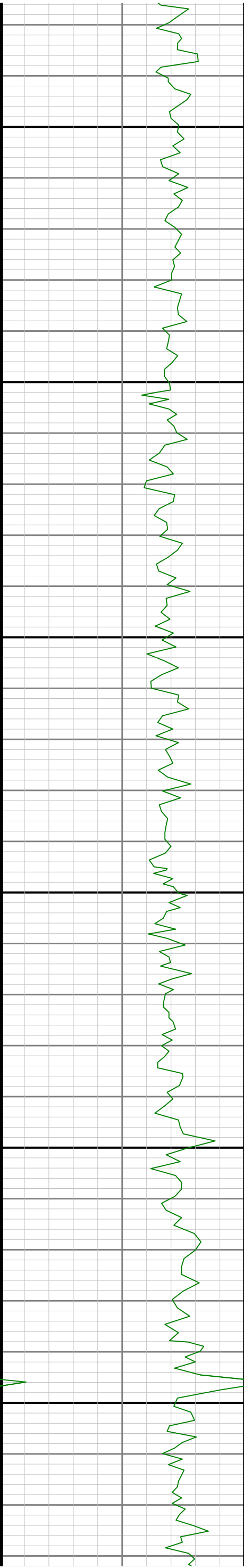
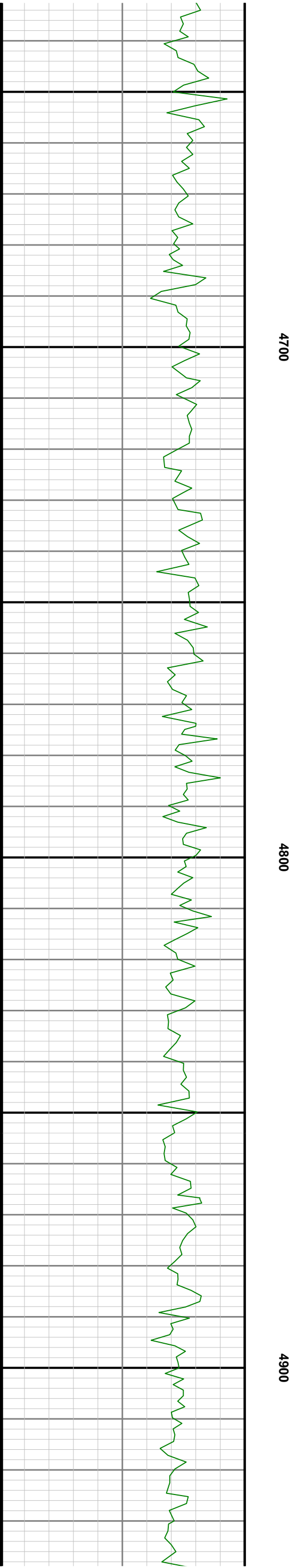
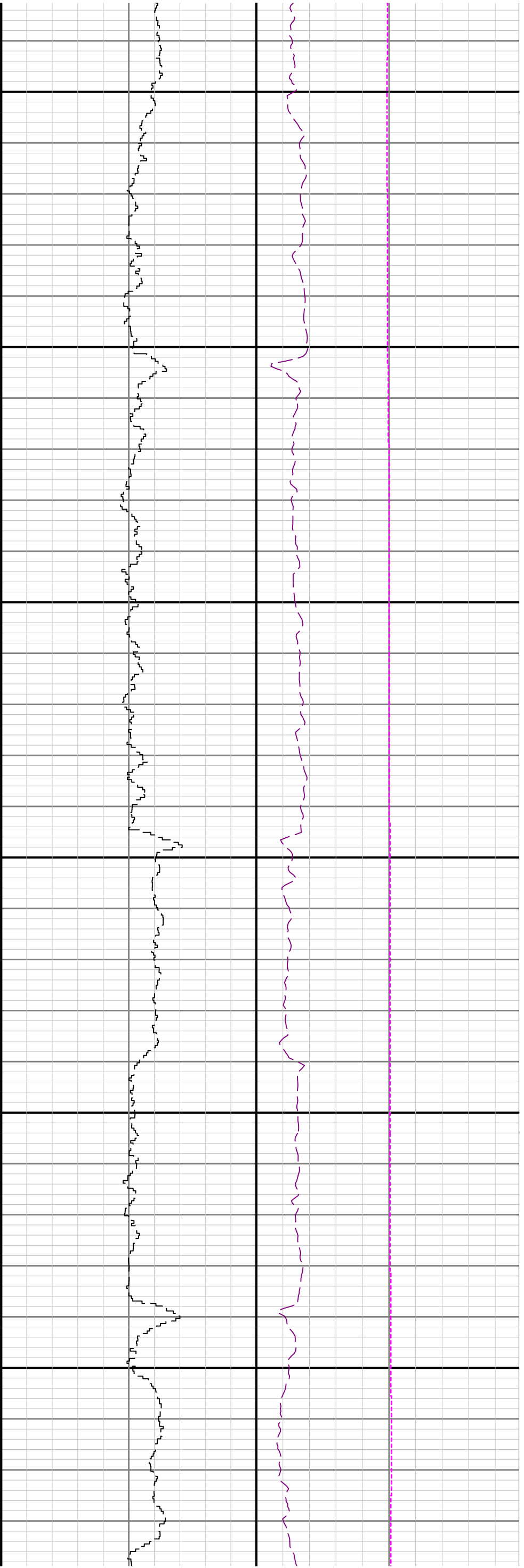


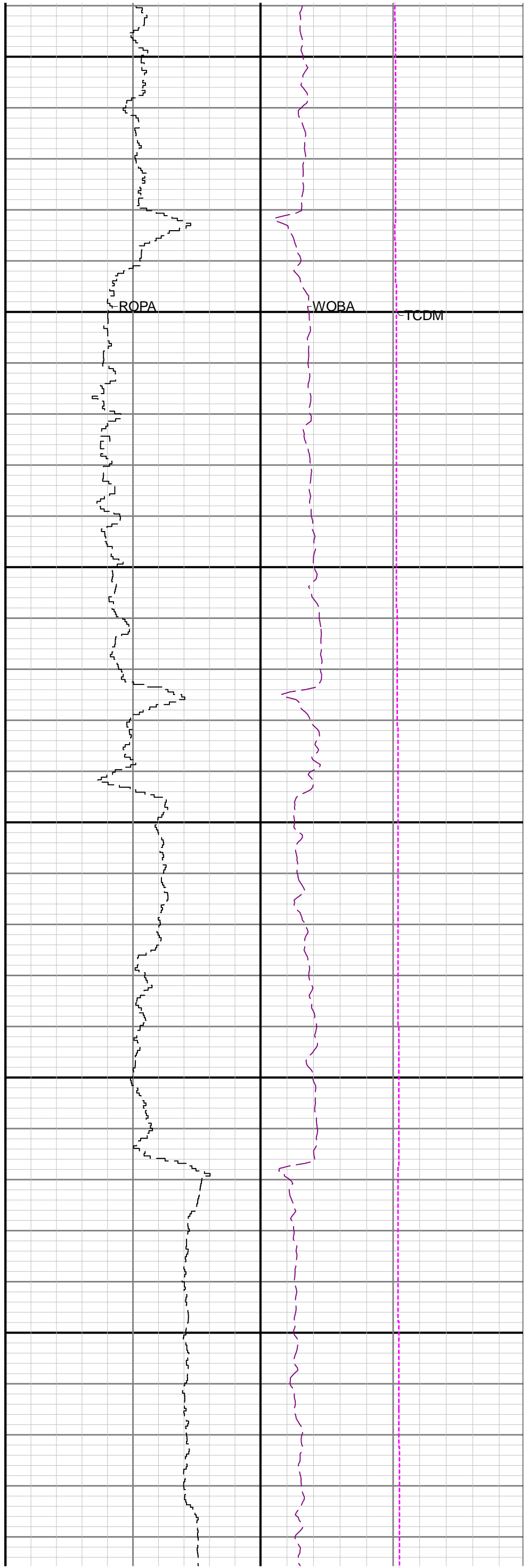
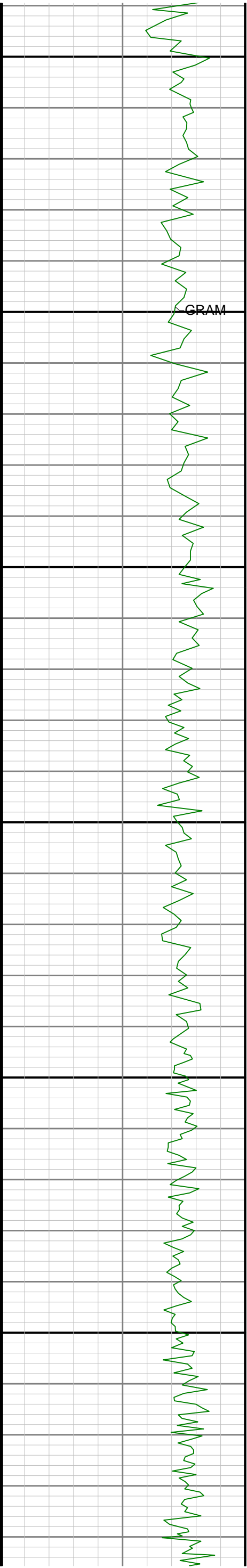
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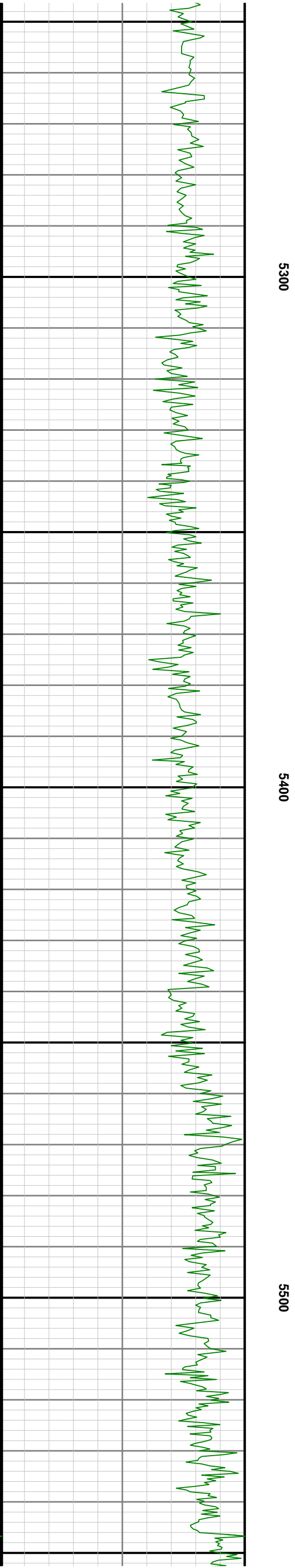
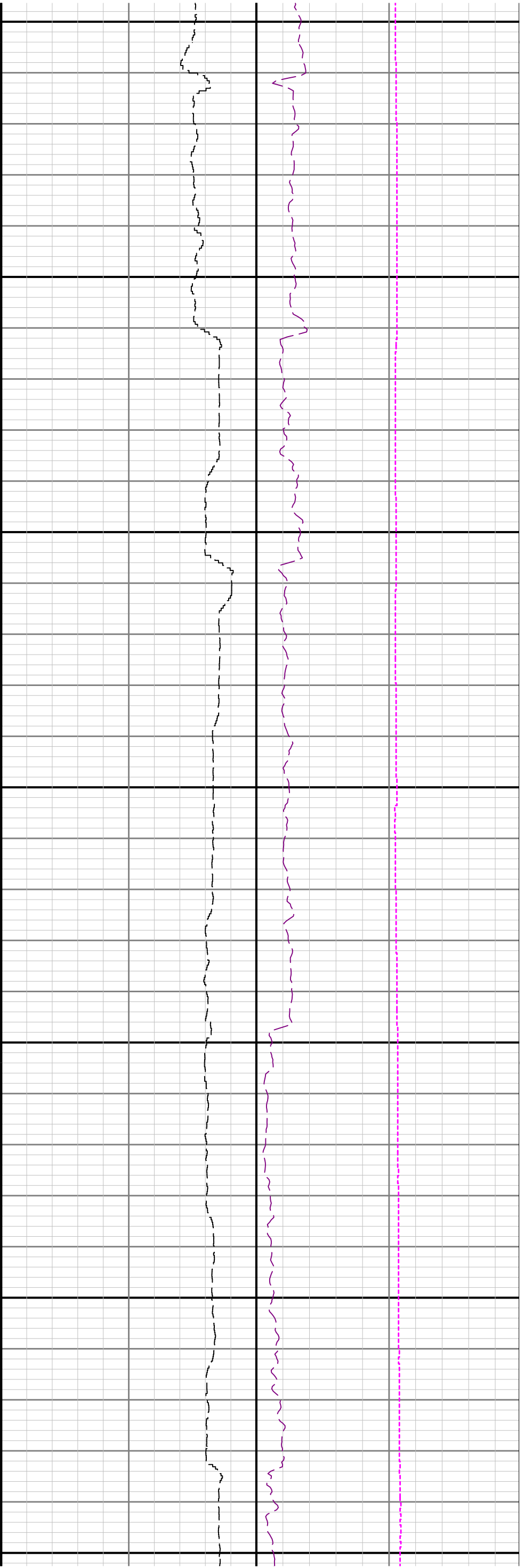
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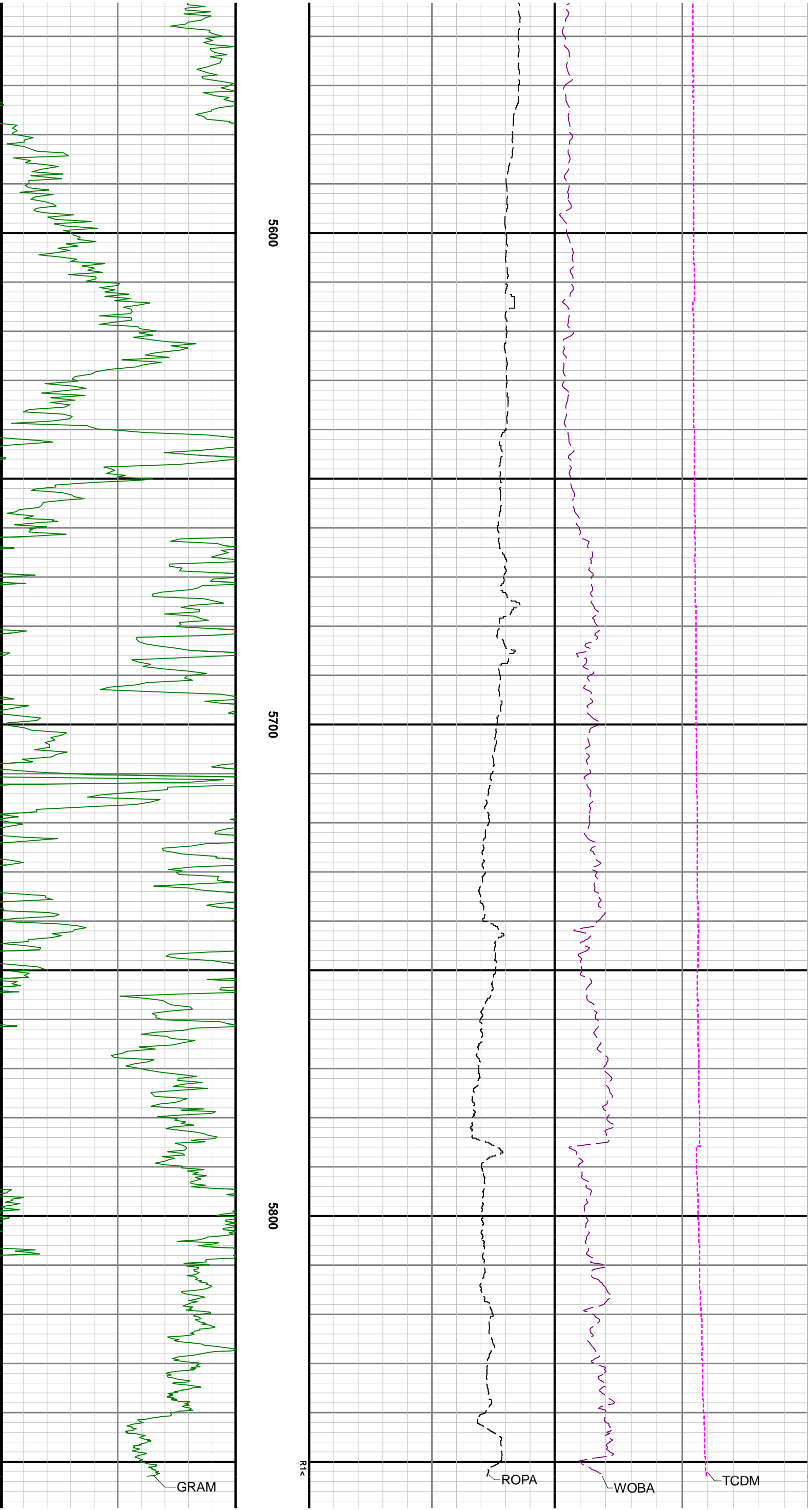
4600











Directional Survey Summary			
Latitude:	6° 41' 00" N	Longitude:	104° 00' 00" E
North Reference:	Grid	Drill Depth Zero:	Rig Floor
Vertical Datum is:	Mean Sea Level	Vertical Datum to DDZ: (ft)	30.00
Vertical Section North: (m)	0.00	Vertical Section East: (m)	0.00
Vertical Section Azimuth: (deg)	267.07		
Grid Convergence: (deg)	-1.03	Magnetic Declination: (deg)	7.39
Total Correction: (deg)	6.36	TVD Calculation Method:	Minimum Curvature
Magnetic Correction:	Off	Local Magnetic Field: (nT)	52821
Local Magnetic Dip Angle: (deg)	67.10	Local Gravity Field: (m/s²)	9.804

Tie-In / Projection	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Temperature (degF)	North (ft)	East (ft)	True Vertical Depth (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	0.00	0.00	0.00	0.00	0.00
	78.00	0.60	128.00	N/A	-0.25	0.32	78.00	-0.31	78.00	0.77	0.77	164.10
	177.00	0.30	141.56	N/A	-0.77	0.89	177.00	-0.85	99.00	0.32	-0.30	13.70
	271.00	0.17	135.50	N/A	-1.07	1.14	270.99	-1.09	94.00	0.14	-0.14	-6.45
	366.00	0.25	223.03	N/A	-1.32	1.10	365.99	-1.03	95.00	0.31	0.08	92.14
	460.00	0.10	250.43	N/A	-1.50	0.88	459.99	-0.80	94.00	0.18	-0.16	29.15
	555.00	0.08	42.19	N/A	-1.47	0.85	554.99	-0.77	95.00	0.18	-0.02	159.75
	650.00	0.03	8.60	N/A	-1.40	0.90	649.99	-0.82	95.00	0.06	-0.05	-35.36
	744.00	0.19	25.14	N/A	-1.23	0.97	743.99	-0.90	94.00	0.17	0.17	17.60
