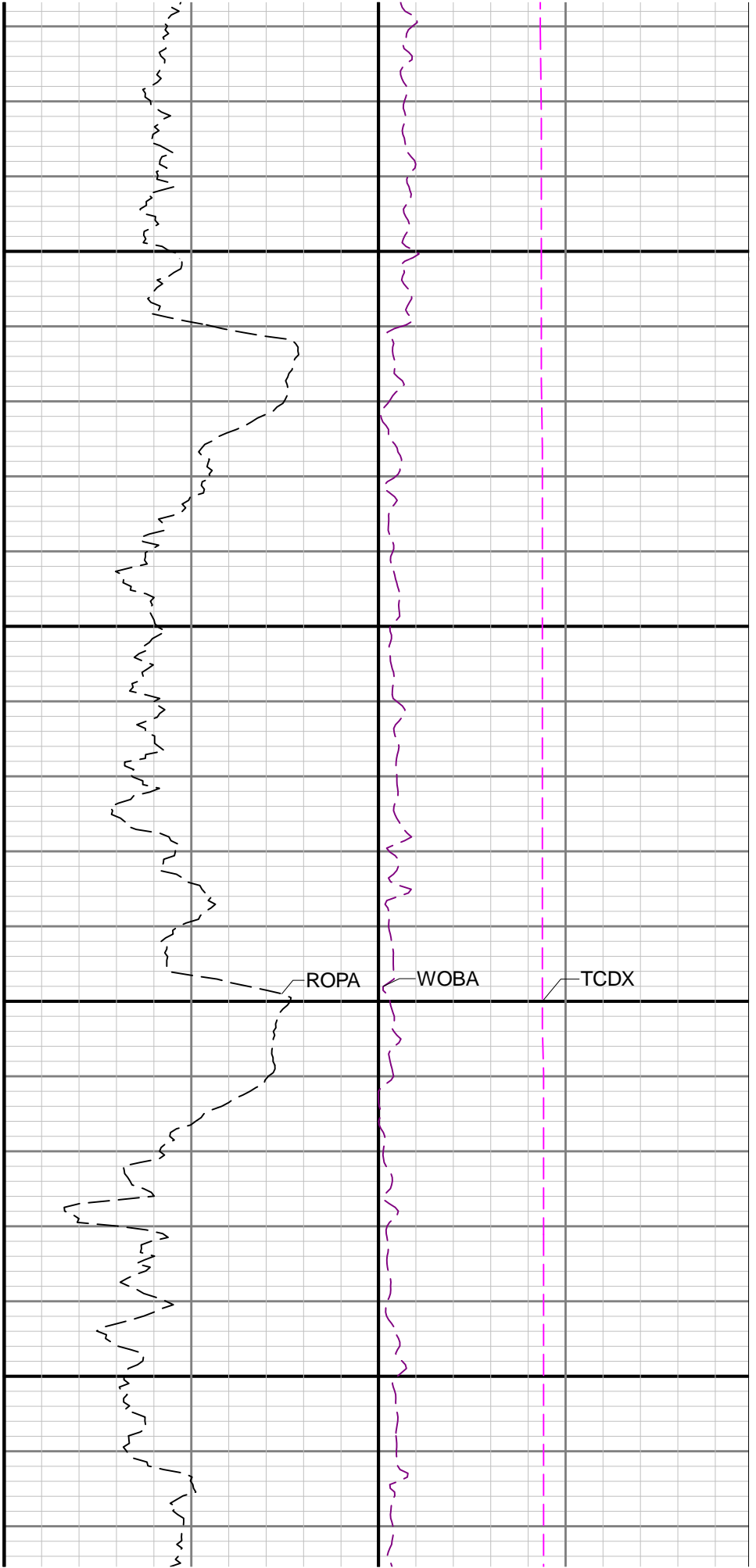




4900

5000

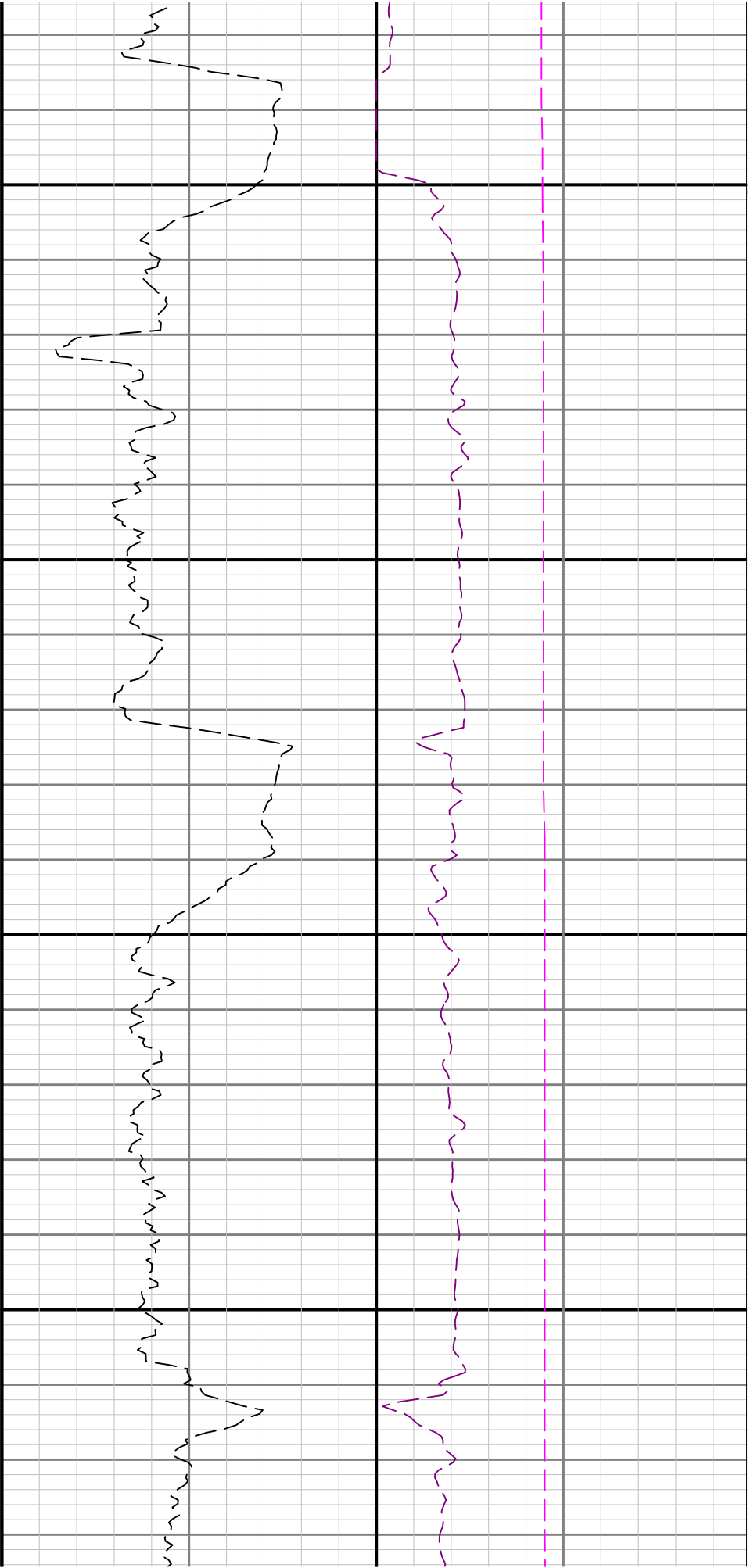
GRAX



ROPA

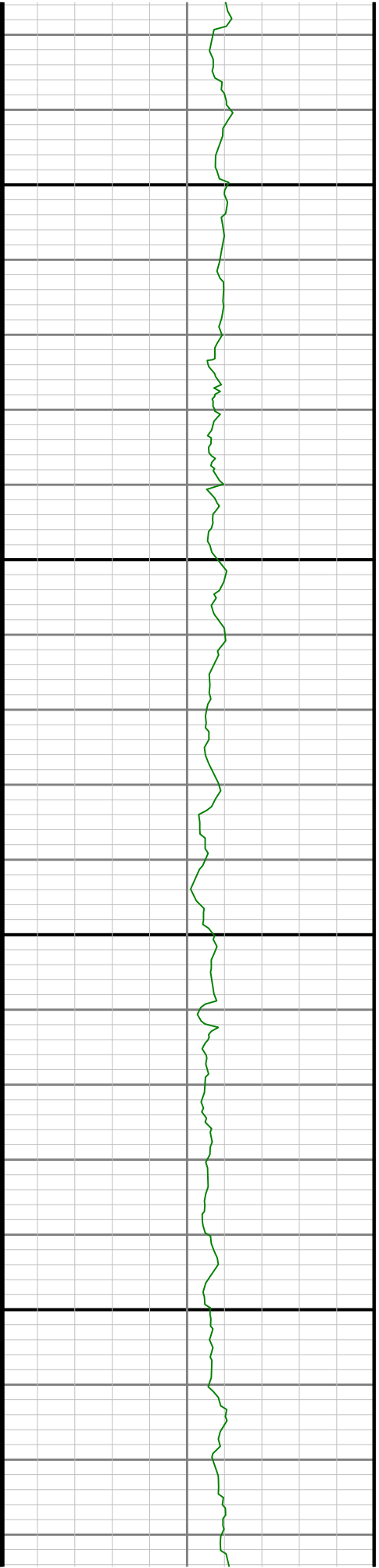
WOBA

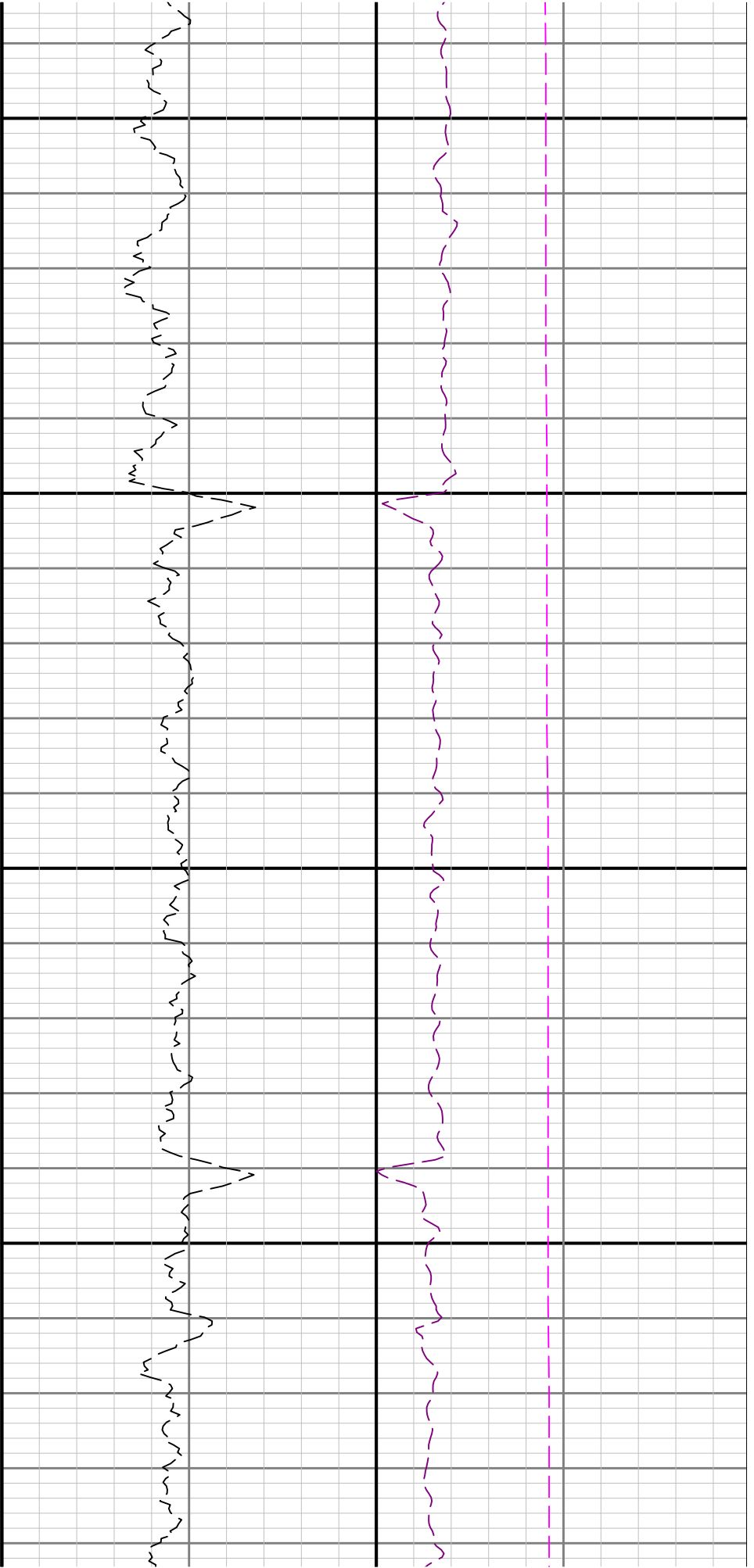
