



Gamma Ray

LWD MEMORY LOG

Scale:

1:240

True Vertical Depth

Depth Reference:

Driller's Depth

Status:

Final Print

API No: 05-123-50793-00

Job ID: 110727951

Permanent Datum (P.D.): Mean Sea Level

Log Measured From: Rig Floor

Dates

From: 2021-03-02
To: 2021-03-04
Spud: 2021-02-04

Drilled (ft) 1953.00
Top: 1953.00
Bottom: 17277.00

Logged (ft) 1953.00
Top: 1953.00
Bottom: 17263.00

Azi Reference North: 1953.00
Total Magnetic Field Strength: (nT) 51962
Mag to Reference North Correction: (deg) 7.12

Interval

Magnetic Field Reference

Grid Dip Angle: (deg) 66.81

Elev. KB: 4662.00 ft
Elev. DF: 4632.00 ft
Elev. GL:

Other Services:

Borehole Record

Casing Record

Hole Size (in)	From (ft)	To (ft)	Size (in)	Weight (lb/ft)	From (ft)	To (ft)
----------------	-----------	---------	-----------	----------------	-----------	---------

13.500	30.00	1953.00	9.625	36.00	30.00	1943.00
--------	-------	---------	-------	-------	-------	---------

8.500	1953.00	17277.00				
-------	---------	----------	--	--	--	--

--	--	--	--	--	--	--

--	--	--	--	--	--	--

--	--	--	--	--	--	--

--	--	--	--	--	--	--

--	--	--	--	--	--	--

Mud Record

Deviation Record

Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc Az (Start)	Inc Az (End)
------	-----------	---------	----------------	---------------	------------------	----------------

Oil Based Mud	1953.00	17277.00	8.500	15324.00	0.71 262.25	89.91 0.06
---------------	---------	----------	-------	----------	---------------	--------------

--	--	--	--	--	--	--

--	--	--	--	--	--	--

--	--	--	--	--	--	--

--	--	--	--	--	--	--

Acquisition System Software Version

Cadence RT 5.8

Plot Studio 5.8.9018.1

Other

Rig: H&P 517

Contractor: Helmerich & Payne Drilling Co

District: RMA

Unit: D&E

(C) 2020 Baker Hughes Company - All rights reserved. Baker Hughes and its affiliates provides this information on an "as is" basis for general information purposes and believes it to be accurate as of the date of publication. Baker Hughes does not make any representation as to the accuracy or completeness of the information and makes no warranties of any kind, specific, implied or oral, to the fullest extent permissible by law, including those of merchantability and fitness for a particular purpose or use. Baker Hughes hereby disclaims any and all liability for any direct, indirect, consequential or special damages, claims for lost profits, or third party claims arising from the use of the information, whether a claim is asserted in contract, tort, or otherwise. The Baker Hughes logo is a trademark of Baker Hughes Company.

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	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
1	1	8.500	PDC	3.00	AutoTrak Curve	1940.05	13221.05	1953.00	13234.00	2021-03-02 01:35	2021-03-03 17:33	36.99
2	2	8.500	PDC	3.00	AutoTrak Curve	13221.00	17263.00	13234.00	17277.00	2021-03-04 07:54	2021-03-04 21:38	15.54

Crew

Name	Active	Report	Name	Active	Report	Name	Active	Report
------	--------	--------	------	--------	--------	------	--------	--------

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Tien Bui	2021-03-01	2021-03-05						

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+ (%)
2021-03-01 09:41	1	1953.00	Oil Based Mud	9.2	10	N/A	19.5	79.5/20.5	Active Pit	27000	0.00
2021-03-03 20:20	1	12600.00	Oil Based Mud	9.7	11	N/A	17.8	79.3/20.7	Active Pit	30000	0.00
2021-03-04 01:52	2	13234.00	Oil Based Mud	9.7	11	N/A	17.8	79.3/20.7	Active Pit	30000	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	AutoTrak Curve Steering Unit	14316019	Near Bit VSS	5.93	6.78	7.000	4.330
1	AutoTrak Curve Steering Unit	14316019	Near Bit Inclination	5.93	6.78	7.000	4.330
1	AutoTrak Curve MWD	14281551	Gamma (single)	2.76	12.95	7.000	3.250
1	AutoTrak Curve MWD	14281551	Directional (mag)	12.27	22.46	7.000	3.250
2	AutoTrak Curve Steering Unit	13867779	Near Bit VSS	5.93	6.79	7.000	4.330
2	AutoTrak Curve Steering Unit	13867779	Near Bit Inclination	5.93	6.79	7.000	4.330
2	AutoTrak Curve MWD	12599902	Gamma (single)	2.75	12.96	7.000	3.250
2	AutoTrak Curve MWD	12599902	Directional (mag)	12.27	22.48	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

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 and 2 utilized 6 ¾ inch NaviGamma service (Gamma Ray and Directional) behind a 8 1/2 inch bit and rotary steerable assembly from 1953 to 17277 feet MD (1953 to 6732 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.

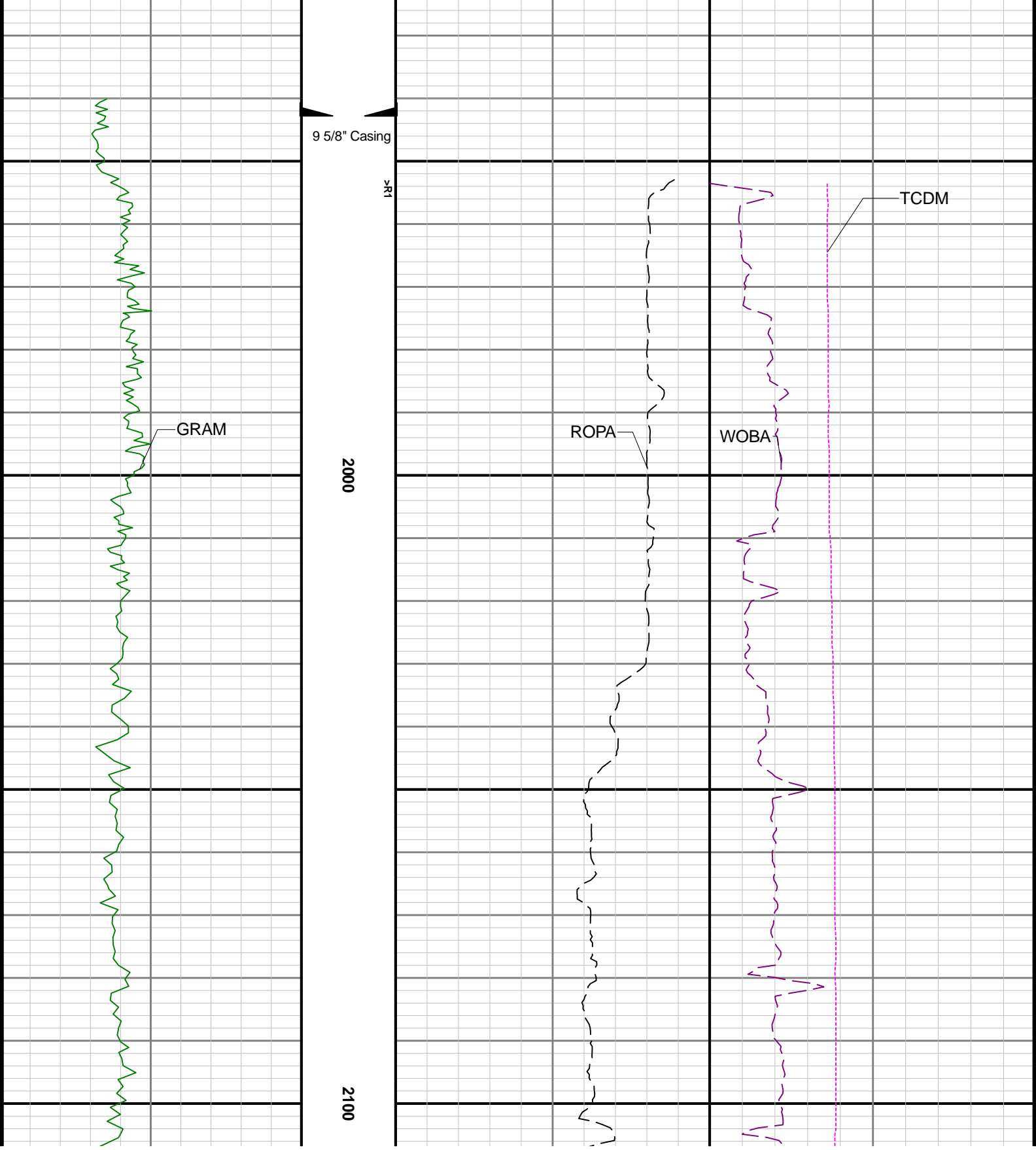
Remarks

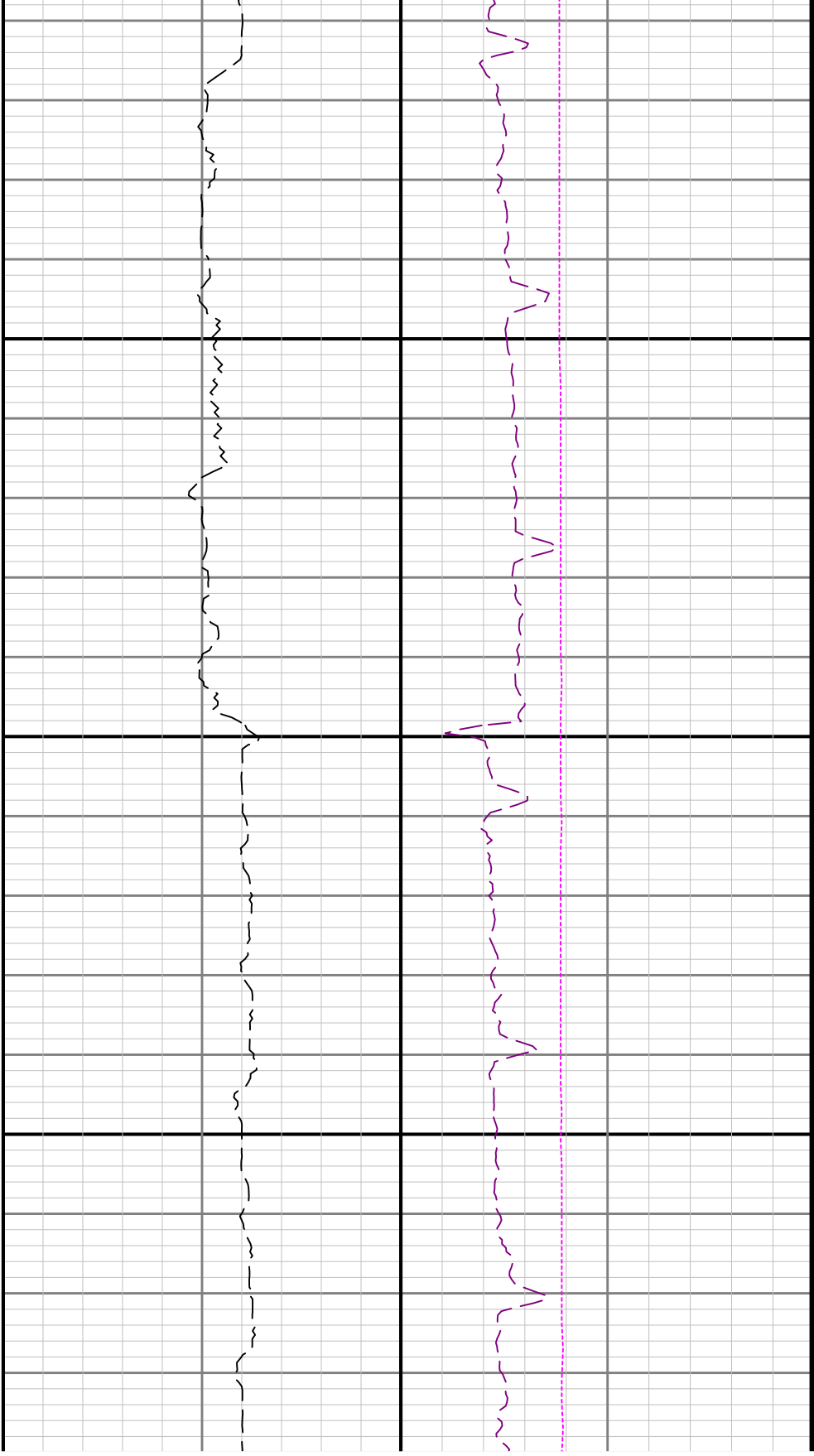
Number	Depth (ft)	Hole Section (in)	Run No.	Remark
--------	---------------	----------------------	---------	--------

Curve Mnemonics

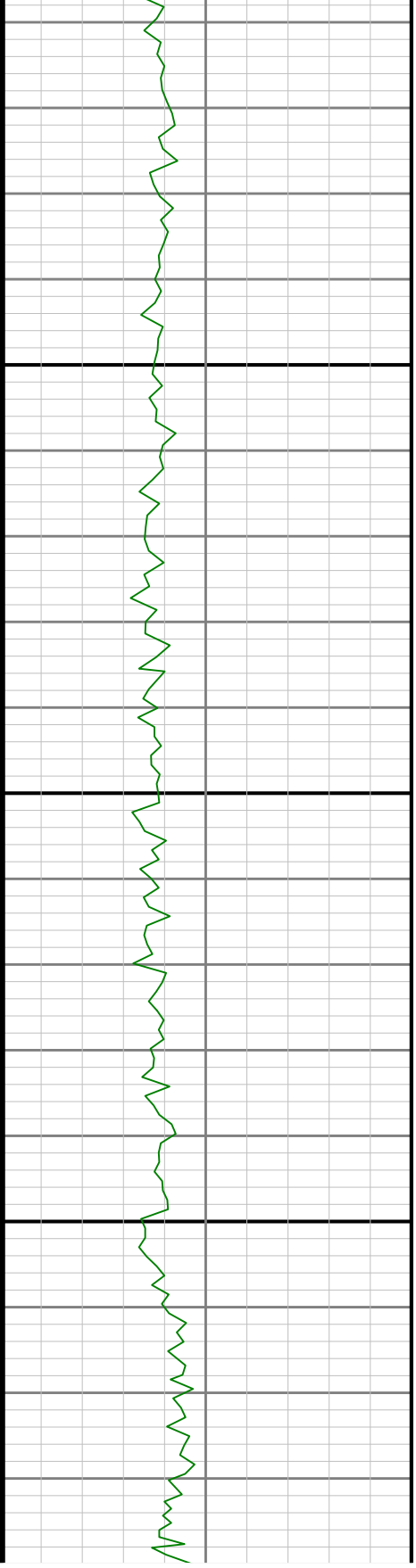
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
WOBA	Weight on Bit - Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API
TCDM	Directional Real-Time Survey Temperature	degF

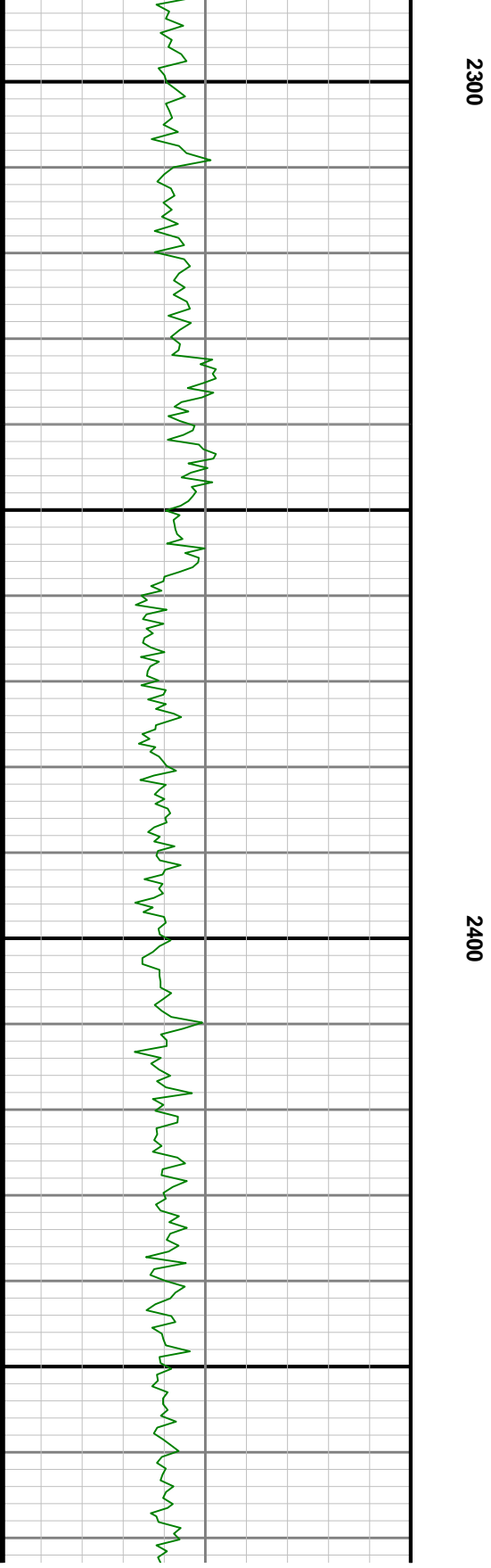
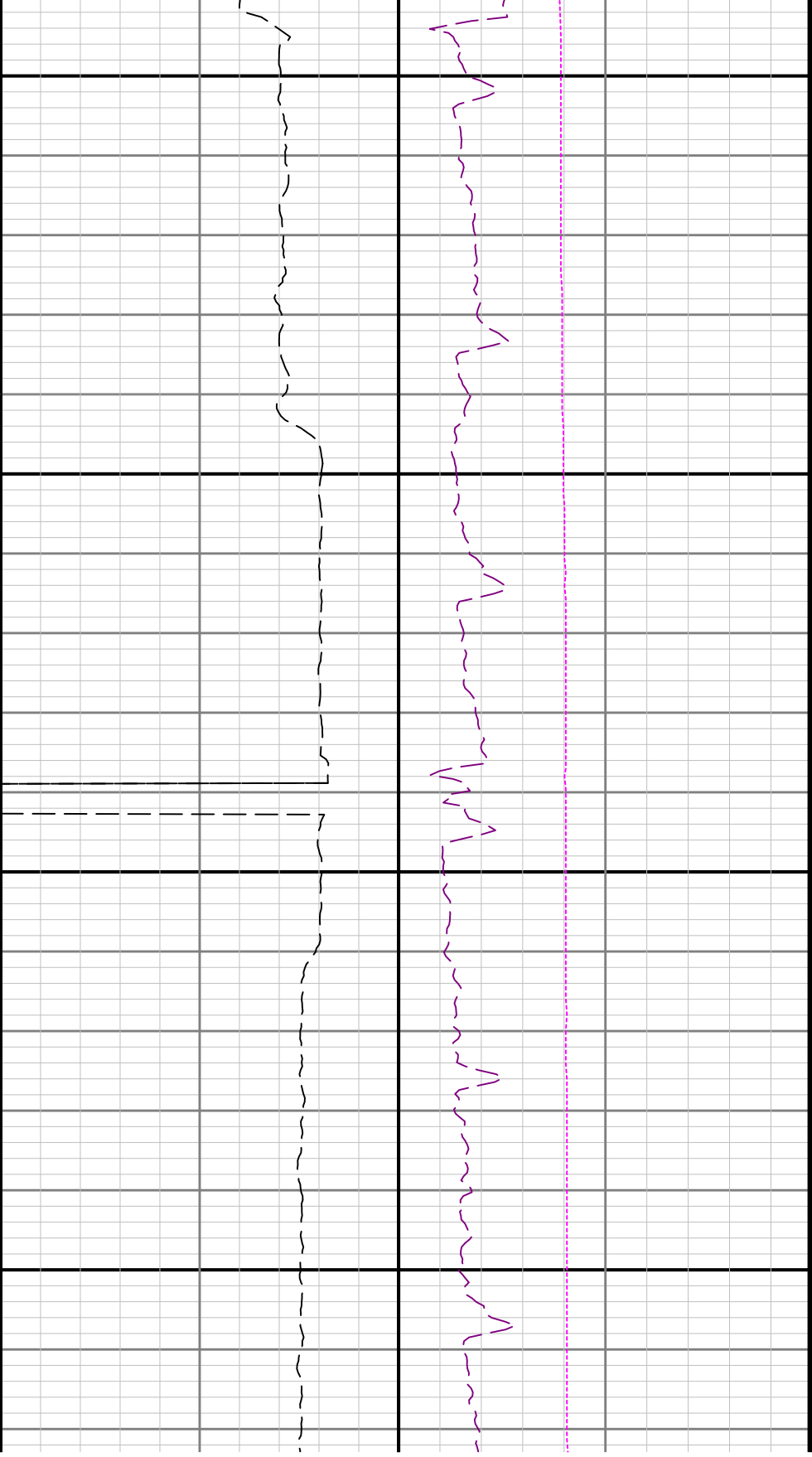
Gamma Ray - Apparent 0.5 ft Average GRAM	TVD 1:240 feet	Depth Averaged ROP 3 ft Average ROPA	Weight On Bit, Average 1 ft Average WOBA
0 300		1000 0	0 50
API		ft/h	klb
			Downhole Temperature TCDM
			0 300
			degF