	839.00	0.20	105.93	N/A	-1.14	1.19	838.99	-1.13	95.00	0.27	0.01	85.04
	933.00	0.15	129.50	N/A	-1.26	1.45	932.99	-1.38	94.00	0.09	-0.05	25.07
	1028.00	0.18	138.17	N/A	-1.45	1.64	1027.99	-1.57	95.00	0.04	0.03	9.13
	1123.00	0.22	207.78	N/A	-1.72	1.66	1122.99	-1.57	95.00	0.24	0.04	73.27
	1217.00	0.44	171.12	N/A	-2.24	1.63	1216.99	-1.51	94.00	0.31	0.23	-39.00
	1311.00	0.28	162.16	N/A	-2.82	1.75	1310.99	-1.61	94.00	0.18	-0.17	-9.53
	1406.00	0.42	170.44	N/A	-3.38	1.88	1405.99	-1.71	95.00	0.16	0.15	8.72
	1501.00	0.40	216.19	N/A	-3.99	1.74	1500.98	-1.54	95.00	0.34	-0.02	48.16
	1595.00	0.08	241.10	N/A	-4.29	1.49	1594.98	-1.27	94.00	0.35	-0.34	26.50
	1689.00	0.28	186.00	N/A	-4.55	1.41	1688.98	-1.18	94.00	0.26	0.21	-58.62
	1784.00	0.30	247.97	N/A	-4.87	1.16	1783.98	-0.91	95.00	0.31	0.02	65.23
	1879.00	0.23	234.27	N/A	-5.08	0.77	1878.98	-0.51	95.00	0.10	-0.07	-14.42
	1976.00	0.06	147.72	N/A	-5.23	0.64	1975.98	-0.37	97.00	0.24	-0.18	-89.23
	2071.00	0.07	156.52	N/A	-5.33	0.69	2070.98	-0.42	95.00	0.01	0.01	9.26
	2165.00	2.52	113.30	N/A	-6.20	2.61	2164.95	-2.29	94.00	2.63	2.61	-45.98
	2260.00	5.31	119.36	N/A	-9.18	8.36	2259.72	-7.88	95.00	2.96	2.94	6.38
	2354.00	6.91	116.85	N/A	-13.87	17.20	2353.18	-16.47	94.00	1.73	1.70	-2.67
	2449.00	8.26	114.03	N/A	-19.23	28.53	2447.35	-27.51	95.00	1.47	1.42	-2.97
	2543.00	10.33	105.67	N/A	-24.25	42.81	2540.11	-41.52	94.00	2.62	2.20	-8.89
	2638.00	10.66	103.52	N/A	-28.61	59.56	2633.52	-58.02	95.00	0.54	0.35	-2.26
	2733.00	10.53	103.08	N/A	-32.63	76.56	2726.91	-74.79	95.00	0.16	-0.14	-0.46
	2827.00	10.47	105.53	N/A	-36.86	93.15	2819.33	-91.15	94.00	0.48	-0.06	2.61
	2922.00	10.51	107.37	N/A	-41.76	109.74	2912.74	-107.46	95.00	0.36	0.04	1.94
	3016.00	10.53	111.46	N/A	-47.46	125.91	3005.17	-123.32	94.00	0.79	0.02	4.35
	3111.00	10.40	116.77	N/A	-54.50	141.65	3098.59	-138.68	95.00	1.02	-0.14	5.59