TCDX



5100

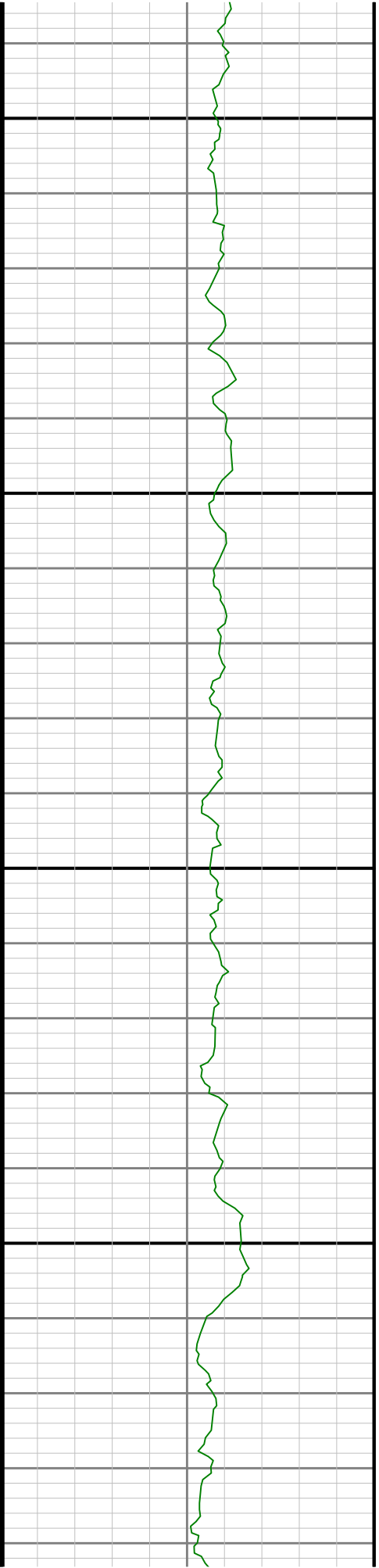
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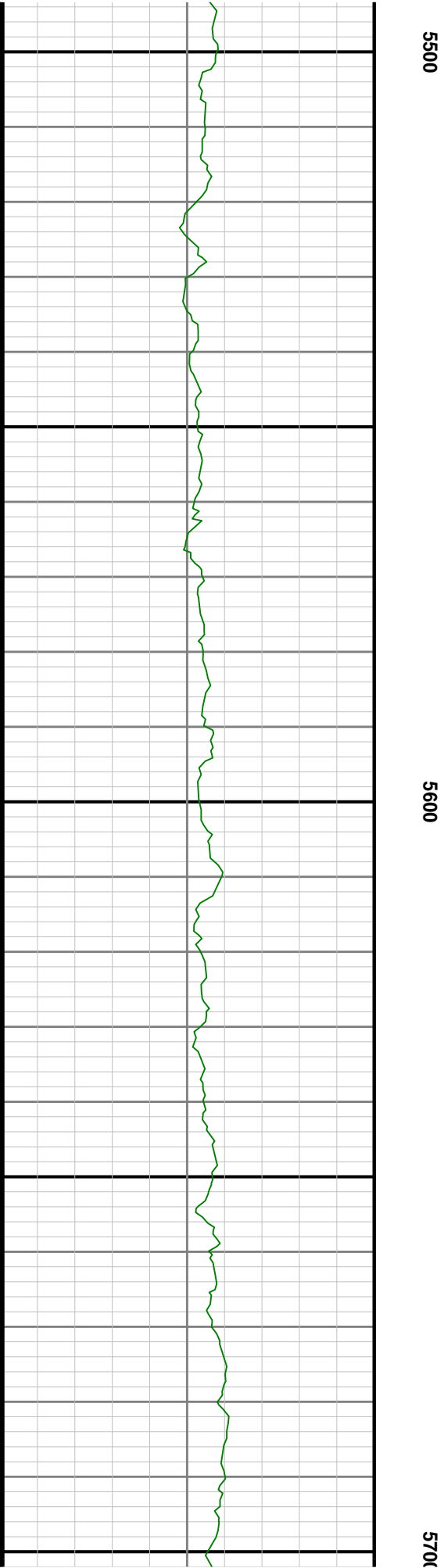
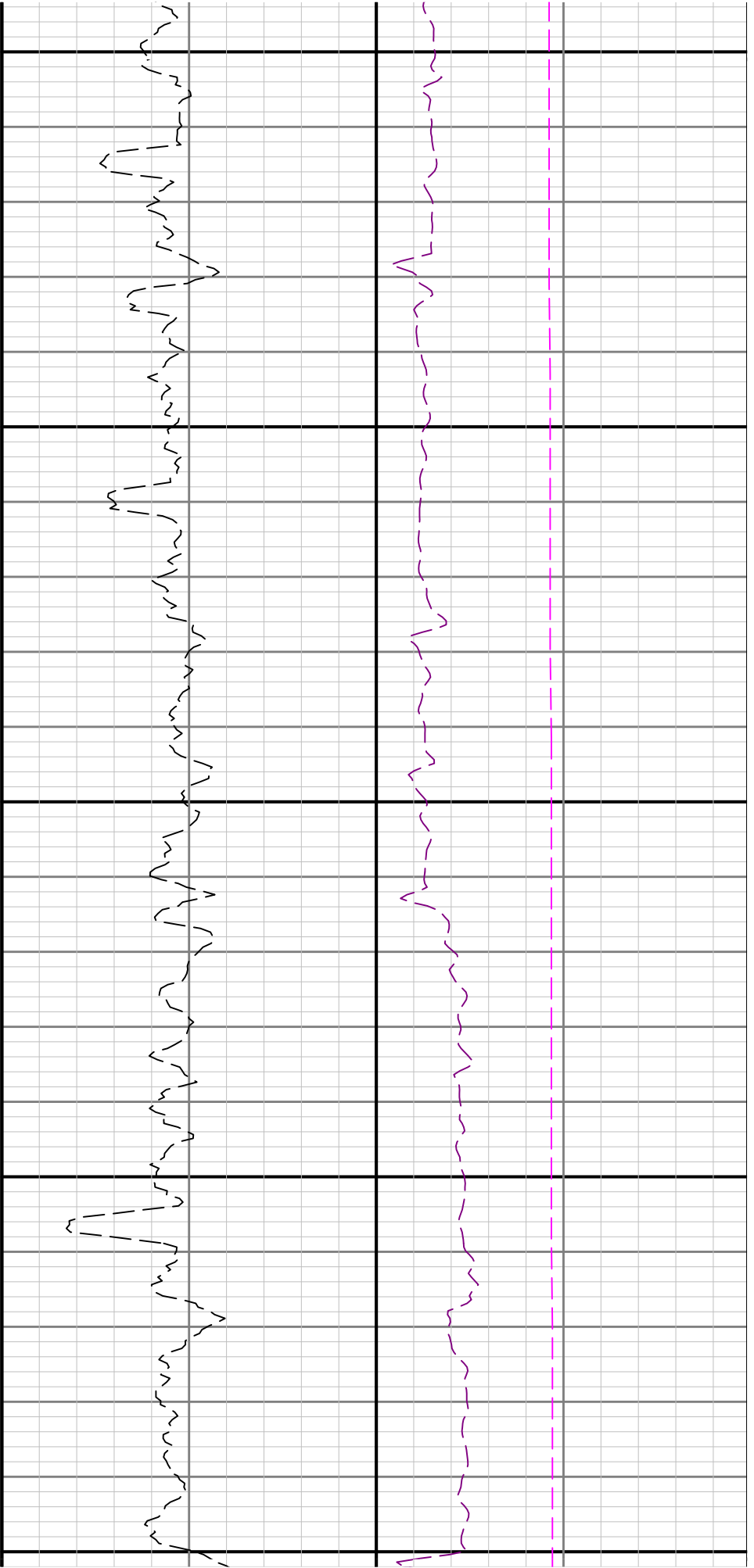