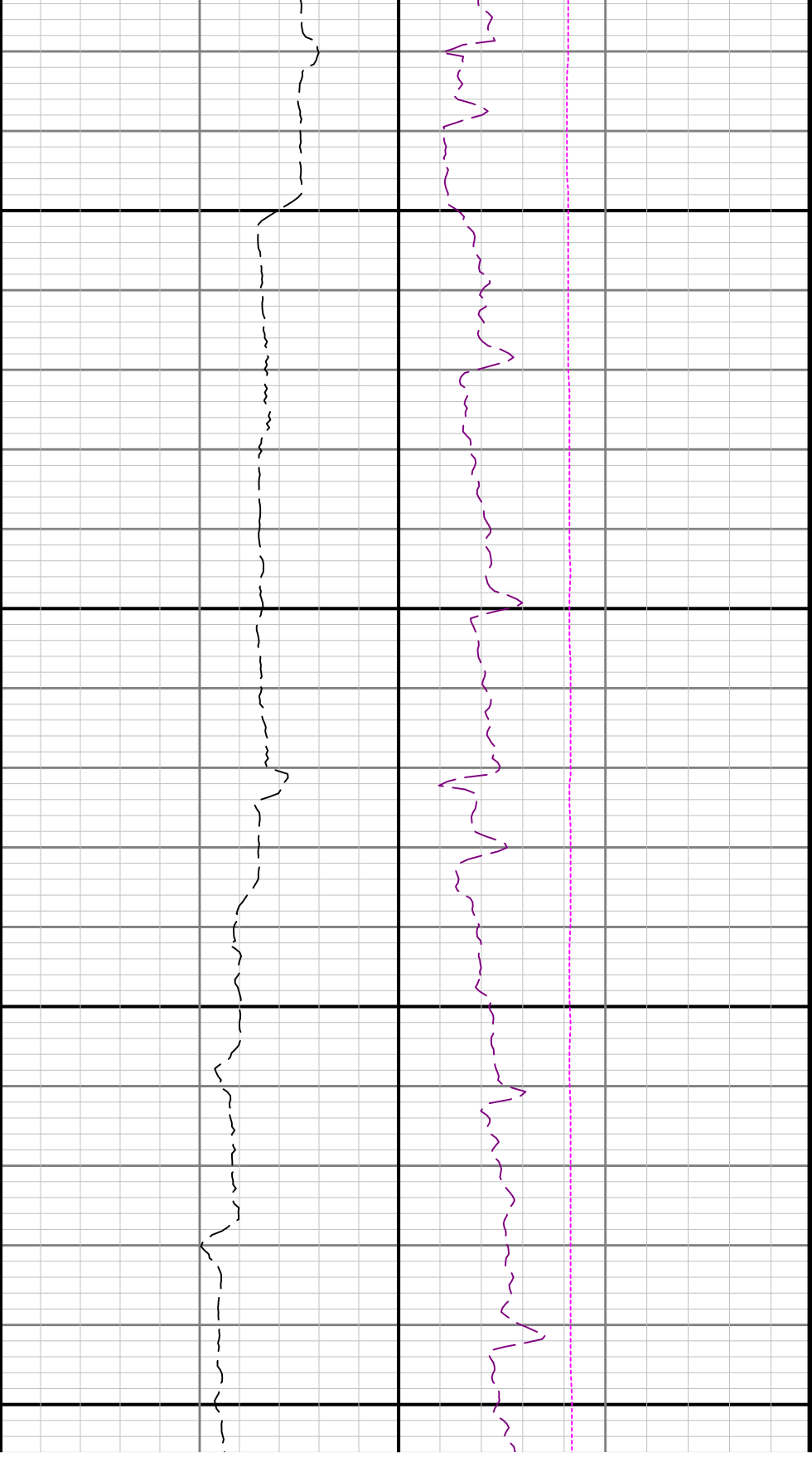




2200

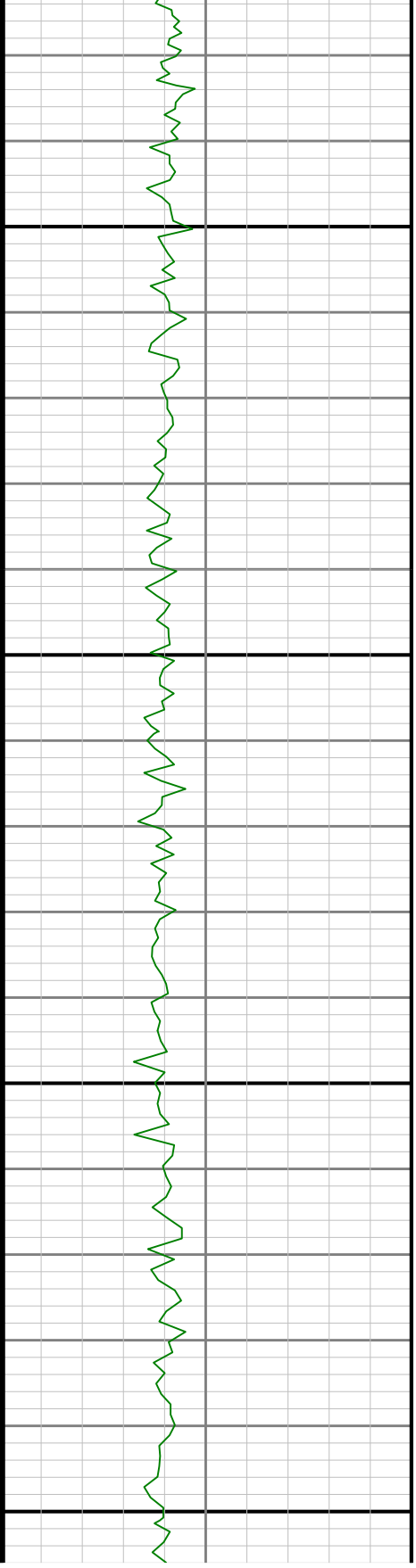


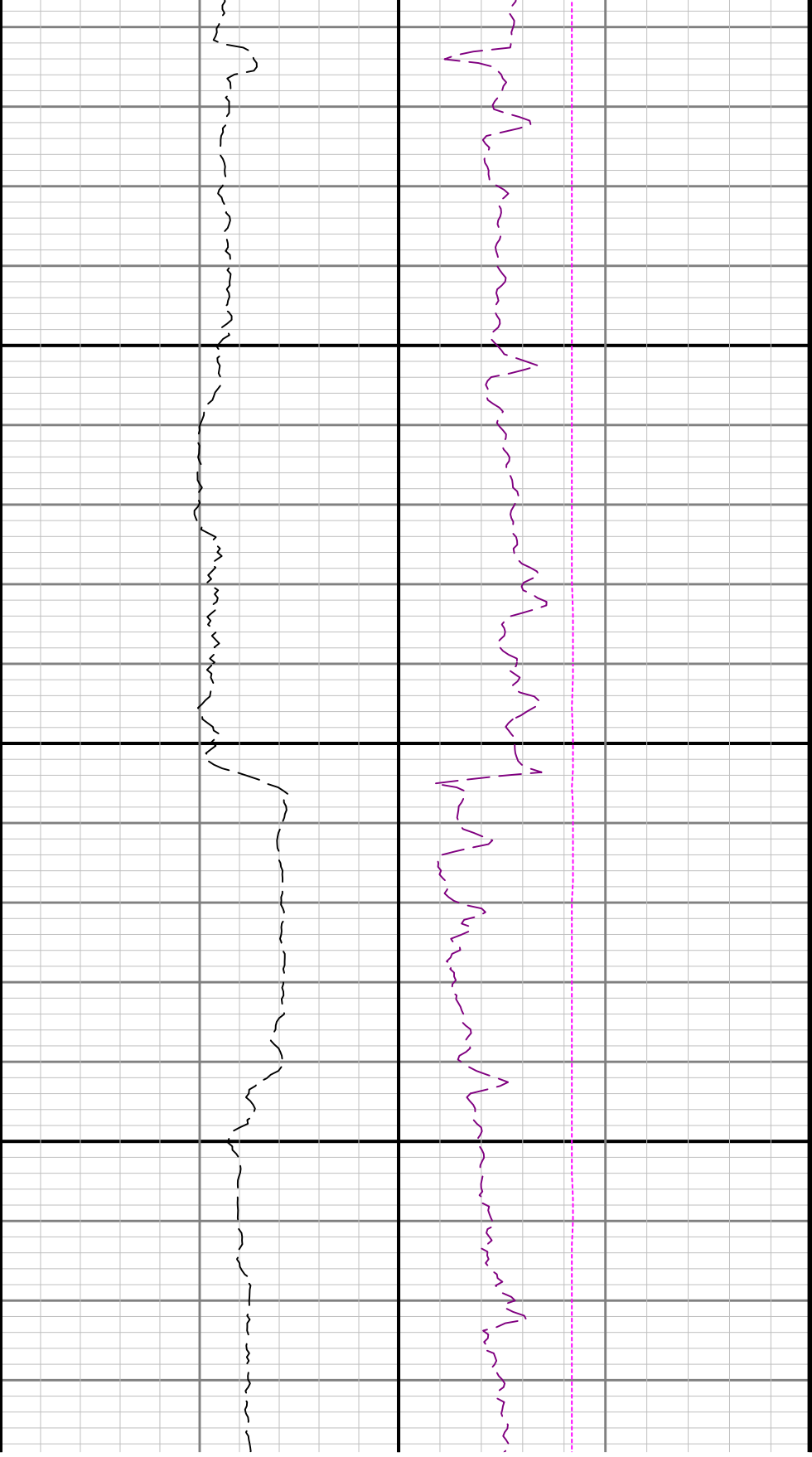




2500

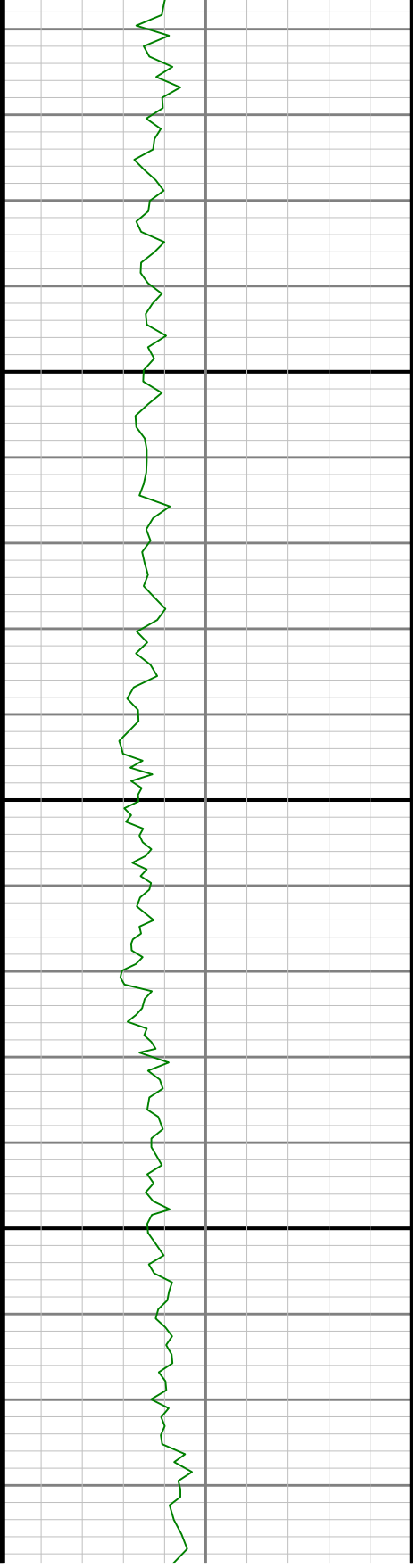
2600

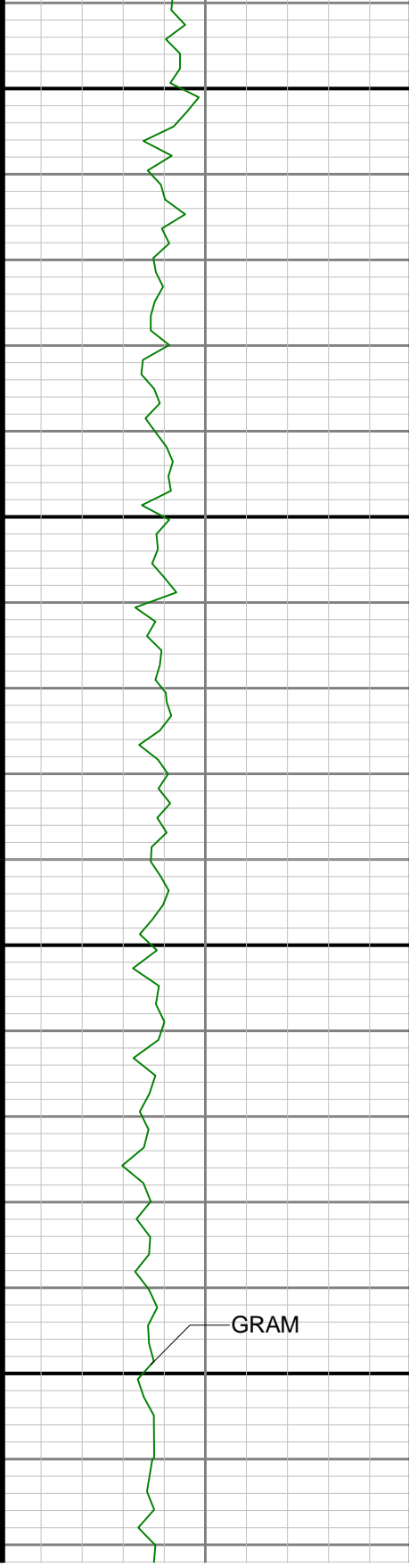




2700

2800



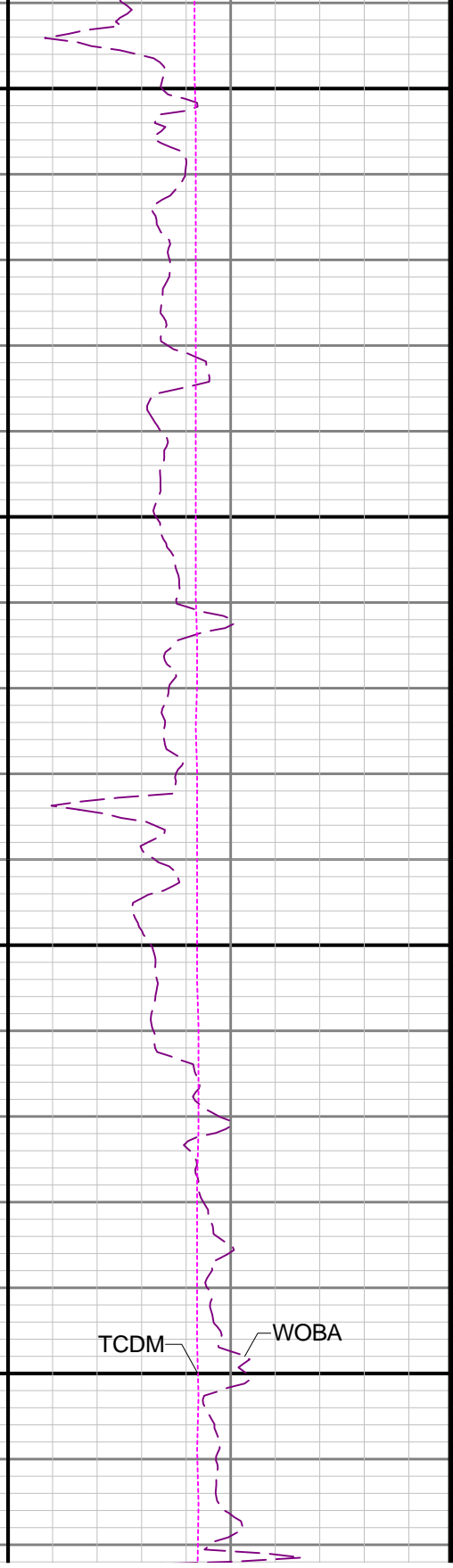


2900

3000

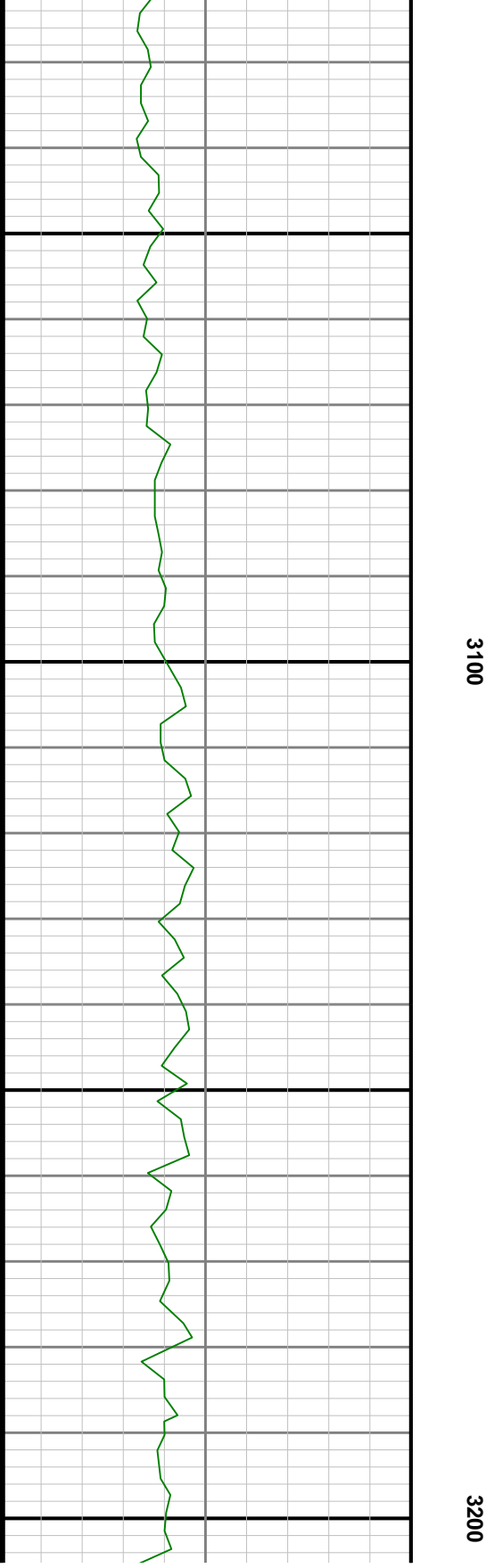
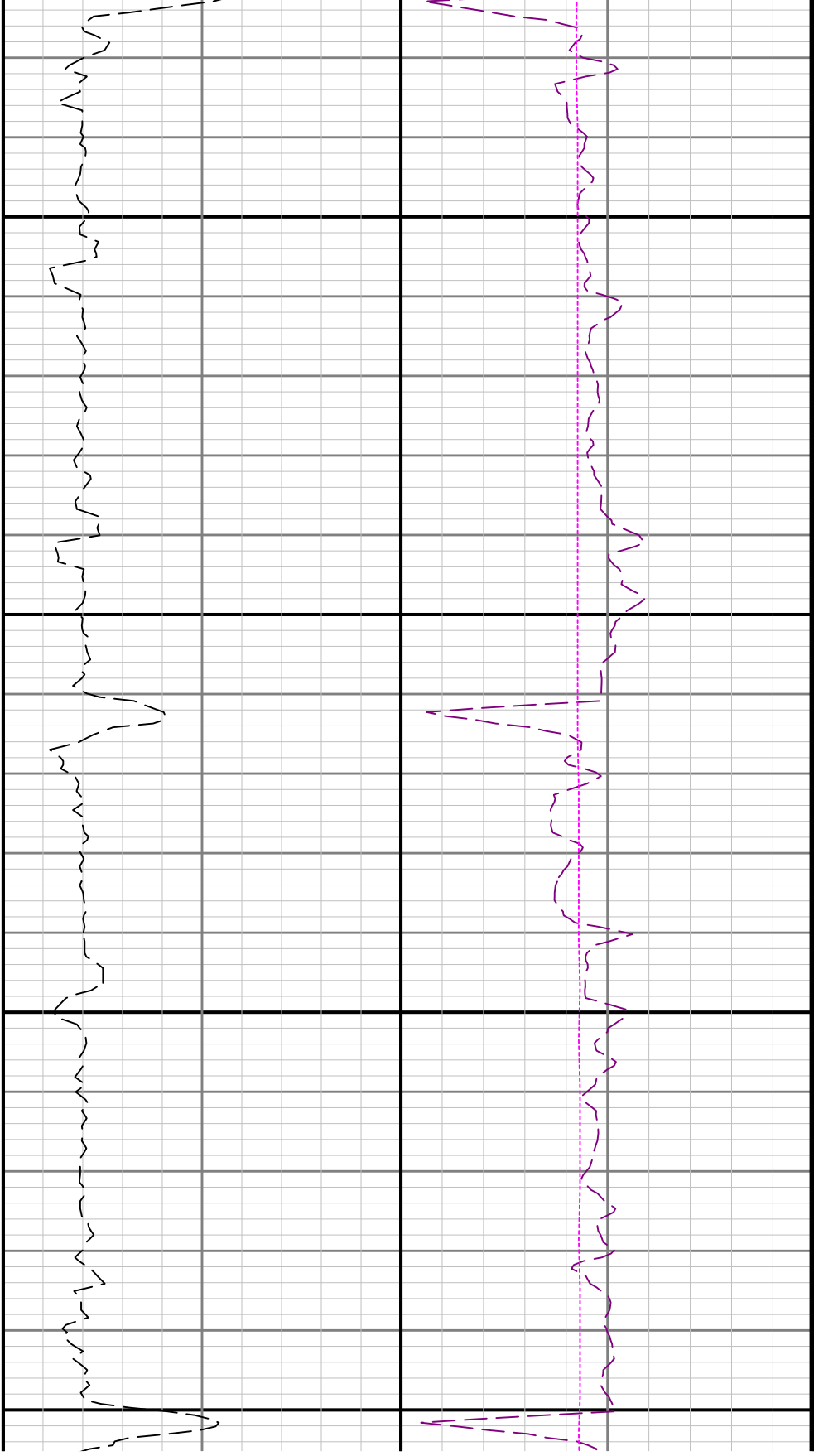