	3205.00	10.60	118.97	N/A	-62.50	156.79	3191.01	-153.39	94.00	0.48	0.21	2.34
	3300.00	10.79	115.39	N/A	-70.55	172.47	3284.36	-168.64	95.00	0.73	0.20	-3.77
	3395.00	10.65	111.62	N/A	-77.60	188.66	3377.71	-184.45	95.00	0.75	-0.15	-3.97
	3489.00	10.75	106.92	N/A	-83.35	205.12	3470.08	-200.60	94.00	0.93	0.11	-5.00
	3584.00	10.92	105.17	N/A	-88.28	222.29	3563.38	-217.48	95.00	0.39	0.18	-1.84
	3678.00	11.00	105.72	N/A	-93.04	239.51	3655.67	-234.44	94.00	0.14	0.09	0.59
	3773.00	10.81	109.50	N/A	-98.47	256.63	3748.95	-251.26	95.00	0.78	-0.20	3.98
	3867.00	10.81	116.11	N/A	-105.29	272.86	3841.29	-267.12	94.00	1.32	0.00	7.03
	3962.00	11.06	122.45	N/A	-114.10	288.55	3934.57	-282.34	95.00	1.29	0.26	6.67
	4056.00	11.01	122.85	N/A	-123.81	303.70	4026.83	-296.97	94.00	0.10	-0.05	0.43
	4151.00	10.87	123.06	N/A	-133.62	318.83	4120.10	-311.58	95.00	0.15	-0.15	0.22
	4246.00	10.92	123.58	N/A	-143.48	333.83	4213.39	-326.06	95.00	0.12	0.05	0.55
	4340.00	10.93	123.83	N/A	-153.37	348.65	4305.69	-340.36	94.00	0.05	0.01	0.27
	4435.00	10.94	122.70	N/A	-163.25	363.72	4398.96	-354.90	95.00	0.23	0.01	-1.19
	4530.00	11.00	123.10	N/A	-173.07	378.90	4492.23	-369.55	95.00	0.10	0.06	0.42
	4625.00	11.03	125.12	N/A	-183.25	393.92	4585.48	-384.04	95.00	0.41	0.03	2.13
	4719.00	10.91	122.57	N/A	-193.21	408.77	4677.76	-398.36	94.00	0.53	-0.13	-2.71
	4814.00	10.98	117.43	N/A	-202.22	424.38	4771.03	-413.49	95.00	1.03	0.07	-5.41
	4909.00	10.91	111.03	N/A	-209.61	440.80	4864.31	-429.51	95.00	1.28	-0.07	-6.74
	5003.00	10.99	112.04	N/A	-216.17	457.41	4956.60	-445.76	94.00	0.22	0.09	1.07
	5098.00	10.77	125.02	N/A	-224.66	473.08	5049.90	-460.97	95.00	2.58	-0.23	13.66
	5192.00	10.90	124.67	N/A	-234.76	487.58	5142.23	-474.94	94.00	0.16	0.14	-0.37
	5287.00	5.89	141.23	N/A	-243.67	498.03	5236.19	-484.92	95.00	5.80	-5.27	17.43
