



Mnemonic	Name	Description
GAM	NaviGamma	Probe Based Gamma Module, NaviTrak Platform

Comments


1	Depth measurements 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 an 8 ½ inch bit from 1938 to 10974 feet MD (1938 to 5840 feet TVD).

Remarks

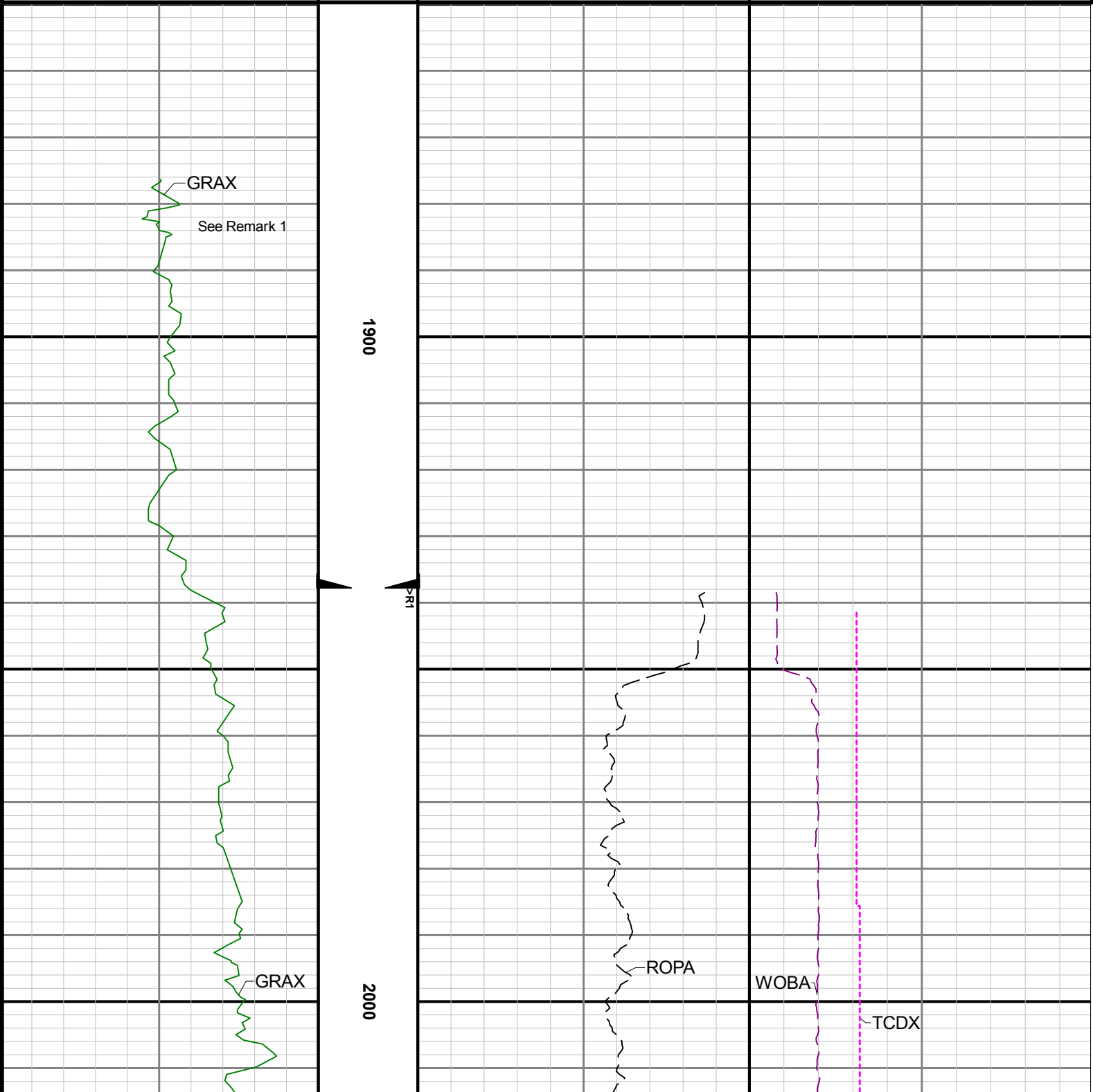
Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	1876.00	8.500	1	Gamma Ray logging operations began at 1876 feet (1876 feet TVD).
2	2078.00	8.500	1	The interval from 2073 to 2084 feet MD (2073 to 2084 feet TVD) has no Gamma Ray data due to surface depth tracking problems.

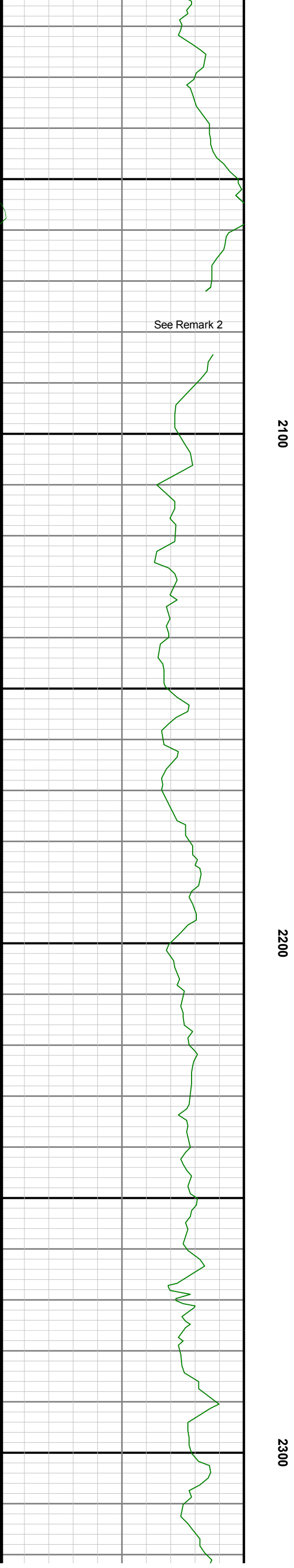
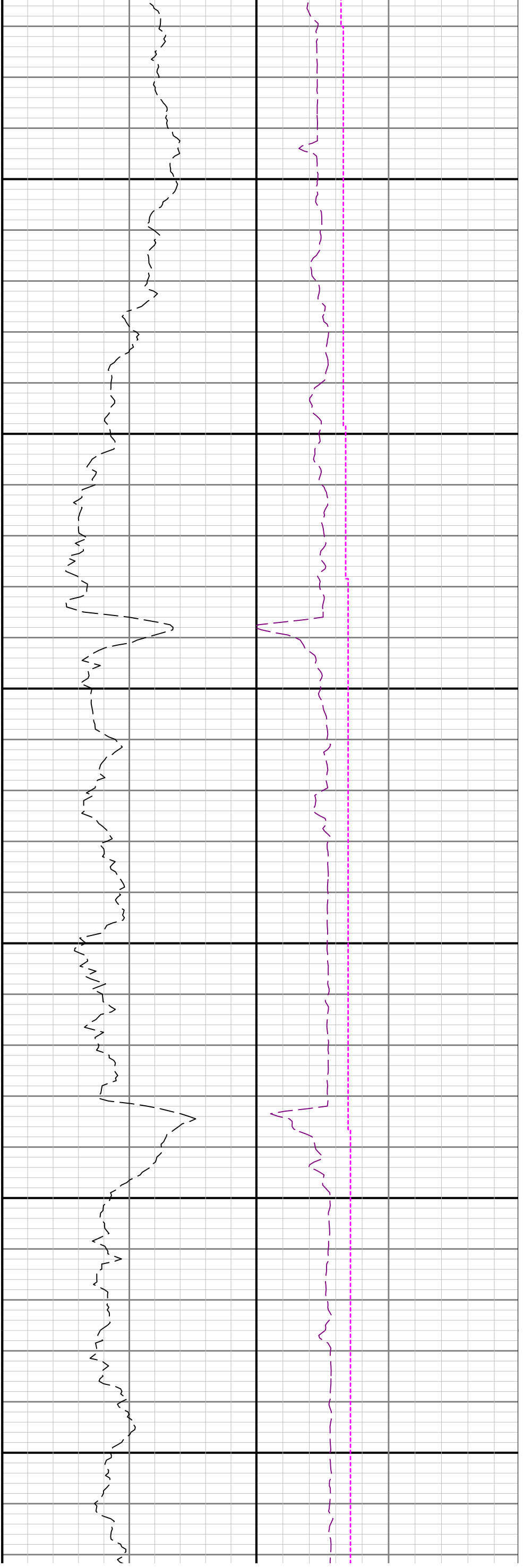
Curve Mnemonics

