
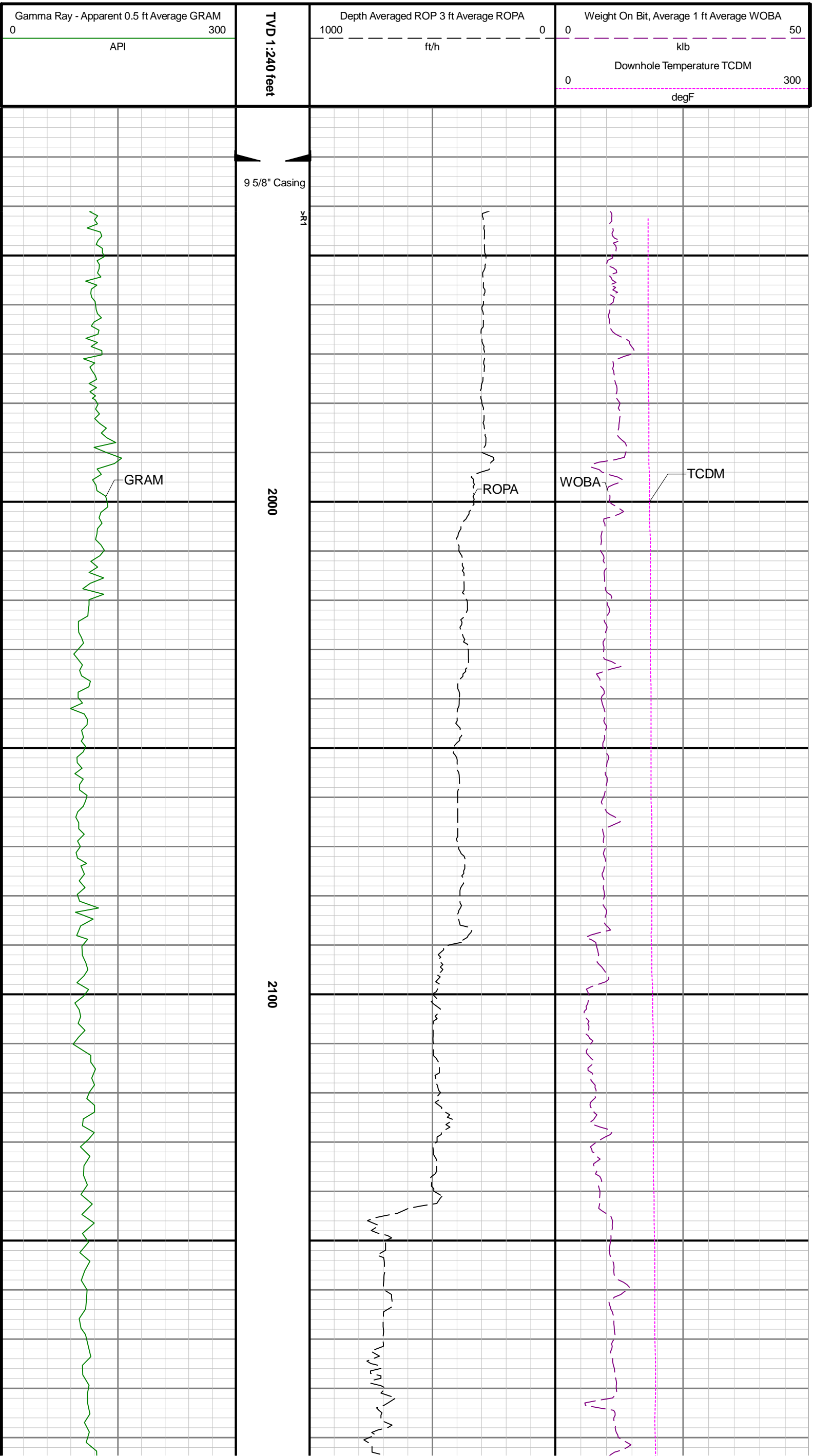
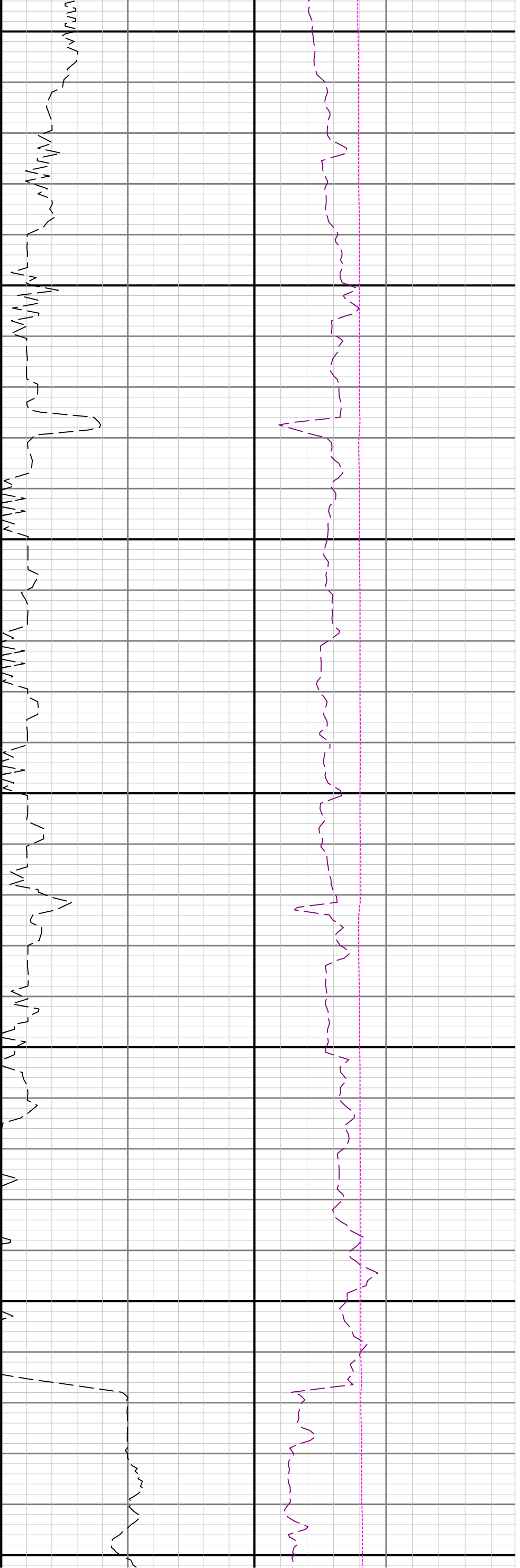


LWD MEMORY LOG											
<div><div><div>BAKER HUGHES</div><div>a GE company</div></div><div></div></div>				Gamma Ray							
Scale:		Company: Noble Energy		Well: Stars Federal LD17-720							
1:240		Field: Wattenberg									
True Vertical Depth		County: Weld		Country: United States							
Depth Reference:		State: Colorado									
Driller's Depth		Surface Location:		Other Services:							
Status:		Latitude:		040° 46' 26.940" N							
Final Print		Longitude:		103° 53' 02.436" W							
API No: 05-123-49605-00		SEC:		5 TWN:		9N RGE:		58W		Directional	
Job ID: 109804627		Permanent Datum (P.D.): Mean Sea Level		Elevation:		0.00 ft		Elev. KB:		N/A	
Log Measured From: Rig Floor		Above P.D.:		4824.00 ft		Elev. DF:		4824.00 ft		4794.00 ft	
Dates		Interval		Magnetic Field Reference							
From: 2019-06-05		Drilled (ft)		Logged (ft)		Azi Reference North:		Grid Dip Angle: (deg)		67.01	
To: 2019-06-08		Top: 1941.00		Top: 1941.00		Total Magnetic Field Strength: (nT)				52368	
Spud: 2019-06-05		Bottom: 16582.00		Bottom: 16568.00		Mag to Reference North Correction: (deg)				6.21	
Borehole Record											
Casing Record											
Hole Size (in)		From (ft)		To (ft)		Size (in)		Weight (lb/ft)		From (ft) To (ft)	
13.000		30.00		1941.00		9.625		36.00		30.00 1931.00	
8.500		1941.00		16582.00							