	5381.00	6.37	211.18	N/A	-251.91	498.35	5329.77	-484.82	94.00	7.48	0.51	74.41
	5476.00	16.24	236.97	N/A	-263.69	484.44	5422.86	-470.33	95.00	11.43	10.39	27.15
	5570.00	24.43	258.77	N/A	-274.67	454.26	5511.05	-439.63	94.00	11.73	8.71	23.19
	5664.00	34.19	268.59	N/A	-279.12	408.66	5592.96	-393.85	94.00	11.54	10.38	10.45
	5759.00	44.39	272.44	N/A	-278.36	348.61	5666.40	-333.92	95.00	11.03	10.74	4.05
	5853.00	54.61	267.45	N/A	-278.67	277.26	5727.39	-262.66	94.00	11.59	10.87	-5.31
	5948.00	64.62	266.98	N/A	-282.66	195.51	5775.38	-180.81	95.00	10.55	10.54	-0.49
	6042.00	70.73	267.69	N/A	-286.69	108.70	5811.07	-93.90	94.00	6.54	6.50	0.76
	6137.00	80.38	267.97	N/A	-290.17	16.87	5834.74	-2.02	95.00	10.16	10.16	0.29
	6232.00	84.48	267.86	N/A	-293.59	-77.22	5847.26	92.12	95.00	4.32	4.32	-0.12
	6326.00	88.98	266.23	N/A	-298.43	-170.91	5852.62	185.94	94.00	5.09	4.79	-1.73
	6421.00	90.43	265.84	N/A	-305.00	-265.68	5853.11	280.92	95.00	1.58	1.53	-0.41
	6515.00	90.28	266.46	N/A	-311.31	-359.46	5852.52	374.91	94.00	0.68	-0.16	0.66
	6610.00	90.43	266.78	N/A	-316.91	-454.30	5851.94	469.90	95.00	0.37	0.16	0.34
	6704.00	90.43	266.85	N/A	-322.14	-548.15	5851.23	563.90	94.00	0.07	0.00	0.07
	6799.00	90.55	267.92	N/A	-326.47	-643.05	5850.42	658.89	95.00	1.13	0.13	1.13
	6893.00	90.43	268.20	N/A	-329.65	-736.99	5849.61	752.88	94.00	0.32	-0.13	0.30

	6893.00	90.43	268.20	N/A	-329.33	-730.99	5849.81	732.68	94.00	0.32	-0.13	0.30
	6988.00	90.49	268.27	N/A	-332.58	-831.94	5848.85	847.85	95.00	0.10	0.06	0.07
	7082.00	90.55	269.72	N/A	-334.23	-925.92	5848.00	941.79	94.00	1.54	0.06	1.54
	7177.00	90.58	270.02	N/A	-334.44	-1020.91	5847.06	1036.68	95.00	0.32	0.03	0.32
	7271.00	90.58	269.39	N/A	-334.93	-1114.91	5846.11	1130.57	94.00	0.67	0.00	-0.67
	7366.00	90.49	269.48	N/A	-335.86	-1209.90	5845.22	1225.49	95.00	0.13	-0.09	0.09