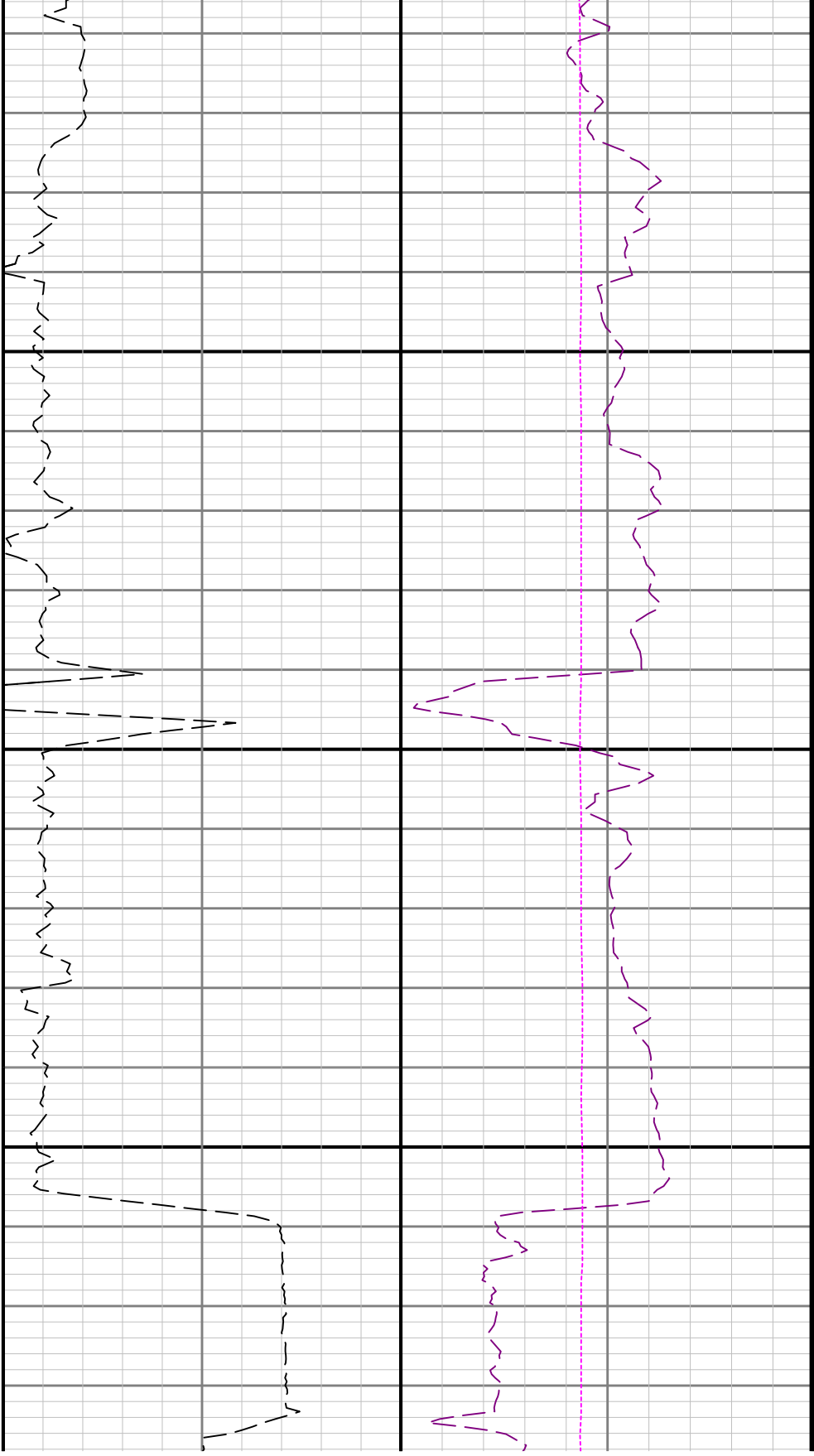
ROPA



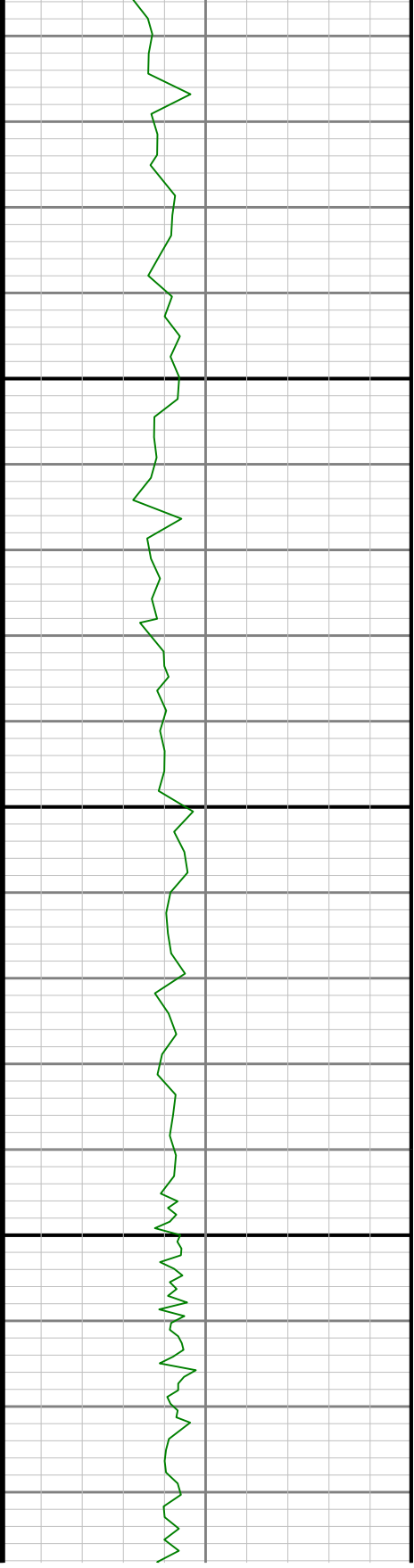
TCDM

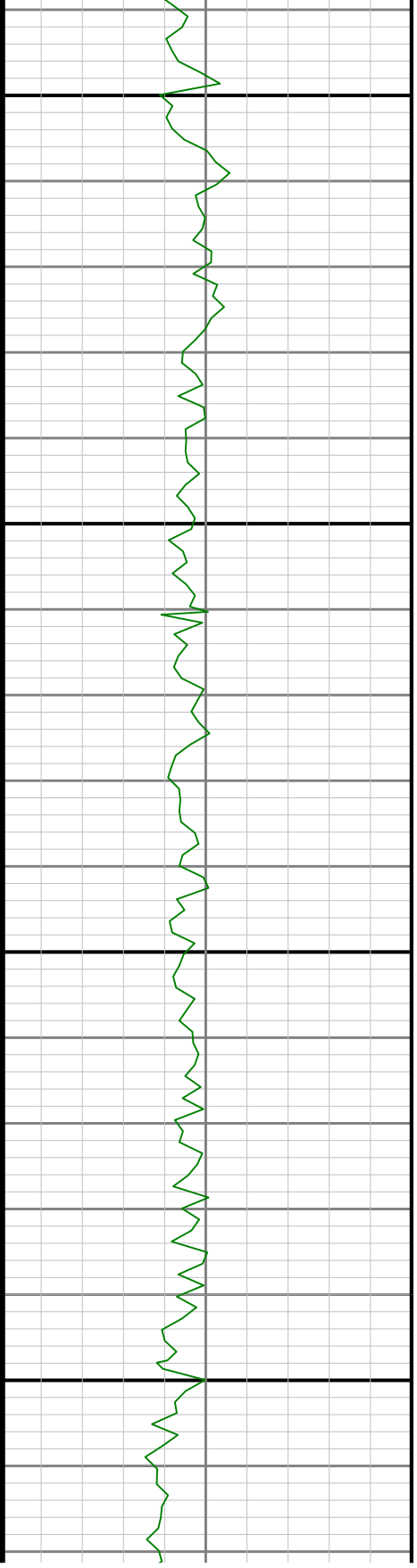
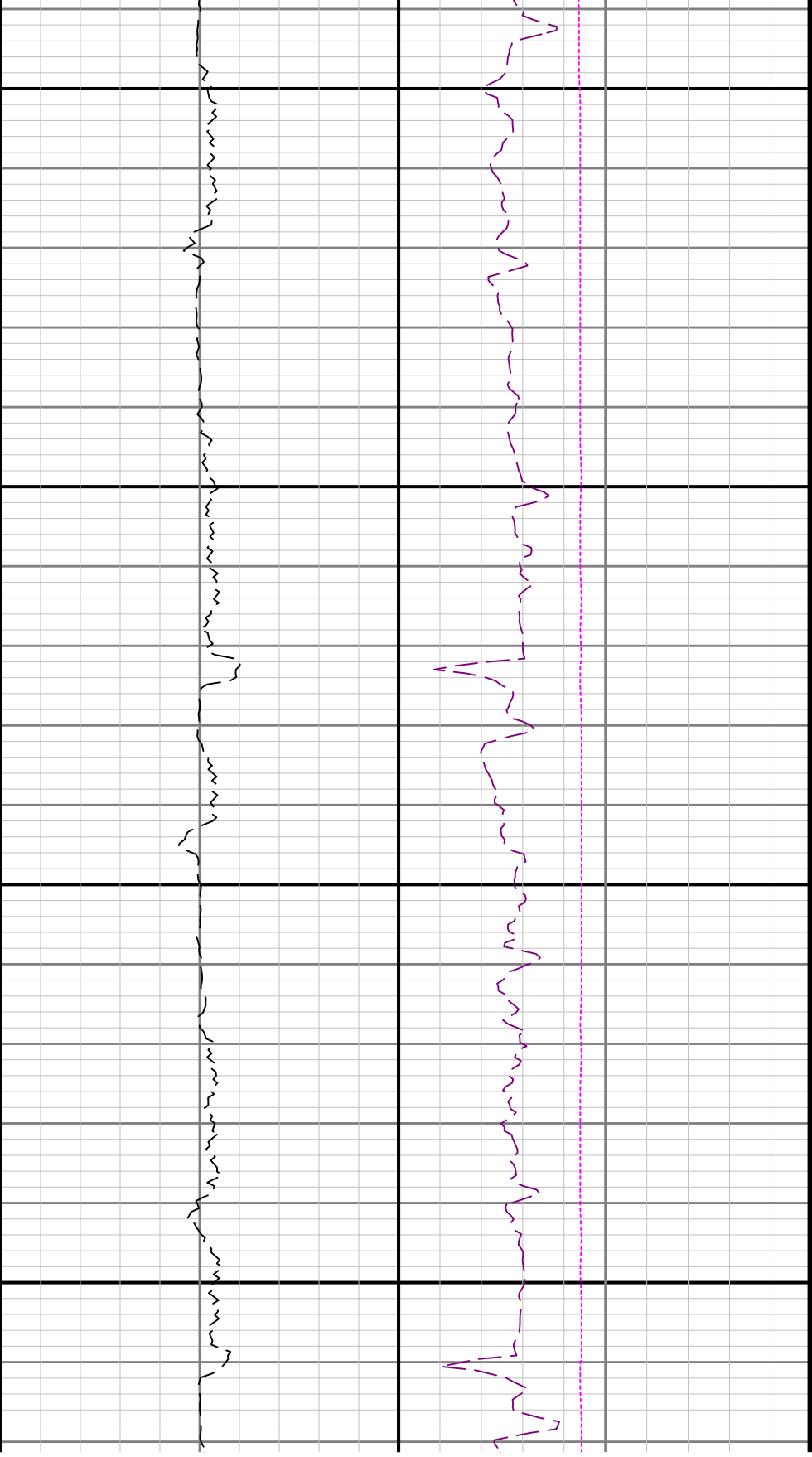
WOBA