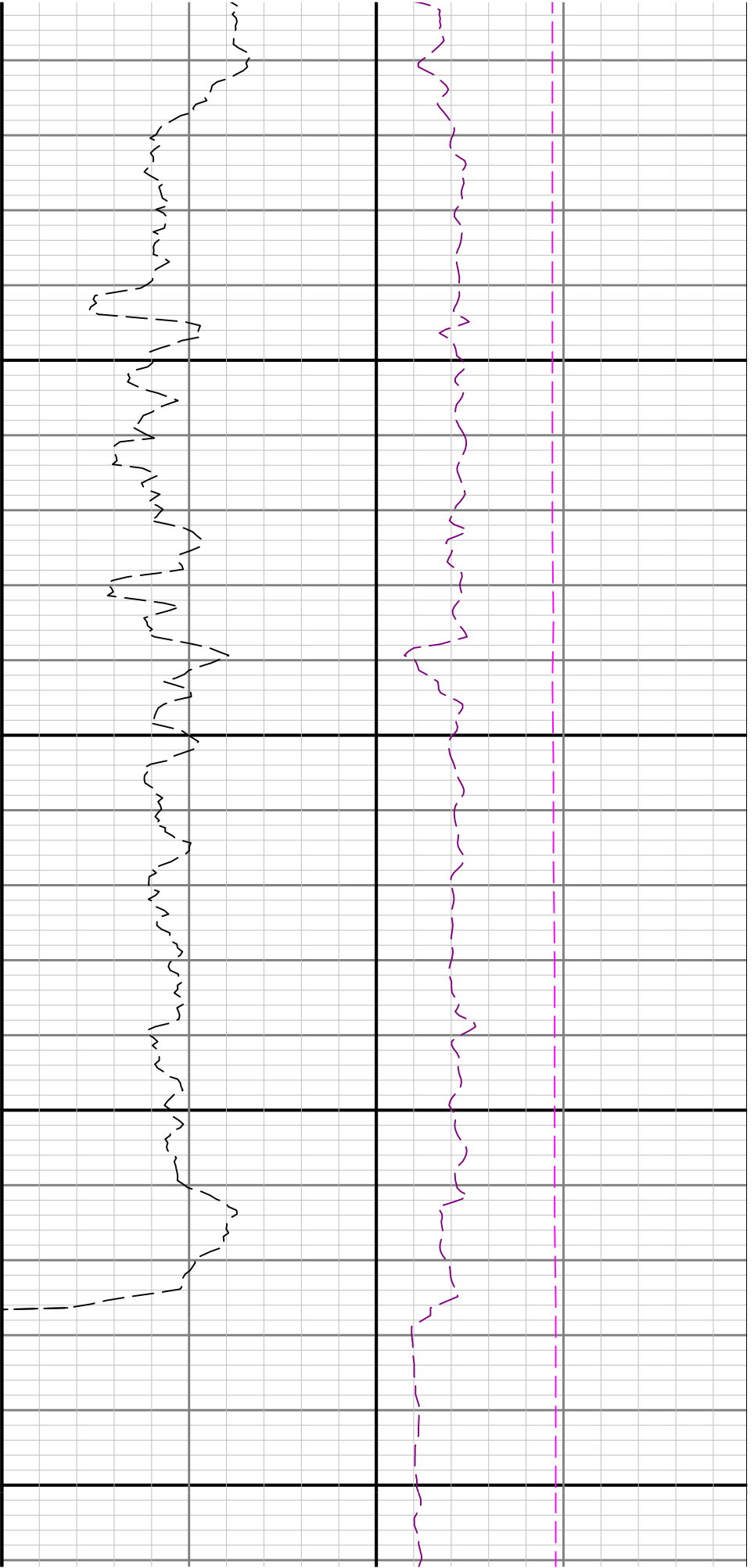


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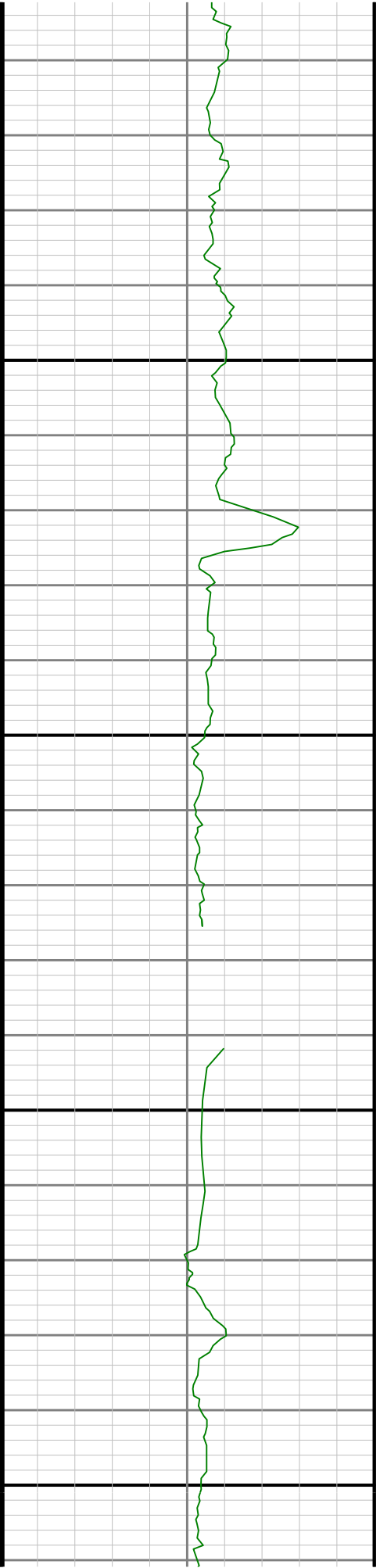


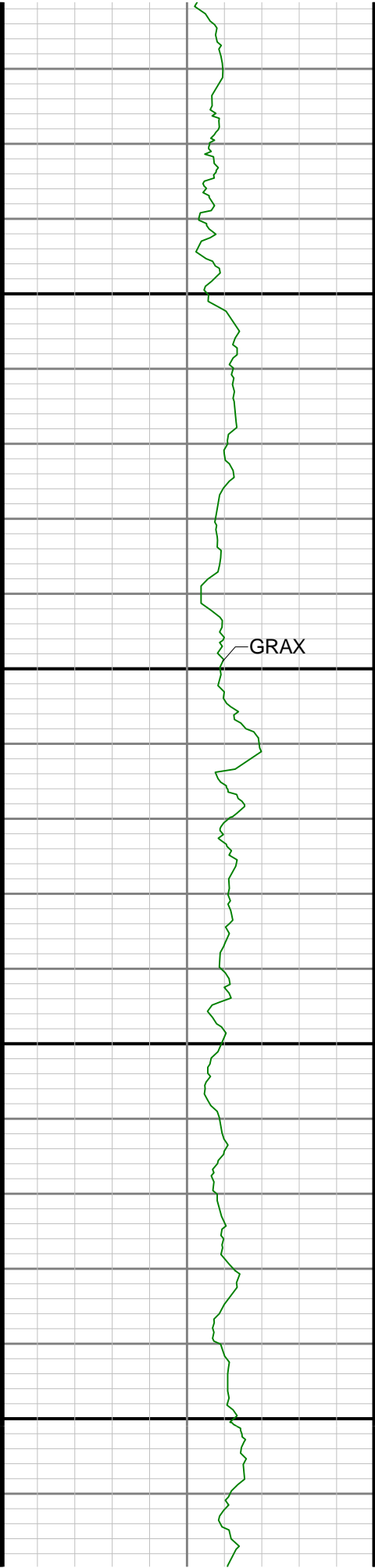




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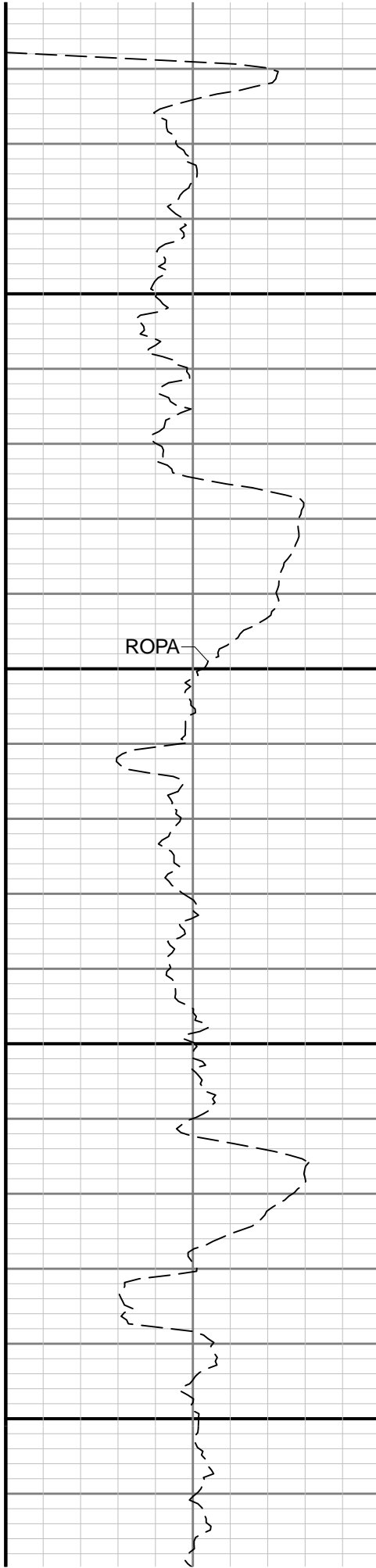
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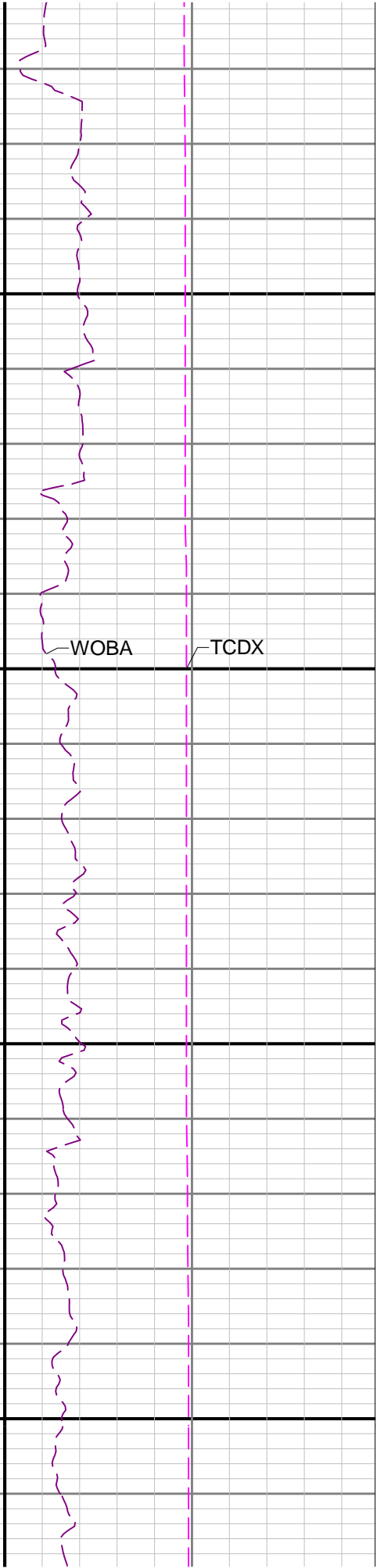


6000

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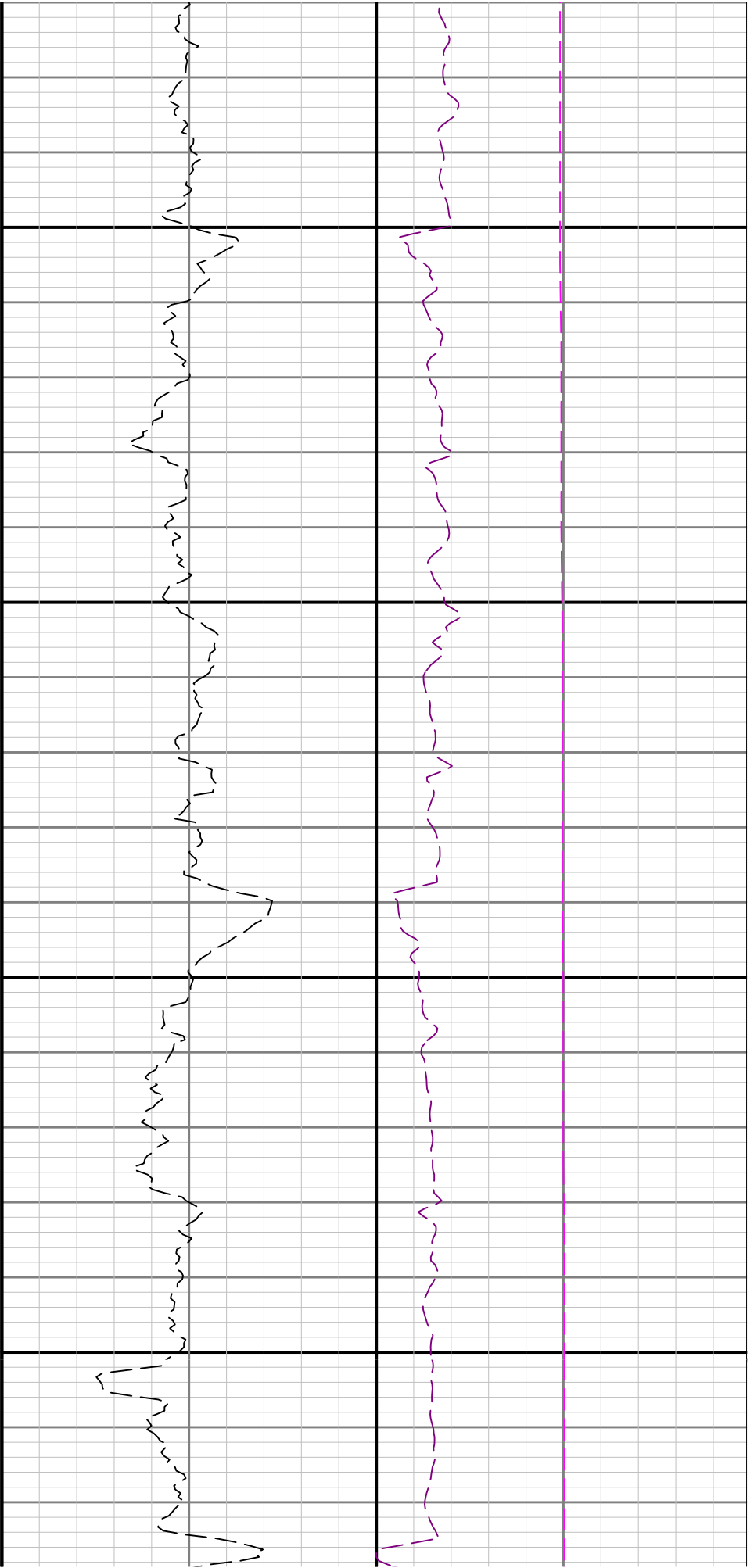