	7461.00	90.55	269.79	N/A	-336.47	-1304.89	5844.36	1320.39	95.00	0.33	0.06	0.33
	7555.00	90.74	270.38	N/A	-336.33	-1398.89	5843.30	1414.25	94.00	0.66	0.20	0.63
	7650.00	90.68	269.44	N/A	-336.48	-1493.88	5842.13	1509.12	95.00	0.99	-0.06	-0.99
	7744.00	90.43	269.11	N/A	-337.67	-1587.87	5841.21	1603.05	94.00	0.44	-0.27	-0.35
	7839.00	90.55	269.06	N/A	-339.18	-1682.85	5840.40	1697.99	95.00	0.14	0.13	-0.05
	7933.00	90.49	269.35	N/A	-340.49	-1776.84	5839.55	1791.92	94.00	0.32	-0.06	0.31
	8028.00	90.52	268.92	N/A	-341.92	-1871.82	5838.71	1886.85	95.00	0.45	0.03	-0.45
	8123.00	90.55	268.45	N/A	-344.10	-1966.79	5837.82	1981.81	95.00	0.50	0.03	-0.49
	8217.00	90.52	268.37	N/A	-346.71	-2060.75	5836.95	2075.78	94.00	0.09	-0.03	-0.09
	8312.00	90.65	268.18	N/A	-349.57	-2155.71	5835.98	2170.76	95.00	0.24	0.14	-0.20
	8407.00	90.62	268.03	N/A	-352.71	-2250.65	5834.92	2265.73	95.00	0.16	-0.03	-0.16
	8501.00	89.97	268.07	N/A	-355.91	-2344.59	5834.44	2359.72	94.00	0.69	-0.69	0.04
	8596.00	89.91	267.23	N/A	-359.80	-2439.51	5834.54	2454.71	95.00	0.89	-0.06	-0.88
	8691.00	90.09	267.29	N/A	-364.35	-2534.40	5834.54	2549.71	95.00	0.20	0.19	0.06
	8785.00	90.25	267.56	N/A	-368.57	-2628.31	5834.26	2643.71	94.00	0.33	0.17	0.29
	8880.00	90.68	267.98	N/A	-372.27	-2723.23	5833.49	2738.70	95.00	0.63	0.45	0.44
	8974.00	90.58	268.07	N/A	-375.51	-2817.17	5832.46	2832.68	94.00	0.14	-0.11	0.10
	9069.00	90.58	268.30	N/A	-378.51	-2912.12	5831.49	2927.66	95.00	0.24	0.00	0.24
	9163.00	90.65	268.55	N/A	-381.10	-3006.08	5830.49	3021.63	94.00	0.28	0.07	0.27
	9258.00	90.46	268.12	N/A	-383.86	-3101.03	5829.57	3116.60	95.00	0.49	-0.20	-0.45
	9352.00	90.62	267.19	N/A	-387.70	-3194.95	5828.68	3210.59	94.00	1.00	0.17	-0.99
	9447.00	90.62	267.04	N/A	-392.48	-3289.82	5827.65	3305.58	95.00	0.16	0.00	-0.16