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



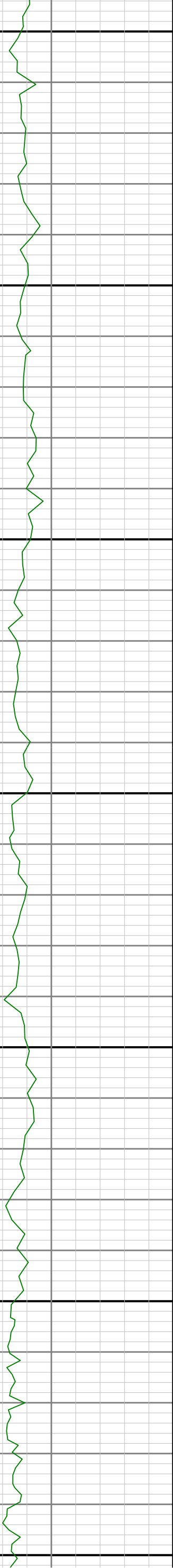
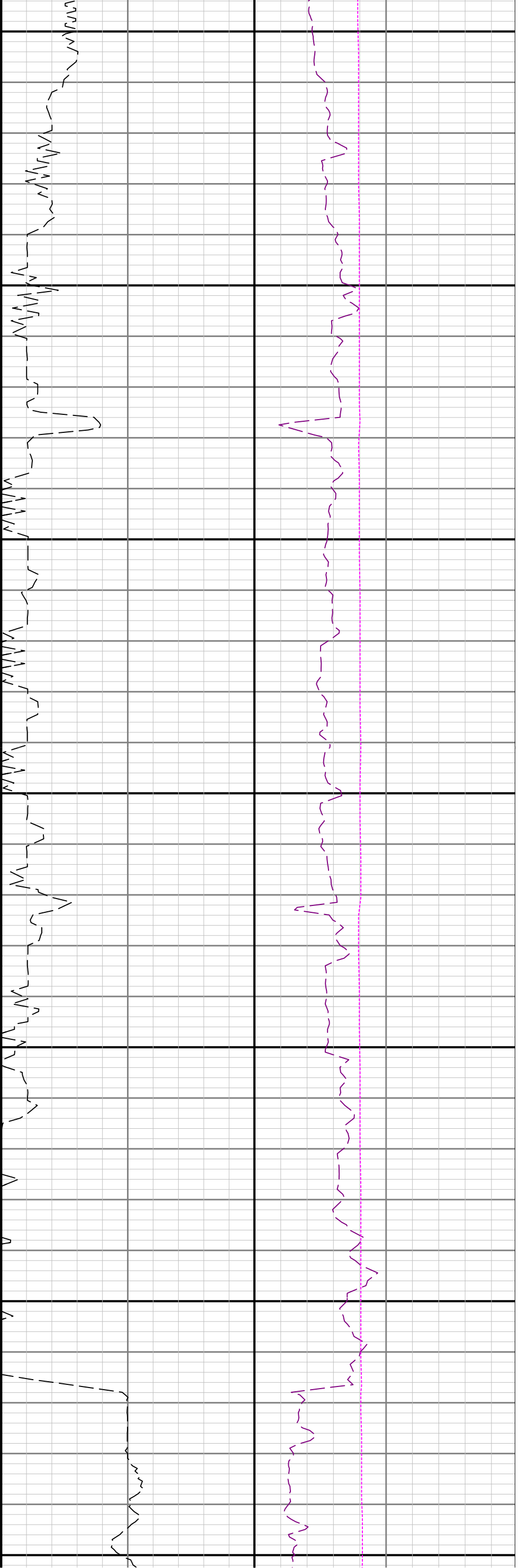


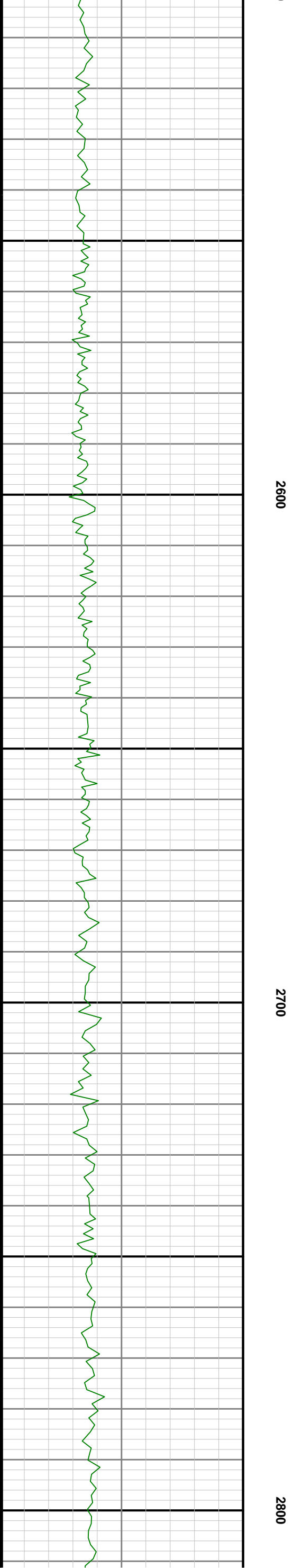
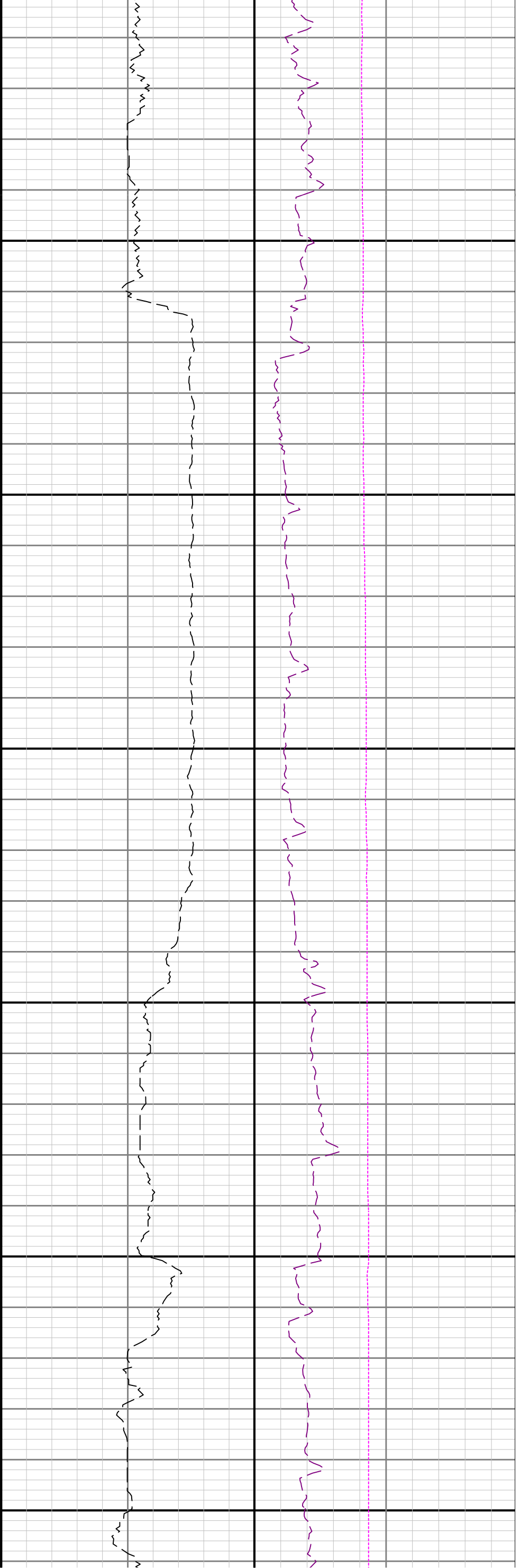
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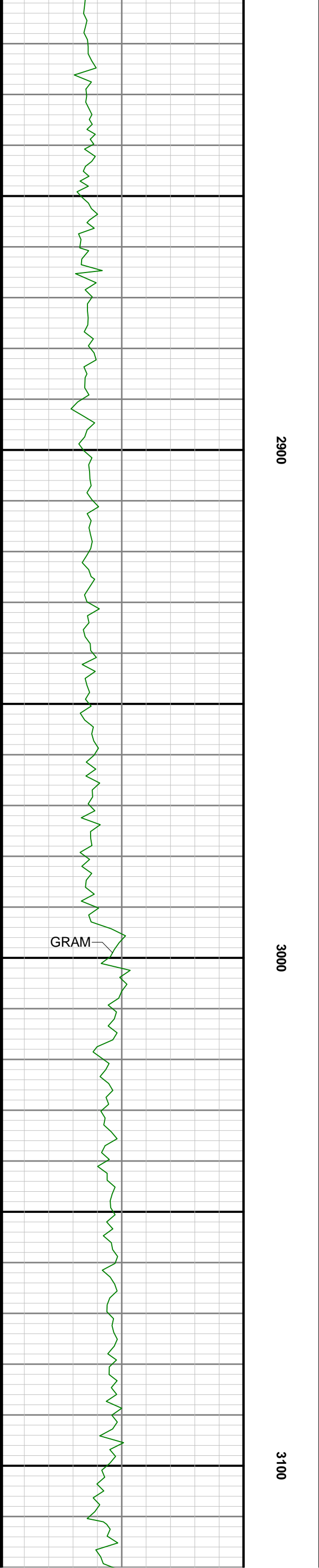
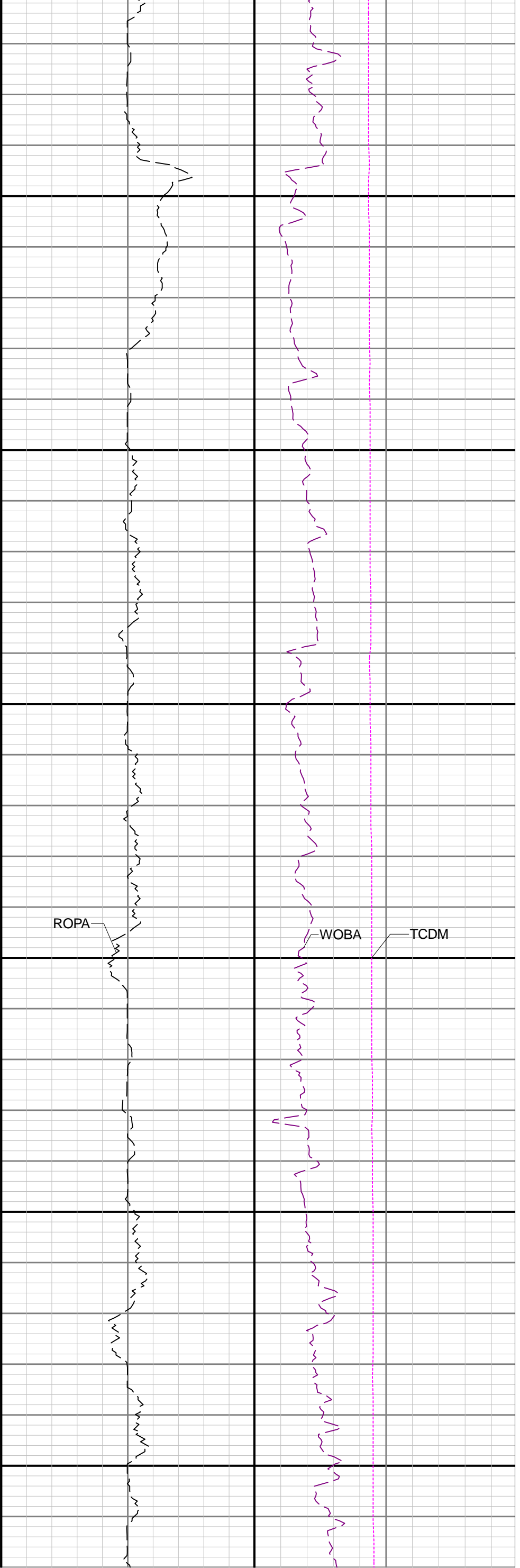
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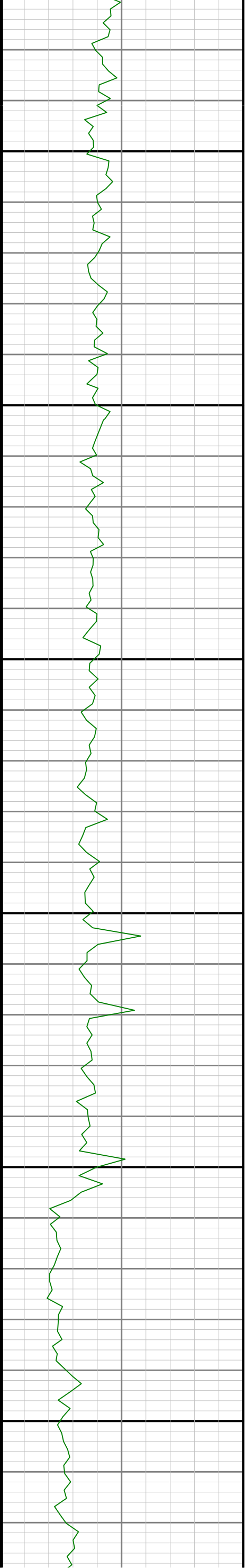