ROPA



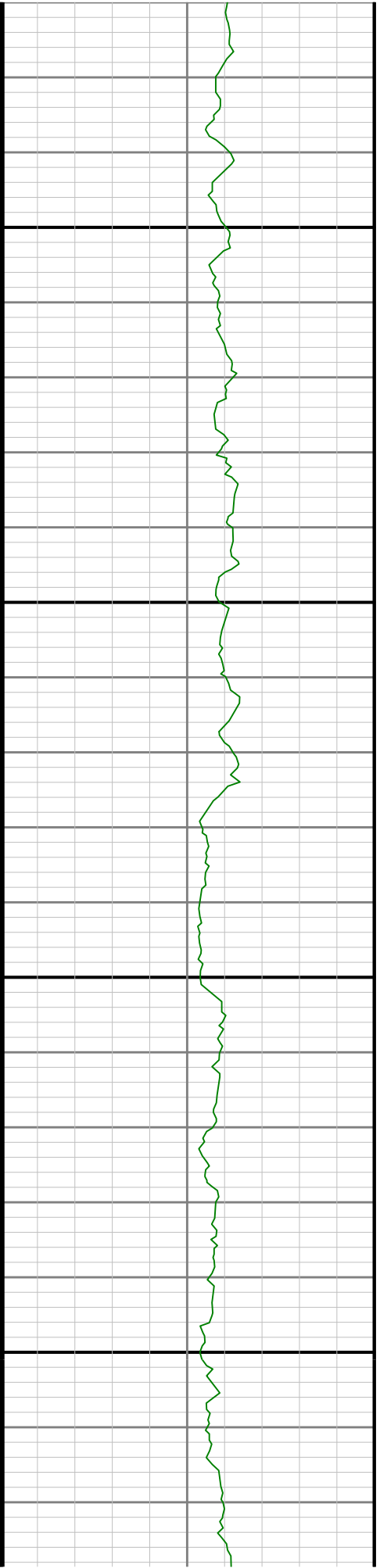
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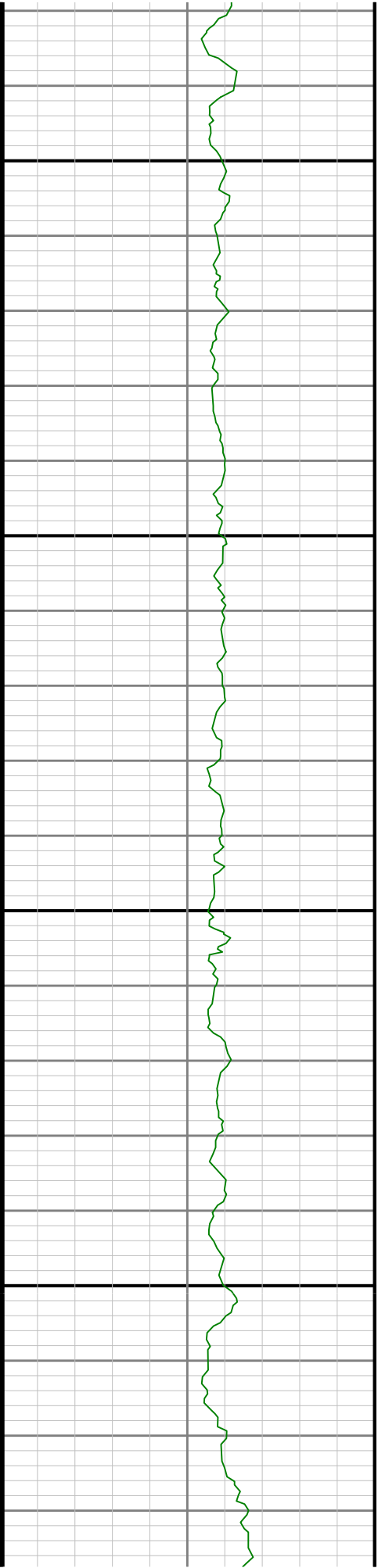
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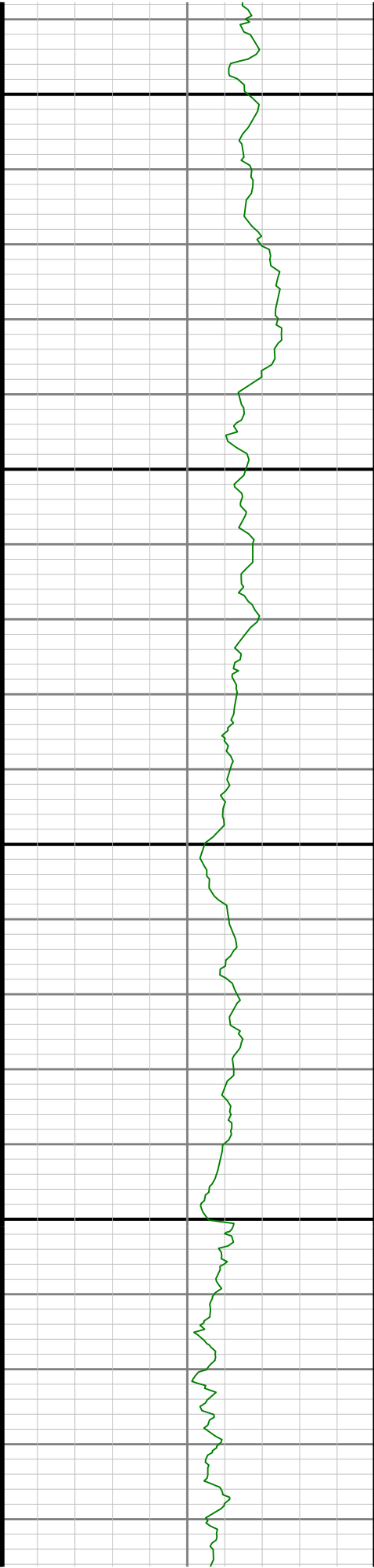


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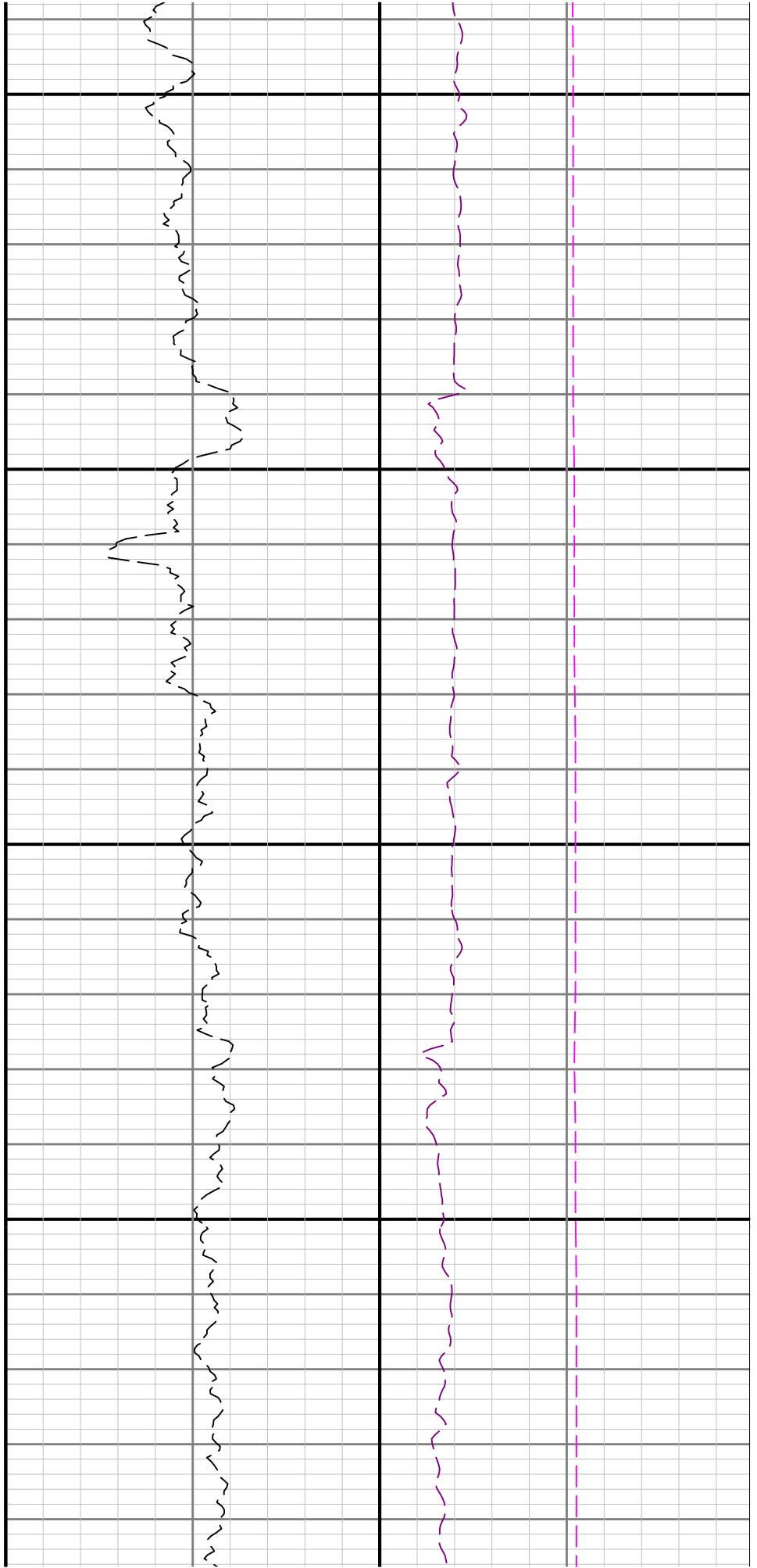