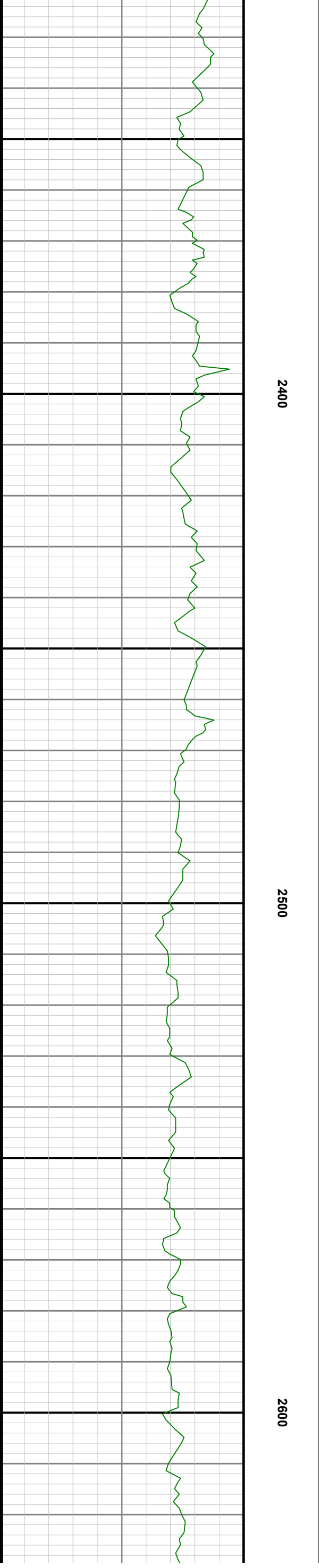
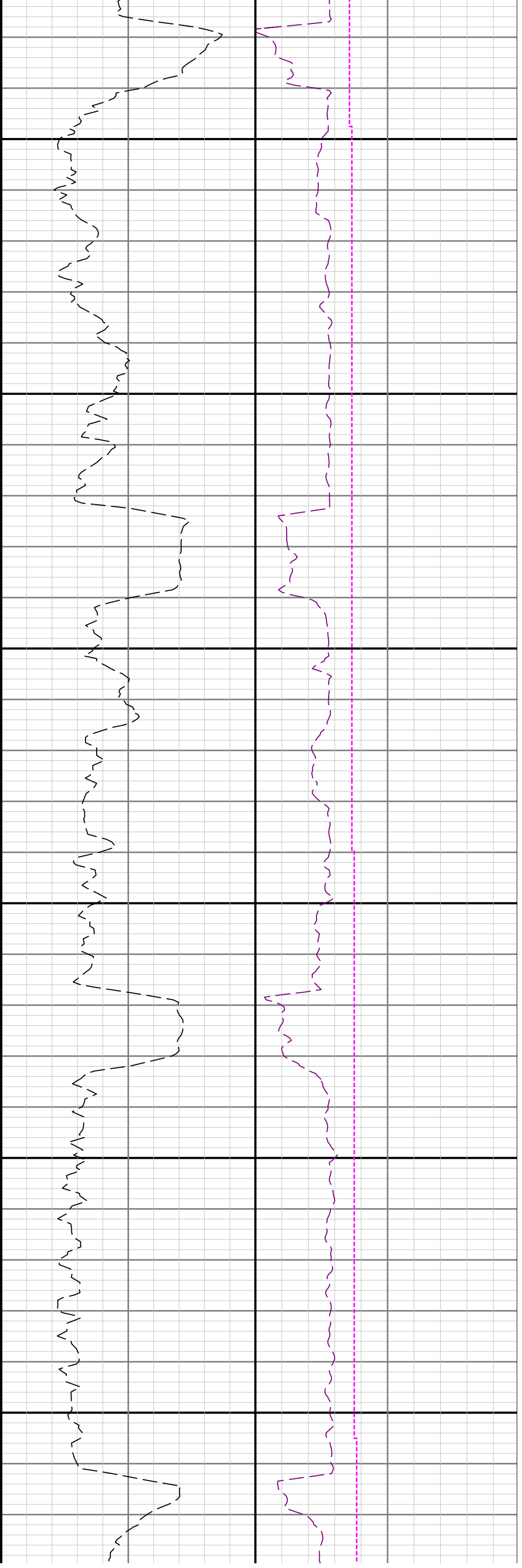
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
GRAX	Gamma Ray - Apparent 0.5 ft Average	API
TCDX	Downhole Temperature	degF
WOBA	Weight On Bit, Average 1 ft Average	klb

	<b>Company</b>	Noble Energy			
	<b>Well</b>	ANNI LD29-763			
	<b>Interval</b>	<b>Date From:</b>	2016-10-18 08:23:28	<b>Top:</b>	1876.00
	<b>Created</b>	<b>Date To:</b>	2016-10-19 04:49:44	<b>Bottom:</b>	5858.00
		2016-10-20 11:38			

Gamma Ray Apparent 0.5 ft Average GRAX	TVD 1:240 feet	Rate of Penetration 3 ft Average ROPA	Surface Weight On Bit 1 ft Average WOBA
0 150		1000 0	0 100
API		ft/h	klb
			Downhole Temperature TCDX
			0 300
			degF