	9542.00	90.49	267.23	N/A	-397.23	-3384.70	5826.73	3400.58	95.00	0.24	-0.14	0.20
	9636.00	90.62	267.87	N/A	-401.25	-3478.61	5825.82	3494.57	94.00	0.69	0.14	0.68
	9731.00	90.52	268.10	N/A	-404.59	-3573.54	5824.88	3589.55	95.00	0.26	-0.11	0.24
	9825.00	90.65	269.21	N/A	-406.80	-3667.51	5823.92	3683.51	94.00	1.19	0.14	1.18
	9920.00	90.58	270.16	N/A	-407.32	-3762.50	5822.90	3778.40	95.00	1.00	-0.07	1.00
	10014.00	90.40	270.69	N/A	-406.62	-3856.50	5822.09	3872.24	94.00	0.60	-0.19	0.56
	10109.00	90.52	270.76	N/A	-405.42	-3951.49	5821.33	3967.04	95.00	0.15	0.13	0.07
	10203.00	90.58	271.38	N/A	-403.66	-4045.46	5820.43	4060.81	94.00	0.66	0.06	0.66
	10298.00	90.68	271.91	N/A	-400.94	-4140.42	5819.38	4155.50	95.00	0.57	0.11	0.56
	10393.00	90.74	270.07	N/A	-399.30	-4235.39	5818.21	4250.27	95.00	1.94	0.06	-1.94
	10488.00	90.62	268.97	N/A	-400.09	-4330.38	5817.08	4345.17	95.00	1.16	-0.13	-1.16
	10582.00	90.62	268.41	N/A	-402.24	-4424.35	5816.06	4439.13	94.00	0.60	0.00	-0.60
	10677.00	90.55	268.27	N/A	-404.99	-4519.31	5815.09	4534.10	95.00	0.16	-0.07	-0.15
	10771.00	90.43	268.69	N/A	-407.49	-4613.27	5814.29	4628.07	94.00	0.46	-0.13	0.45
	10866.00	90.34	269.05	N/A	-409.36	-4708.25	5813.65	4723.02	95.00	0.39	-0.09	0.38
	10961.00	90.31	268.09	N/A	-411.73	-4803.22	5813.11	4817.98	95.00	1.01	-0.03	-1.01
	11055.00	90.31	268.01	N/A	-414.93	-4897.16	5812.60	4911.97	94.00	0.09	0.00	-0.09
	11150.00	90.55	268.76	N/A	-417.61	-4992.12	5811.89	5006.94	95.00	0.83	0.25	0.79
	11245.00	90.49	269.00	N/A	-419.46	-5087.10	5811.03	5101.89	95.00	0.26	-0.06	0.25
	11339.00	90.12	268.68	N/A	-421.37	-5181.08	5810.53	5195.84	94.00	0.52	-0.39	-0.34
	11434.00	90.03	268.72	N/A	-423.52	-5276.05	5810.40	5290.80	95.00	0.10	-0.09	0.04
	11528.00	90.37	268.88	N/A	-425.49	-5370.03	5810.07	5384.76	94.00	0.40	0.36	0.17