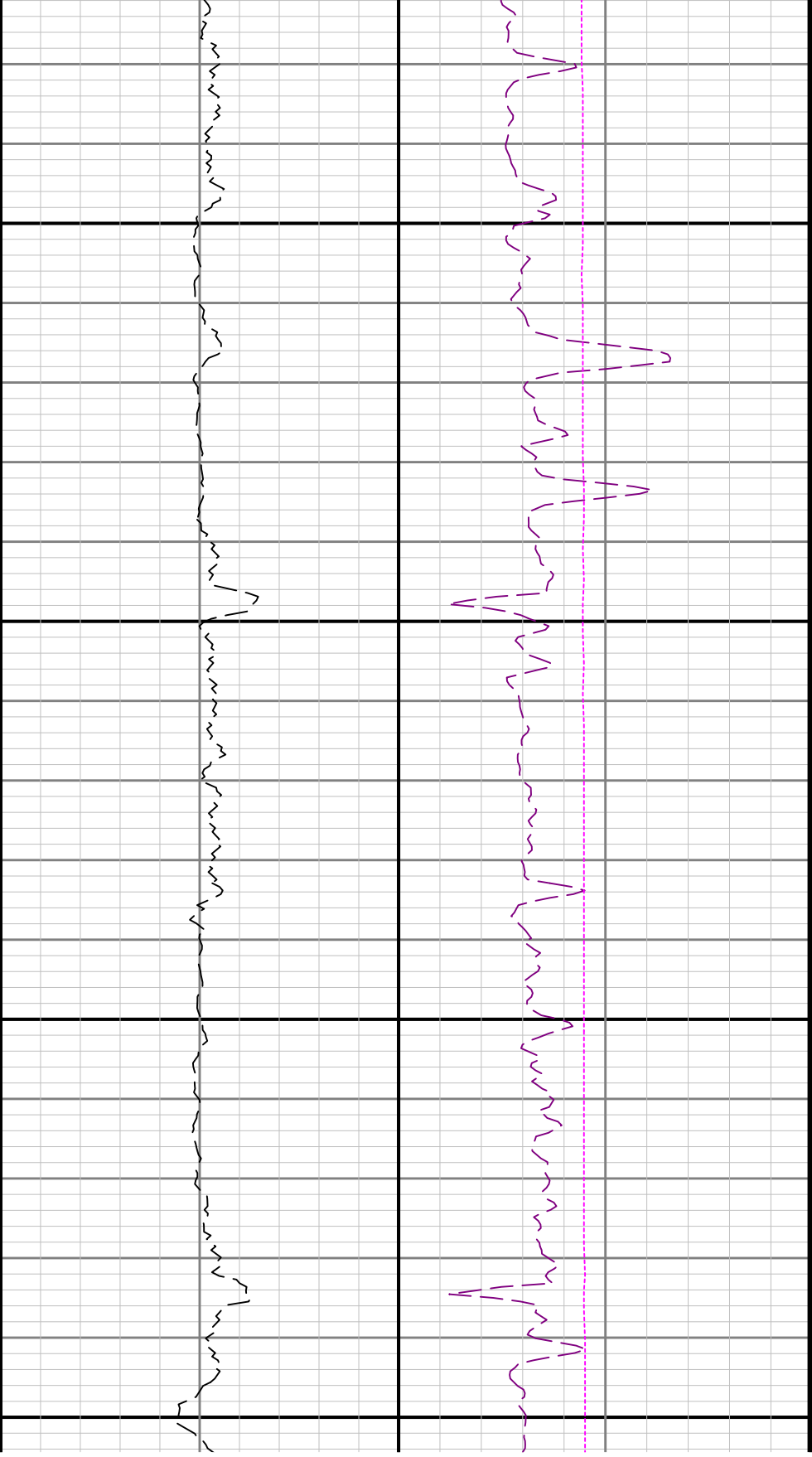




3300

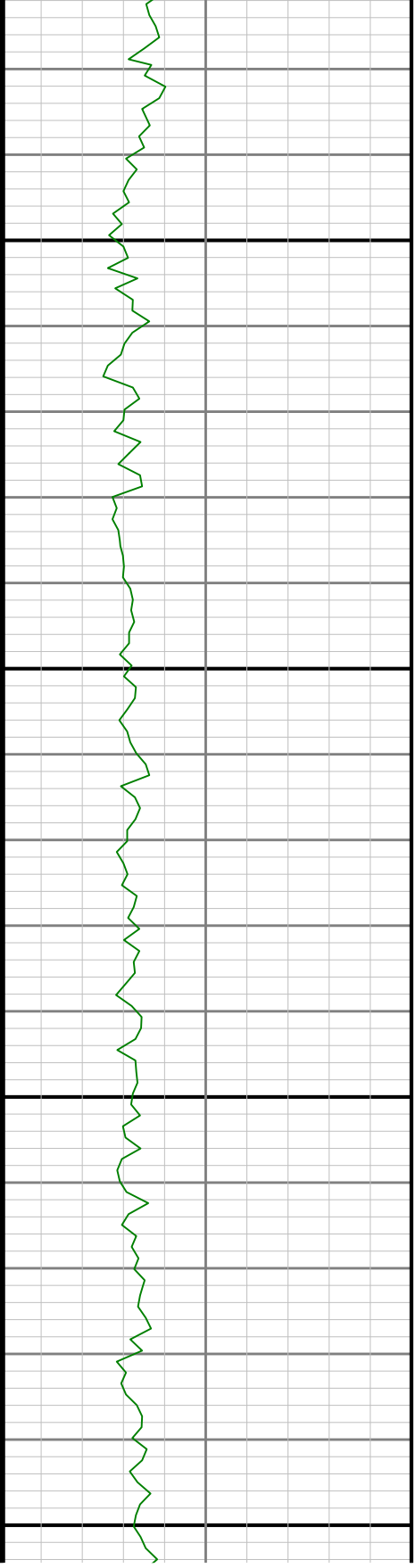


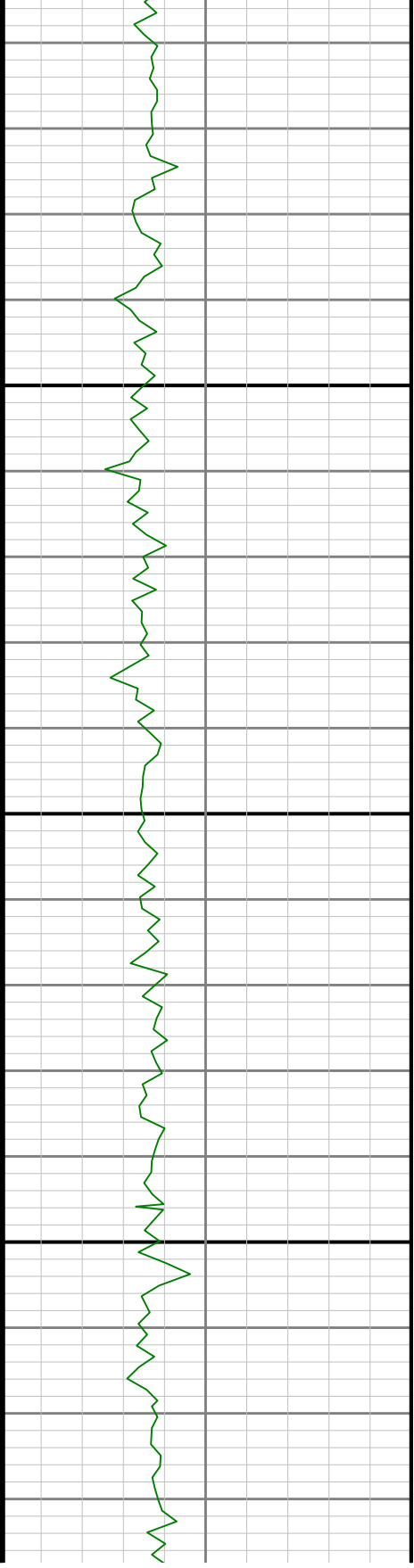
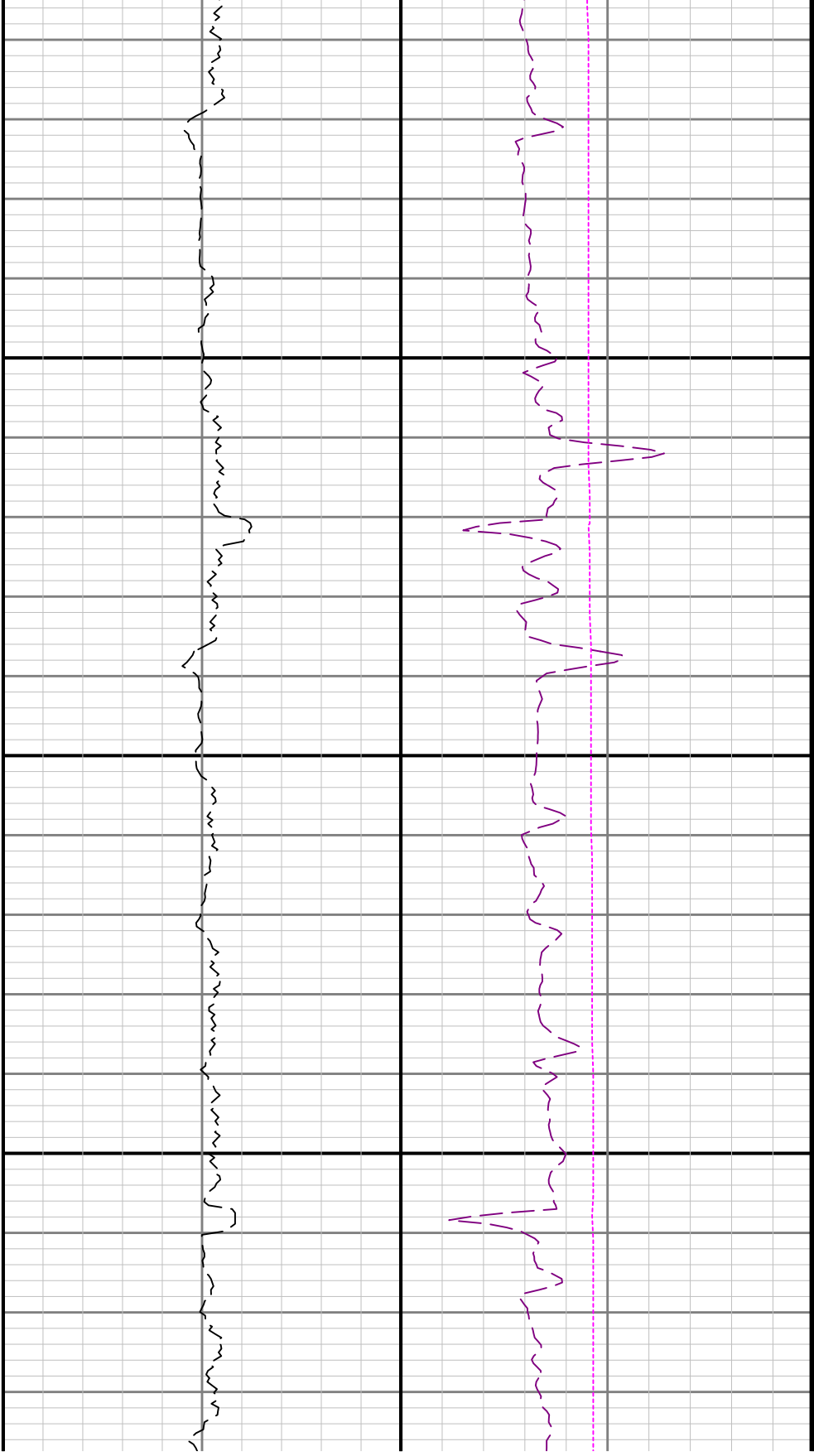