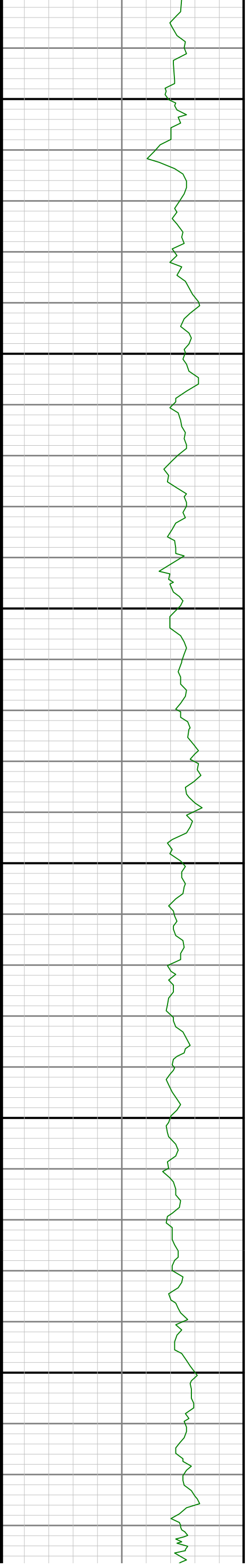


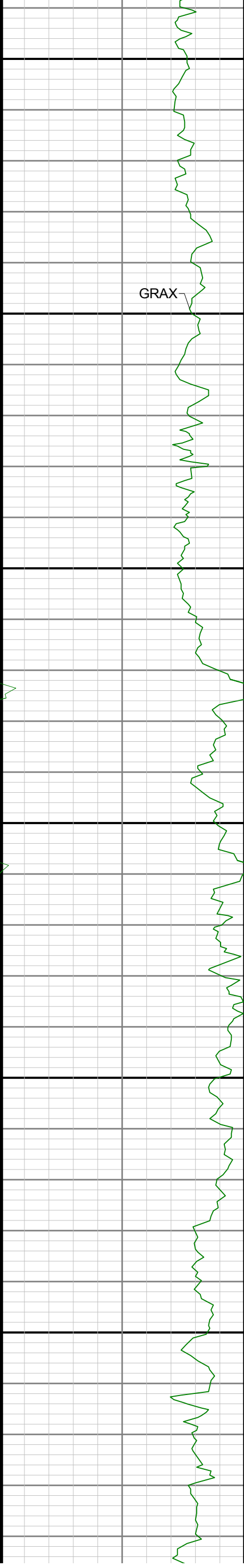


2700

2800

2900

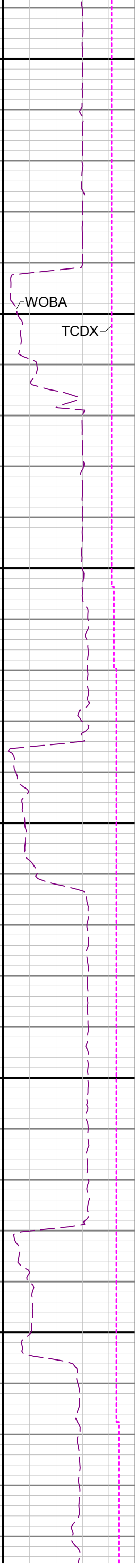
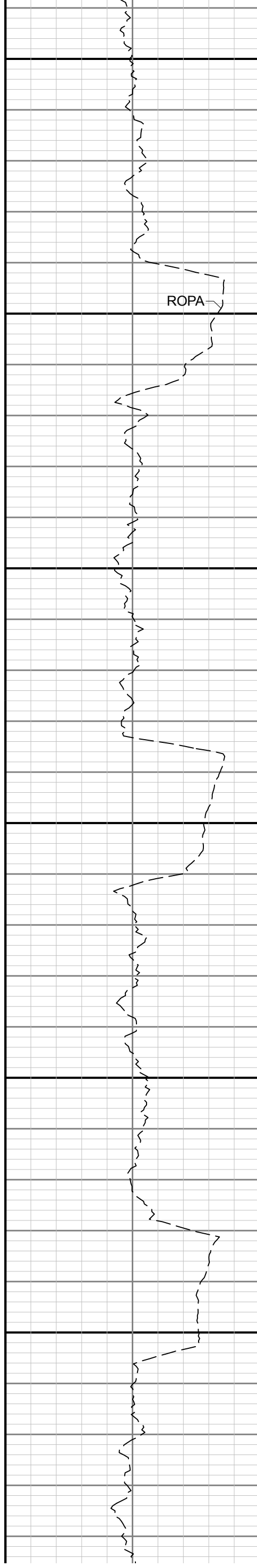


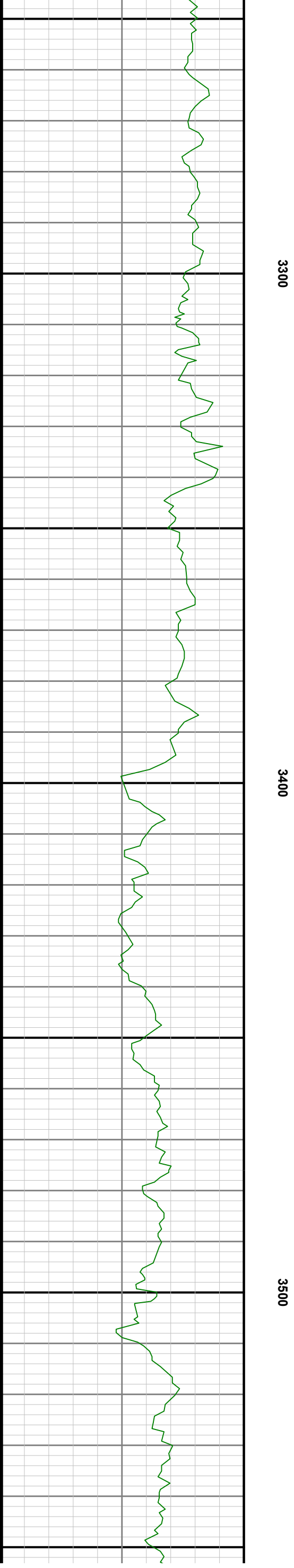
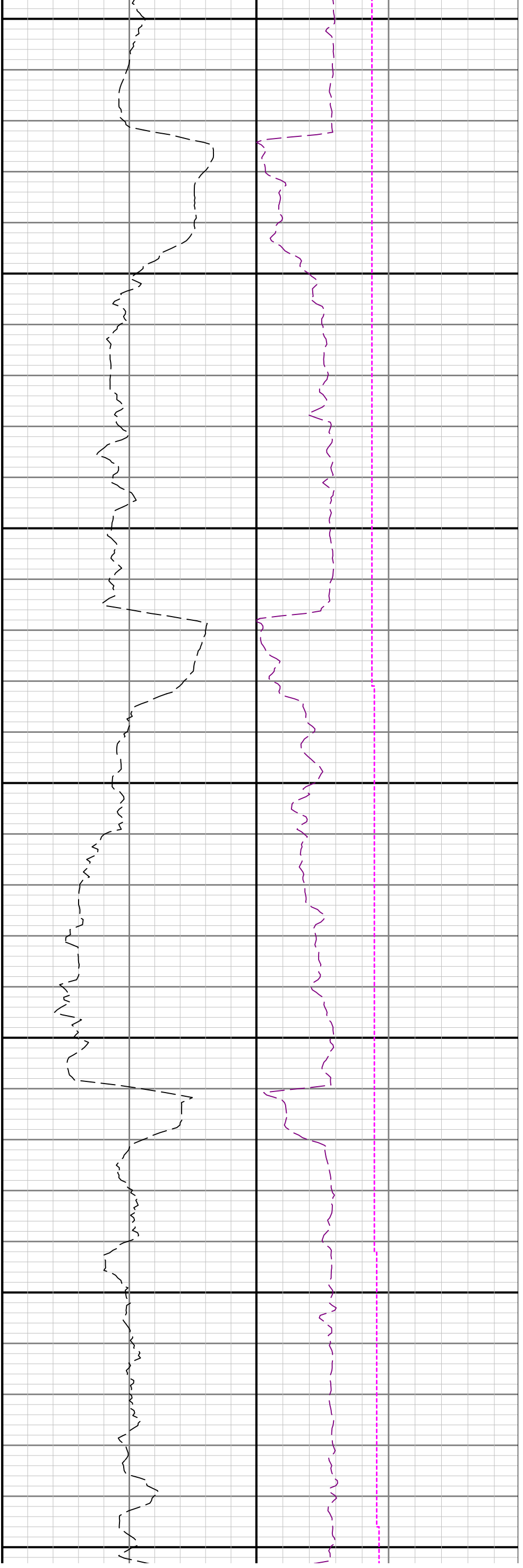