	11623.00	90.43	268.30	N/A	-427.83	-5465.00	5809.41	5479.72	95.00	0.61	0.06	-0.61
	11718.00	90.37	267.42	N/A	-431.38	-5559.93	5808.75	5574.71	95.00	0.93	-0.06	-0.93
	11812.00	90.71	268.17	N/A	-434.99	-5653.86	5807.86	5668.70	94.00	0.88	0.36	0.80
	11907.00	90.52	268.60	N/A	-437.67	-5748.81	5806.84	5763.67	95.00	0.49	-0.20	0.45
	12096.00	90.55	271.24	N/A	-437.93	-5937.79	5805.08	5952.41	189.00	1.40	0.02	1.40
	12191.00	90.55	271.24	N/A	-435.88	-6032.76	5804.16	6047.15	95.00	0.00	0.00	0.00
	12286.00	90.65	270.51	N/A	-434.43	-6127.74	5803.17	6141.94	95.00	0.78	0.11	-0.77
	12380.00	90.31	268.52	N/A	-435.22	-6221.73	5802.38	6235.85	94.00	2.15	-0.36	-2.12
	12475.00	90.18	267.73	N/A	-438.33	-6316.68	5801.98	6330.83	95.00	0.84	-0.14	-0.83
	12569.00	90.25	267.25	N/A	-442.45	-6410.59	5801.62	6424.82	94.00	0.52	0.07	-0.51
	12664.00	90.22	267.74	N/A	-446.60	-6505.50	5801.23	6519.82	95.00	0.52	-0.03	0.52
	12758.00	90.18	267.99	N/A	-450.10	-6599.43	5800.90	6613.81	94.00	0.27	-0.04	0.27
	12853.00	90.28	268.99	N/A	-452.60	-6694.40	5800.52	6708.78	95.00	1.06	0.11	1.05
	12948.00	90.09	270.25	N/A	-453.23	-6789.39	5800.22	6803.68	95.00	1.34	-0.20	1.33
	13042.00	90.18	269.36	N/A	-453.55	-6883.39	5800.00	6897.57	94.00	0.95	0.10	-0.95
	13137.00	90.22	268.13	N/A	-455.63	-6978.36	5799.66	6992.53	95.00	1.30	0.04	-1.29
	13231.00	90.22	267.44	N/A	-459.27	-7072.29	5799.30	7086.52	94.00	0.73	0.00	-0.73
	13326.00	90.03	268.68	N/A	-462.48	-7167.24	5799.10	7181.51	95.00	1.32	-0.20	1.31
	13420.00	90.25	270.01	N/A	-463.56	-7261.23	5798.87	7275.43	94.00	1.43	0.23	1.41
	13515.00	90.34	269.80	N/A	-463.72	-7356.23	5798.38	7370.31	95.00	0.24	0.09	-0.22
	13704.00	90.18	268.73	N/A	-466.14	-7545.21	5797.52	7559.17	189.00	0.57	-0.08	-0.57
	13799.00	90.22	268.62	N/A	-468.34	-7640.18	5797.19	7654.13	95.00	0.12	0.04	-0.12