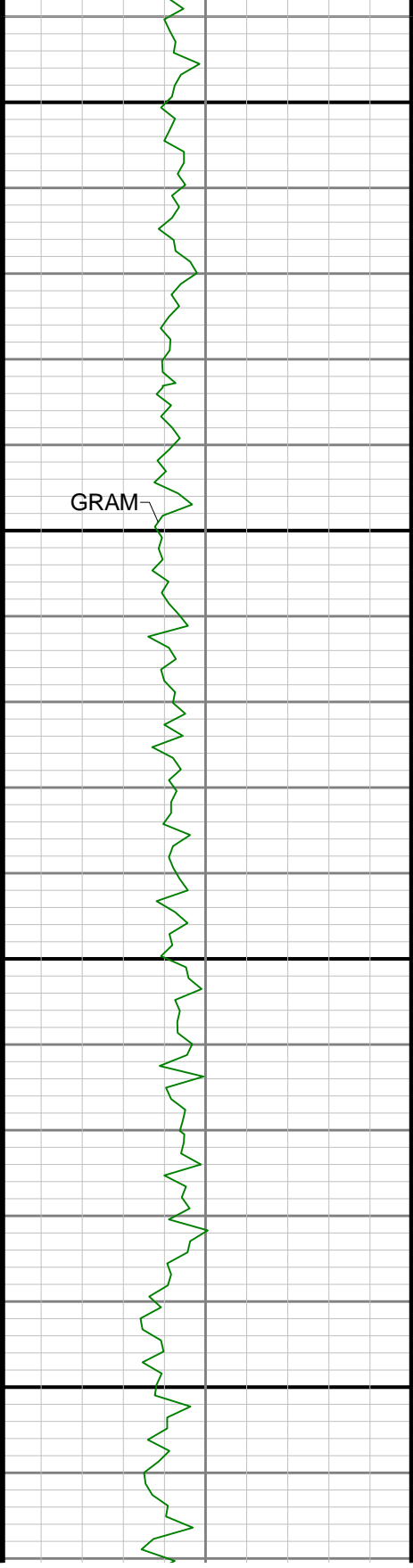


3600

3700

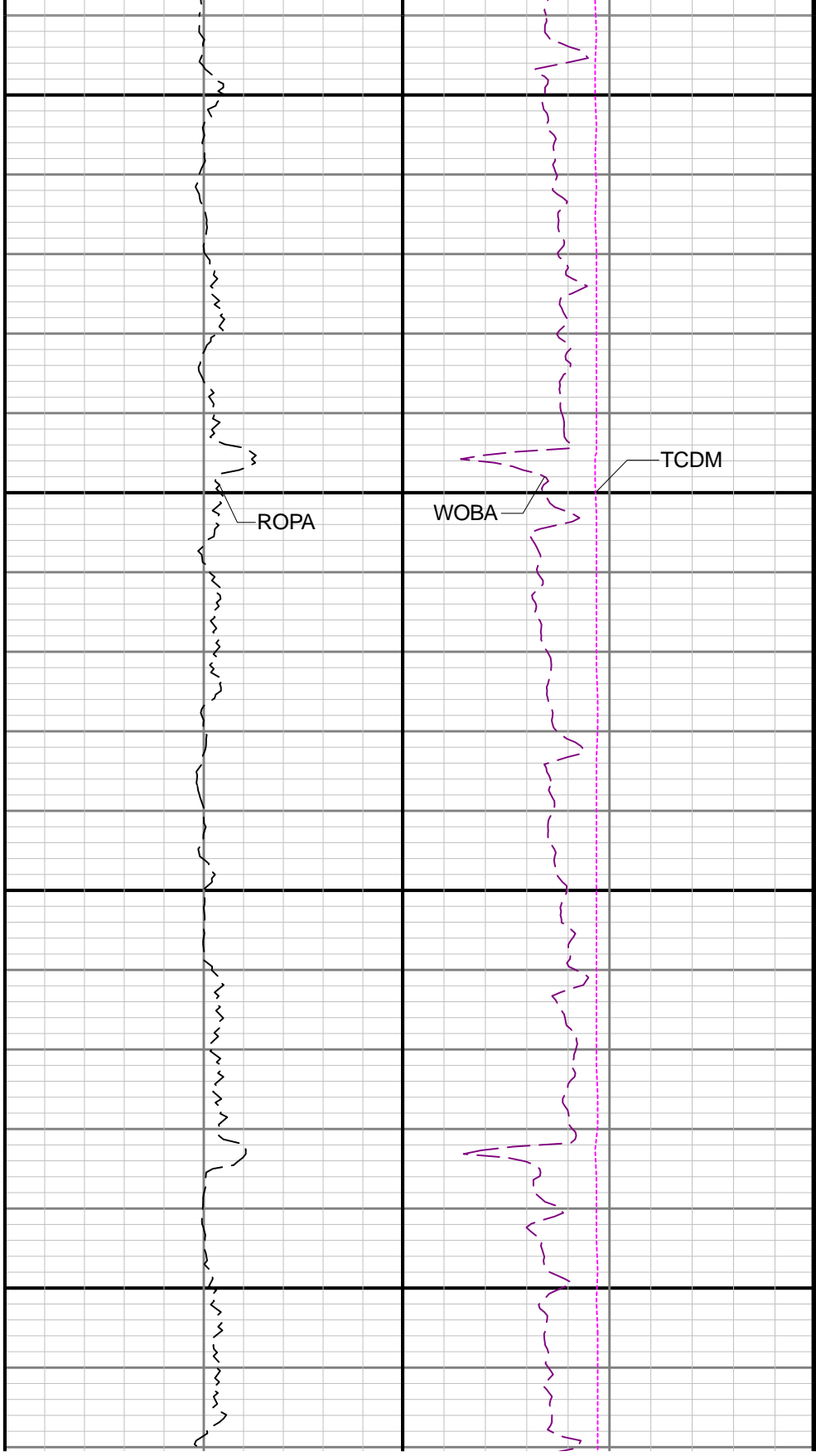


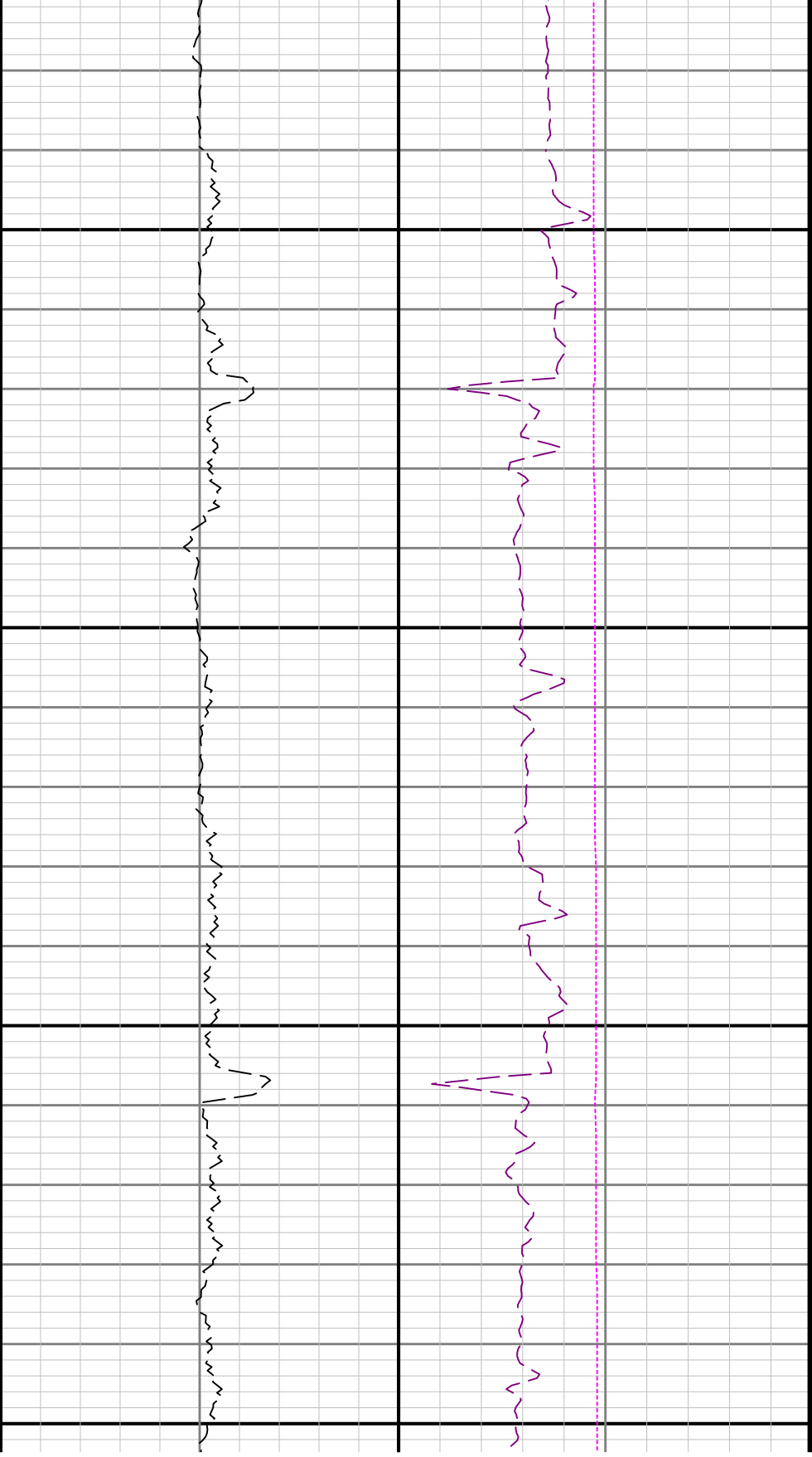




4000

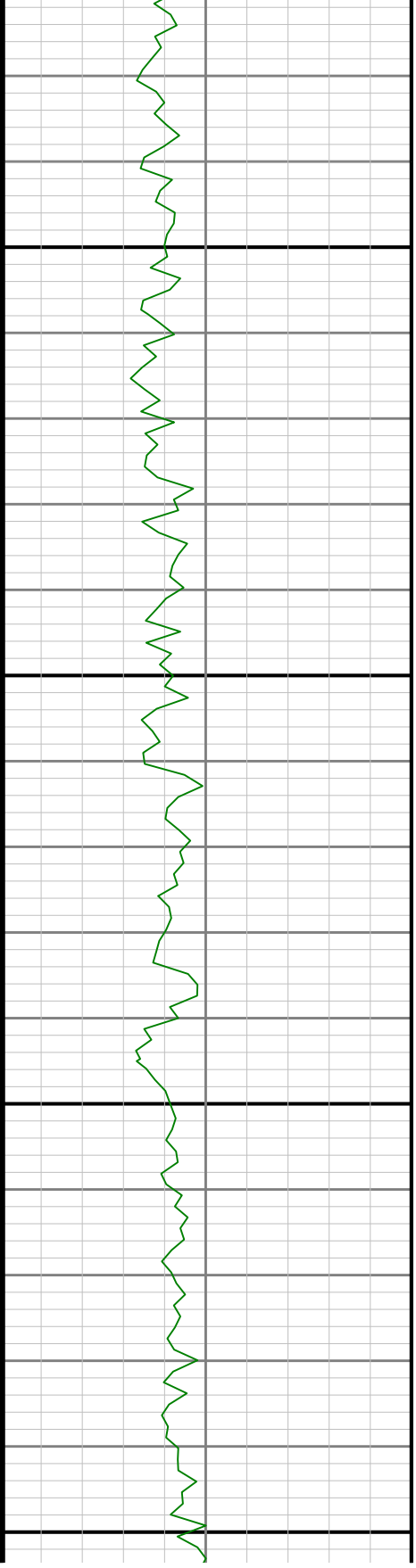
4100

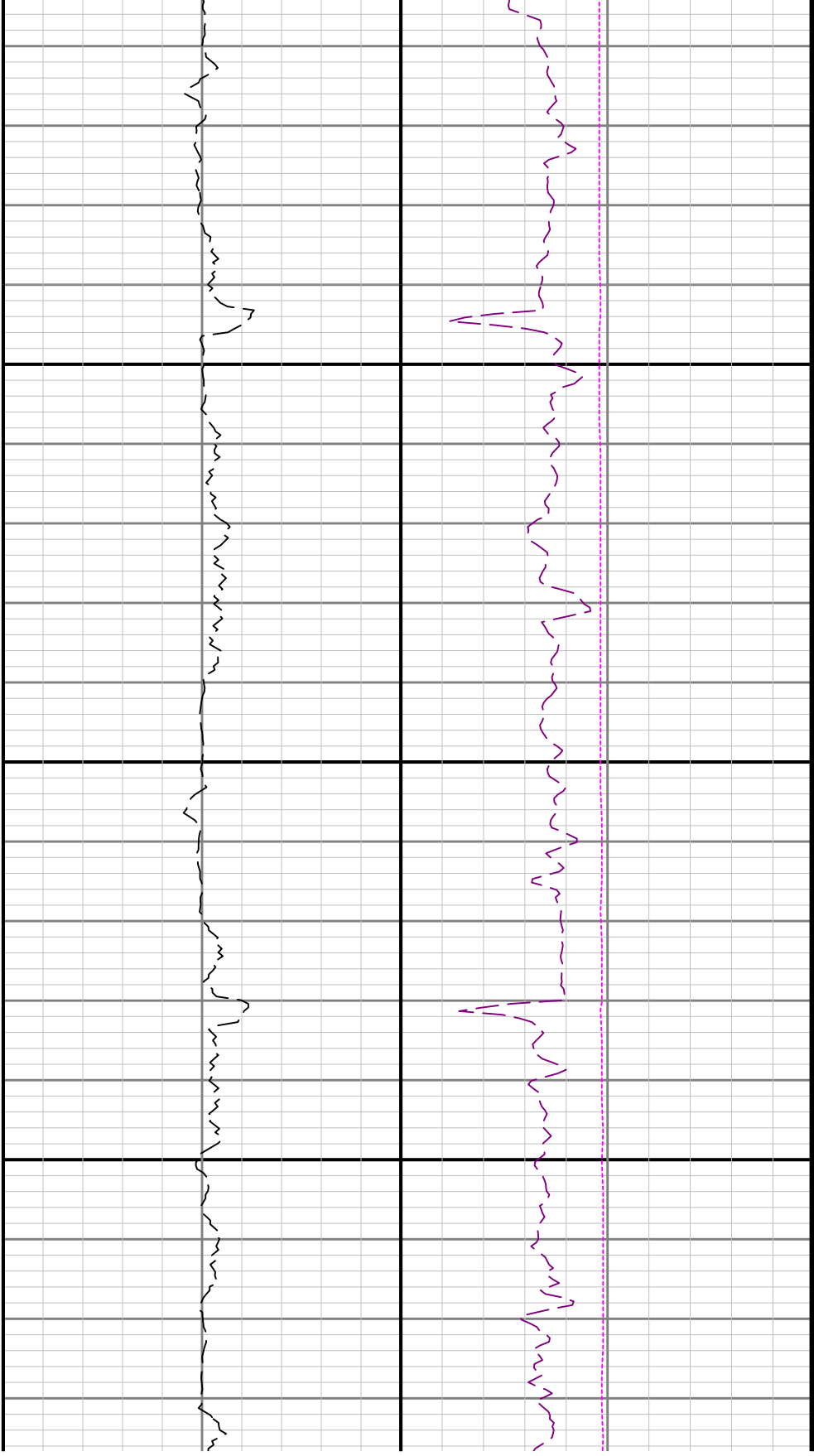




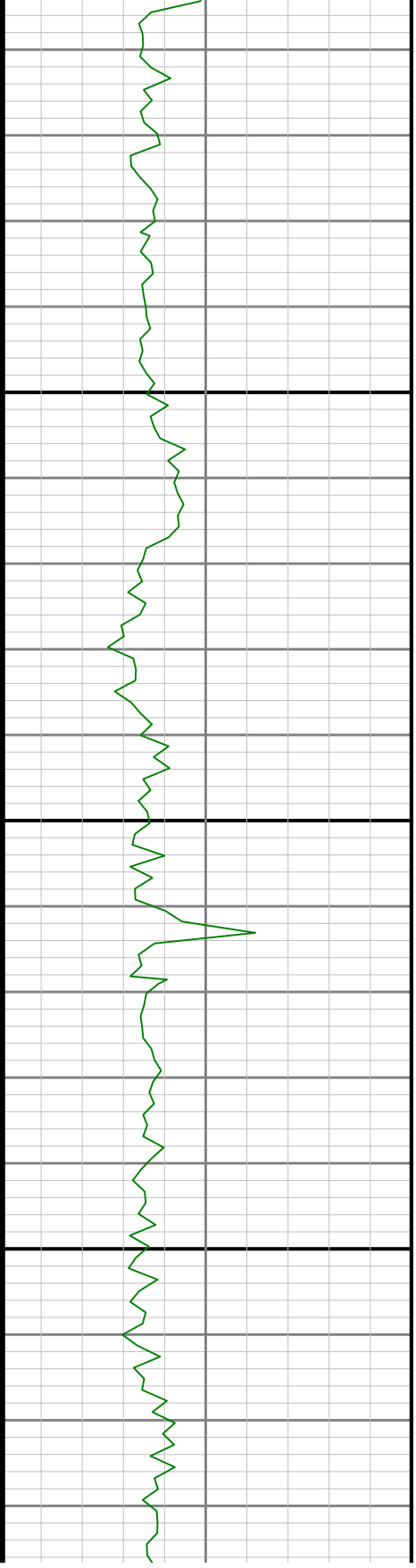
4200

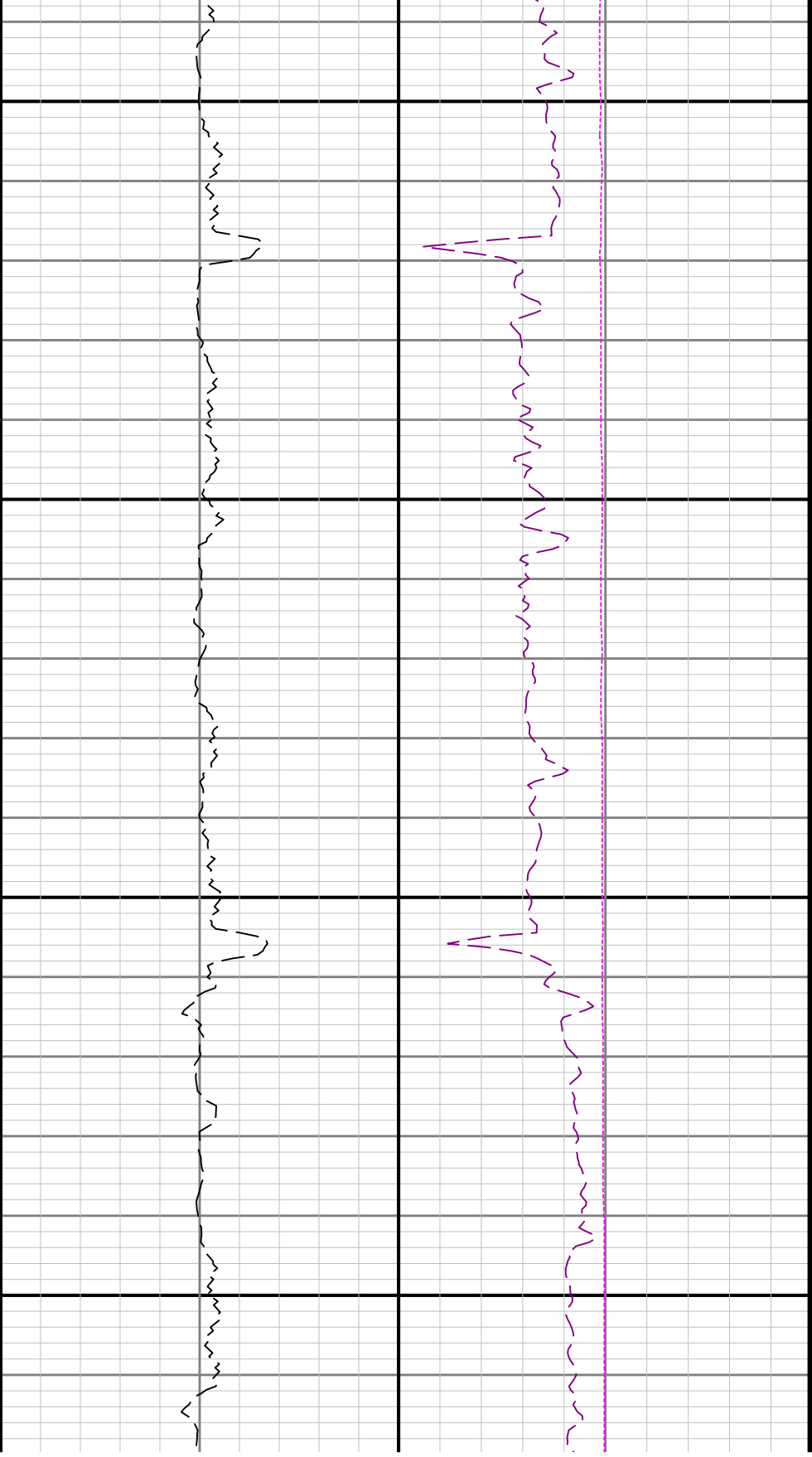
4300





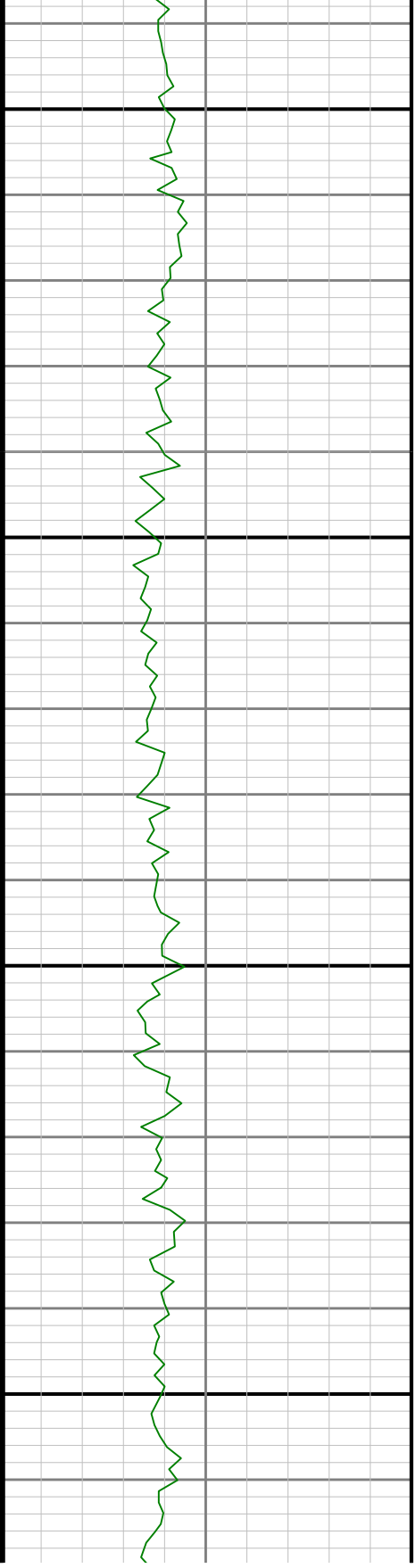
4400

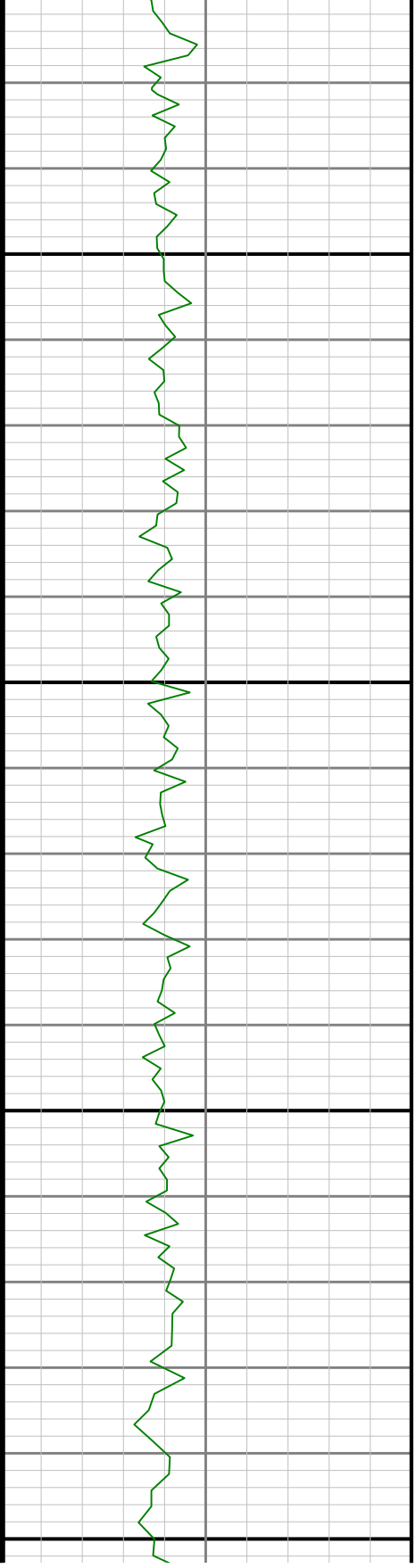
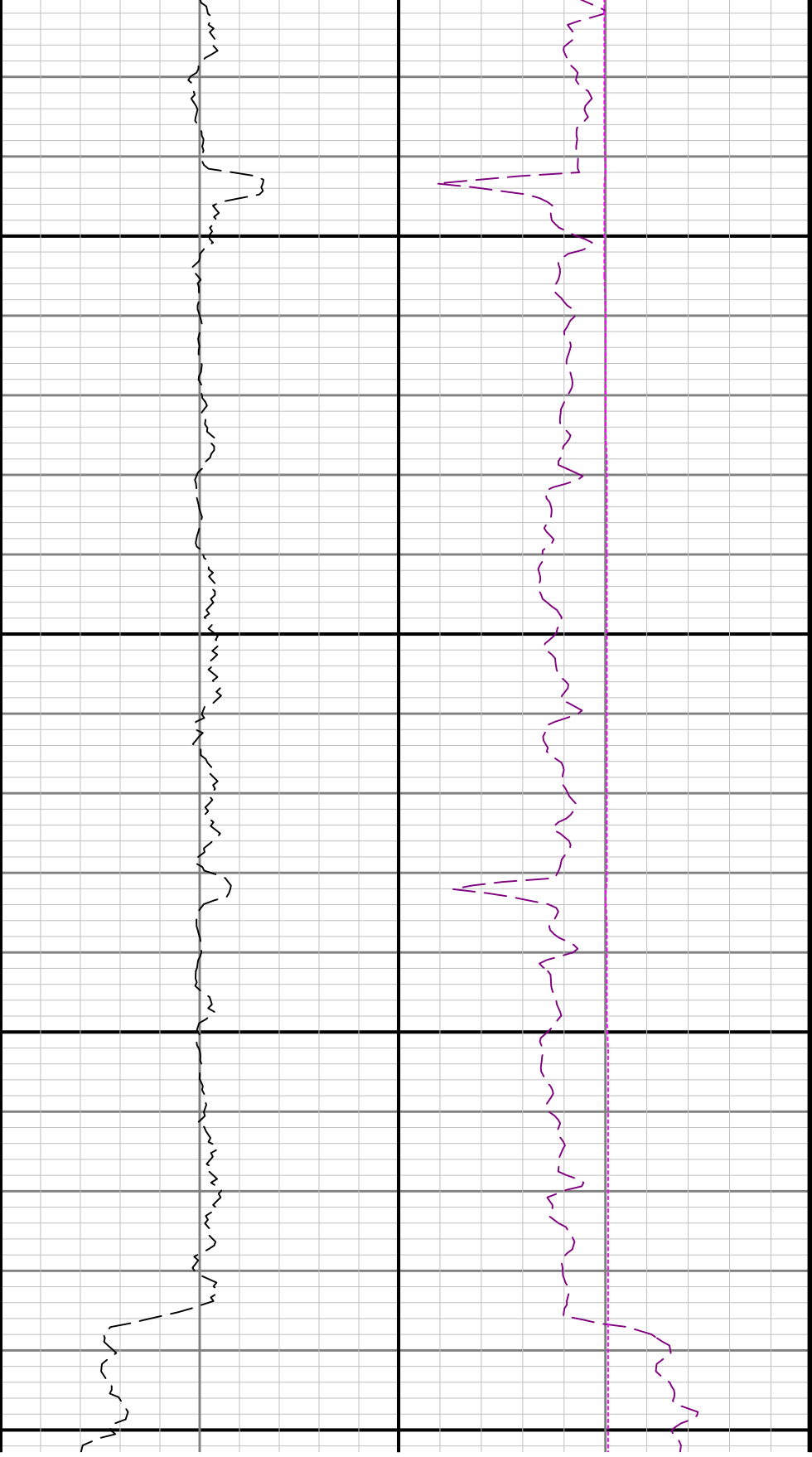


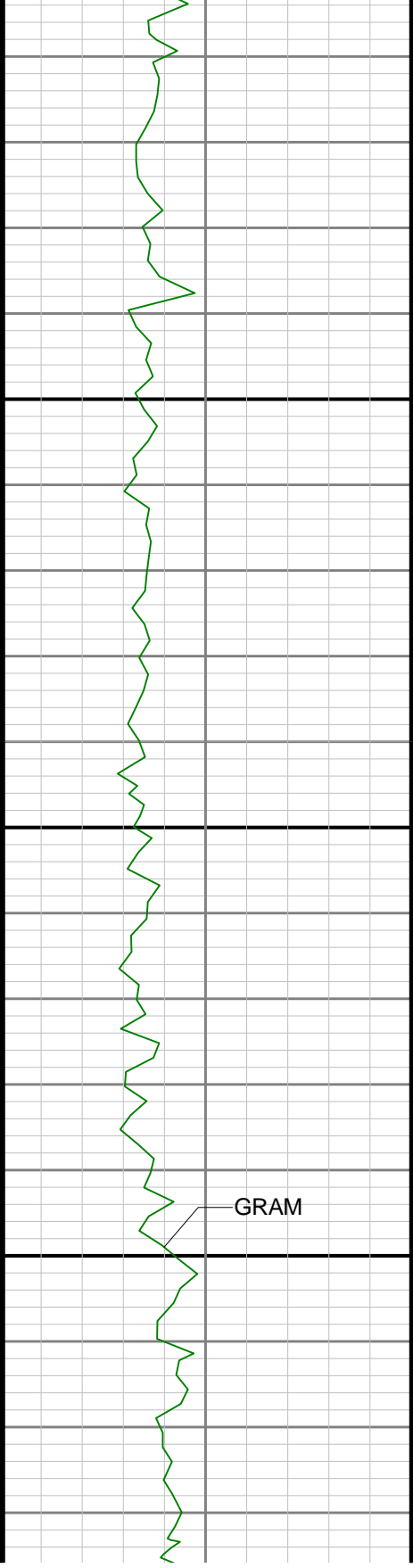


4500

4600

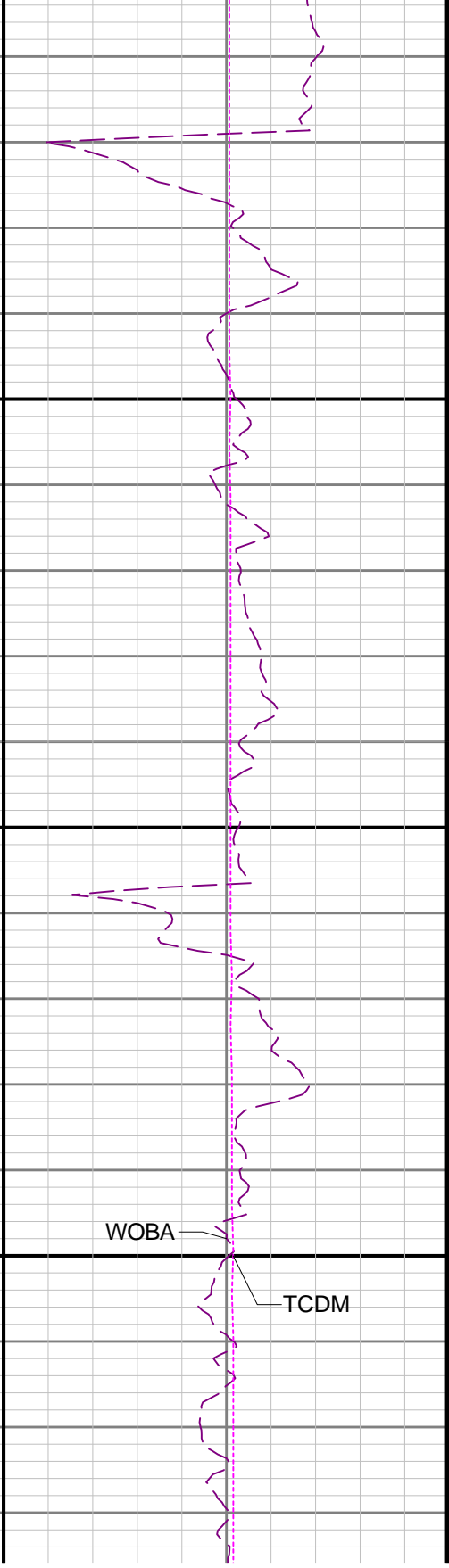
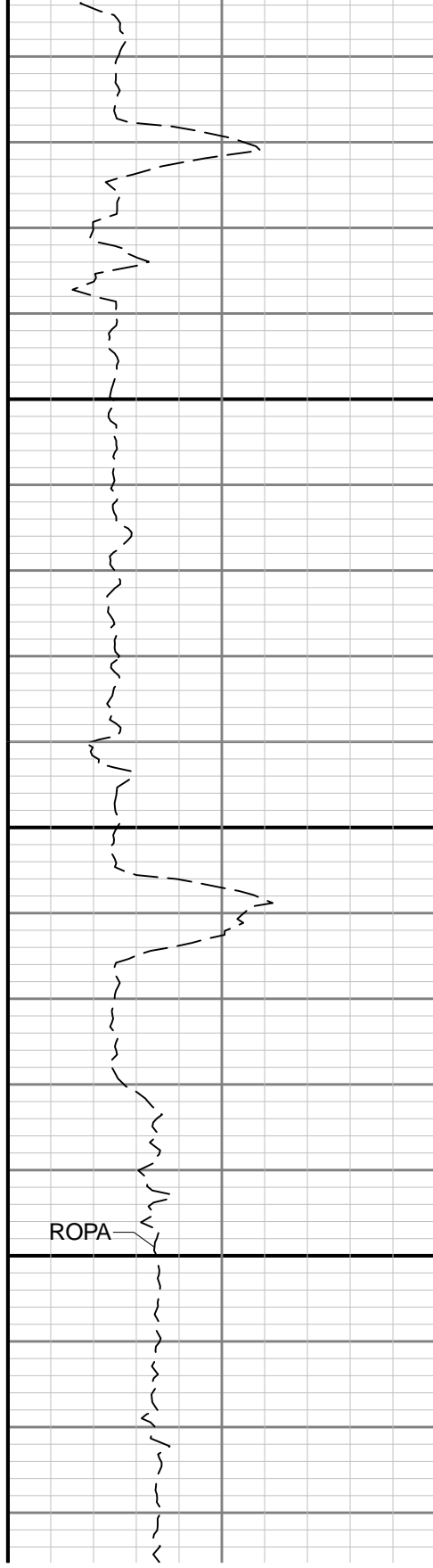