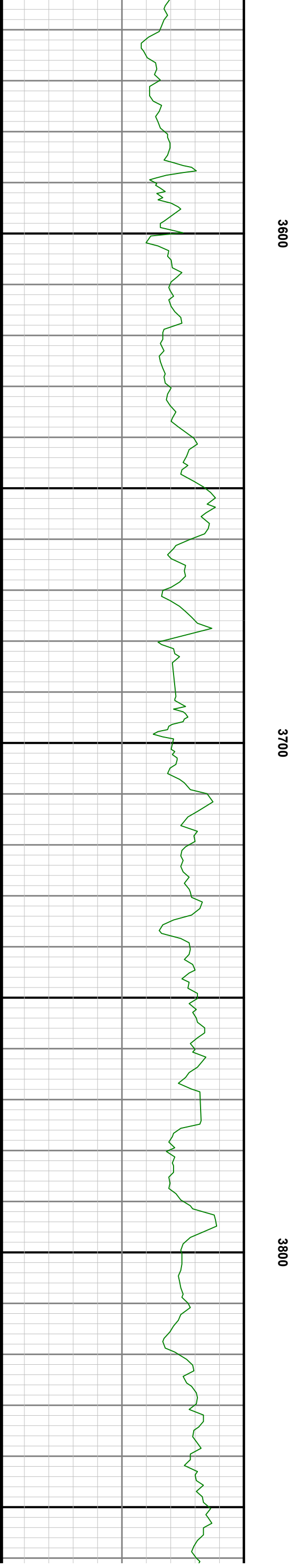
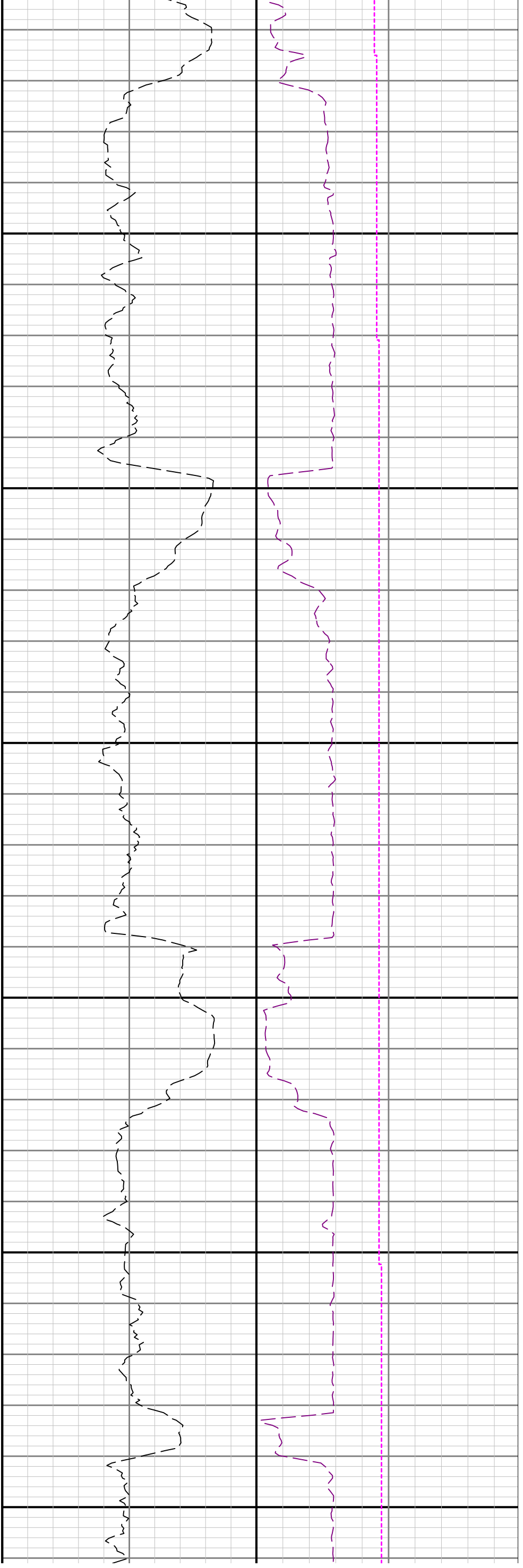
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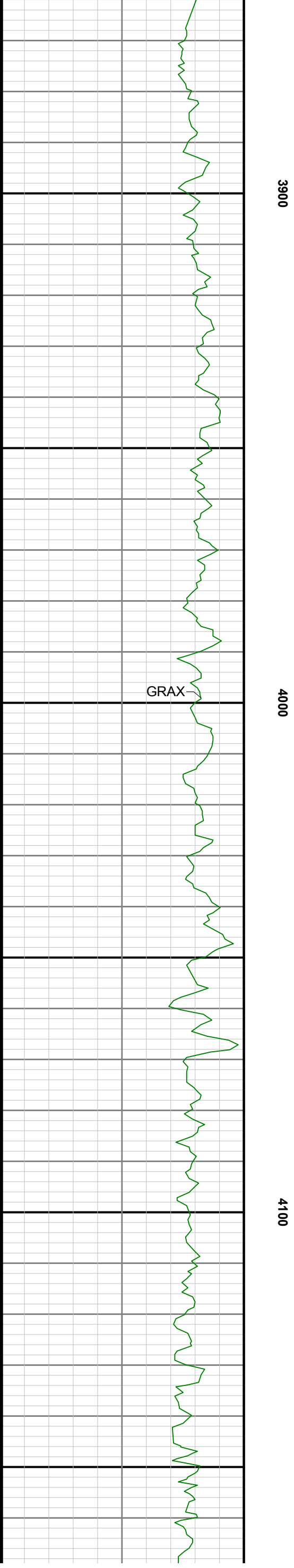
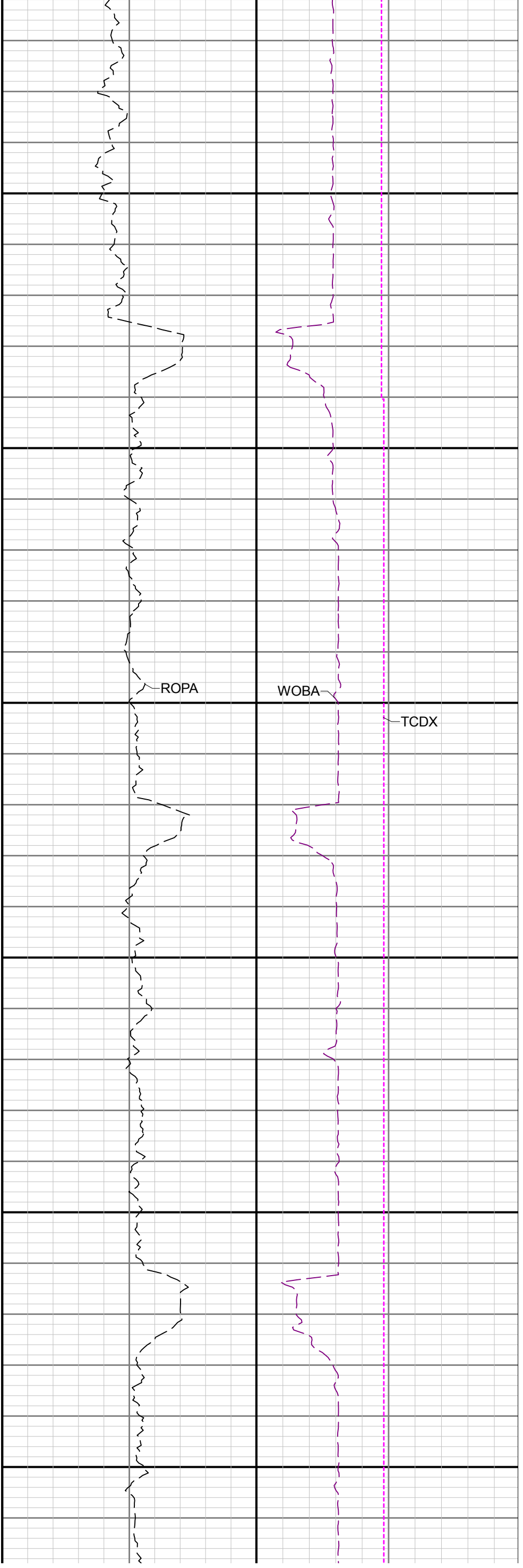
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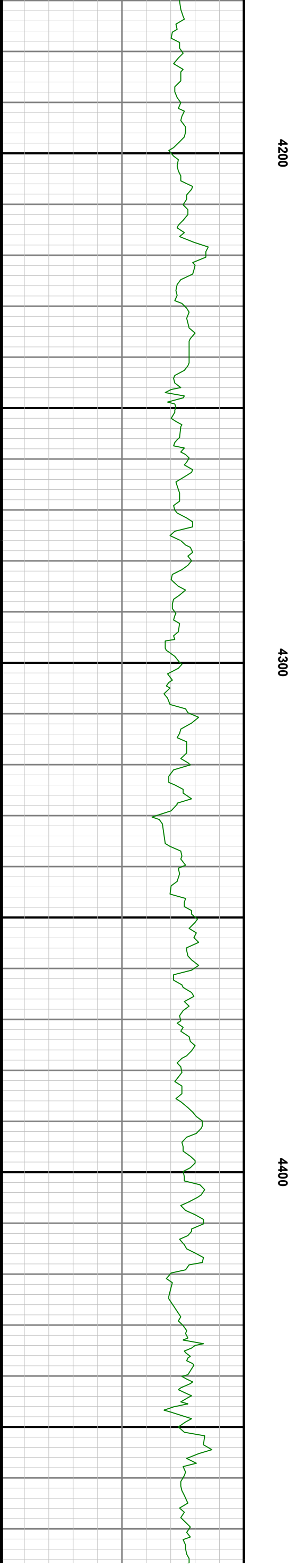
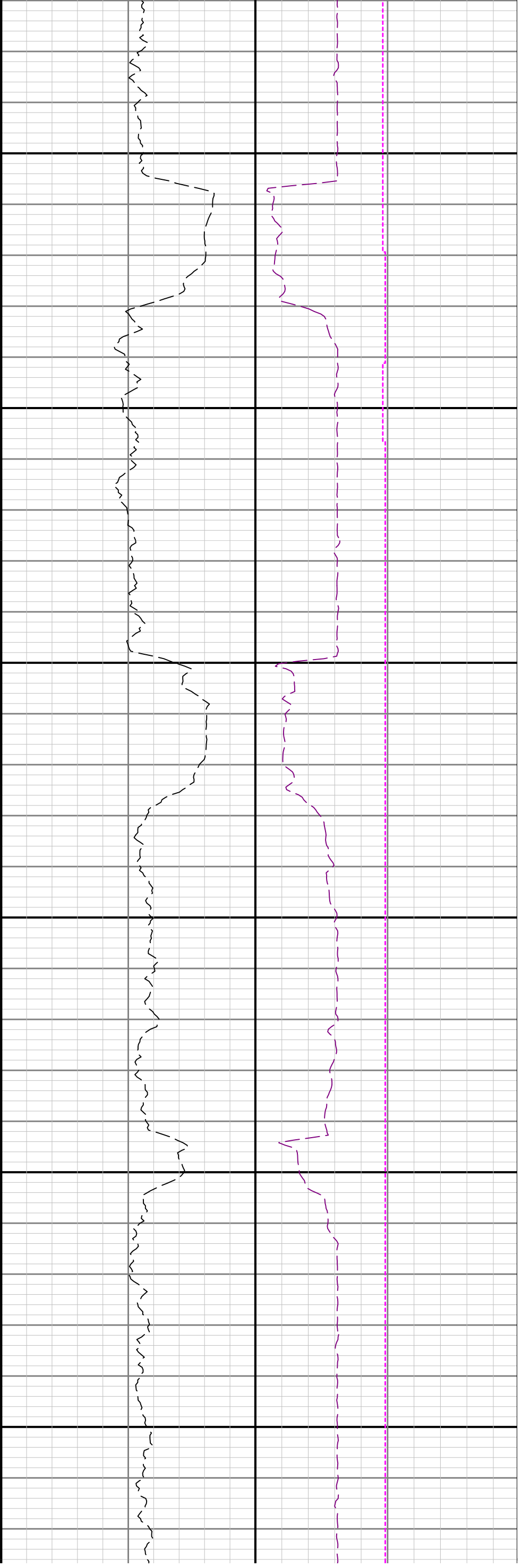