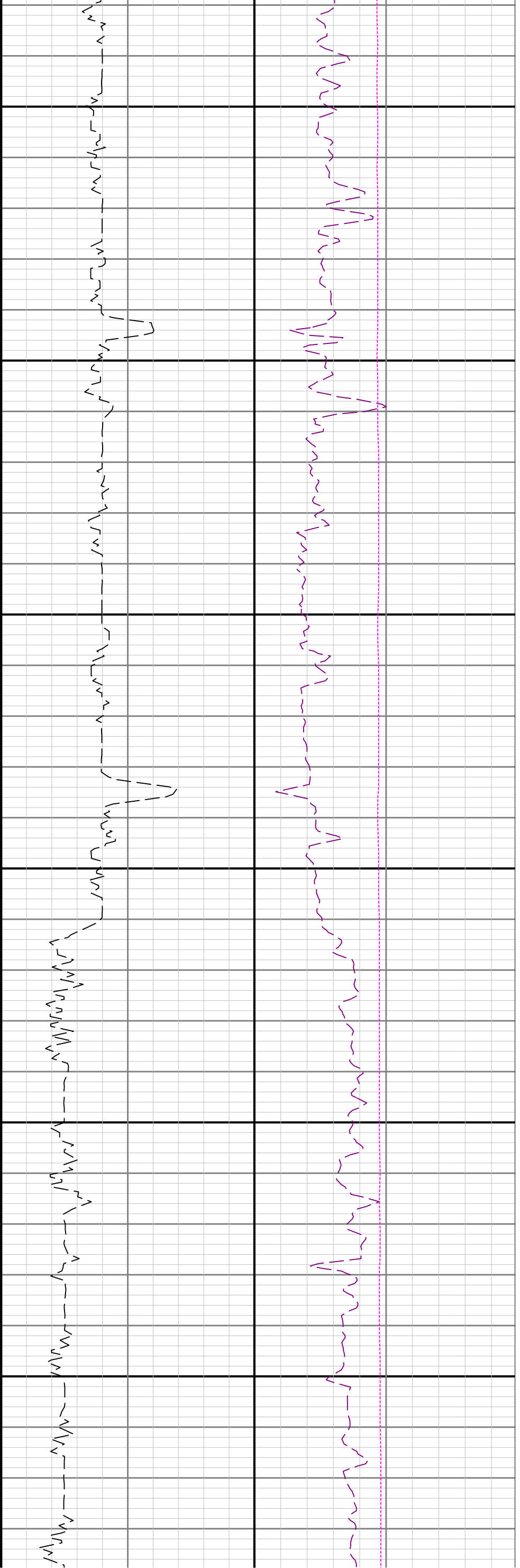


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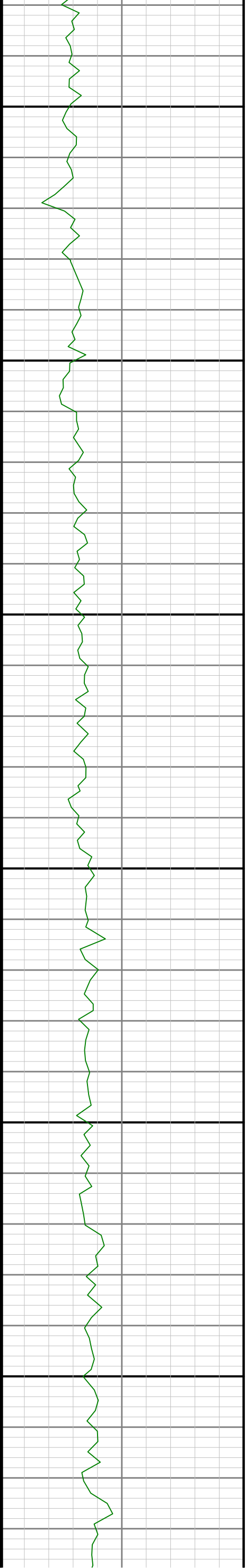


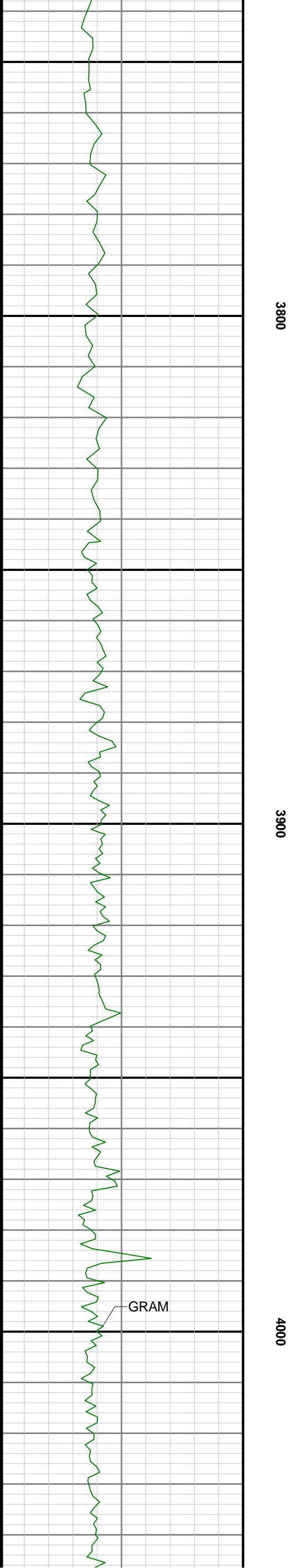
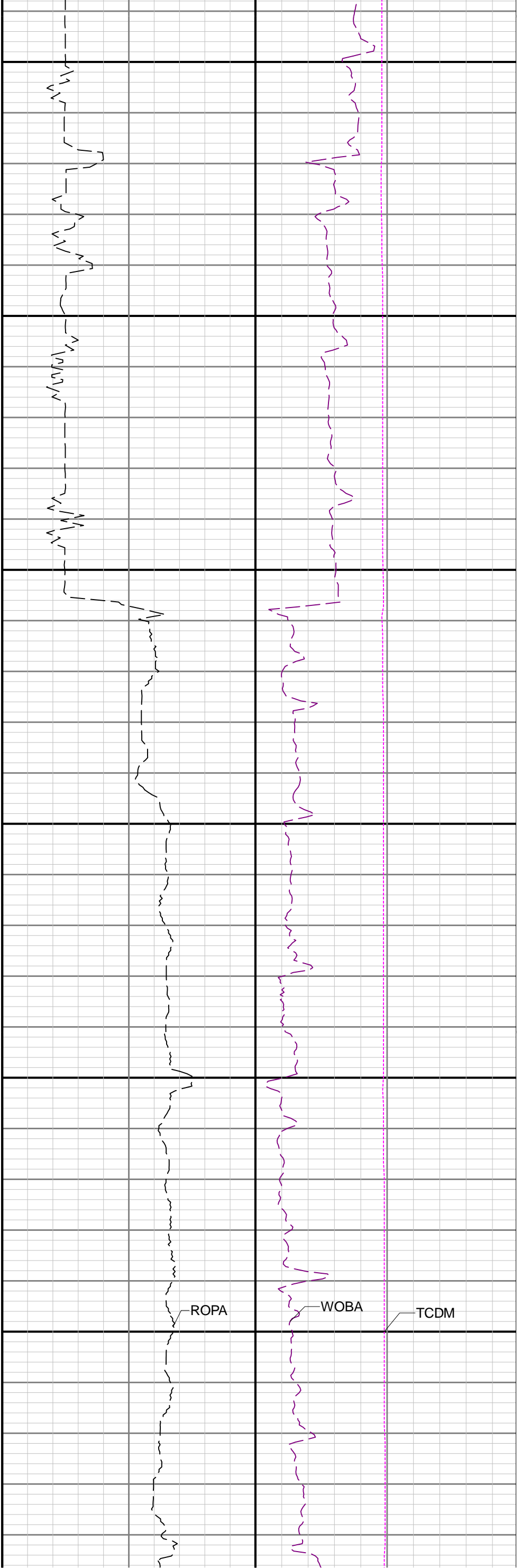