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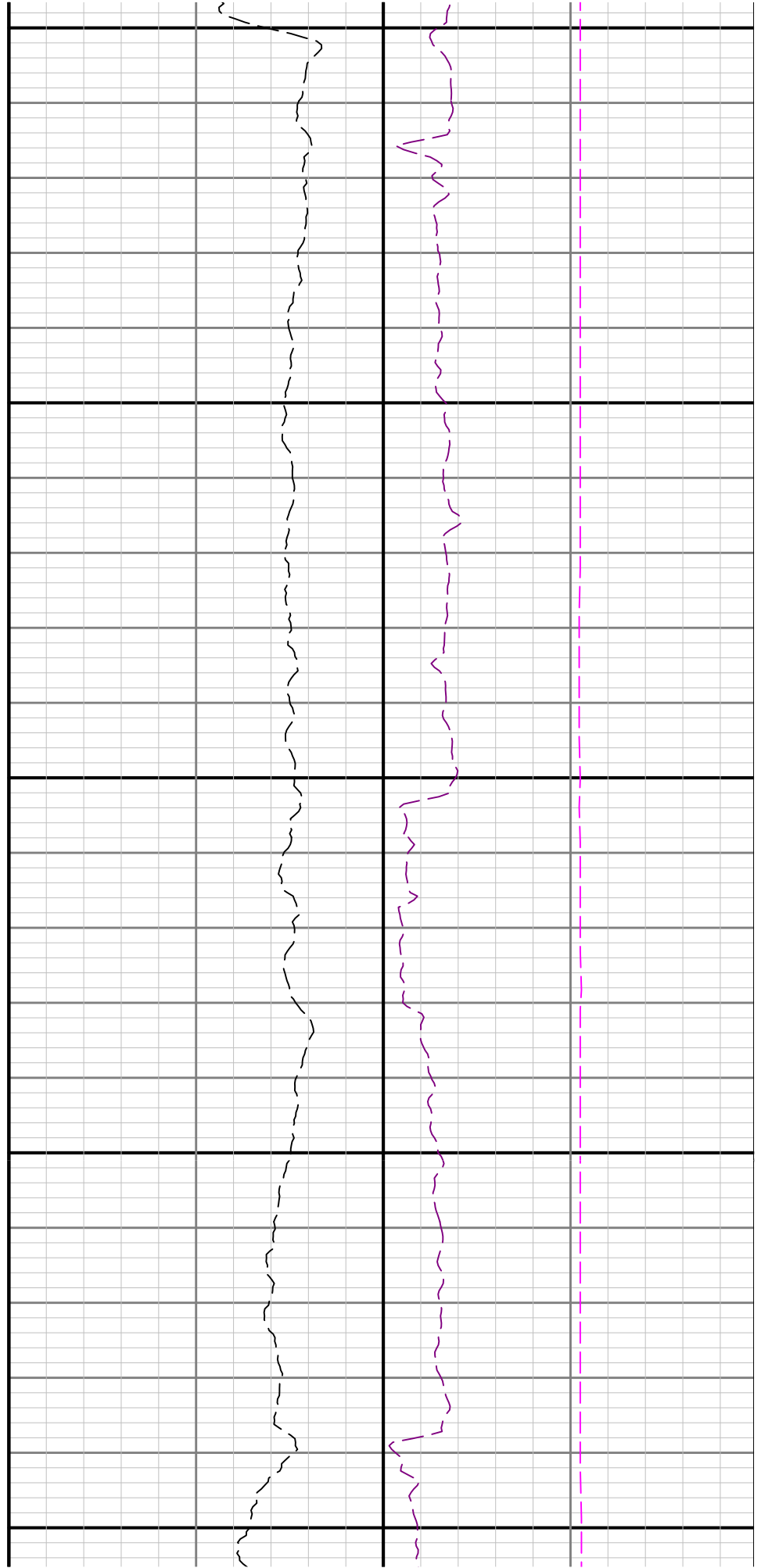
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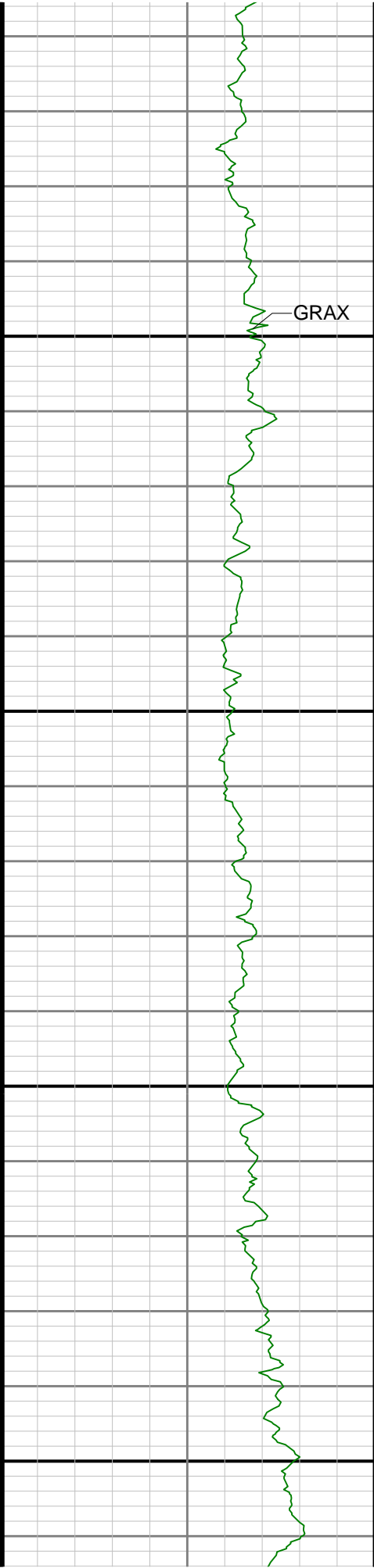




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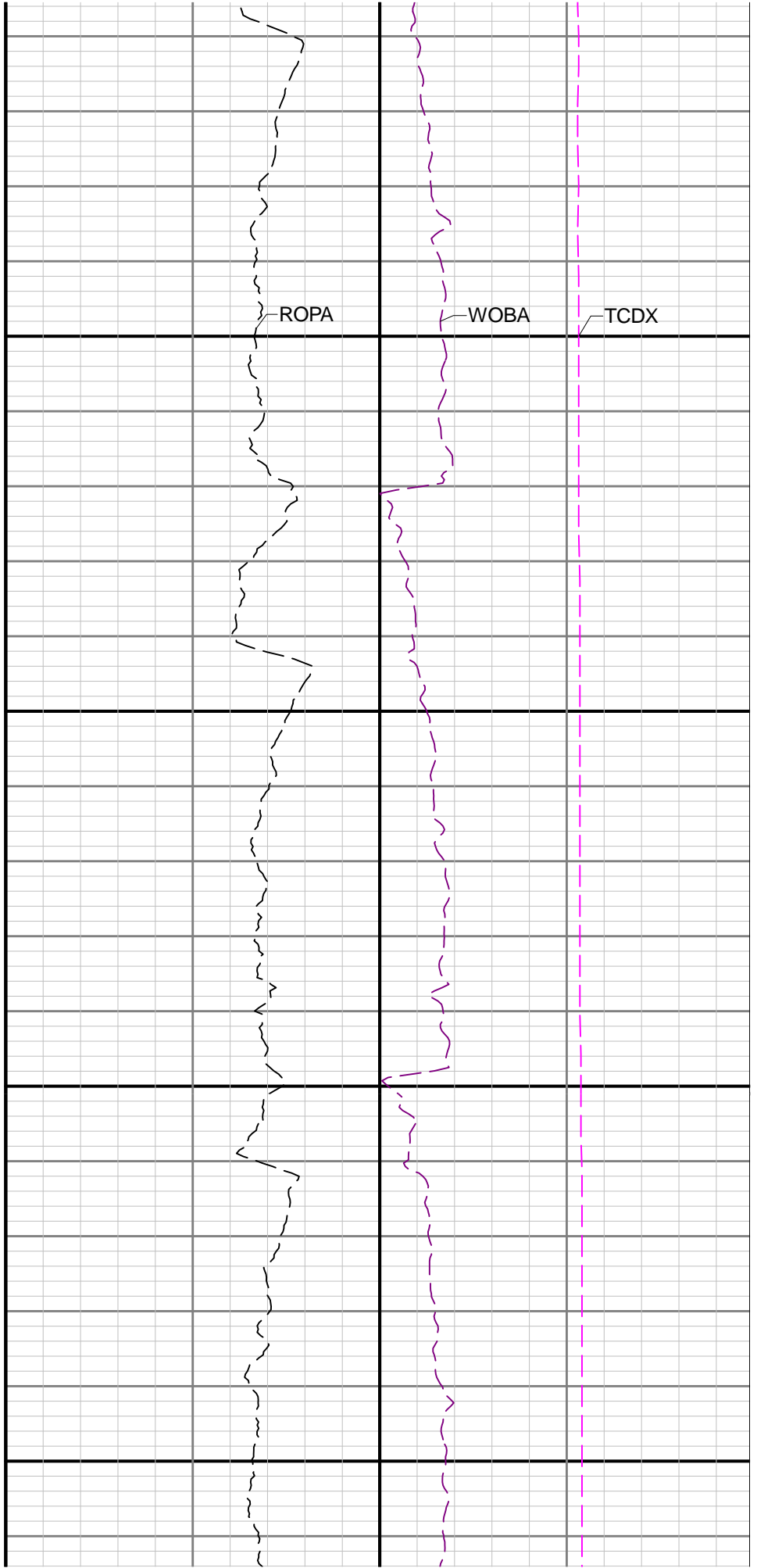
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7000