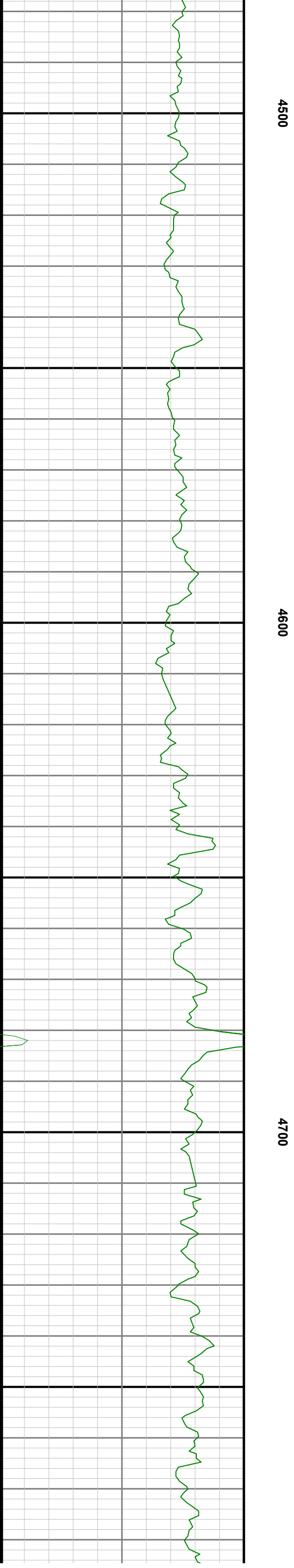
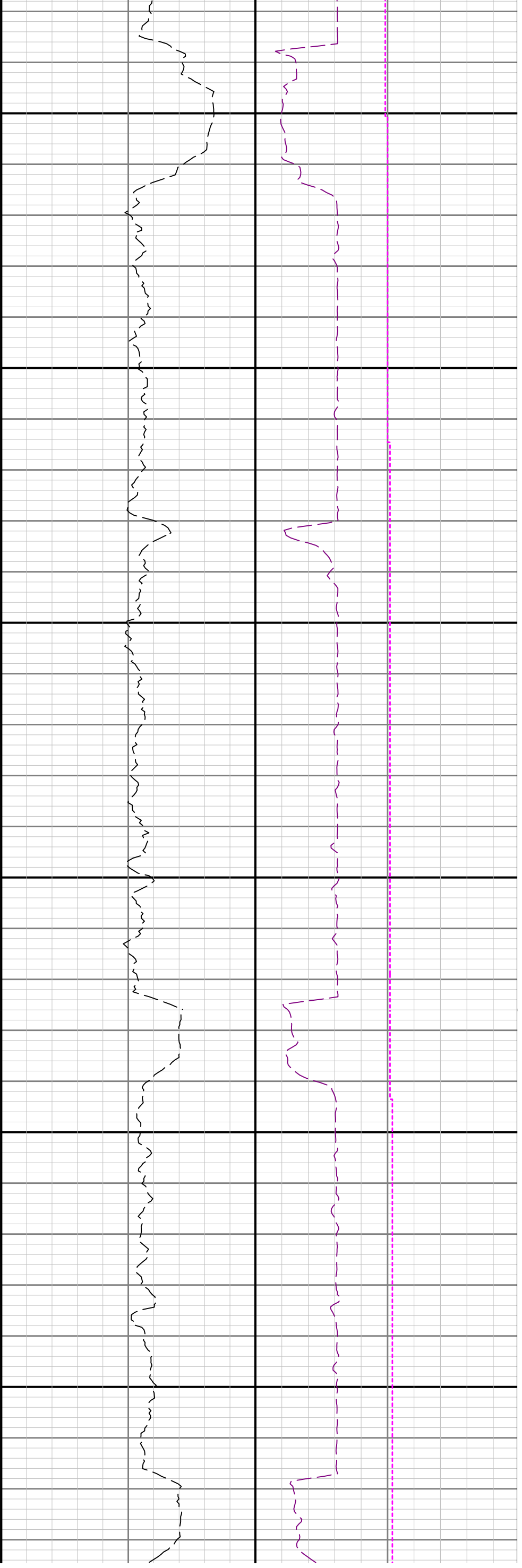