	13893.00	90.28	268.06	N/A	-471.06	-7734.14	5796.78	7748.11	94.00	0.60	0.06	-0.60
	13988.00	90.22	267.83	N/A	-474.47	-7829.08	5796.36	7843.09	95.00	0.25	-0.06	-0.24
	14082.00	90.28	268.90	N/A	-477.15	-7923.04	5795.95	7937.07	94.00	1.14	0.06	1.14
	14177.00	90.49	269.39	N/A	-478.57	-8018.02	5795.31	8032.00	95.00	0.56	0.22	0.52
	14272.00	90.28	269.75	N/A	-479.28	-8113.02	5794.68	8126.91	95.00	0.44	-0.22	0.38
	14367.00	90.31	269.92	N/A	-479.55	-8208.02	5794.19	8221.80	95.00	0.18	0.03	0.18
	14461.00	90.28	270.08	N/A	-479.55	-8302.02	5793.70	8315.68	94.00	0.17	-0.03	0.17
	14556.00	90.31	270.00	N/A	-479.49	-8397.01	5793.21	8410.55	95.00	0.09	0.03	-0.08
	14650.00	90.22	269.71	N/A	-479.72	-8491.01	5792.78	8504.43	94.00	0.32	-0.10	-0.31
	14745.00	90.37	268.87	N/A	-480.90	-8586.00	5792.29	8599.36	95.00	0.90	0.16	-0.88
	14840.00	90.31	268.96	N/A	-482.70	-8680.98	5791.73	8694.31	95.00	0.11	-0.06	0.09
	14934.00	90.15	268.67	N/A	-484.64	-8774.96	5791.35	8788.27	94.00	0.35	-0.17	-0.31
	15029.00	90.34	268.22	N/A	-487.22	-8869.93	5790.94	8883.24	95.00	0.51	0.20	-0.47
	15124.00	90.31	268.18	N/A	-490.21	-8964.88	5790.40	8978.22	95.00	0.05	-0.03	-0.04
	15218.00	90.34	268.63	N/A	-492.82	-9058.84	5789.87	9072.19	94.00	0.48	0.03	0.48
	15313.00	90.31	268.87	N/A	-494.89	-9153.82	5789.33	9167.15	95.00	0.25	-0.03	0.25
	15407.00	90.40	269.27	N/A	-496.42	-9247.80	5788.75	9261.09	94.00	0.44	0.10	0.43
	15596.00	90.37	268.62	N/A	-499.90	-9436.76	5787.48	9449.98	189.00	0.34	-0.02	-0.34
	15691.00	90.18	267.46	N/A	-503.15	-9531.71	5787.02	9544.96	95.00	1.24	-0.20	-1.22
	15785.00	90.34	267.12	N/A	-507.59	-9625.60	5786.60	9638.96	94.00	0.40	0.17	-0.36
	15880.00	90.46	267.49	N/A	-512.06	-9720.49	5785.93	9733.96	95.00	0.41	0.13	0.39
	15974.00	90.28	268.34	N/A	-515.48	-9814.43	5785.33	9827.95	94.00	0.92	-0.19</	