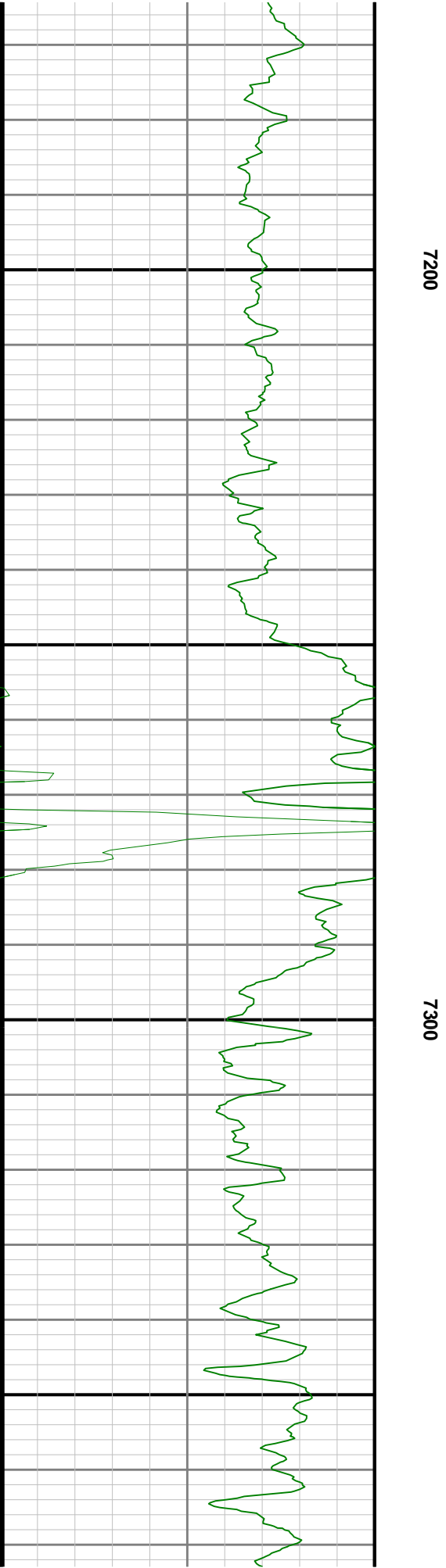
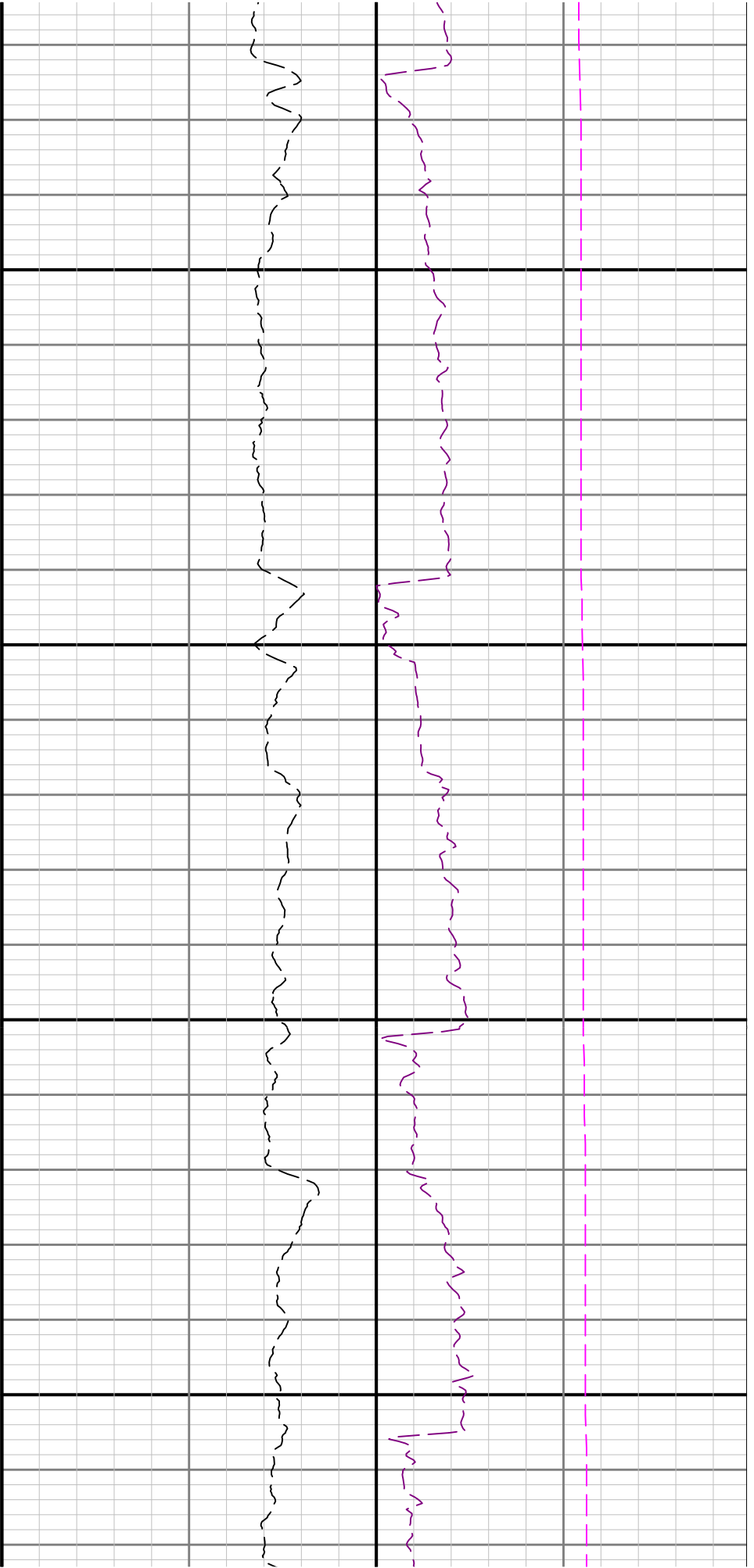
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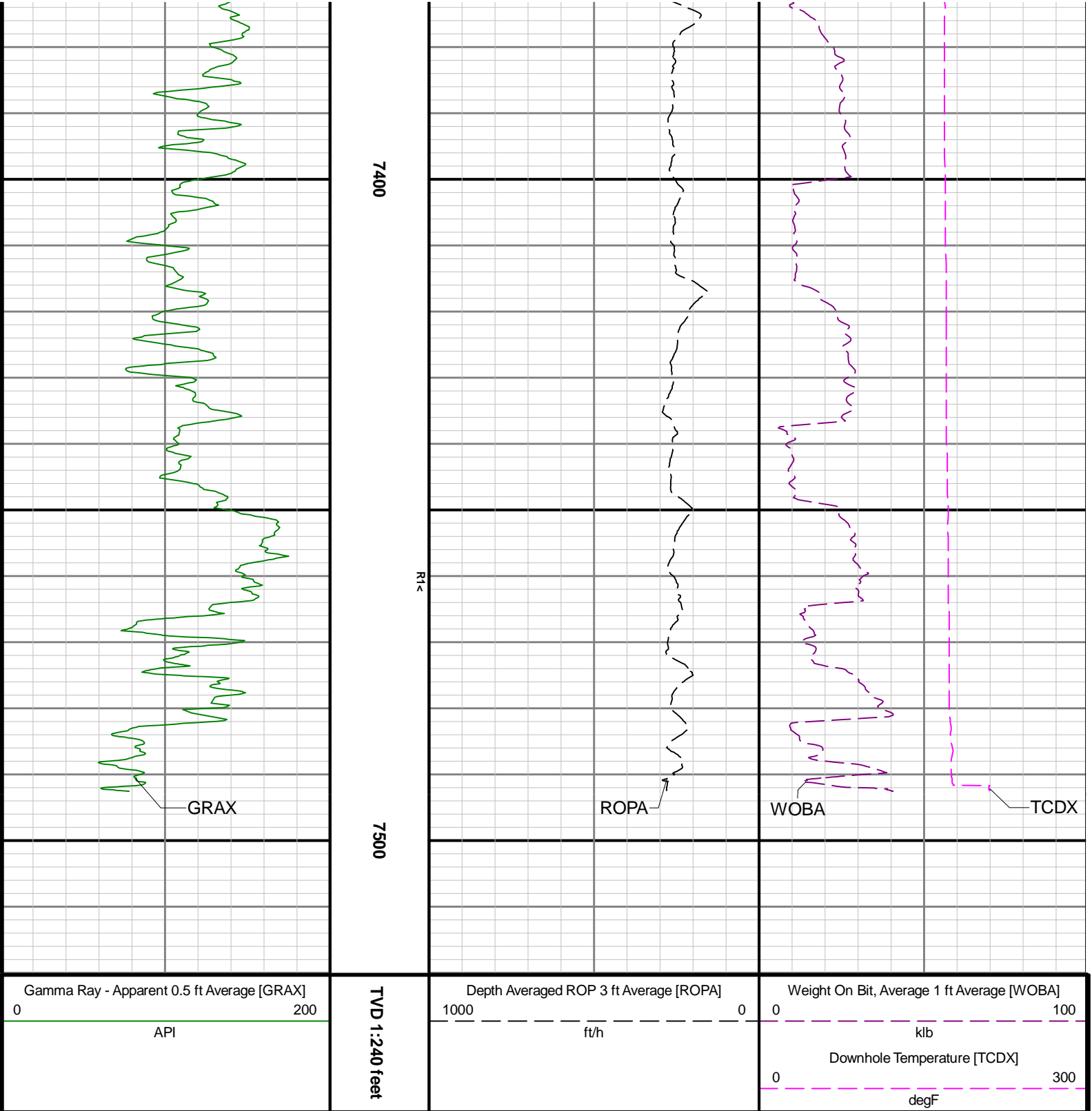


ROPA

WOBA

TCDX





Directional Survey Summary													
Latitude:		040° 02' 44.156" N				Longitude:		104° 45' 41.944" W					
North Reference:		True				Drill Depth Zero:		Rig Floor					
Vertical Datum is:		Ground Level				Vertical Datum to DDZ: (ft)		17.00					
Vertical Section North: (ft)		0.00				Vertical Section East: (ft)		0.00					
Vertical Section Azimuth: (deg)		0.05				Magnetic Declination: (deg)		7.92					
Grid Convergence: (deg)		N/A											
Total Correction: (deg)		7.92				TVD Calculation Method:		Minimum Curvature					
Magnetic Correction:		On				Local Magnetic Field: (nT)		52369					
Local Magnetic Dip Angle: (deg)		66.38				Local Gravity Field: (m/s2)		9.801					
Tie-In / Projection	Measured Depth	Inclination	Azimuth	Temperature	North	East	True Vertical Depth	TVD Subsea	Vertical Section	Course Length	Dog Leg Severity	Build Rate	Turn Rate

Elevation	Slope		Slope		Slope		Slope		Slope		Slope		Slope
	(ft)	(deg)	(deg)	(degF)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg/100ft)	(deg/100ft)	(deg/100ft)
Tie-In	0.00	0.00	219.56	N/A	0.00	0.00	0.00	-5130.00	0.00	0.00	0.00	0.00	0.00
	17.00	0.00	219.56	N/A	0.00	0.00	17.00	-5113.00	0.00	17.00	0.00	0.00	0.00
	124.00	0.26	219.56	N/A	-0.19	-0.15	124.00	-5006.00	-0.19	107.00	0.24	0.24	0.00
	219.00	0.26	164.63	N/A	-0.56	-0.23	219.00	-4911.00	-0.56	95.00	0.25	0.00	-57.82
	314.00	1.19	99.50	N/A	-0.93	0.80	313.99	-4816.01	-0.93	95.00	1.16	0.98	-68.56
	409.00	2.29	111.11	N/A	-1.78	3.54	408.95	-4721.05	-1.78	95.00	1.21	1.16	12.22
	504.00	3.69	111.98	N/A	-3.61	8.14	503.81	-4626.19	-3.60	95.00	1.47	1.47	0.92
	599.00	5.98	103.02	N/A	-5.87	15.80	598.47	-4531.53	-5.85	95.00	2.53	2.41	-9.43
	694.00	7.12	104.34	N/A	-8.44	26.33	692.85	-4437.15	-8.42	95.00	1.21	1.20	1.39
	788.00	8.31	111.55	N/A	-12.38	38.29	786.00	-4344.00	-12.34	94.00	1.63	1.27	7.67
	884.00	10.81	110.14	N/A	-18.03	53.20	880.66	-4249.34	-17.98	96.00	2.62	2.60	-1.47
	979.00	12.35	111.46	N/A	-24.81	71.02	973.72	-4156.28	-24.75	95.00	1.64	1.62	1.39
	1074.00	13.18	112.25	N/A	-32.63	90.50	1066.37	-4063.63	-32.55	95.00	0.89	0.87	0.83
	1169.00	14.28	114.09	N/A	-41.51	111.22	1158.66	-3971.34	-41.41	95.00	1.25	1.16	1.94
	1264.00	14.72	113.22	N/A	-51.05	133.01	1250.63	-3879.37	-50.94	95.00	0.52	0.46	-0.92
	1360.00	15.16	112.25	N/A	-60.61	155.83	1343.39	-3786.61	-60.48	96.00	0.53	0.46	-1.01
	1455.00	15.29	109.70	N/A	-69.54	179.12	1435.05	-3694.95	-69.38	95.00	0.72	0.14	-2.68
	1549.00	16.70	111.19	N/A	-78.60	203.39	1525.41	-3604.59	-78.42	94.00	1.56	1.50	1.59
	1645.00	17.49	110.05	N/A	-88.53	229.80	1617.17	-3512.83	-88.33	96.00	0.89	0.82	-1.19
	1739.00	19.69	109.61	N/A	-98.69	257.99	1706.26	-3423.74	-98.47	94.00	2.35	2.34	-0.47
	1834.00	23.12	108.56	N/A	-110.00	290.76	1794.69	-3335.31	-109.75	95.00	3.63	3.61	-1.11
	1900.00	23.60	108.56	N/A	-118.33	315.56	1855.28	-3274.72	-118.06	66.00	0.73	0.73	0.00
	1967.00	24.26	107.93	N/A	-126.84	341.37	1916.53	-3213.47	-126.54	67.00	1.06	0.99	-0.94
	2054.00	23.58	107.41	N/A	-137.55	374.98	1996.05	-3133.95	-137.22	87.00	0.82	-0.78	-0.60
	2141.00	24.16	112.03	N/A	-149.43	408.10	2075.62	-3054.38	-149.08	87.00	2.25	0.67	5.31
	2228.00	23.98	111.72	N/A	-162.65	441.02	2155.05	-2974.95	-162.27	87.00	0.25	-0.21	-0.36
	2316.00	23.31	111.08	N/A	-175.53	473.88	2235.67	-2894.33	-175.12	88.00	0.82	-0.76	-0.73
	2403.00	25.26	111.31	N/A	-188.47	507.24	2314.96	-2815.04	-188.03	87.00	2.24	2.24	0.26
	2491.00	24.54	110.34	N/A	-201.65	541.87	2394.78	-2735.22	-201.18	88.00	0.94	-0.82	-1.10
	2579.00	23.76	109.43	N/A	-213.90	575.72	2475.08	-2654.92	-213.40	88.00	0.98	-0.89	-1.03
	2666.00	22.84	108.41	N/A	-225.06	608.27	2554.98	-2575.02	-224.53	87.00	1.15	-1.06	-1.17
	2754.00	23.79	109.78	N/A	-236.46	641.18	2635.80	-2494.20	-235.90	88.00	1.24	1.08	1.56
	2842.00	23.08	108.93	N/A	-248.06	674.20	2716.54	-2413.46	-247.48	88.00	0.89	-0.81	-0.97
	2930.00	23.93	111.30	N/A	-260.14	707.14	2797.24	-2332.76	-259.53	88.00	1.44	0.97	2.69
	3018.00	24.48	111.75	N/A	-273.38	740.71	2877.50	-2252.50	-272.74	88.00	0.66	0.62	0.51
	3122.00	25.26	112.28	N/A	-289.78	781.25	2971.86	-2158.14	-289.10	104.00	0.78	0.75	0.51
	3210.00	24.05	111.43	N/A	-303.45	815.32	3051.83	-2078.17	-302.74	88.00	1.43	-1.37	-0.97
	3297.00	23.84	111.98	N/A	-316.51	848.13	3131.35	-1998.65	-315.77	87.00	0.35	-0.24	0.63
	3384.00	25.25	110.74	N/A	-329.66	881.79	3210.48	-1919.52	-328.89	87.00	1.73	1.62	-1.43
	3472.00	24.11	109.72	N/A	-342.37	916.26	3290.44	-1839.56	-341.57	88.00	1.38	-1.30	-1.16
	3559.00	24.12	110.00	N/A	-354.45	949.69	3369.85	-1760.15	-353.62	87.00	0.13	0.01	0.32
	3647.00	24.71	111.53	N/A	-367.35	983.70	3449.98	-1680.02	-366.49	88.00	0.98	0.67	1.74
	3734.00	23.11	111.34	N/A	-380.24	1016.52	3529.51	-1600.49	-379.35	87.00	1.84	-1.84	-0.22
	3821.00	23.55	112.19	N/A	-393.01	1048.51	3609.40	-1520.60	-392.10	87.00	0.64	0.51	0.98
	3909.00	24.07	111.49	N/A	-406.23	1081.49	3689.91	-1440.09	-405.28	88.00	0.67	0.59	-0.80
	3996.00	24.19	110.25	N/A	-418.90	1114.72	3769.31	-1360.69	-417.92	87.00	0.60	0.14	-1.43
	4084.00	23.58	109.60	N/A	-431.04	1148.22	3849.77	-1280.23	-430.04	88.00	0.75	-0.69	-0.74
	4171.00	23.09	110.93	N/A	-442.97	1180.55	3929.66	-1200.34	-441.94	87.00	0.83	-0.56	1.53
	4259.00	21.33	109.73	N/A	-454.54	1211.73	4011.12	-1118.88	-453.48	88.00	2.07	-2.00	-1.36
	4346.00	19.37	108.58	N/A	-464.48	1240.30	4092.69	-1037.31	-463.40	87.00	2.30	-2.25	-1.32
	4433.00	17.92	110.68	N/A	-473.81	1266.50	4175.12	-954.88	-472.70	87.00	1.84	-1.67	2.41
	4521.00	16.49	109.30	N/A	-482.71	1290.96	4259.18	-870.82	-481.59	88.00	1.69	-1.62	-1.57
	4609.00	14.54	112.29	N/A	-491.03	1312.97	4343.97	-786.03	-489.89	88.00	2.39	-2.22	3.40
	4697.00	13.33	111.36	N/A	-498.92	1332.64	4429.38	-700.62	-497.76	88.00	1.40	-1.37	-1.06
	4785.00	12.87	111.03	N/A	-506.13	1351.23	4515.09	-614.91	-504.95	88.00	0.53	-0.52	-0.37
	4872.00	11.55	112.68	N/A	-512.97	1368.32	4600.12	-529.88	-511.77	87.00	1.57	-1.52	1.90
	4960.00	8.58	109.75	N/A	-518.58	1382.63	4686.76	-443.24	-517.38	88.00	3.42	-3.37	-3.33
	5047.00	6.41	111.14	N/A	-522.53	1393.26	4773.01	-356.99	-521.31	87.00	2.50	-2.49	1.60
	5135.00	5.74	109.16	N/A	-525.74	1402.00	4860.52	-269.48	-524.52	88.00	0.80	-0.76	-2.25
	5222.00	4.56	107.28	N/A	-528.20	1409.42	4947.16	-182.84	-526.97	87.00	1.37	-1.36	-2.16
	5310.00	2.98	109.07	N/A	-529.99	1414.92	5034.97	-95.03	-528.75	88.00	1.80	-1.80	2.03
	5398.00	1.63	113.39	N/A	-531.23	1418.23	5122.90	-7.10	-529.99	88.00	1.55	-1.53	4.91
	5485.00	0.22	205.45	N/A	-531.87	1419.29	5209.88	79.88	-530.63	87.00	1.90	-1.62	105.82
	5573.00	0.25	148.72	N/A	-532.19	1419.32	5297.88	167.88	-530.95	88.00	0.26	0.03	-64.47
	5661.00	0.35	132.07	N/A	-532.53	1419.62	5385.88	255.88	-531.29	88.00	0.15	0.11	-18.92
	5748.00	0.26	114.95	N/A	-532.79	1419.99	5472.88	342.88	-531.55	87.00	0.15	-0.10	-19.68
	5836.00	0.29	83.14	N/A	-532.85	1420.40	5560.88	430.88	-531.61	88.00	0.17	0.03	-36.15
	5923.00	0.51	65.60	N/A	-532.66	1420.97	5647.88	517.88	-531.42	87.00	0.29	0.25	-20.16