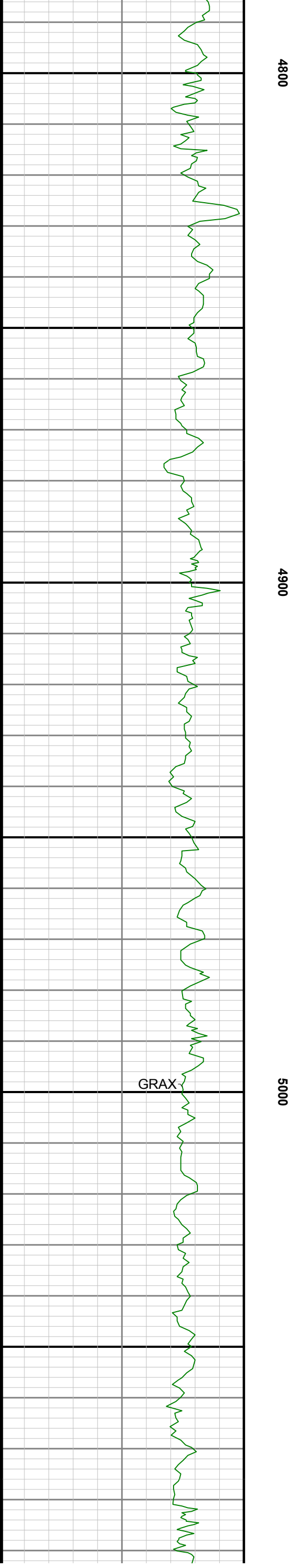
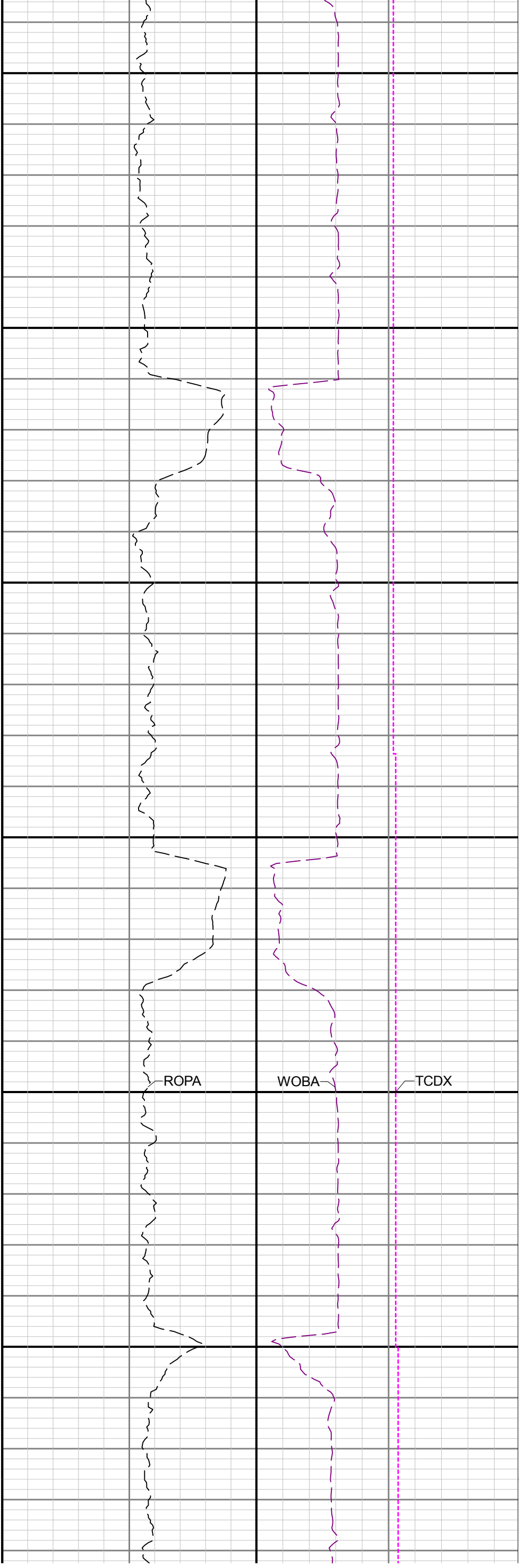


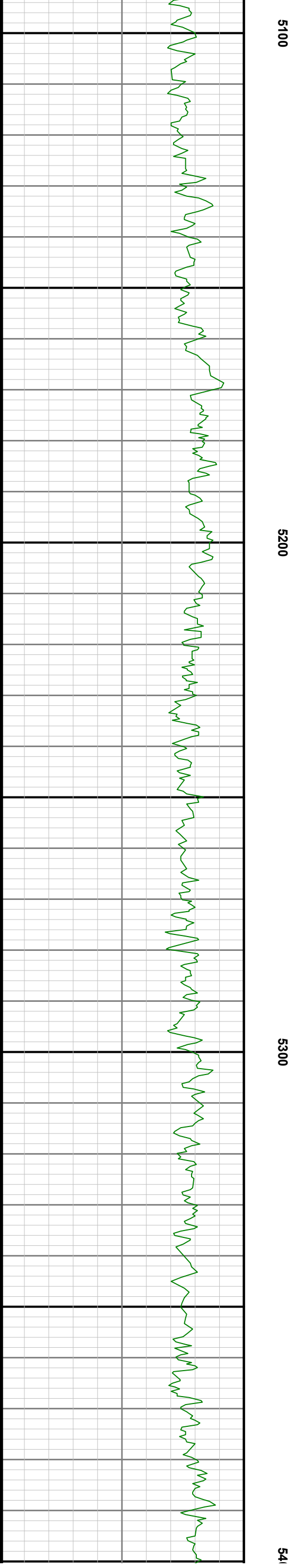
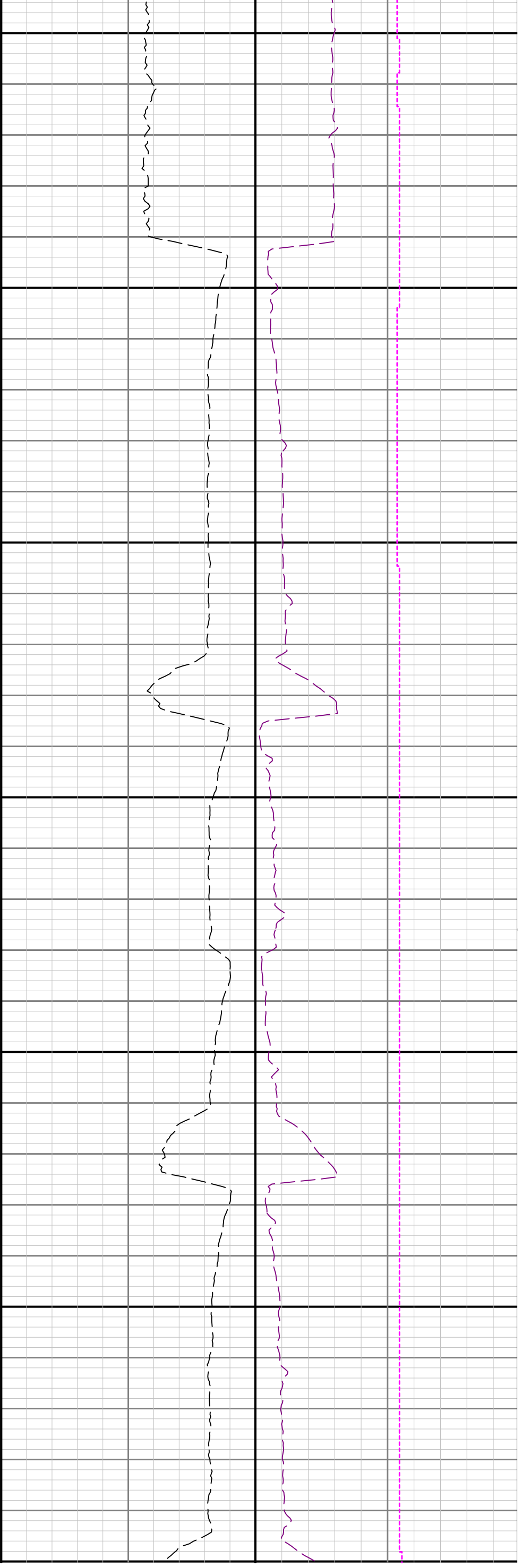