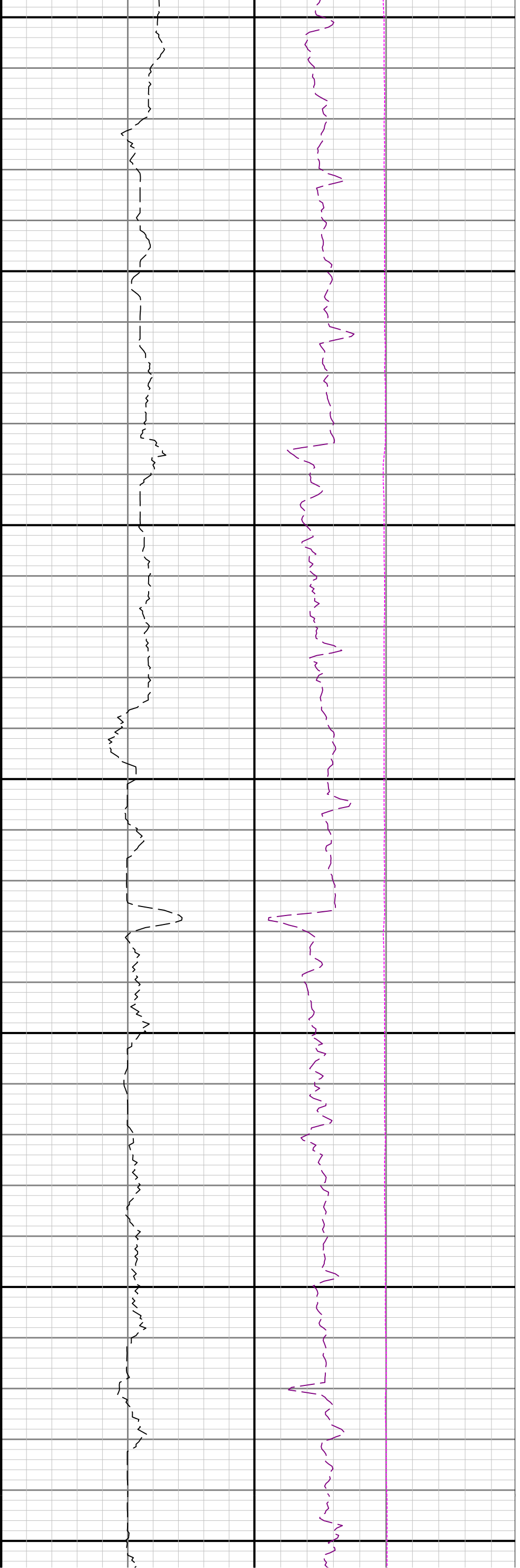
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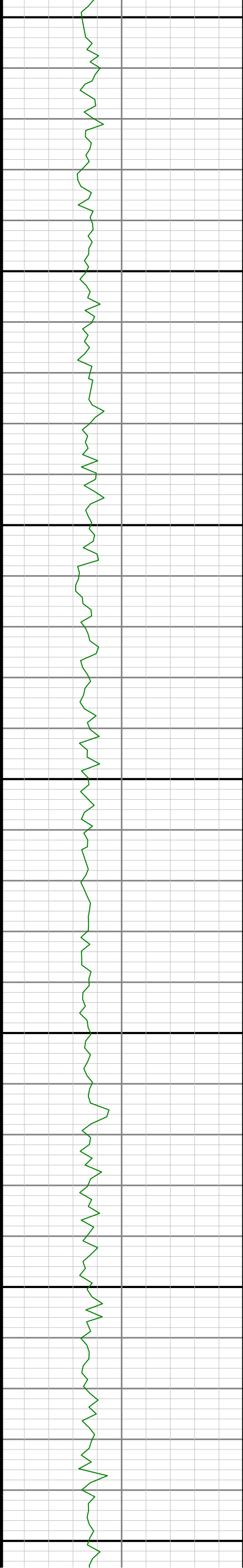


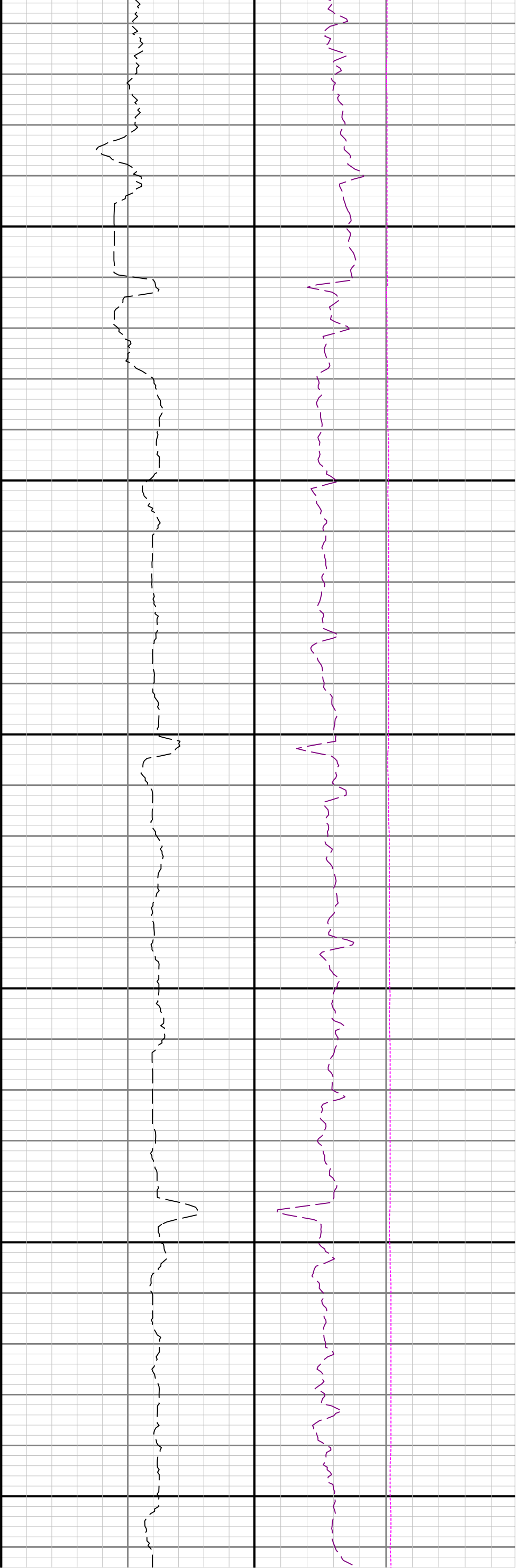


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4200

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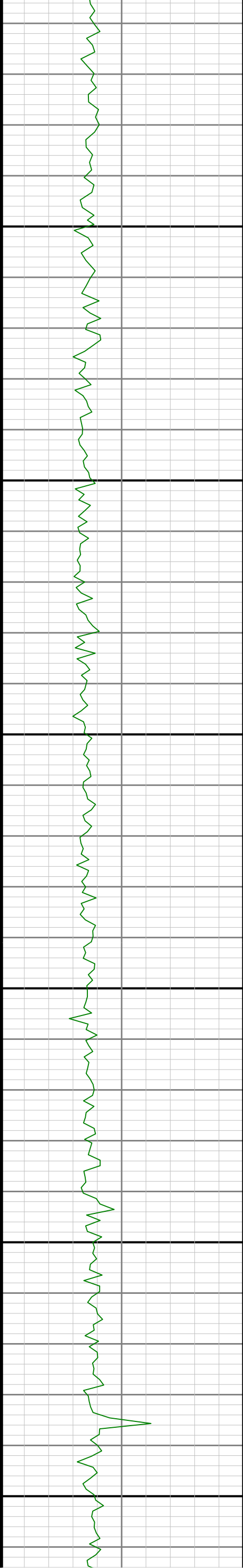