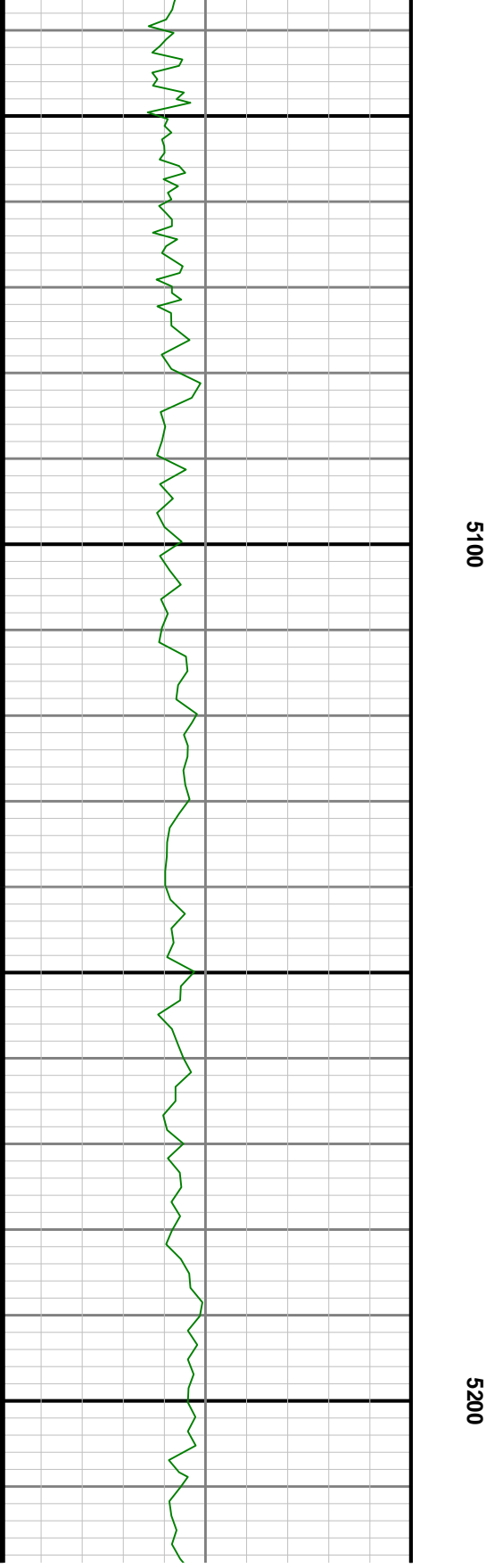
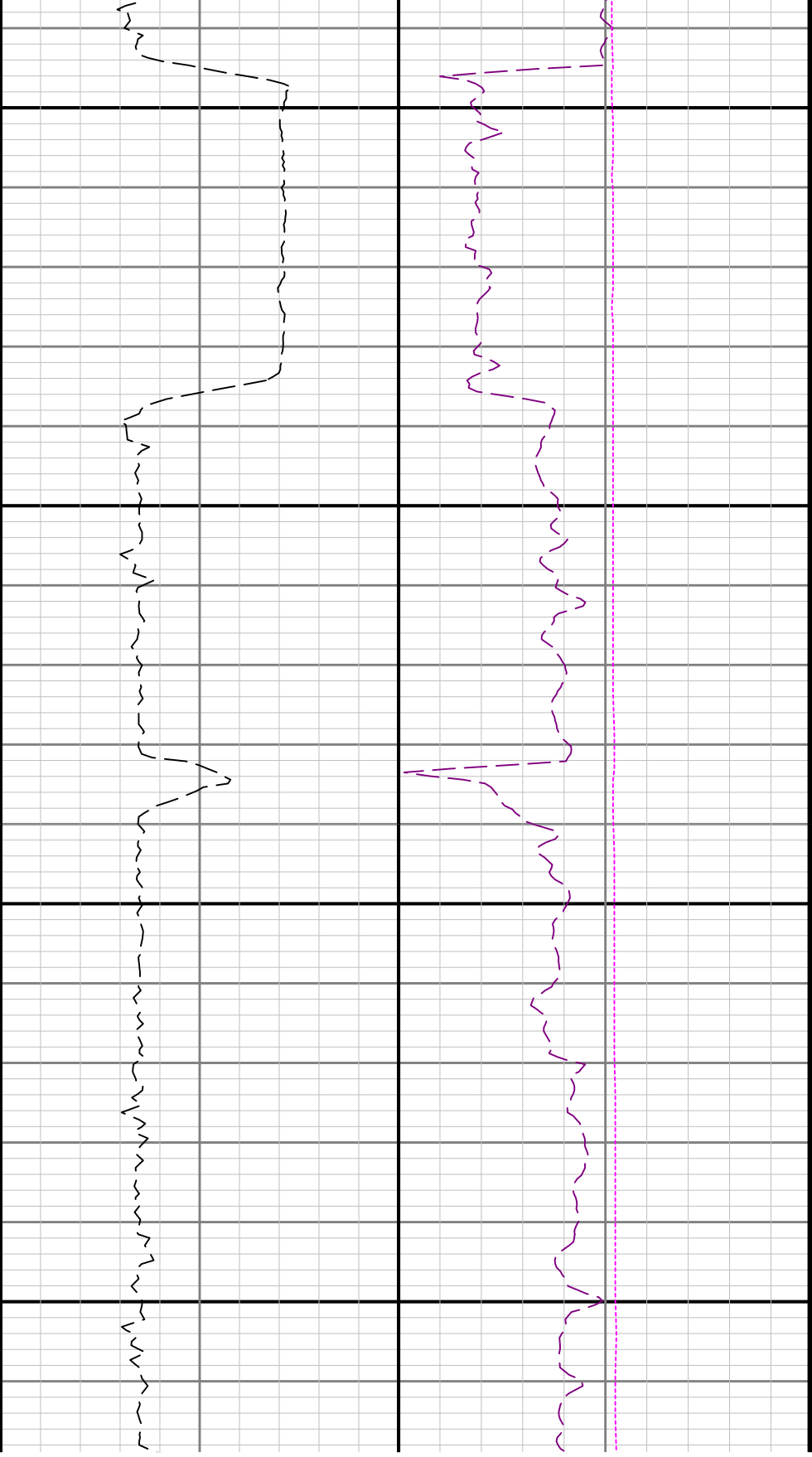


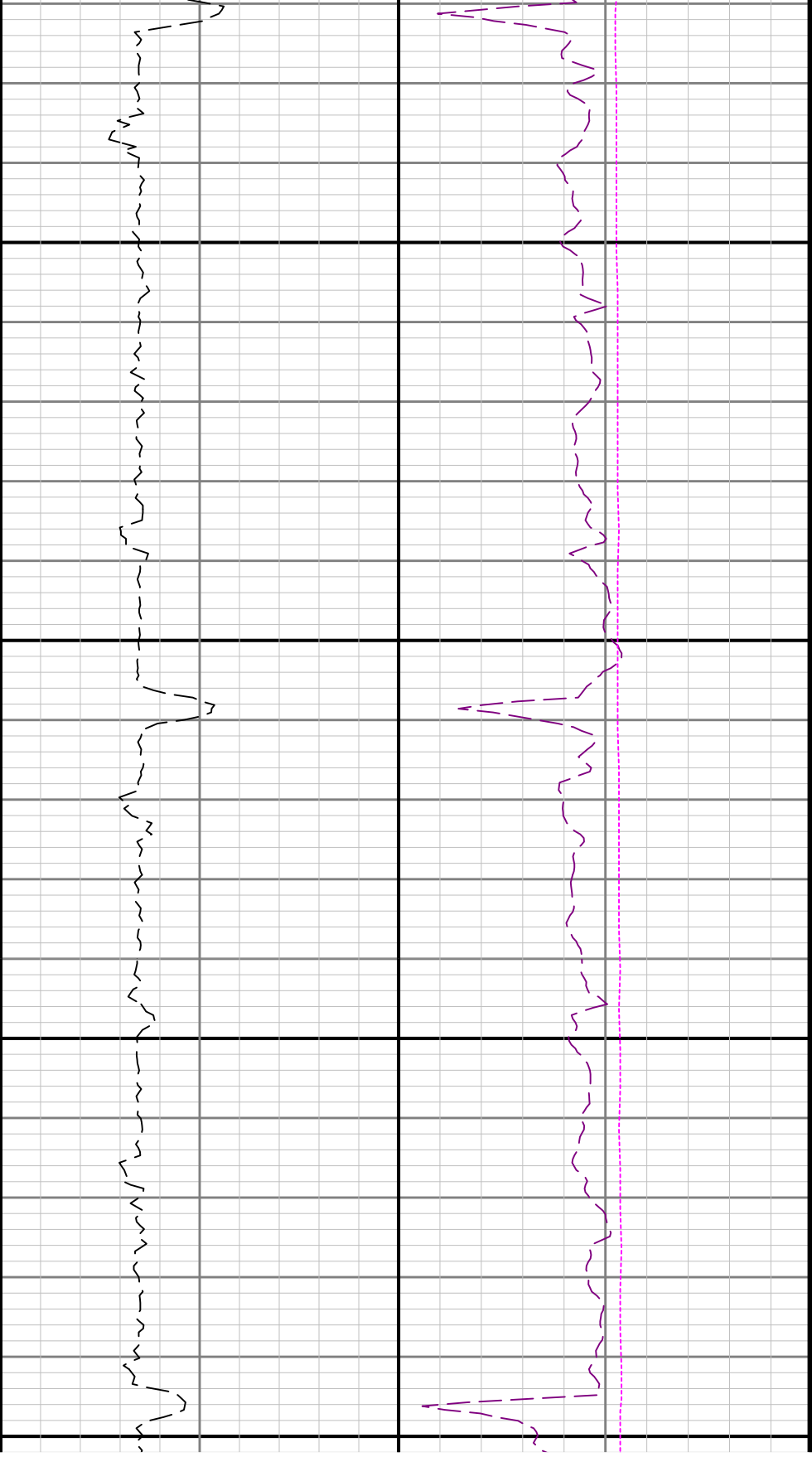


4900

5000

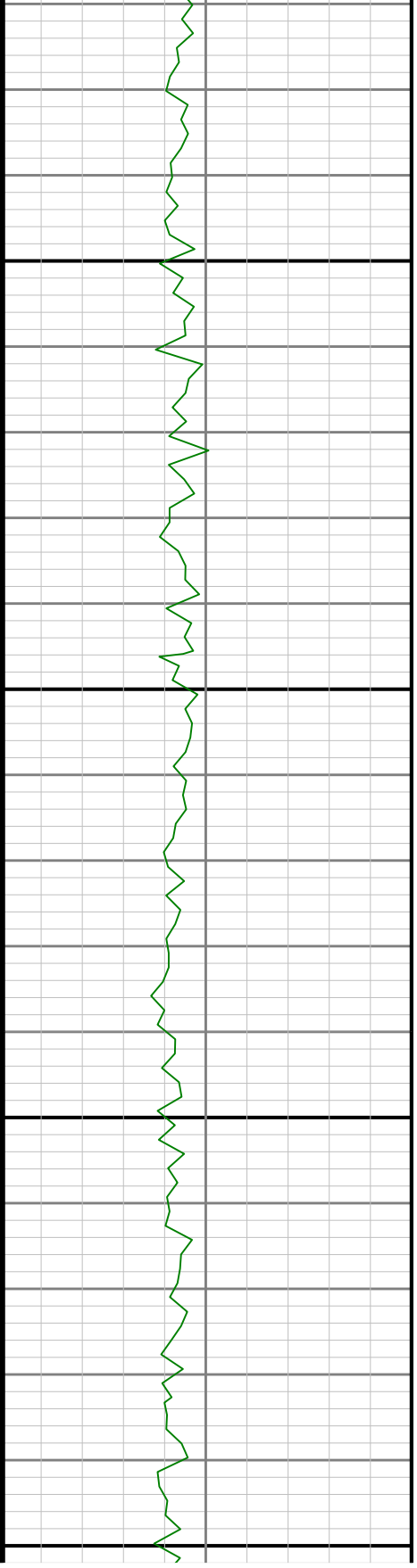


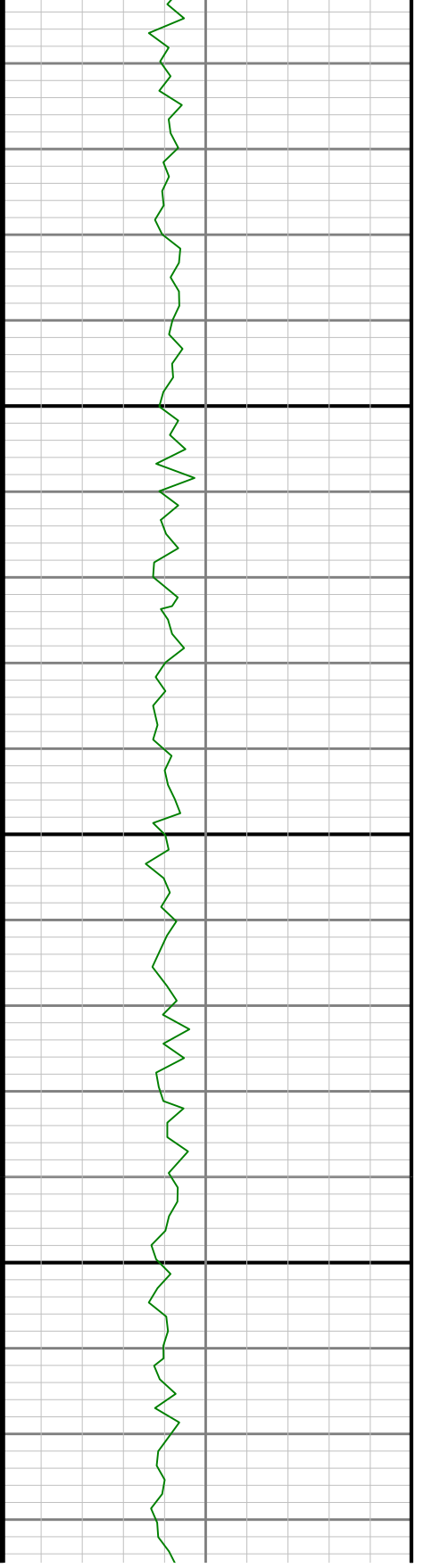
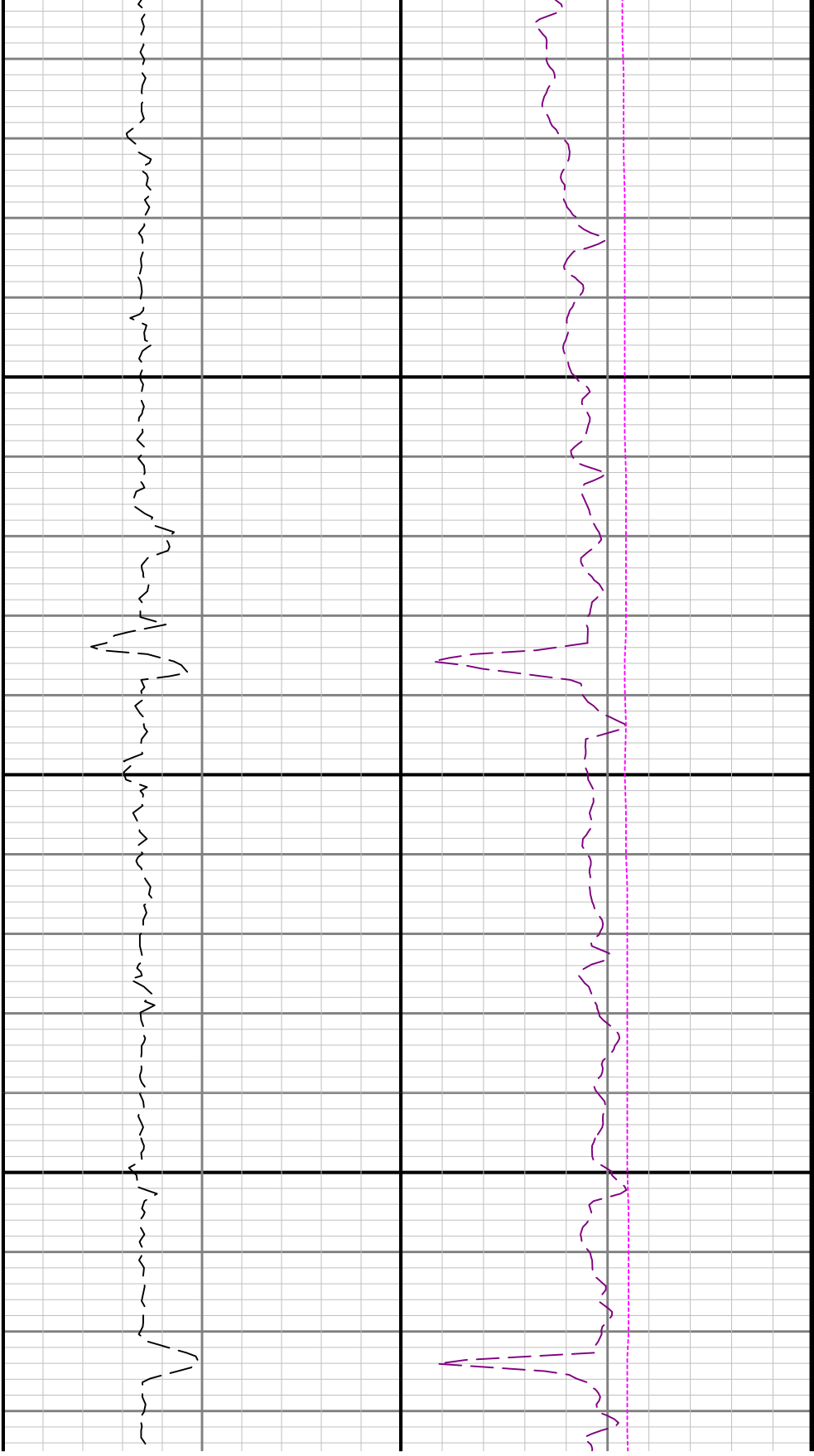