	6010.00	0.69	56.38	N/A	-532.21	1421.76	5734.87	604.87	-530.97	87.00	0.23	0.21	-10.60
	6115.00	0.82	48.74	N/A	-531.37	1422.85	5839.86	709.86	-530.13	105.00	0.16	0.12	-7.28
	6202.00	0.85	44.05	N/A	-530.50	1423.76	5926.86	796.86	-529.25	87.00	0.09	0.03	-5.39
	6290.00	0.56	256.65	N/A	-530.13	1423.80	6014.85	884.85	-528.88	88.00	1.54	-0.33	-167.50
	6377.00	1.24	256.22	N/A	-530.45	1422.47	6101.84	971.84	-529.21	87.00	0.78	0.78	-0.49
	6464.00	1.09	251.29	N/A	-530.94	1420.77	6188.82	1058.82	-529.70	87.00	0.21	-0.17	-5.67
	6552.00	0.95	239.67	N/A	-531.57	1419.35	6276.81	1146.81	-530.34	88.00	0.28	-0.16	-13.20
	6640.00	0.82	243.43	N/A	-532.22	1418.16	6364.80	1234.80	-530.99	88.00	0.16	-0.15	4.27
	6727.00	0.58	259.65	N/A	-532.58	1417.17	6451.79	1321.79	-531.34	87.00	0.36	-0.28	18.64
	6815.00	0.60	287.71	155.2	-532.52	1416.29	6539.79	1409.79	-531.29	88.00	0.33	0.03	31.89
	7078.00	6.65	353.57	157.9	-526.30	1413.35	6802.56	1672.56	-525.07	88.00	7.04	6.65	59.84
	7165.00	12.68	357.63	157.9	-511.75	1412.39	6888.29	1758.29	-510.51	87.00	6.97	6.93	4.67
	7252.00	19.24	358.74	159.6	-487.85	1411.68	6971.89	1841.89	-486.62	87.00	7.55	7.54	1.28
	7340.00	24.46	359.23	161.4	-455.11	1411.11	7053.54	1923.54	-453.88	88.00	5.94	5.93	0.56
	7427.00	30.55	1.26	180.8	-414.96	1411.36	7130.67	2000.67	-413.73	87.00	7.08	7.00	2.33
	7515.00	38.09	1.40	332.2	-365.39	1412.51	7203.30	2073.30	-364.16	88.00	8.57	8.57	0.16
	7602.00	45.85	0.52	-27.1	-307.27	1413.45	7267.93	2137.93	-306.03	87.00	8.94	8.92	-1.01
	7689.00	52.33	0.39	167.5	-241.55	1413.97	7324.88	2194.88	-240.32	87.00	7.45	7.45	-0.15
	7777.00	58.33	1.08	168.4	-169.22	1414.92	7374.91	2244.91	-167.98	88.00	6.85	6.82	0.78
	7865.00	64.56	1.05	170.2	-91.97	1416.35	7416.96	2286.96	-90.74	88.00	7.08	7.08	-0.03
	7952.00	71.36	1.35	2.9	-11.40	1418.04	7449.58	2319.58	-10.16	87.00	7.82	7.82	0.34
	8039.00	77.99	1.15	153.5	72.44	1419.87	7472.57	2342.57	73.68	87.00	7.62	7.62	-0.23
	8127.00	84.02	0.41	-9.5	159.31	1421.05	7486.32	2356.32	160.55	88.00	6.90	6.85	-0.84
	8214.00	89.21	359.07	179.9	246.13	1420.65	7491.45	2361.45	247.37	87.00	6.16	5.97	-1.54
	8302.00	91.29	359.41	179.9	334.11	1419.49	7491.07	2361.07	335.35	88.00	2.40	2.36	0.39
	8389.00	91.05	359.43	130.6	421.09	1418.60	7489.29	2359.29	422.33	87.00	0.28	-0.28	0.02
	8477.00	89.73	359.14	181.6	509.08	1417.51	7488.69	2358.69	510.32	88.00	1.54	-1.50	-0.33
	8564.00	90.92	358.90	182.5	596.06	1416.02	7488.20	2358.20	597.30	87.00	1.40	1.37	-0.28
	8651.00	89.47	359.19	183.4	683.05	1414.57	7487.90	2357.90	684.28	87.00	1.70	-1.67	0.33
	8738.00	89.81	358.99	-42.0	770.04	1413.19	7488.45	2358.45	771.27	87.00	0.45	0.39	-0.23
	8825.00	90.27	358.72	266.2	857.02	1411.45	7488.39	2358.39	858.25	87.00	0.61	0.53	-0.31
	8913.00	90.75	357.85	189.6	944.98	1408.82	7487.61	2357.61	946.20	88.00	1.13	0.55	-0.99
	9001.00	90.35	359.33	149.9	1032.94	1406.65	7486.76	2356.76	1034.17	88.00	1.74	-0.45	1.68
	9088.00	91.01	359.20	158.7	1119.93	1405.53	7485.73	2355.73	1121.15	87.00	0.77	0.76	-0.15
	9175.00	90.65	0.18	129.7	1206.92	1405.06	7484.47	2354.47	1208.14	87.00	1.20	-0.41	1.13
	9263.00	91.76	0.15	193.1	1294.90	1405.32	7482.62	2352.62	1296.12	88.00	1.26	1.26	-0.03
	9350.00	89.75	359.96	191.3	1381.88	1405.40	7481.47	2351.47	1383.11	87.00	2.32	-2.31	-0.22
	9438.00	90.62	0.31	143.8	1469.88	1405.61	7481.19	2351.19	1471.11	88.00	1.07	0.99	0.40
	9525.00	89.68	0.57	194.0	1556.88	1406.28	7480.96	2350.96	1558.10	87.00	1.12	-1.08	0.30
	9612.00	89.42	0.15	234.5	1643.87	1406.82	7481.64	2351.64	1645.10	87.00	0.57	-0.30	-0.48
	9700.00	89.95	359.51	-35.0	1731.87	1406.56	7482.13	2352.13	1733.10	88.00	0.94	0.60	-0.73
	9787.00	90.02	359.12	199.2	1818.86	1405.52	7482.15	2352.15	1820.09	87.00	0.46	0.09	-0.45
	9875.00	90.79	359.76	181.6	1906.86	1404.66	7481.53	2351.53	1908.08	88.00	1.14	0.87	0.73
	9962.00	90.69	1.18	199.2	1993.84	1405.37	7480.40	2350.40	1995.07	87.00	1.64	-0.12	1.63
	10050.00	90.04	0.88	199.2	2081.83	1406.96	7479.84	2349.84	2083.05	88.00	0.81	-0.74	-0.34
	10137.00	91.09	1.42	197.5	2168.80	1408.70	7478.99	2348.99	2170.03	87.00	1.36	1.21	0.62
	10225.00	88.95	0.13	201.0	2256.79	1409.89	7478.96	2348.96	2258.02	88.00	2.84	-2.43	-1.47
	10312.00	89.76	0.11	-18.3	2343.78	1410.07	7479.93	2349.93	2345.01	87.00	0.93	0.93	-0.02
	10399.00	90.50	359.39	257.4	2430.78	1409.70	7479.74	2349.74	2432.01	87.00	1.19	0.85	-0.83
	10487.00	87.87	359.23	66.3	2518.76	1408.64	7480.99	2350.99	2519.99	88.00	2.99	-2.99	-0.18
	10574.00	88.56	359.37	206.3	2605.71	1407.57	7483.70	2353.70	2606.94	87.00	0.81	0.79	0.16
	10662.00	88.64	358.60	212.5	2693.67	1406.01	7485.85	2355.85	2694.89	88.00	0.88	0.09	-0.87
	10749.00	89.44	359.20	208.9	2780.64	1404.35	7487.31	2357.31	2781.86	87.00	1.15	0.92	0.69
	10837.00	88.91	358.40	209.8	2868.61	1402.50	7488.57	2358.57	2869.83	88.00	1.09	-0.60	-0.91
	10924.00	88.76	357.44	273.2	2955.53	1399.35	7490.34	2360.34	2956.75	87.00	1.12	-0.18	-1.10
	11012.00	89.18	357.55	209.8	3043.43	1395.50	7491.92	2361.92	3044.65	88.00	0.49	0.48	0.12
	11100.00	89.99	0.22	157.9	3131.41	1393.79	7492.56	2362.56	3132.62	88.00	3.17	0.92	3.03
	11187.00	90.92	359.92	212.5	3218.40	1393.89	7491.87	2361.87	3219.62	87.00	1.12	1.07	-0.34
	11275.00	92.16	359.28	214.2	3306.37	1393.28	7489.51	2359.51	3307.58	88.00	1.59	1.41	-0.73
	11362.00	91.53	1.09	328.7	3393.32	1393.56	7486.70	2356.70	3394.53	87.00	2.20	-0.72	2.08
	11450.00	91.18	2.41	212.5	3481.25	1396.25	7484.62	2354.62	3482.47	88.00	1.55	-0.40	1.50
	11537.00	91.42	1.90	75.1	3568.16	1399.52	7482.65	2352.65	3569.38	87.00	0.65	0.28	-0.59
	11625.00	89.98	0.76	-69.3	3656.13	1401.56	7481.57	2351.57	3657.35	88.00	2.09	-1.64	-1.30
	11712.00	90.36	0.31	215.1	3743.13	1402.37	7481.32	2351.32	3744.35	87.00	0.68	0.44	-0.52
	11799.00	90.99	359.91	252.1	3830.12	1402.54	7480.29	2350.29	3831.34	87.00	0.86	0.72	-0.46
	11887.00	90.18	0.61	215.1	3918.11	1402.94	7479.39	2349.39	3919.34	88.00	1.22	-0.92	0.80
	11975.00	89.41	0.61	347.2	4006.11	1403.88	7479.71	2349.71	4007.33	88.00	0.87	-0.87	0.00
	12062.00	89.18	359.43	68.9	4093.10	1403.91	7480.78	2350.78	4094.32	87.00	1.38	-0.26	-1.36
	12150.00	89.24	1.03	216.9	4181.09	1404.26	7481.99	2351.99	4182.31	88.00	1.82	0.07	1.82
	12237.00	89.96	1.34	202.8	4268.06	1406.06	7482.60	2352.60	4269.29	87.00	0.90	0.83	0.36