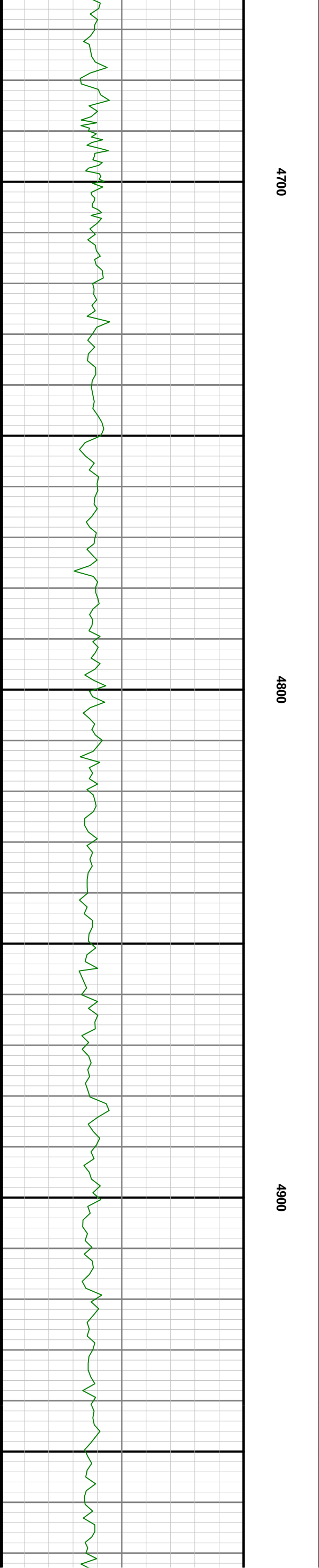
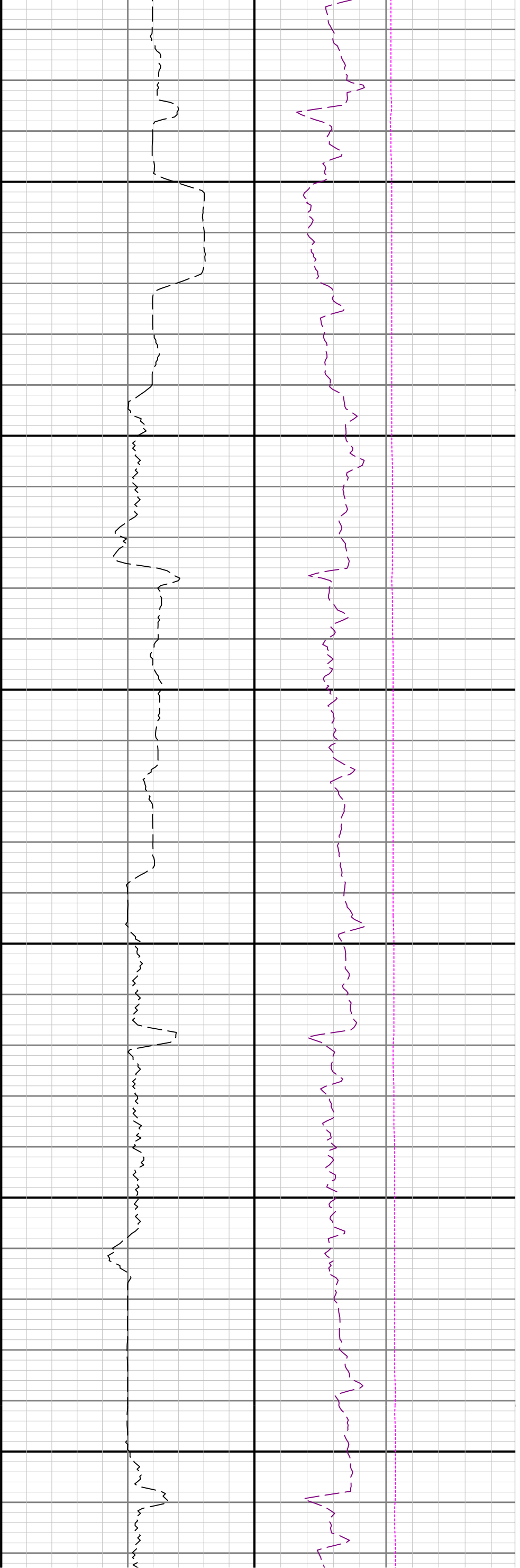


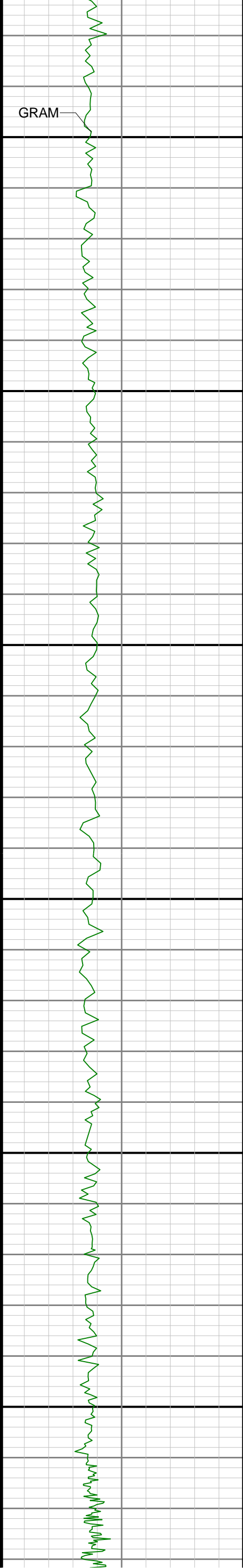
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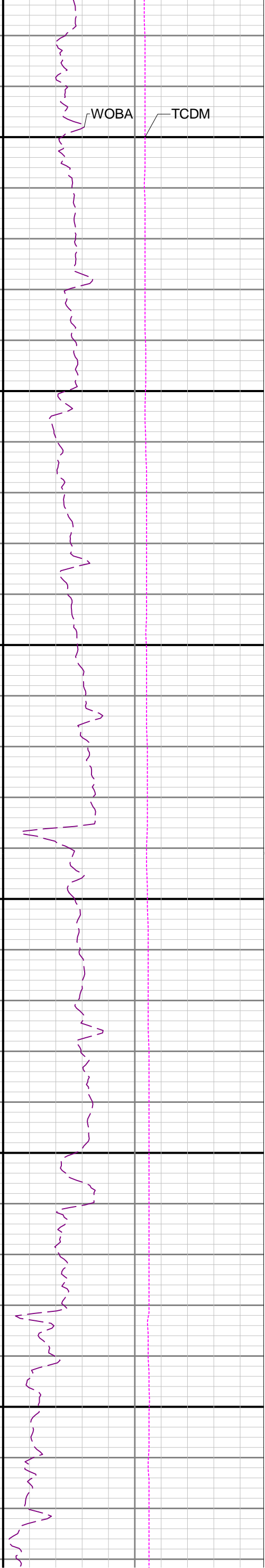
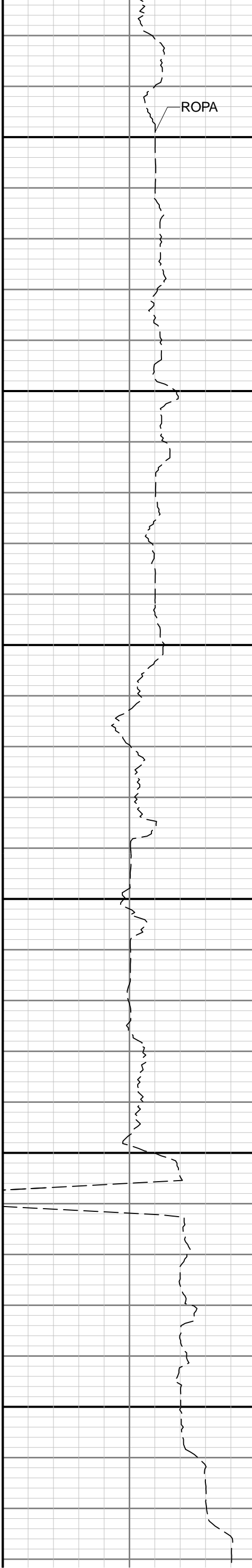


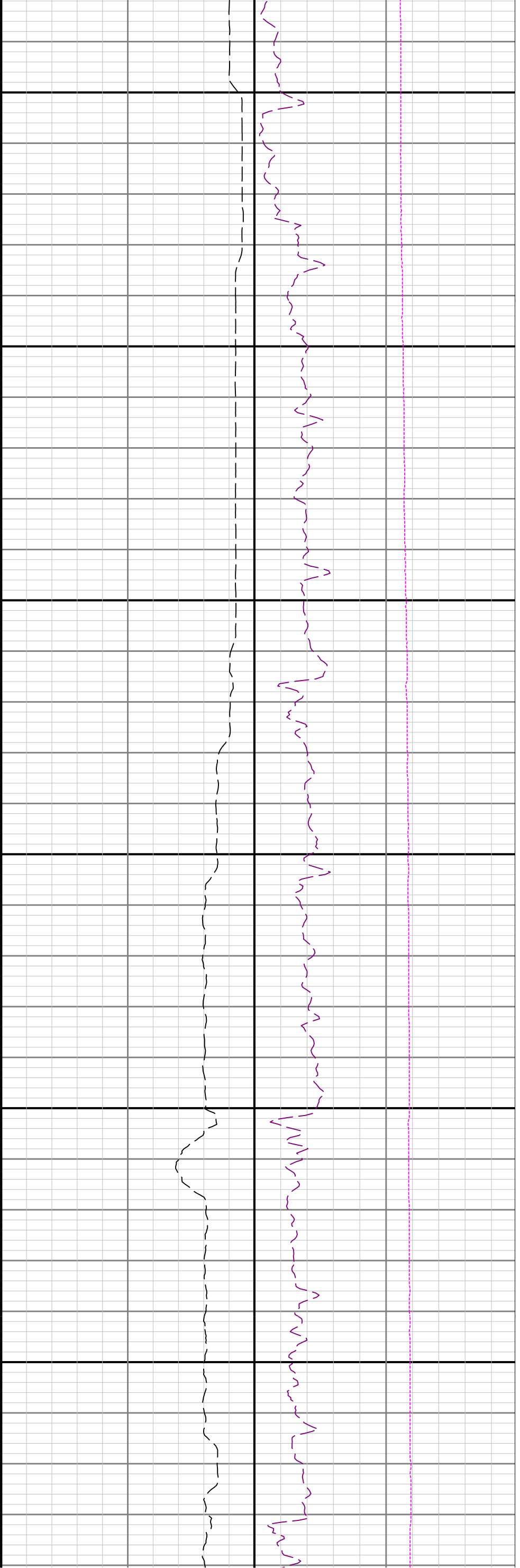


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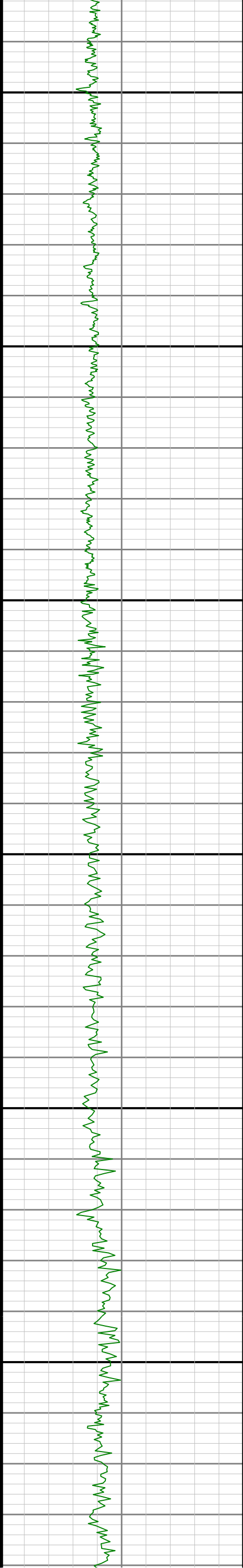