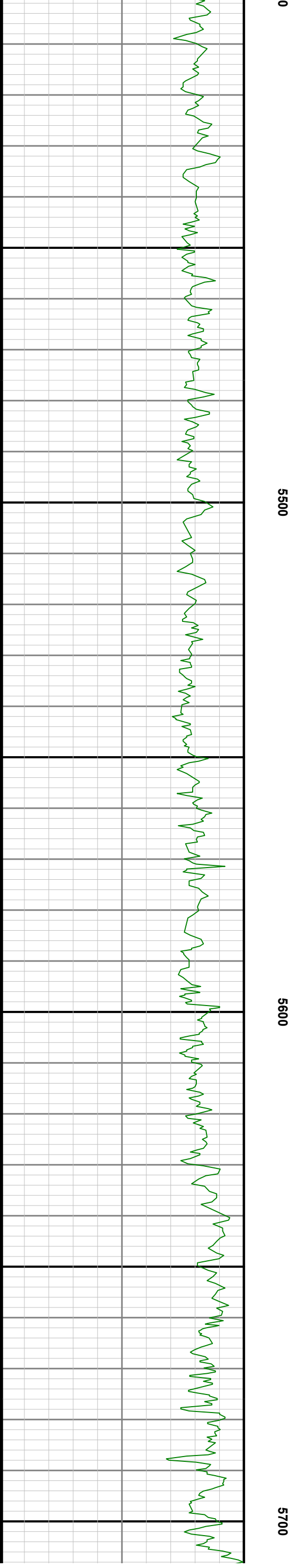
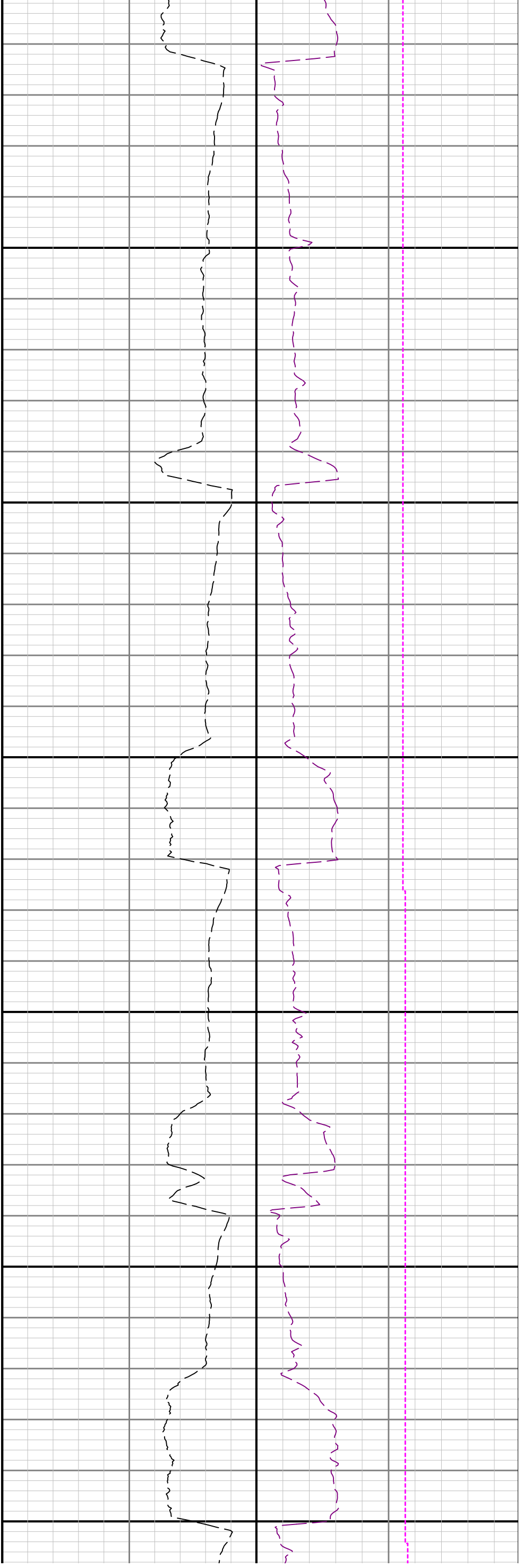