	12325.00	89.99	1.39	220.4	4356.04	1408.16	7482.64	2352.64	4357.27	88.00	0.07	0.03	0.06
	12412.00	90.42	0.94	222.1	4443.02	1409.92	7482.33	2352.33	4444.25	87.00	0.72	0.49	-0.52
	12500.00	90.19	0.07	223.0	4531.02	1410.70	7481.86	2351.86	4532.24	88.00	1.02	-0.26	-0.99
	12588.00	89.90	359.59	223.9	4619.01	1410.44	7481.79	2351.79	4620.24	88.00	0.64	-0.33	-0.55
	12675.00	90.50	359.64	224.8	4706.01	1409.85	7481.49	2351.49	4707.24	87.00	0.69	0.69	0.06
	12763.00	89.78	357.85	224.8	4793.99	1407.93	7481.27	2351.27	4795.21	88.00	2.19	-0.82	-2.03
	12851.00	90.48	0.87	223.9	4881.97	1406.94	7481.07	2351.07	4883.20	88.00	3.52	0.80	3.43
	12938.00	90.01	359.48	224.8	4968.97	1407.21	7480.70	2350.70	4970.19	87.00	1.69	-0.54	-1.60
	13026.00	89.95	358.30	226.5	5056.95	1405.50	7480.73	2350.73	5058.17	88.00	1.34	-0.07	-1.34
	13113.00	90.28	359.21	222.1	5143.93	1403.61	7480.55	2350.55	5145.15	87.00	1.11	0.38	1.05
	13201.00	90.12	359.29	-44.7	5231.92	1402.46	7480.25	2350.25	5233.14	88.00	0.20	-0.18	0.09
	13550.00	91.22	1.11	202.8	5580.79	1407.80	7474.45	2344.45	5582.02	87.00	0.98	-0.98	-102.63
	13638.00	90.41	1.39	225.7	5668.76	1409.72	7473.20	2343.20	5669.99	88.00	0.97	-0.92	0.32
	13725.00	90.07	2.06	154.3	5755.72	1412.33	7472.83	2342.83	5756.95	87.00	0.86	-0.39	0.77
	13813.00	90.01	2.91	164.0	5843.63	1416.15	7472.77	2342.77	5844.87	88.00	0.97	-0.07	0.97
	13900.00	91.13	2.11	96.2	5930.54	1419.96	7471.91	2341.91	5931.78	87.00	1.58	1.29	-0.92
	13988.00	90.56	1.15	228.3	6018.50	1422.46	7470.61	2340.61	6019.74	88.00	1.27	-0.65	-1.09
	14075.00	89.16	0.94	152.6	6105.48	1424.05	7470.82	2340.82	6106.72	87.00	1.63	-1.61	-0.24
	14163.00	89.76	1.09	231.0	6193.46	1425.61	7471.65	2341.65	6194.70	88.00	0.70	0.68	0.17
	14250.00	90.55	1.26	231.8	6280.44	1427.39	7471.42	2341.42	6281.69	87.00	0.93	0.91	0.20
	14337.00	89.55	0.68	231.0	6367.43	1428.86	7471.34	2341.34	6368.67	87.00	1.33	-1.15	-0.67
	14425.00	90.62	0.91	232.7	6455.42	1430.09	7471.21	2341.21	6456.67	88.00	1.24	1.22	0.26
	14513.00	90.22	1.82	231.0	6543.39	1432.18	7470.57	2340.57	6544.64	88.00	1.13	-0.45	1.03
	14600.00	88.84	1.38	231.0	6630.35	1434.61	7471.28	2341.28	6631.60	87.00	1.66	-1.59	-0.51
	14687.00	88.96	1.22	233.6	6717.31	1436.58	7472.95	2342.95	6718.57	87.00	0.23	0.14	-0.18
	14775.00	89.96	1.50	234.5	6805.28	1438.67	7473.78	2343.78	6806.54	88.00	1.18	1.14	0.32
	14863.00	90.99	1.52	235.4	6893.25	1440.99	7473.05	2343.05	6894.50	88.00	1.17	1.17	0.02
	14950.00	88.93	0.55	233.6	6980.23	1442.56	7473.11	2343.11	6981.49	87.00	2.62	-2.37	-1.11
	15038.00	89.07	0.40	236.2	7068.21	1443.29	7474.65	2344.65	7069.47	88.00	0.23	0.16	-0.17
	15125.00	90.24	0.44	237.1	7155.21	1443.93	7475.17	2345.17	7156.46	87.00	1.35	1.34	0.05
	15213.00	89.81	359.79	236.2	7243.21	1444.11	7475.13	2345.13	7244.46	88.00	0.89	-0.49	-0.74
	15300.00	90.35	0.95	238.0	7330.20	1444.67	7475.01	2345.01	7331.46	87.00	1.47	0.62	1.33
	15388.00	89.22	358.73	237.1	7418.19	1444.42	7475.34	2345.34	7419.45	88.00	2.83	-1.28	-2.52
	15475.00	89.88	358.57	238.9	7505.17	1442.37	7476.02	2346.02	7506.42	87.00	0.78	0.76	-0.18
	15563.00	90.27	358.22	239.8	7593.13	1439.91	7475.91	2345.91	7594.39	88.00	0.60	0.44	-0.40
	15650.00	90.98	358.33	240.6	7680.09	1437.29	7474.96	2344.96	7681.34	87.00	0.83	0.82	0.13
	15738.00	91.53	358.15	241.5	7768.02	1434.59	7473.03	2343.03	7769.27	88.00	0.66	0.62	-0.20
	15825.00	89.85	358.87	238.9	7854.99	1432.33	7471.98	2341.98	7856.23	87.00	2.10	-1.93	0.83
	15912.00	89.36	359.16	240.6	7941.97	1430.83	7472.58	2342.58	7943.22	87.00	0.65	-0.56	0.33
	16000.00	88.90	359.76	241.5	8029.96	1430.00	7473.92	2343.92	8031.20	88.00	0.86	-0.52	0.68
	16087.00	88.64	0.03	242.4	8116.93	1429.84	7475.79	2345.79	8118.18	87.00	0.43	-0.30	0.31
	16174.00	88.27	0.66	242.4	8203.90	1430.36	7478.13	2348.13	8205.15	87.00	0.84	-0.43	0.72
	16263.00	89.92	359.63	241.5	8292.89	1430.59	7479.54	2349.54	8294.13	89.00	2.19	1.85	-1.16
	16350.00	90.08	359.48	241.5	8379.88	1429.91	7479.54	2349.54	8381.13	87.00	0.25	0.18	-0.17
	16437.00	91.02	358.65	242.4	8466.87	1428.49	7478.70	2348.70	8468.11	87.00	1.44	1.08	-0.95
	16525.00	91.87	358.55	243.3	8554.81	1426.35	7476.48	2346.48	8556.05	88.00	0.97	0.97	-0.11
	16612.00	91.44	358.29	239.8	8641.74	1423.95	7473.97	2343.97	8642.98	87.00	0.58	-0.49	-0.30
	16699.00	90.88	359.15	238.9	8728.70	1422.00	7472.21	2342.21	8729.94	87.00	1.18	-0.64	0.99
	16787.00	89.81	359.37	239.8	8816.69	1420.87	7471.68	2341.68	8817.93	88.00	1.24	-1.22	0.25
	16874.00	90.22	359.03	241.5	8903.68	1419.65	7471.66	2341.66	8904.92	87.00	0.61	0.47	-0.39
	16961.00	90.81	358.46	242.4	8990.66	1417.75	7470.88	2340.88	8991.89	87.00	0.94	0.68	-0.66
	17049.00	90.12	358.93	240.6	9078.63	1415.74	7470.16	2340.16	9079.86	88.00	0.95	-0.78	0.53
	17137.00	89.16	0.02	239.8	9166.62	1414.94	7470.71	2340.71	9167.85	88.00	1.65	-1.09	1.24
	17225.00	89.59	359.44	241.5	9254.61	1414.52	7471.67	2341.67	9255.85	88.00	0.82	0.49	-0.66
	17312.00	89.38	0.07	240.6	9341.61	1414.15	7472.46	2342.46	9342.84	87.00	0.76	-0.24	0.72
	17399.00	89.42	359.58	242.4	9428.60	1413.89	7473.37	2343.37	9429.83	87.00	0.57	0.05	-0.56
	17487.00	89.36	359.55	243.3	9516.60	1413.22	7474.30	2344.30	9517.83	88.00	0.08	-0.07	-0.03
	17574.00	89.44	359.20	244.2	9603.59	1412.27	7475.22	2345.22	9604.82	87.00	0.41	0.09	-0.40
	17662.00	89.48	358.57	245.0	9691.57	1410.56	7476.04	2346.04	9692.79	88.00	0.72	0.05	-0.72
	17749.00	89.68	359.88	242.4	9778.55	1409.38	7476.68	2346.68	9779.78	87.00	1.52	0.23	1.51
	17837.00	90.75	358.81	245.0	9866.54	1408.37	7476.35	2346.35	9867.77	88.00	1.72	1.22	-1.22
	17924.00	90.41	359.89	243.3	9953.53	1407.39	7475.47	2345.47	9954.76	87.00	1.30	-0.39	1.24
Projection	18347.00	92.72	359.75	N/A	10376.30	1407.23	7462.32	2332.32	10377.52	51.00	0.00	0.55	-0.03