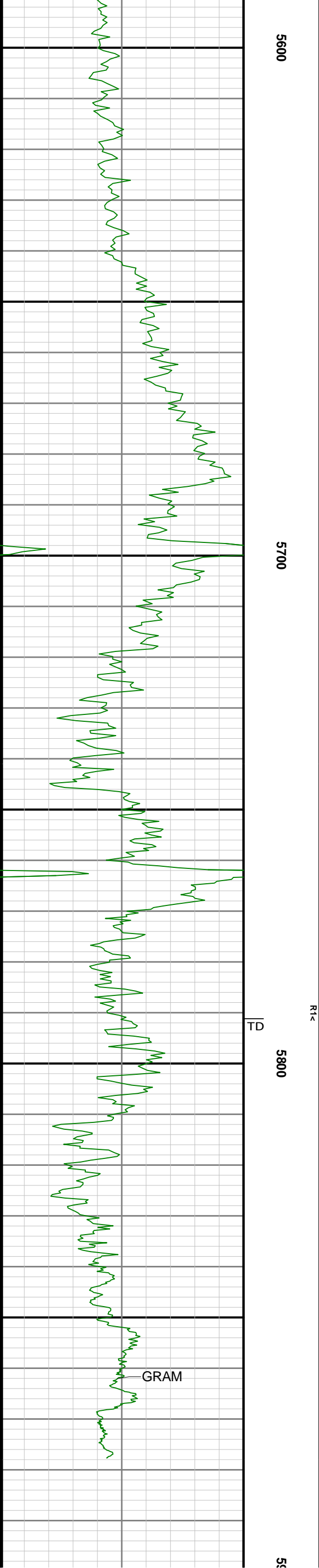
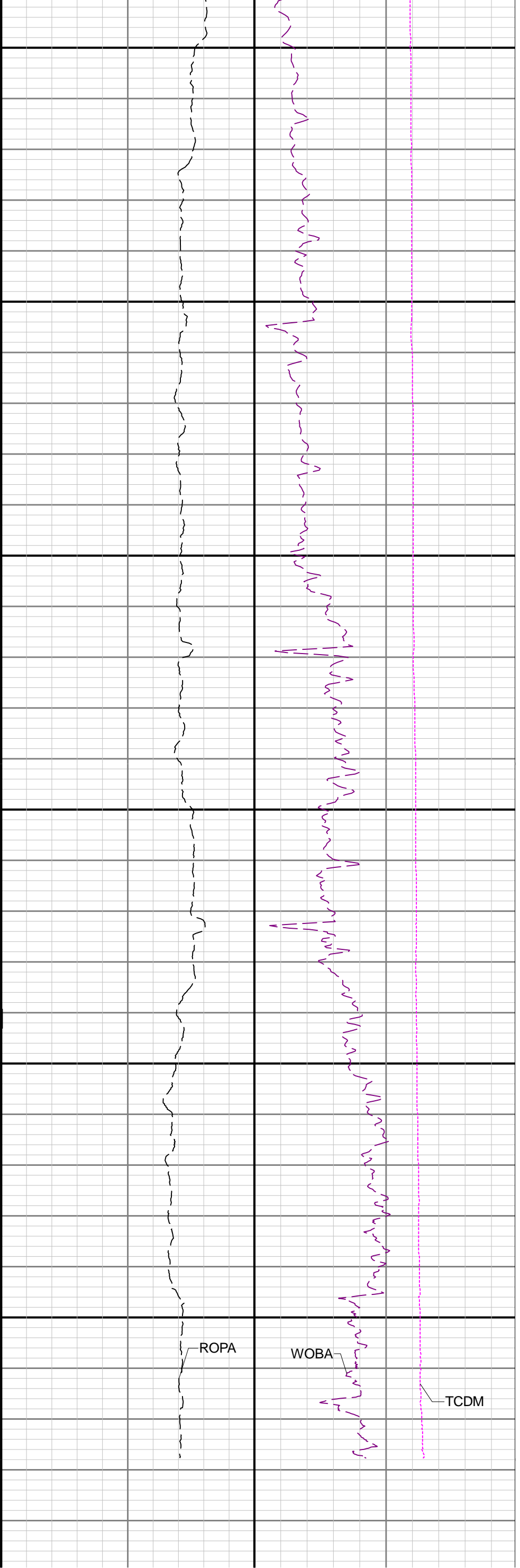


5300

5400

5500





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

Directional Survey Summary			
Latitude:	040° 46' 26.940" N	Longitude:	103° 53' 02.436" W
North Reference:	Grid	Drill Depth Zero:	Rig Floor
Vertical Datum is:	Mean Sea Level	Vertical Datum to DDZ: (ft)	4824.00
Vertical Section North: (ft)	0.00	Vertical Section East: (ft)	0.00
Vertical Section Azimuth: (deg)	174.57		
Grid Convergence: (deg)	-1.04	Magnetic Declination: (deg)	7.25
Total Correction: (deg)	6.21	TVD Calculation Method:	Minimum Curvature
Magnetic Correction:	On	Local Magnetic Field: (nT)	52368

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Latitude:	040° 46' 26.940" N	Longitude:	103° 53' 02.436" W
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Total Correction: (deg)	6.21	TVD Calculation Method:	Minimum Curvature
Magnetic Correction:	On	Local Magnetic Field: (nT)	52368