5300

5400

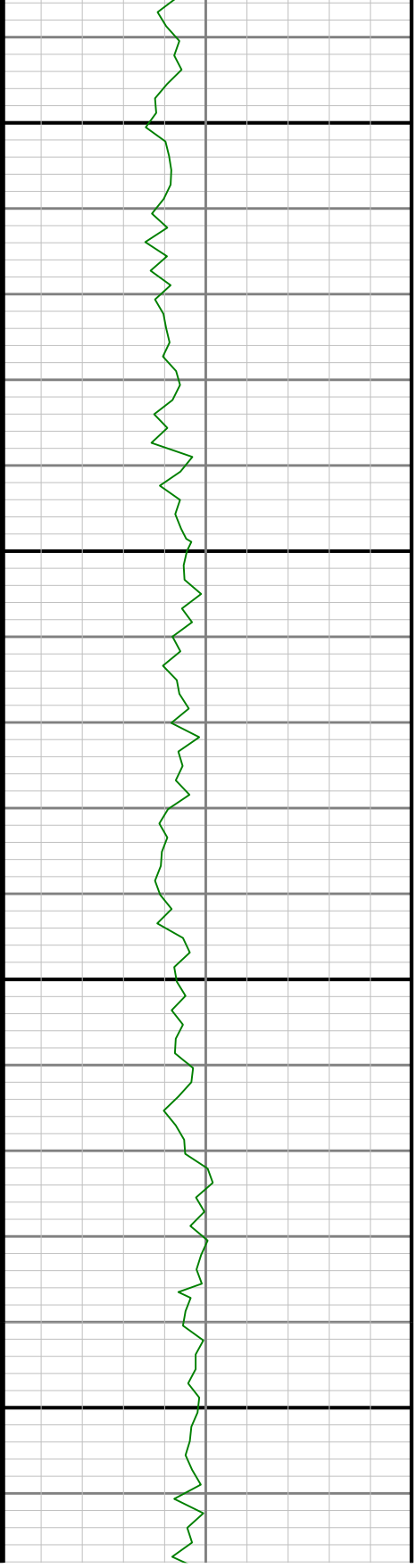


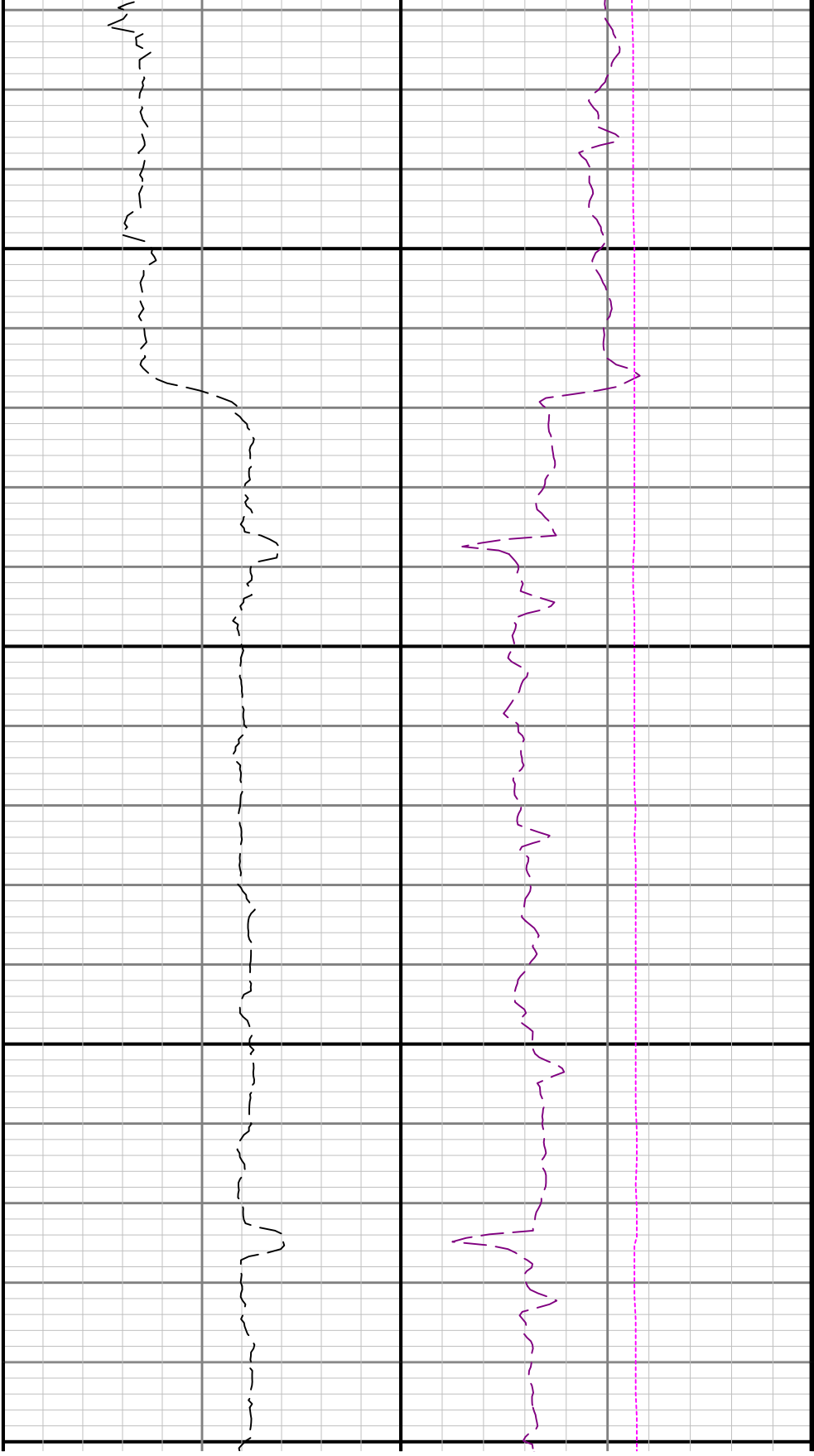


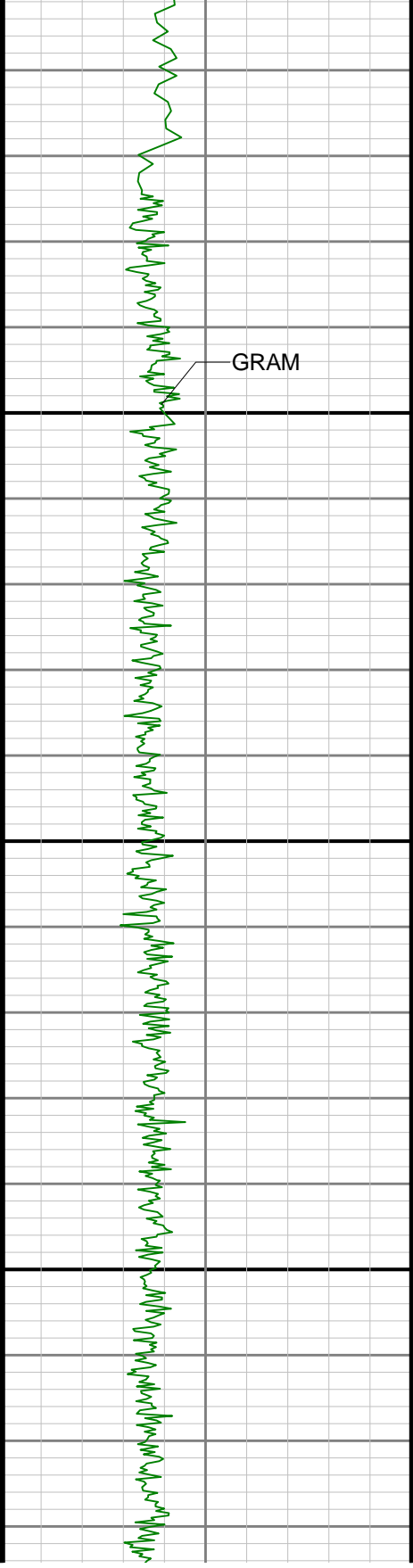


5600

5700

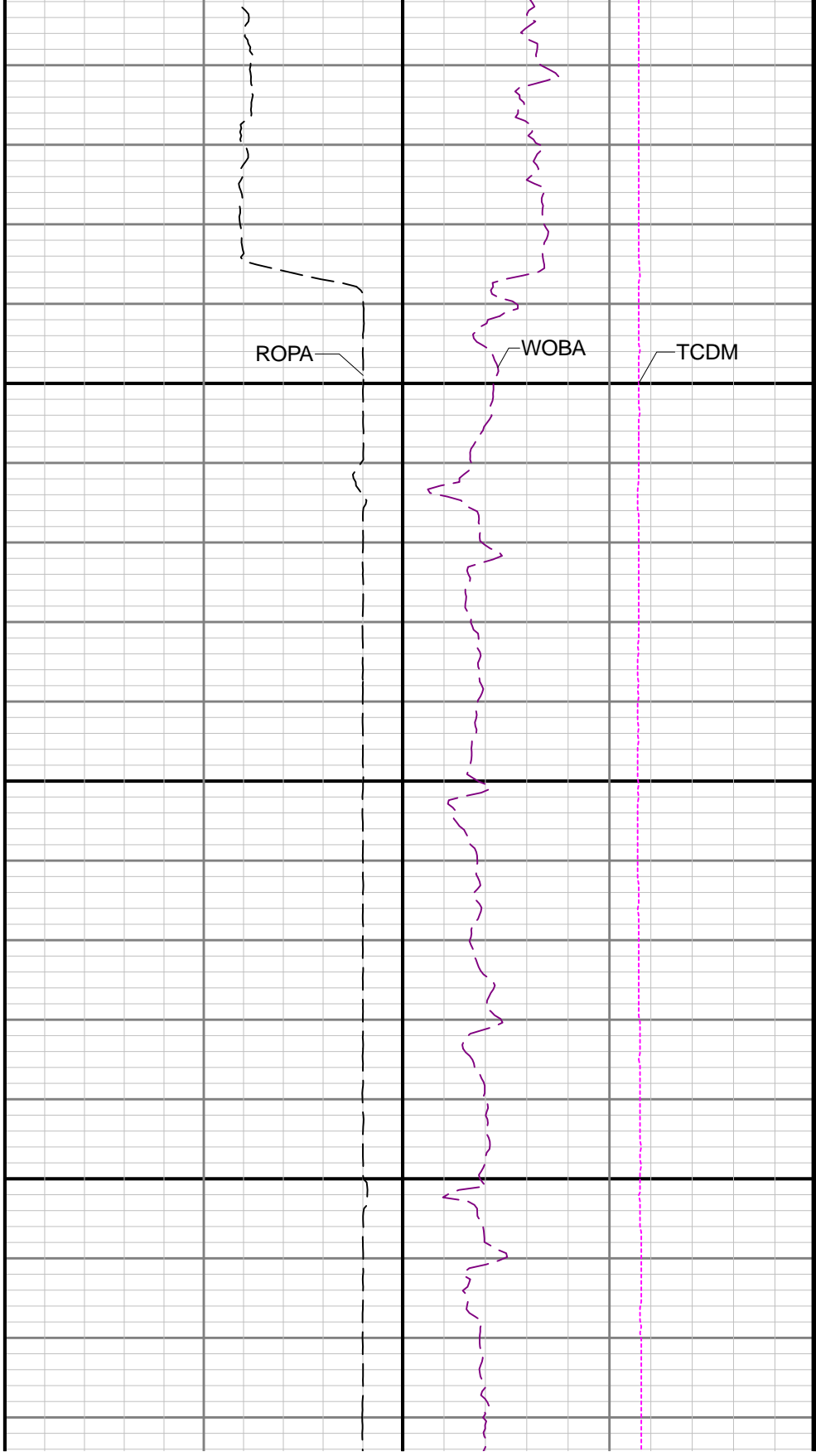


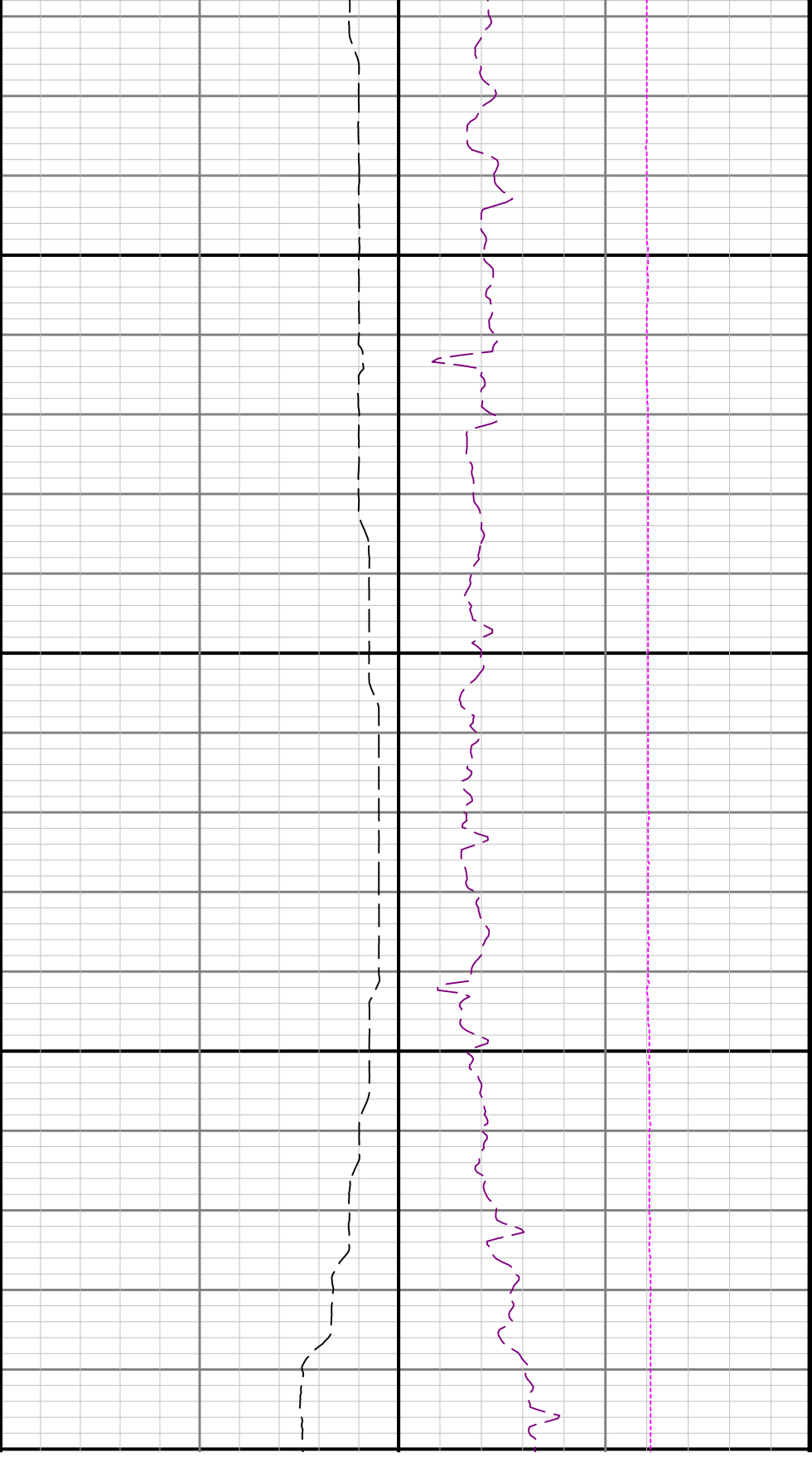




6000

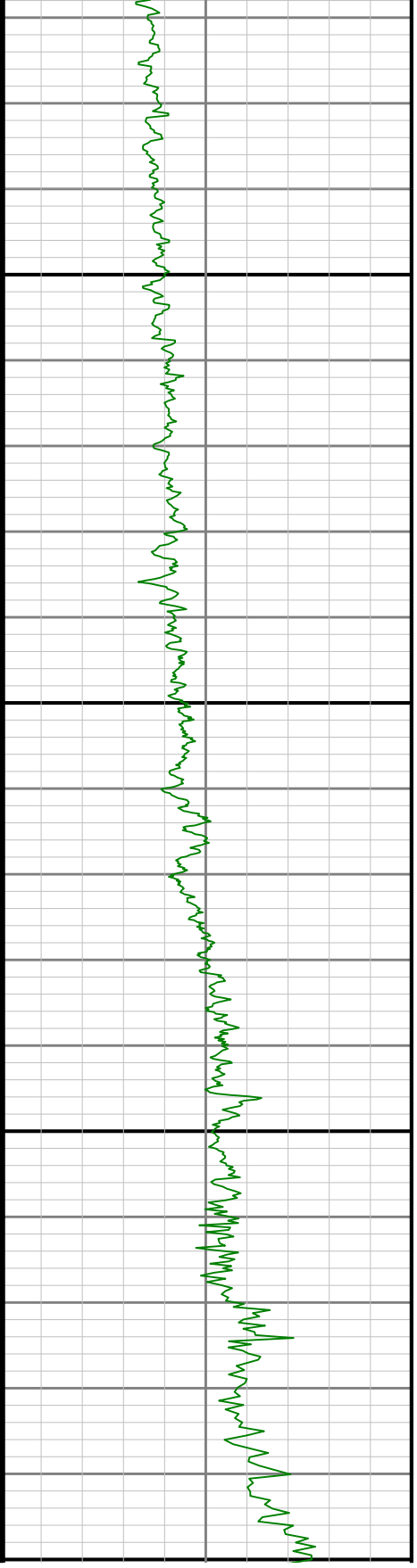
6100

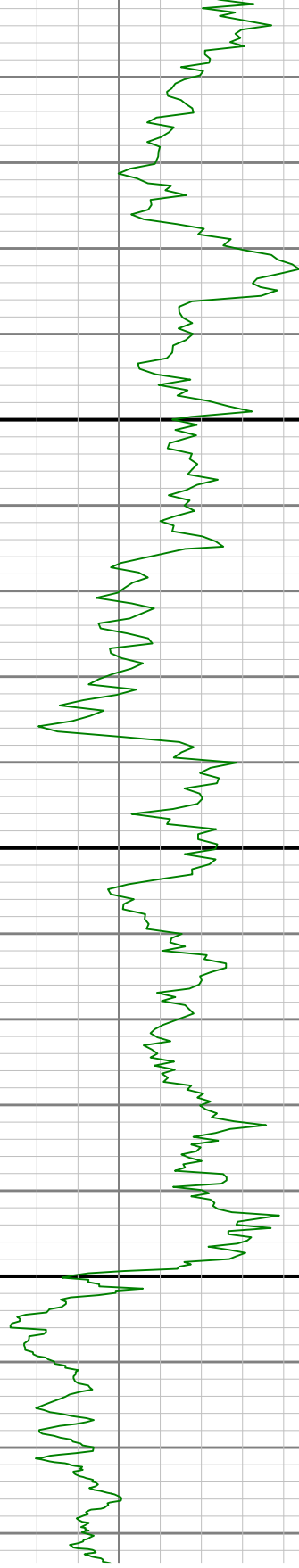




6400

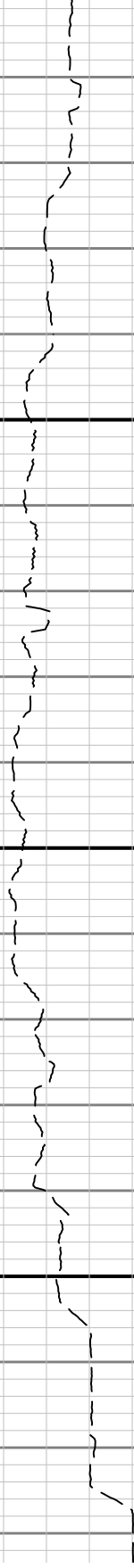
651





0099

0



	929.00	0.29	189.55	N/A	0.86	-1.52	928.99	-3733.01	0.66	94.00	0.60	0.00	162.02
	1024.00	0.08	145.78	N/A	0.57	-1.52	1023.99	-3638.01	0.37	95.00	0.25	-0.22	-46.07
	1119.00	0.32	228.41	N/A	0.34	-1.68	1118.99	-3543.01	0.12	95.00	0.34	0.25	86.98
	1213.00	0.37	207.53	N/A	-0.10	-2.02	1212.98	-3449.02	-0.37	94.00	0.14	0.05	-22.21
	1308.00	0.11	172.41	N/A	-0.47	-2.15	1307.98	-3354.02	-0.74	95.00	0.30	-0.27	-36.97
	1403.00	0.48	93.83	N/A	-0.58	-1.74	1402.98	-3259.02	-0.81	95.00	0.50	0.39	-82.72
	1497.00	0.32	240.60	N/A	-0.74	-1.58	1496.98	-3165.02	-0.94	94.00	0.82	-0.17	156.14
	1592.00	0.41	313.85	N/A	-0.63	-2.05	1591.98	-3070.02	-0.90	95.00	0.46	0.09	77.11
	1687.00	0.52	331.85	N/A	-0.02	-2.50	1686.98	-2975.02	-0.35	95.00	0.19	0.12	18.95
	1782.00	0.31	343.84	N/A	0.61	-2.78	1781.97	-2880.03	0.24	95.00	0.24	-0.22	12.62
	1876.00	0.41	271.32	N/A	0.86	-3.18	1875.97	-2786.03	0.43	94.00	0.46	0.11	-77.15
	1936.00	0.71	262.25	N/A	0.82	-3.77	1935.97	-2726.03	0.31	60.00	0.52	0.50	-15.12
	1987.00	0.78	218.58	109.5	0.50	-4.30	1986.97	-2675.03	-0.07	51.00	1.09	0.14	-85.63
	2082.00	3.08	123.24	114.9	-1.40	-2.57	2081.92	-2580.08	-1.73	95.00	3.42	2.42	-100.36
	2176.00	4.89	122.81	114.9	-4.96	2.91	2175.69	-2486.31	-4.53	94.00	1.93	1.93	-0.46
	2271.00	6.14	120.31	117.6	-9.72	10.70	2270.24	-2391.76	-8.22	95.00	1.34	1.32	-2.63
	2366.00	7.58	117.91	120.3	-15.21	20.63	2364.56	-2297.44	-12.36	95.00	1.55	1.52	-2.53
	2460.00	9.70	117.40	123.0	-21.76	33.14	2457.49	-2204.51	-17.20	94.00	2.26	2.26	-0.54
	2555.00	12.21	116.95	123.0	-30.00	49.20	2550.75	-2111.25	-23.24	95.00	2.64	2.64	-0.47
	2650.00	14.22	117.74	125.7	-39.98	68.49	2643.23	-2018.77	-30.60	95.00	2.12	2.12	0.83
	2744.00	17.58	117.54	125.7	-51.92	91.30	2733.62	-1928.38	-39.43	94.00	3.57	3.57	-0.21
	2839.00	19.12	117.33	125.7	-65.70	117.84	2823.79	-1838.21	-49.58	95.00	1.62	1.62	-0.22
	2934.00	19.51	122.56	128.4	-81.38	145.04	2913.45	-1748.55	-61.54	95.00	1.87	0.41	5.51
	3029.00	19.21	121.87	128.4	-98.17	171.68	3003.08	-1658.92	-74.67	95.00	0.40	-0.32	-0.73
	3124.00	18.86	123.73	128.4	-114.95	197.72	3092.88	-1569.12	-87.86	95.00	0.74	-0.37	1.96
	3218.00	19.14	122.57	131.1	-131.68	223.35	3181.76	-1480.24	-101.07	94.00	0.50	0.30	-1.23
	3313.00	18.80	124.14	131.1	-148.66	249.14	3271.60	-1390.40	-114.49	95.00	0.65	-0.36	1.65
	3407.00	18.78	122.81	131.1	-165.36	274.39	3360.59	-1301.41	-127.72	94.00	0.46	-0.02	-1.41
	3502.00	21.58	123.01	131.1	-183.16	301.90	3449.75	-1212.25	-141.74	95.00	2.95	2.95	0.21
	3596.00	22.26	123.23	131.1	-202.34	331.29	3536.96	-1125.04	-156.87	94.00	0.73	0.72	0.23
	3691.00	22.63	122.83	133.8	-222.11	361.70	3624.76	-1037.24	-172.46	95.00	0.42	0.39	-0.42
	3785.00	22.75	122.72	133.8	-241.74	392.19	3711.48	-950.52	-187.89	94.00	0.14	0.13	-0.12
	3880.00	22.78	124.53	136.5	-262.09	422.79	3799.09	-862.91	-204.03	95.00	0.74	0.03	1.91
	3974.00	22.69	124.61	139.2	-282.70	452.71	3885.78	-776.22	-220.52	94.00	0.10	-0.10	0.09
	4068.00	22.25	125.23	139.2	-303.27	482.17	3972.64	-689.36	-237.02	94.00	0.53	-0.47	0.66
	4163.00	22.46	124.61	141.9	-323.95	511.79	4060.51	-601.49	-253.61	95.00	0.33	0.22	-0.65
	4257.00	22.51	124.90	141.9	-344.44	541.33	4147.36	-514.64	-270.03	94.00	0.13	0.05	0.31
	4352.00	22.45	125.52	141.9	-365.39	571.01	4235.14	-426.86	-286.87	95.00	0.26	-0.06	0.65
	4447.00	22.59	125.26	144.6	-386.46	600.67	4322.90	-339.10	-303.85	95.00	0.18	0.15	-0.27
	4541.00	22.75	124.71	144.6	-407.23	630.35	4409.63	-252.37	-320.52	94.00	0.28	0.17	-0.59
	4638.00	22.19	124.96	144.6	-428.41	660.78	4499.27	-162.73	-337.50	97.00	0.59	-0.58	0.26
	4731.00	22.03	123.67	147.3	-448.14	689.69	4585.43	-76.57	-353.25	93.00	0.55	-0.17	-1.39
	4825.00	22.17	123.82	150.0	-467.79	719.10	4672.52	10.52	-368.84	94.00	0.16	0.15	0.16
	4920.00	20.50	125.06	150.0	-487.32	747.61	4761.01	99.01	-384.44	95.00	1.82	-1.76	1.31
	5014.00	21.83	124.14	152.7	-506.58	775.55	4848.67	186.67	-399.85	94.00	1.46	1.41	-0.98
	5108.00	21.54	124.59	152.7	-526.19	804.22	4936.02	274.02	-415.51	94.00	0.36	-0.31	0.48
	5203.00	20.88	124.63	155.4	-545.71	832.51	5024.58	362.58	-431.13	95.00	0.69	-0.69	0.04
	5297.00	21.78	123.85	155.4	-564.94	860.78	5112.14	450.14	-446.46	94.00	1.00	0.96	-0.83
	5392.00	21.78	127.84	158.1	-585.57	889.33	5200.36	538.36	-463.15	95.00	1.56	0.00	4.20
	5486.00	21.69	129.70	158.1	-607.37	916.47	5287.68	625.68	-481.17	94.00	0.74	-0.10	1.98
	5581.00	22.17	128.95	160.8	-629.85	943.92	5375.81	713.81	-499.83	95.00	0.58	0.51	-0.79
	5675.00	21.74	123.92	163.5	-650.72	972.16	5463.00	801.00	-516.79	94.00	2.05	-0.46	-5.35
	5770.00	21.61	125.67	163.5	-670.74	1000.97	5551.28	889.28	-532.84	95.00	0.69	-0.14	1.84
	5864.00	22.04	125.23	166.2	-691.00	1029.44	5638.55	976.55	-549.17	94.00	0.49	0.46	-0.47
	5959.00	21.31	125.59	168.9	-711.33	1058.04	5726.83	1064.83	-565.55	95.00	0.78	-0.77	0.38
	6054.00	20.72	127.64	168.9	-731.64	1085.38	5815.51	1153.51	-582.08	95.00	0.99	-0.62	2.16
	6149.00	21.98	124.18	168.9	-751.89	1113.40	5903.99	1241.99	-598.45	95.00	1.87	1.33	-3.64
	6243.00	22.27	122.31	168.9	-771.30	1143.01	5991.07	1329.07	-613.78	94.00	0.81	0.31	-1.99
	6338.00	21.13	104.38	171.6	-785.19	1174.84	6079.44	1417.44	-623.35	95.00	7.05	-1.20	-18.87
	6433.00	19.96	80.02	174.3	-786.63	1207.46	6168.55	1506.55	-620.48	95.00	9.02	-1.23	-25.64
	6527.00	22.64	54.79	179.7	-773.39	1238.11	6256.31	1594.31	-603.31	94.00	10.07	2.85	-26.84
	6622.00	28.47	42.93	179.7	-745.98	1269.26	6342.94	1680.94	-573.17	95.00	8.44	6.14	-32.49

	6022.00	26.47	42.02	179.7	-745.96	1266.26	6342.04	1660.04	-372.17	93.00	6.41	6.14	-13.44
	6716.00	35.36	30.76	179.7	-705.88	1297.23	6421.86	1759.86	-528.59	94.00	9.66	7.33	-11.98
	6811.00	44.43	22.45	182.5	-651.37	1324.06	6494.72	1832.72	-471.02	95.00	11.06	9.55	-8.75
	6906.00	51.57	16.24	185.2	-584.79	1347.21	6558.28	1896.28	-401.97	95.00	8.94	7.52	-6.54
	7000.00	56.89	12.52	187.9	-510.94	1366.06	6613.22	1951.22	-326.28	94.00	6.51	5.66	-3.96
	7095.00	63.96	9.89	187.9	-429.95	1382.03	6660.08	1998.08	-243.88	95.00	7.82	7.44	-2.77
	7189.00	73.26	6.69	187.9	-343.43	1394.56	6694.34	2032.34	-156.47	94.00	10.39	9.89	-3.40
	7284.00	81.47	3.74	190.6	-251.20	1402.94	6715.10	2053.10	-63.95	95.00	9.16	8.64	-3.11
	7378.00	89.54	2.41	193.3	-157.71	1407.96	6722.47	2060.47	29.40	94.00	8.70	8.59	-1.41
	7473.00	89.63	0.47	193.3	-62.74	1410.34	6723.15	2061.15	123.84	95.00	2.04	0.09	-2.04
	7568.00	89.51	0.07	196.0	32.25	1410.79	6723.87	2061.87	218.07	95.00	0.44	-0.13	-0.42
	7662.00	89.75	0.95	201.4	126.25	1411.63	6724.47	2062.47	311.35	94.00	0.97	0.26	0.94
	7757.00	89.38	0.60	201.4	221.23	1412.91	6725.19	2063.19	405.68	95.00	0.54	-0.39	-0.37
	7852.00	90.34	358.71	204.1	316.23	1412.34	6725.43	2063.43	499.77	95.00	2.23	1.01	-1.99
	7947.00	89.38	358.65	206.8	411.20	1410.15	6725.66	2063.66	593.62	95.00	1.01	-1.01	-0.06
	8041.00	89.35	358.94	204.1	505.17	1408.18	6726.70	2064.70	686.51	94.00	0.31	-0.03	0.31
	8136.00	89.69	358.74	201.4	600.15	1406.25	6727.50	2065.50	780.41	95.00	0.42	0.36	-0.21
	8230.00	90.37	1.40	206.8	694.14	1406.37	6727.45	2065.45	873.59	94.00	2.92	0.72	2.83
	8325.00	89.63	358.88	209.5	789.13	1406.60	6727.45	2065.45	967.78	95.00	2.76	-0.78	-2.65
	8420.00	89.14	359.11	212.2	884.11	1404.93	6728.47	2066.47	1061.71	95.00	0.57	-0.52	0.24
	8514.00	89.78	358.64	212.2	978.09	1403.09	6729.35	2067.35	1154.62	94.00	0.84	0.68	-0.50
	8609.00	89.57	358.91	214.9	1073.07	1401.06	6729.89	2067.89	1248.50	95.00	0.36	-0.22	0.28