	2263.00	0.94	85.80	N/A	-3.27	0.79	2262.97	3.34	95.00	0.34	0.12	-20.93
	2357.00	0.53	159.61	N/A	-3.62	1.71	2356.96	3.79	94.00	1.00	-0.44	78.52
	2452.00	0.66	179.82	N/A	-4.58	1.86	2451.95	4.76	95.00	0.26	0.14	21.27
	2546.00	0.63	211.95	N/A	-5.56	1.59	2545.95	5.70	94.00	0.38	-0.03	34.18
	2641.00	0.62	217.06	N/A	-6.42	1.01	2640.94	6.49	95.00	0.06	-0.01	5.38
	2736.00	0.68	203.37	N/A	-7.34	0.47	2735.94	7.35	95.00	0.17	0.06	-14.41
	2830.00	0.65	202.92	N/A	-8.35	0.04	2829.93	8.30	94.00	0.03	-0.03	-0.48
	2925.00	0.92	201.19	N/A	-9.55	-0.44	2924.92	9.45	95.00	0.29	0.28	-1.82
	3019.00	0.36	132.70	N/A	-10.46	-0.50	3018.92	10.34	94.00	0.91	-0.60	-72.86
	3114.00	2.64	94.85	N/A	-10.85	1.90	3113.88	10.99	95.00	2.49	2.40	-39.84
	3209.00	5.32	94.64	N/A	-11.39	8.47	3208.64	12.24	95.00	2.82	2.82	-0.22
	3303.00	8.17	91.36	N/A	-11.90	19.50	3301.98	13.95	94.00	3.06	3.03	-3.49
	3398.00	9.97	84.08	N/A	-11.21	34.43	3395.79	14.90	95.00	2.24	1.89	-7.66
	3492.00	10.59	80.73	N/A	-8.98	51.05	3488.28	14.49	94.00	0.92	0.66	-3.56
	3587.00	10.71	80.84	N/A	-6.17	68.38	3581.65	13.59	95.00	0.13	0.13	0.12
	3681.00	9.94	78.29	N/A	-3.13	84.94	3674.12	12.37	94.00	0.95	-0.82	-2.71
	3776.00	9.25	78.17	N/A	0.10	100.45	3767.80	10.85	95.00	0.73	-0.73	-0.13
	3871.00	9.14	78.57	N/A	3.16	115.31	3861.57	9.43	95.00	0.13	-0.12	0.42
	3965.00	9.02	79.36	N/A	6.00	129.87	3954.40	8.20	94.00	0.18	-0.13	0.84
	4060.00	9.46	80.98	N/A	8.60	144.90	4048.16	7.25	95.00	0.54	0.46	1.71
	4154.00	9.91	83.52	N/A	10.72	160.57	4140.82	6.85	94.00	0.66	0.48	2.70
	4249.00	9.29	82.61	N/A	12.63	176.30	4234.49	6.67	95.00	0.67	-0.65	-0.96
	4343.00	8.34	77.34	N/A	15.10	190.47	4327.38	5.76	94.00	1.33	-1.01	-5.61
	4438.00	7.74	74.81	N/A	18.29	203.37	4421.45	4.00	95.00	0.73	-0.63	-2.66
	4533.00	8.13	78.74	N/A	21.28	216.13	4515.54	2.42	95.00	0.70	0.41	4.14
	4627.00	8.25	81.84	N/A	23.53	229.33	4608.58	1.62	94.00	0.49	0.13	3.30
	4722.00	7.87	85.25	N/A	25.04	242.55	4702.64	1.56	95.00	0.64	-0.40	3.59
	4817.00	7.82	84.37	N/A	26.21	255.47	4796.76	1.80	95.00	0.14	-0.05	-0.93
	4911.00	8.06	78.91	N/A	28.10	268.30	4889.86	1.32	94.00	0.84	0.26	-5.81
	5006.00	9.12	78.02	N/A	30.95	282.20	4983.79	0.01	95.00	1.12	1.12	-0.94
	5100.00	8.83	80.21	N/A	33.72	296.60	5076.64	-1.18	94.00	0.48	-0.31	2.33
	5195.00	8.48	95.55	N/A	34.28	310.76	5170.57	-0.19	95.00	2.45	-0.37	16.15
	5289.00	13.56	131.23	N/A	26.34	325.97	5262.90	9.36	94.00	8.81	5.40	37.96
	5384.00	19.95	145.01	N/A	5.69	343.66	5353.86	31.82	95.00	7.88	6.73	14.51
	5478.00	27.99	152.86	N/A	-27.14	362.96	5439.70	66.55	94.00	9.18	8.55	8.35
	5573.00	36.61	162.32	N/A	-74.09	381.78	5519.98	115.27	95.00	10.49	9.07	9.96
	5668.00	43.51	167.75	N/A	-133.12	397.34	5592.67	175.66	95.00	8.14	7.26	5.72
	5762.00	48.26	173.19	N/A	-199.63	408.38	5658.11	242.97	94.00	6.54	5.05	5.79
	5857.00	53.24	175.30	N/A	-272.80	415.70	5718.20	316.50	95.00	5.52	5.24	2.22
	5951.00	62.89	176.87	N/A	-352.29	421.09	5767.87	396.11	94.00	10.36	10.27	1.67
	6046.00	72.32	176.77	N/A	-439.90	425.96	5804.02	483.72	95.00	9.93	9.93	-0.11
	6140.00	76.71	178.09	N/A	-530.37	430.01	5829.11	574.09	94.00	4.86	4.67	1.40
	6235.00	80.19	177.76	N/A	-623.37	433.38	5848.13	666.91	95.00	3.68	3.66	-0.35
	6329.00	88.68	177.15	N/A	-716.75	437.53	5857.24	760.18	94.00	9.05	9.03	-0.65
	6424.00	90.46	175.61	N/A	-811.55	443.53	5857.95	855.07	95.00	2.48	1.87	-1.62
	6518.00	91.54	175.32	N/A	-905.24	450.96	5856.31	949.01	94.00	1.19	1.15	-0.31
	6613.00	91.35	176.00	N/A	-999.94	458.15	5853.91	1043.93	95.00	0.74	-0.20	0.72
	6707.00	90.22	177.31	N/A	-1093.76	463.63	5852.63	1137.80	94.00	1.84	-1.20	1.39
	6802.00	89.45	179.03	N/A	-1188.71	466.66	5852.90	1232.51	95.00	1.98	-0.81	1.81
	6896.00	90.95	179.13	N/A	-1282.69	468.17	5852.57	1326.10	94.00	1.60	1.60	0.11
	6991.00	91.20	178.48	N/A	-1377.66	470.15	5850.79	1420.71	95.00	0.73	0.26	-0.68
	7086.00	88.46	175.40	N/A	-1472.50	475.22	5851.07	1515.54	95.00	4.34	-2.88	-3.24
	7180.00	89.48	175.43	N/A	-1566.18	482.74	5852.76	1609.48	94.00	1.09	1.09	0.03
	7275.00	90.12	176.96	N/A	-1660.97	489.04	5853.09	1704.39	95.00	1.75	0.67	1.61
	7369.00	89.72	177.76	N/A	-1754.87	493.37	5853.22	1798.20	94.00	0.95	-0.43	0.85
	7463.00	89.54	178.11	N/A	-1848.81	496.76	5853.83	1891.95	94.00	0.42	-0.19	0.37
	7558.00	91.79	178.28	N/A	-1943.75	499.75	5852.73	1986.65	95.00	2.38	2.37	0.18
	7652.00	91.66	179.23	N/A	-2037.68	501.79	5849.90	2080.25	94.00	1.02	-0.14	1.01
	7747.00	89.94	179.27	N/A	-2132.66	503.03	5848.57	2174.79	95.00	1.81	-1.81	0.04
	7841.00	88.80	179.39	N/A	-2226.65	504.13	5849.61	2268.34	94.00	1.22	-1.21	0.13
	7936.00	90.06	179.49	N/A	-2321.63	505.06	5850.55	2362.86	95.00	1.33	1.33	0.11
	8030.00	89.48	179.46	N/A	-2415.63	505.92	5850.93	2456.39	94.00	0.62	-0.62	-0.03
	8125.00	89.57	179.76	N/A	-2510.62	506.57	5851.72	2550.89	95.00	0.33	0.09	0.32
	8219.00	91.20	179.83	N/A	-2604.62	506.91	5851.08	2644.36	94.00	1.74	1.73	0.07
	8314.00	90.40	178.82	N/A	-2699.60	508.03	5849.76	2738.90	95.00	1.36	-0.84	-1.06
	8408.00	88.98	178.44	N/A	-2793.57	510.27	5850.27	2832.55	94.00	1.56	-1.51	-0.40
	8503.00	90.25	178.13	N/A	-2888.52	513.12	5850.90	2927.25	95.00	1.38	1.34	-0.33
	8598.00	88.52	177.04	N/A	-2983.43	517.12	5851.92	3022.03	95.00	2.15	-1.82	-1.15
	8692.00	89.23	177.01	N/A	-3077.28	522.00	5853.77	3115.85	94.00	0.76	0.76	-0.03
	8787.00	90.49	176.73	N/A	-3172.14	527.18	5854.00	3210.71	95.00	1.36	1.33	-0.29
	8881.00	92.43	176.85	N/A	-3265.96	532.44	5851.61	3304.54	94.00	2.07	2.06	0.13
	8976.00	91.39	177.23	N/A	-3360.77	537.35	5848.44	3399.33	95.00	1.17	-1.09	0.40
	9070.00	90.25	179.46	N/A	-3454.72	540.06	5847.09	3493.01	94.00	2.66	-1.21	2.37
	9165.00	91.23	179.44	N/A	-3549.71	540.97	5845.87	3587.53	95.00	1.03	1.03	-0.02
	9260.00	90.55	181.36	N/A	-3644.69	540.31	5844.39	3681.87	95.00	2.14	-0.72	2.02
	9354.00	90.18	181.91	N/A	-3738.65	537.63	5843.79	3774.98	94.00	0.71	-0.39	0.59
	9449.00	89.97	177.69	N/A	-3833.62	537.96	5843.67	3869.42	95.00	4.45	-0.22	-4.44
	9544.00	90.52	176.36	N/A	-3928.49	542.89	5843.26	3964.26	95.00	1.51	0.58	-1.40
	9638.00	90.52	173.00	N/A	-4022.07	551.60	5842.41	4058.23	94.00	3.57	0.00	-3.57
	9733.00	91.45	176.32	N/A	-4116.63	560.44	5840.78	4153.19	95.00	3.63	0.98	3.49
	9827.00	91.11	181.34	N/A	-4210.56	562.36	5838.67	4246.77	94.00	5.35	-0.36	5.34
	9922.00	90.80	180.35	N/A	-4305.53	560.96	5837.09	4341.03	95.00	1.09	-0.33	-1.04
	10017.00	91.08	180.67	N/A	-4400.51	560.11	5835.53	4435.35	95.00	0.45	0.29	0.34
	10111.00	88.24	178.37	N/A	-4494.49	560.90	5836.09	4528.86	94.00	3.89	-3.02	-2.45
	10206.00	87.32	177.10	N/A	-4589.35	564.65	5839.77	4623.55	95.00	1.65	-0.97	-1.34
	10301.00	88.77	176.56	N/A	-4684.14	569.90	5843.01	4718.35	95.00	1.63	1.53	-0.57
	10395.00	90.86	176.96	N/A	-4777.99	575.22	5843.31	4812.22	94.00	2.26	2.22	0.43
	10490.00	89.75	177.62	N/A	-4872.88	579.71	5842.81	4907.03	95.00	1.36	-1.17	0.69
	10584.00	89.08	177.56	N/A	-4966.79	583.66	5843.77	5000.81	94.00	0.72	-0.71	-0.06
	10679.00	91.66	178.18	N/A	-5061.71	587.19	5843.16	5095.56	95.00	2.79	2.72	0.65
	10773.00	91.35	178.17	N/A	-5155.63	590.18	5840.69	5189.24	94.00	0.33	-0.33	-0.01
	10868.00	89.82	177.53	N/A	-5250.56	593.75	5839.72	5283.99	95.00	1.75	-1.61	-0.67
	10907.00	89.78	177.35	N/A	-5289.52	595.49	5839.85	5322.91	39.00	0.47	-0.10	-0.46
Projection	10974.00	89.78	177.35	N/A	-5356.44	598.59	5840.11	5389.78	67.00	0.00	0.00	0.00