Local Magnetic Dip Angle: (deg)				67.01		Local Gravity Field: (m/s2)			9.801				
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	-4824.00	0.00	0.00	0.00	0.00	0.00
	88.00	0.43	318.42	N/A	0.25	-0.22	88.00	-4736.00	-0.27	88.00	0.49	0.49	-47.25
	183.00	0.41	81.96	N/A	0.56	-0.12	183.00	-4641.00	-0.57	95.00	0.78	-0.02	130.04
	275.00	0.33	16.61	N/A	0.86	0.28	275.00	-4549.00	-0.83	92.00	0.44	-0.09	-71.03
	370.00	0.42	109.85	N/A	1.01	0.69	370.00	-4454.00	-0.94	95.00	0.58	0.09	98.15
	463.00	0.17	116.69	N/A	0.83	1.13	462.99	-4361.01	-0.72	93.00	0.27	-0.27	7.35
	558.00	0.22	24.38	N/A	0.93	1.33	557.99	-4266.01	-0.80	95.00	0.30	0.05	-97.17
	652.00	0.46	141.78	N/A	0.80	1.64	651.99	-4172.01	-0.64	94.00	0.63	0.26	124.89
	747.00	0.27	12.76	N/A	0.72	1.93	746.99	-4077.01	-0.53	95.00	0.70	-0.20	-135.81
	841.00	0.36	103.24	N/A	0.87	2.26	840.99	-3983.01	-0.65	94.00	0.48	0.10	96.26
	935.00	0.23	49.23	N/A	0.92	2.69	934.99	-3889.01	-0.66	94.00	0.31	-0.14	-57.46
	1030.00	0.06	345.12	N/A	1.09	2.82	1029.99	-3794.01	-0.82	95.00	0.22	-0.18	-67.48
	1125.00	0.41	350.88	N/A	1.48	2.76	1124.99	-3699.01	-1.21	95.00	0.37	0.37	6.06
	1219.00	0.34	52.70	N/A	1.98	2.93	1218.99	-3605.01	-1.69	94.00	0.41	-0.07	65.77
	1314.00	0.11	163.58	N/A	2.06	3.18	1313.99	-3510.01	-1.75	95.00	0.41	-0.24	116.72
	1408.00	0.23	215.27	N/A	1.82	3.09	1407.99	-3416.01	-1.52	94.00	0.20	0.13	54.99
	1502.00	0.23	116.28	N/A	1.58	3.15	1501.98	-3322.02	-1.28	94.00	0.37	0.00	-105.31
	1597.00	0.42	78.04	N/A	1.57	3.67	1596.98	-3227.02	-1.22	95.00	0.29	0.20	-40.25
	1691.00	0.52	89.84	N/A	1.64	4.43	1690.98	-3133.02	-1.22	94.00	0.15	0.11	12.55
	1785.00	0.69	255.32	N/A	1.50	4.31	1784.98	-3039.02	-1.09	94.00	1.28	0.18	176.04
	1880.00	0.32	279.02	N/A	1.40	3.49	1879.97	-2944.03	-1.06	95.00	0.44	-0.39	24.95
	1931.00	0.26	305.86	N/A	1.49	3.26	1930.97	-2893.03	-1.17	51.00	0.29	-0.12	52.63
	1973.00	0.77	8.62	109.5	1.82	3.22	1972.97	-2851.03	-1.51	42.00	1.64	1.21	149.43
	2067.00	0.12	47.71	112.2	2.51	3.39	2066.97	-2757.03	-2.18	94.00	0.72	-0.69	41.59
	2161.00	0.73	87.22	114.9	2.61	4.06	2160.97	-2663.03	-2.21	94.00	0.68	0.65	42.03
	2256.00	0.61	358.39	120.3	3.14	4.65	2255.96	-2568.04	-2.69	95.00	0.99	-0.13	-93.51
	2351.00	0.73	3.26	120.3	4.25	4.67	2350.96	-2473.04	-3.79	95.00	0.14	0.13	5.13
	2445.00	0.84	269.69	120.3	4.85	4.02	2444.95	-2379.05	-4.45	94.00	1.22	0.12	-99.54
	2540.00	0.65	263.28	123.0	4.78	2.79	2539.94	-2284.06	-4.50	95.00	0.22	-0.20	-6.75
	2634.00	0.55	96.28	125.7	4.67	2.70	2633.94	-2190.06	-4.39	94.00	1.27	-0.11	-177.66
	2729.00	3.52	92.58	128.4	4.49	6.07	2728.87	-2095.13	-3.89	95.00	3.13	3.13	-3.89
	2823.00	6.41	94.40	131.1	3.96	14.19	2822.51	-2001.49	-2.59	94.00	3.08	3.07	1.94
	2918.00	9.62	89.74	131.1	3.58	27.42	2916.57	-1907.43	-0.97	95.00	3.44	3.38	-4.91
	3012.00	11.95	90.48	133.8	3.54	45.00	3008.90	-1815.10	0.74	94.00	2.48	2.48	0.79
	3107.00	13.31	90.02	136.5	3.45	65.78	3101.60	-1722.40	2.79	95.00	1.44	1.43	-0.48
	3296.00	13.16	65.29	136.5	12.45	107.11	3285.73	-1538.27	-2.25	189.00	2.97	-0.08	-13.08
	3390.00	13.27	73.43	139.2	20.00	127.17	3377.25	-1446.75	-7.87	94.00	1.98	0.12	8.66
	3485.00	13.41	87.86	139.2	23.52	148.64	3469.71	-1354.29	-9.35	95.00	3.50	0.15	15.19
	3579.00	13.72	85.69	141.9	24.76	170.65	3561.09	-1262.91	-8.50	94.00	0.63	0.33	-2.31
	3674.00	13.25	84.55	141.9	26.64	192.72	3653.47	-1170.53	-8.29	95.00	0.57	-0.49	-1.20
	3768.00	13.43	92.91	144.6	27.11	214.35	3744.94	-1079.06	-6.71	94.00	2.06	0.19	8.89
	3957.00	13.56	110.76	144.6	18.14	257.00	3928.80	-895.20	6.26	189.00	2.20	0.07	9.44
	4052.00	13.01	99.99	147.3	12.34	277.95	4021.27	-802.73	14.02	95.00	2.66	-0.58	-11.34
	4146.00	13.19	86.71	147.3	11.12	299.08	4112.85	-711.15	17.24	94.00	3.20	0.19	-14.13
	4241.00	13.04	83.06	147.3	13.03	320.54	4205.37	-618.63	17.36	95.00	0.89	-0.16	-3.84
	4335.00	13.25	83.34	150.0	15.56	341.77	4296.91	-527.09	16.85	94.00	0.23	0.22	0.30
	4430.00	14.23	89.58	150.0	16.91	364.26	4389.19	-434.81	17.63	95.00	1.87	1.03	6.57
	4524.00	15.23	85.04	152.7	18.07	388.12	4480.11	-343.89	18.74	94.00	1.62	1.06	-4.83
	4619.00	14.88	80.55	152.7	21.15	412.58	4571.85	-252.15	17.99	95.00	1.28	-0.37	-4.73
	4713.00	15.20	82.91	155.4	24.65	436.72	4662.63	-161.37	16.79	94.00	0.74	0.34	2.51
	4808.00	14.96	77.41	155.4	28.86	461.04	4754.36	-69.64	14.90	95.00	1.53	-0.25	-5.79
	4902.00	14.73	69.33	158.1	35.72	484.07	4845.24	21.24	10.24	94.00	2.21	-0.24	-8.60
	4996.00	15.02	74.96	160.8	43.10	507.01	4936.09	112.09	5.07	94.00	1.57	0.31	5.99
	5091.00	15.02	84.14	160.8	47.55	531.15	5027.86	203.86	2.92	95.00	2.50	-0.00	9.66
	5185.00	14.47	78.27	163.5	51.19	554.77	5118.77	294.77	1.54	94.00	1.69	-0.59	-6.24
	5280.00	14.51	72.50	166.2	57.18	577.74	5210.75	386.75	-2.25	95.00	1.52	0.04	-6.07
	5374.00	12.61	108.99	166.2	57.38	598.71	5302.29	478.29	-0.47	94.00	9.16	-2.02	38.82
	5469.00	18.05	155.72	171.6	40.52	614.64	5394.20	570.20	17.83	95.00	13.72	5.73	49.19
	5563.00	26.89	172.85	177.0	6.05	623.30	5481.07	657.07	52.96	94.00	11.61	9.40	18.22
	5657.00	34.31	166.87	177.0	-40.92	631.98	5561.94	737.94	100.54	94.00	8.52	7.89	-6.36
	5752.00	41.77	170.36	212.2	-98.28	643.37	5636.72	812.72	158.72	95.00	8.17	7.85	3.67
	5846.00	49.34	176.13	179.7	-164.84	651.04	5702.52	878.52	225.71	94.00	9.16	8.05	6.14
	5940.00	56.51	170.63	185.2	-239.22	659.84	5759.18	935.18	300.59	94.00	8.94	7.63	-5.85
	6035.00	64.88	167.89	185.2	-320.52	675.34	5805.64	981.64	382.98	95.00	9.16	8.81	-2.88
	6129.00	73.26	172.52	187.9	-406.94	690.16	5839.21	1015.21	470.43	94.00	10.03	8.91	4.93
	6224.00	78.85	173.55	187.9	-498.43	701.33	5862.10	1038.10	562.56	95.00	5.98	5.88	1.08
	6318.00	85.99	174.91	193.3	-591.07	710.68	5874.49	1050.49	655.67	94.00	7.73	7.60	1.45
	6413.00	90.12	172.93	193.3	-685.46	720.74	5877.71	1053.71	750.58	95.00	4.82	4.35	-2.08
	6507.00	90.55	172.56	190.6	-778.70	732.61	5877.16	1053.16	844.54	94.00	0.60	0.46	-0.39
	6602.00	90.59	174.69	193.3	-873.11	743.16	5876.22	1052.22	939.51	95.00	2.24	0.04	2.24
	6697.00	90.65	175.69	196.0	-967.76	751.12	5875.19	1051.19	1034.50	95.00	1.05	0.06	1.05
	6791.00	90.55	176.42	198.7	-1061.54	757.59	5874.20	1050.20	1128.46	94.00	0.78	-0.11	0.78
	6886.00	90.58	177.76	201.4	-1156.41	762.41	5873.27	1049.27	1223.36	95.00	1.41	0.03	1.41
	6980.00	90.65	176.31	201.4	-1250.27	767.27	5872.26	1048.26	1317.27	94.00	1.54	0.07	-1.54
	7074.00	90.52	176.37	204.1	-1344.08	773.27	5871.30	1047.30	1411.22	94.00	0.15	-0.14	0.06
	7169.00	90.62	174.80	206.8	-1438.79	780.58	5870.35	1046.35	1506.20	95.00	1.66	0.11	-1.65
	7263.00	90.25	176.11	209.5	-1532.49	788.03	5869.64	1045.64	1600.23	94.00	1.45	-0.39	1.39

	7336.00	90.43	177.32	209.3	-1027.33	792.36	5869.06	1043.06	1693.09	95.00	1.91	0.19	1.91
	7453.00	90.62	177.41	209.5	-1722.27	796.85	5868.21	1044.21	1789.95	95.00	0.57	0.20	-0.54
	7547.00	90.62	178.35	212.2	-1816.20	800.33	5867.19	1043.19	1883.78	94.00	1.00	0.00	1.00
	7642.00	90.62	179.34	212.2	-1911.17	802.24	5866.16	1042.16	1978.51	95.00	1.04	-0.00	1.04
	7736.00	90.55	179.48	212.2	-2005.16	803.21	5865.20	1041.20	2072.17	94.00	0.17	-0.07	0.15
	7831.00	90.55	179.16	214.9	-2100.15	804.34	5864.29	1040.29	2166.84	95.00	0.34	0.00	-0.34
	7925.00	90.55	178.98	214.9	-2194.13	805.86	5863.39	1039.39	2260.55	94.00	0.19	0.00	-0.19
	8020.00	90.52	178.17	214.9	-2289.10	808.23	5862.50	1038.50	2355.31	95.00	0.85	-0.03	-0.85
	8115.00	90.62	178.75	214.9	-2384.06	810.78	5861.55	1037.55	2450.09	95.00	0.62	0.11	0.61
	8210.00	90.74	178.72	217.6	-2479.03	812.88	5860.43	1036.43	2544.83	95.00	0.13	0.13	-0.03
	8304.00	90.55	178.04	217.6	-2572.99	815.53	5859.37	1035.37	2638.61	94.00	0.75	-0.20	-0.72
	8398.00	90.40	178.14	217.6	-2666.93	818.67	5858.59	1034.59	2732.43	94.00	0.19	-0.16	0.11
	8493.00	90.52	178.60	220.3	-2761.89	821.37	5857.83	1033.83	2827.22	95.00	0.50	0.13	0.48
	8588.00	90.46	178.37	220.3	-2856.85	823.88	5857.01	1033.01	2922.00	95.00	0.25	-0.06	-0.24
	8682.00	90.86	177.30	220.3	-2950.78	827.43	5855.93	1031.93	3015.83	94.00	1.22	0.43	-1.14
	8777.00	90.58	179.16	220.3	-3045.72	830.36	5854.74	1030.74	3110.63	95.00	1.98	-0.29	1.96
	8872.00	90.52	176.61	223.0	-3140.64	833.87	5853.83	1029.83	3205.46	95.00	2.68	-0.06	-2.68
	8967.00	90.83	178.21	223.0	-3235.54	838.16	5852.71	1028.71	3300.33	95.00	1.72	0.33	1.68
	9061.00	90.55	179.33	225.7	-3329.51	840.18	5851.57	1027.57	3394.07	94.00	1.23	-0.30	1.19
	9156.00	90.65	179.24	225.7	-3424.49	841.37	5850.58	1026.58	3488.74	95.00	0.14	0.11	-0.09
	9250.00	90.58	178.78	225.7	-3518.47	842.99	5849.57	1025.57	3582.46	94.00	0.49	-0.07	-0.49
	9345.00	90.49	179.16	225.7	-3613.45	844.70	5848.68	1024.68	3677.17	95.00	0.41	-0.09	0.40
	9439.00	90.71	179.01	225.7	-3707.44	846.20	5847.70	1023.70	3770.88	94.00	0.28	0.23	-0.16
	9533.00	90.43	178.28	225.7	-3801.41	848.42	5846.76	1022.76	3864.63	94.00	0.83	-0.30	-0.78
	9628.00	90.55	177.73	225.7	-3896.34	851.73	5845.95	1021.95	3959.46	95.00	0.59	0.13	-0.58
	9722.00	90.68	177.27	228.4	-3990.25	855.83	5844.94	1020.94	4053.33	94.00	0.51	0.14	-0.49
	9817.00	90.46	177.49	228.4	-4085.14	860.17	5844.00	1020.00	4148.21	95.00	0.33	-0.23	0.23
	9911.00	90.49	179.53	231.1	-4179.10	862.61	5843.22	1019.22	4241.98	94.00	2.17	0.03	2.17
	10006.00	90.46	179.56	231.1	-4274.10	863.37	5842.43	1018.43	4336.62	95.00	0.04	-0.03	0.03
	10100.00	90.40	179.40	231.1	-4368.09	864.22	5841.73	1017.73	4430.27	94.00	0.18	-0.06	-0.17
	10195.00	90.58	179.21	233.8	-4463.08	865.37	5840.91	1016.91	4524.94	95.00	0.28	0.19	-0.20
	10289.00	90.55	176.83	233.8	-4557.01	868.62	5839.99	1015.99	4618.76	94.00	2.53	-0.03	-2.53
	10383.00	90.40	177.71	233.8	-4650.90	873.10	5839.21	1015.21	4712.65	94.00	0.95	-0.16	0.94
	10477.00	90.31	176.96	233.8	-4744.80	877.47	5838.62	1014.62	4806.54	94.00	0.80	-0.10	-0.80
	10572.00	90.43	179.16	236.5	-4839.74	880.68	5838.01	1014.01	4901.36	95.00	2.32	0.13	2.32
	10666.00	90.43	179.28	233.8	-4933.72	881.96	5837.30	1013.30	4995.05	94.00	0.13	-0.00	0.13
	10761.00	90.28	179.55	236.5	-5028.72	882.93	5836.72	1012.72	5089.70	95.00	0.33	-0.16	0.28
	10855.00	90.40	178.31	236.5	-5122.70	884.69	5836.16	1012.16	5183.43	94.00	1.33	0.13	-1.32
	10949.00	90.37	178.11	239.2	-5216.65	887.63	5835.53	1011.53	5277.24	94.00	0.22	-0.03	-0.21
	11044.00	90.18	176.64	239.2	-5311.55	891.98	5835.07	1011.07	5372.12	95.00	1.56	-0.20	-1.55
	11138.00	90.22	172.43	239.2	-5405.10	900.93	5834.74	1010.74	5466.10	94.00	4.48	0.04	-4.48
	11233.00	90.18	176.06	239.2	-5499.60	910.45	5834.41	1010.41	5561.08	95.00	3.82	-0.04	3.82
	11327.00	90.28	179.68	239.2	-5593.52	913.94	5834.03	1010.03	5654.91	94.00	3.85	0.11	3.85
	11421.00	90.31	178.41	239.2	-5687.51	915.51	5833.55	1009.55	5748.62	94.00	1.35	0.03	-1.35
	11610.00	90.49	179.27	239.2	-5876.46	919.34	5832.23	1008.23	5937.09	189.00	0.46	0.10	0.46
	11705.00	90.28	179.95	239.2	-5971.45	919.98	5831.59	1007.59	6031.72	95.00	0.75	-0.22	0.72
	11799.00	90.34	179.01	241.9	-6065.45	920.84	5831.08	1007.08	6125.37	94.00	1.00	0.06	-1.00
	11894.00	90.31	180.55	241.9	-6160.44	921.20	5830.54	1006.54	6219.97	95.00	1.62	-0.03	1.62
	11989.00	90.28	180.68	241.9	-6255.44	920.18	5830.05	1006.05	6314.44	95.00	0.14	-0.03	0.14
	12083.00	90.52	180.75	244.6	-6349.43	919.01	5829.40	1005.40	6407.90	94.00	0.27	0.26	0.07
	12178.00	90.40	178.70	244.6	-6444.42	919.46	5828.64	1004.64	6502.51	95.00	2.16	-0.13	-2.16
	12272.00	90.55	179.98	244.6	-6538.41	920.55	5827.86	1003.86	6596.18	94.00	1.37	0.16	1.36
	12366.00	90.43	178.40	247.3	-6632.39	921.88	5827.05	1003.05	6689.86	94.00	1.69	-0.13	-1.68
	12461.00	90.43	179.64	241.9	-6727.37	923.50	5826.34	1002.34	6784.57	95.00	1.31	0.00	1.31
	12555.00	90.43	178.64	241.9	-6821.36	924.91	5825.63	1001.63	6878.27	94.00	1.06	-0.00	-1.06
	12650.00	90.49	179.50	247.3	-6916.34	926.45	5824.87	1000.87	6972.97	95.00	0.91	0.06	0.91
	12744.00	90.34	178.19	247.3	-7010.32	928.35	5824.19	1000.19	7066.71	94.00	1.40	-0.16	-1.39
	12933.00	90.31	178.31	244.6	-7199.23	934.12	5823.12	999.12	7255.32	189.00	0.07	-0.02	0.06
	13027.00	90.34	179.82	247.3	-7293.21	935.65	5822.59	998.59	7349.02	94.00	1.61	0.03	1.61
	13216.00	90.31	179.68	247.3	-7482.20	936.48	5821.51	997.51	7537.25	189.00	0.08	-0.02	-0.07
	13311.00	90.43	179.70	247.3	-7577.20	936.99	5820.90	996.90	7631.87	95.00	0.13	0.13	0.02
	13500.00	90.28	179.48	247.3	-7766.19	938.34	5819.73	995.73	7820.14	189.00	0.14	-0.08	-0.12
	13594.00	90.43	178.98	244.6	-7860.18	939.61	5819.15	995.15	7913.82	94.00	0.56	0.16	-0.53
	13689.00	90.28	178.97	250.0	-7955.17	941.31	5818.56	994.56	8008.54	95.00	0.16	-0.16	-0.01
	13783.00	90.25	180.56	250.0	-8049.16	941.69	5818.12	994.12	8102.15	94.00	1.69	-0.03	1.69
	13878.00	90.49	180.32	239.2	-8144.16	940.96	5817.51	993.51	8196.65	95.00	0.36	0.25	-0.25
	13972.00	90.34	179.37	244.6	-8238.15	941.22	5816.83	992.83	8290.25	94.00	1.02	-0.16	-1.01
	14066.00	90.40	180.47	244.6	-8332.15	941.35	5816.22	992.22	8383.84	94.00	1.17	0.06	1.17
	14160.00	90.25	179.98	247.3	-8426.15	940.98	5815.69	991.69	8477.38	94.00	0.55	-0.16	-0.52
	14254.00	90.15	178.96	247.3	-8520.14	941.85	5815.36	991.36	8571.03	94.00	1.09	-0.11	-1.09
	14349.00	90.25	178.80	250.0	-8615.12	943.71	5815.03	991.03	8665.76	95.00	0.20	0.11	-0.17
	14443.00	90.43	177.68	252.7	-8709.07	946.59	5814.47	990.47	8759.57	94.00	1.21	0.19	-1.19
	14538.00	90.58	179.41	331.1	-8804.04	949.00	5813.63	989.63	8854.33	95.00	1.83	0.16	1.82
	14633.00	90.68	178.43	250.0	-8899.01	950.80	5812.59	988.59	8949.05	95.00	1.04	0.11	-1.03
	14727.00	90.62	178.47	252.7	-8992.97	953.34	5811.52	987.52	9042.83	94.00	0.08	-0.06	0.04
	14822.00	90.52	177.67	252.7	-9087.91	956.54	5810.58	986.58	9137.65	95.00	0.85	-0.11	-0.84
	14916.00	90.59	179.53	255.4	-9181.88	958.83	5809.67	985.67	9231.41	94.00	1.98	0.07	1.98
	15011.00	90.65	180.50	255.4	-9276.87	958.81	5808.64	984.64	9325.97	95.00	1.02	0.06	1.02
	15105.00	90.62	180.61	255.4	-9370.86	957.90	5807.60	983.60	9419.45	94.00	0.12	-0.03	0.12
	15200.00	90.52	179.58	255.4	-9465.85	957.74	5806.65	982.65	9514.01	95.00	1.09	-0.11	-1.08
	15295.00	90.86	177.41	255.4	-9560.81	960.24	5805.51	981.51	9608.77	95.00	2.31	0.36	-2.28
	15389.00	90.58	176.65	255.4	-9654.67	965.11	5804.33	980.33	9702.67	94.00	0.86	-0.30	-0.81
	15483.00	90.71	175.54	258.1	-9748.45	971.51	5803.27	979.27	9796.63	94.00	1.19	0.14	-1.18
	15577.00	90.58	175.94	258.1	-9842.18	978.49	5802.21	978.21	9890.61	94.00	0.45</		