	8704.00	89.63	358.42	214.9	1168.04	1398.84	6730.55	2068.55	1342.35	95.00	0.52	0.06	-0.52
	8799.00	89.32	359.56	214.9	1263.02	1397.17	6731.43	2069.43	1436.28	95.00	1.24	-0.33	1.20
	8893.00	89.66	358.38	217.6	1357.00	1395.48	6732.26	2070.26	1529.22	94.00	1.31	0.36	-1.26
	8988.00	89.51	358.97	217.6	1451.97	1393.28	6732.95	2070.95	1623.07	95.00	0.64	-0.16	0.62
	9083.00	89.29	358.77	220.3	1546.94	1391.41	6733.95	2071.95	1716.97	95.00	0.31	-0.23	-0.21
	9178.00	89.26	359.21	220.3	1641.92	1389.74	6735.15	2073.15	1810.89	95.00	0.46	-0.03	0.46
	9272.00	89.63	358.71	223.0	1735.90	1388.03	6736.06	2074.06	1903.83	94.00	0.66	0.39	-0.53
	9367.00	89.72	359.31	223.0	1830.89	1386.39	6736.60	2074.60	1997.77	95.00	0.64	0.09	0.63
	9461.00	89.75	358.90	223.0	1924.87	1384.92	6737.03	2075.03	2090.74	94.00	0.44	0.03	-0.44
	9556.00	89.20	358.60	225.7	2019.85	1382.85	6737.90	2075.90	2184.61	95.00	0.66	-0.58	-0.32
	9651.00	89.26	358.78	228.4	2114.81	1380.68	6739.18	2077.18	2278.46	95.00	0.20	0.06	0.19
	9745.00	89.51	358.64	228.4	2208.78	1378.56	6740.19	2078.19	2371.33	94.00	0.30	0.27	-0.15
	9840.00	90.15	359.48	228.4	2303.77	1377.00	6740.47	2078.47	2465.28	95.00	1.11	0.67	0.88
	9935.00	89.23	359.25	228.4	2398.76	1375.95	6740.98	2078.98	2559.30	95.00	1.00	-0.97	-0.24
	10029.00	89.75	359.17	231.1	2492.75	1374.65	6741.82	2079.82	2652.30	94.00	0.56	0.55	-0.09
	10124.00	90.77	356.58	231.1	2587.67	1371.13	6741.39	2079.39	2745.93	95.00	2.93	1.07	-2.73
	10219.00	89.91	358.09	233.8	2682.56	1366.71	6740.82	2078.82	2839.41	95.00	1.83	-0.91	1.59
	10313.00	90.89	356.97	233.8	2776.47	1362.66	6740.17	2078.17	2931.96	94.00	1.58	1.04	-1.19
	10408.00	89.97	357.94	236.5	2871.37	1358.45	6739.46	2077.46	3025.47	95.00	1.41	-0.97	1.02
	10502.00	90.22	358.74	236.5	2965.33	1355.72	6739.30	2077.30	3118.25	94.00	0.89	0.27	0.85
	10597.00	90.68	358.84	236.5	3060.31	1353.72	6738.55	2076.55	3212.13	95.00	0.50	0.48	0.11
	10691.00	89.82	358.25	236.5	3154.27	1351.33	6738.14	2076.14	3304.97	94.00	1.11	-0.91	-0.63
	10786.00	89.82	358.81	239.2	3249.24	1348.89	6738.44	2076.44	3398.78	95.00	0.59	-0.00	0.59
	10881.00	89.48	359.15	239.2	3344.23	1347.20	6739.02	2077.02	3492.71	95.00	0.51	-0.36	0.36
	10975.00	89.69	359.79	236.5	3438.22	1346.33	6739.70	2077.70	3585.77	94.00	0.72	0.22	0.68
	11070.00	89.42	359.65	239.2	3533.21	1345.87	6740.44	2078.44	3679.87	95.00	0.32	-0.28	-0.15
	11164.00	90.40	359.64	239.2	3627.21	1345.29	6740.59	2078.59	3772.97	94.00	1.04	1.04	-0.01
	11259.00	90.15	359.58	241.9	3722.21	1344.64	6740.13	2078.13	3867.05	95.00	0.27	-0.26	-0.06
	11353.00	89.60	358.89	239.2	3816.20	1343.38	6740.34	2078.34	3960.06	94.00	0.94	-0.59	-0.73
	11448.00	90.80	359.23	241.9	3911.18	1341.82	6740.01	2078.01	4054.01	95.00	1.31	1.26	0.36
	11543.00	90.40	0.55	241.9	4006.18	1341.64	6739.01	2077.01	4148.14	95.00	1.45	-0.42	1.39
	11637.00	89.82	359.31	244.6	4100.17	1341.53	6738.83	2076.83	4241.31	94.00	1.46	-0.62	-1.32
	11732.00	90.58	358.52	247.3	4195.15	1339.73	6738.50	2076.50	4335.22	95.00	1.15	0.80	-0.83
	11826.00	89.85	359.33	247.3	4289.14	1337.97	6738.15	2076.15	4428.15	94.00	1.16	-0.78	0.86
	11921.00	90.37	357.89	247.3	4384.10	1335.66	6737.96	2075.96	4521.98	95.00	1.61	0.55	-1.52
	12016.00	89.45	358.84	247.3	4479.06	1332.95	6738.11	2076.11	4615.75	95.00	1.39	-0.97	1.00
	12110.00	88.86	359.36	250.0	4573.04	1331.47	6739.50	2077.50	4708.72	94.00	0.84	-0.63	0.55
	12299.00	89.94	359.33	250.0	4762.02	1329.31	6741.48	2079.48	4895.75	189.00	0.57	0.57	-0.02
	12394.00	89.85	358.51	250.0	4857.00	1327.52	6741.65	2079.65	4989.67	95.00	0.87	-0.09	-0.86
	12489.00	89.34	359.39	252.7	4951.98	1325.74	6741.59	2079.59	5083.58	95.00	0.98	0.52	0.88

	12489.00	90.34	359.30	252.7	4991.96	1325.71	6741.30	2079.30	5063.36	93.00	0.96	0.52	0.63
	12583.00	90.12	358.32	252.7	5045.96	1323.76	6741.12	2079.12	5176.48	94.00	1.07	-0.23	-1.04
	12678.00	90.28	358.90	252.7	5140.93	1321.45	6740.79	2078.79	5270.32	95.00	0.63	0.17	0.61
	12772.00	89.94	358.71	252.7	5234.91	1319.49	6740.61	2078.61	5363.22	94.00	0.41	-0.36	-0.20
	12867.00	90.43	358.67	255.4	5329.88	1317.32	6740.30	2078.30	5457.08	95.00	0.52	0.52	-0.04
	12962.00	90.22	358.82	250.0	5424.86	1315.24	6739.76	2077.76	5550.95	95.00	0.27	-0.22	0.16
	13056.00	90.28	359.12	252.7	5518.84	1313.55	6739.35	2077.35	5643.89	94.00	0.33	0.06	0.32
	13151.00	90.52	359.12	247.3	5613.83	1312.09	6738.69	2076.69	5737.85	95.00	0.25	0.25	0.00
	13252.00	90.34	358.59	239.2	5714.80	1310.07	6737.93	2075.93	5837.68	101.00	0.55	-0.18	-0.52
	13347.00	90.55	4.12	241.9	5809.74	1312.32	6737.19	2075.19	5932.08	95.00	5.83	0.22	5.82
	13442.00	90.03	0.27	244.6	5904.65	1315.95	6736.71	2074.71	6026.64	95.00	4.09	-0.55	-4.05
	13536.00	89.91	0.35	244.6	5998.65	1316.46	6736.76	2074.76	6119.88	94.00	0.15	-0.13	0.09
	13631.00	90.00	359.85	247.3	6093.65	1316.63	6736.83	2074.83	6214.08	95.00	0.53	0.09	-0.53
	13725.00	89.85	359.57	247.3	6187.65	1316.15	6736.96	2074.96	6307.19	94.00	0.34	-0.16	-0.30
	13820.00	89.85	359.56	250.0	6282.64	1315.43	6737.21	2075.21	6401.26	95.00	0.01	-0.00	-0.01
	13915.00	89.97	0.50	250.0	6377.64	1315.48	6737.35	2075.35	6495.44	95.00	1.00	0.13	0.99
	14010.00	89.85	359.01	250.0	6472.64	1315.08	6737.50	2075.50	6589.55	95.00	1.57	-0.13	-1.57
	14104.00	89.78	359.46	252.7	6566.63	1313.82	6737.81	2075.81	6682.55	94.00	0.48	-0.07	0.48
	14199.00	89.72	359.20	252.7	6661.62	1312.71	6738.22	2076.22	6776.57	95.00	0.28	-0.06	-0.27
	14293.00	89.78	359.91	252.7	6755.62	1311.98	6738.63	2076.63	6869.65	94.00	0.76	0.06	0.76
	14388.00	90.28	0.22	255.4	6850.62	1312.09	6738.58	2076.58	6963.83	95.00	0.62	0.53	0.33
	14483.00	90.00	1.58	255.4	6945.60	1313.58	6738.35	2076.35	7058.18	95.00	1.46	-0.29	1.43
	14578.00	89.66	0.23	255.4	7040.59	1315.08	6738.63	2076.63	7152.54	95.00	1.47	-0.36	-1.42
	14672.00	89.78	0.39	255.4	7134.58	1315.59	6739.09	2077.09	7245.78	94.00	0.21	0.13	0.17
	14767.00	89.91	0.89	255.4	7229.58	1316.65	6739.35	2077.35	7340.08	95.00	0.54	0.14	0.53
	14862.00	89.66	0.18	258.1	7324.57	1317.54	6739.70	2077.70	7434.36	95.00	0.79	-0.26	-0.75
	14956.00	89.94	0.86	258.1	7418.57	1318.39	6740.03	2078.03	7527.65	94.00	0.78	0.30	0.72
	15051.00	89.97	1.20	260.8	7513.55	1320.10	6740.11	2078.11	7622.03	95.00	0.36	0.03	0.36
	15145.00	89.88	1.23	260.8	7607.53	1322.09	6740.23	2078.23	7715.45	94.00	0.10	-0.10	0.03
	15240.00	90.03	359.29	252.7	7702.52	1322.52	6740.31	2078.31	7809.67	95.00	2.05	0.16	-2.04
	15335.00	89.85	359.38	258.1	7797.52	1321.42	6740.40	2078.40	7903.69	95.00	0.21	-0.19	0.09
	15429.00	89.88	359.22	258.1	7891.51	1320.27	6740.63	2078.63	7996.71	94.00	0.17	0.03	-0.17
	15524.00	89.94	359.54	258.1	7986.51	1319.24	6740.78	2078.78	8090.74	95.00	0.34	0.06	0.34
	15619.00	89.69	359.33	260.8	8081.50	1318.31	6741.08	2079.08	8184.78	95.00	0.34	-0.26	-0.22
	15713.00	89.88	359.59	260.8	8175.50	1317.42	6741.43	2079.43	8277.84	94.00	0.34	0.20	0.28
	15808.00	91.02	359.77	263.5	8270.49	1316.89	6740.69	2078.69	8371.93	95.00	1.21	1.20	0.19
	15903.00	90.31	359.82	263.5	8365.48	1316.55	6739.59	2077.59	8466.05	95.00	0.75	-0.75	0.05
	15997.00	90.62	0.20	255.4	8459.48	1316.57	6738.82	2076.82	8559.22	94.00	0.52	0.33	0.40
	16092.00	89.82	357.94	258.1	8554.46	1315.02	6738.46	2076.46	8653.17	95.00	2.52	-0.84	-2.38
	16186.00	90.68	358.72	260.8	8648.42	1312.28	6738.05	2076.05	8745.95	94.00	1.24	0.91	0.83
	16281.00	90.12	358.65	260.8	8743.39	1310.10	6737.38	2075.38	8839.80	95.00	0.59	-0.59	-0.07
	16375.00	90.55	358.71	263.5	8837.36	1307.94	6736.84	2074.84	8932.67	94.00	0.46	0.46	0.06
	16470.00	90.37	359.00	263.5	8932.34	1306.04	6736.07	2074.07	9026.57	95.00	0.36	-0.19	0.31
	16564.00	90.40	358.75	263.5	9026.32	1304.20	6735.44	2073.44	9119.48	94.00	0.27	0.03	-0.27
	16659.00	90.49	359.02	266.2	9121.30	1302.35	6734.70	2072.70	9213.39	95.00	0.30	0.09	0.28
	16754.00	90.31	358.83	266.2	9216.28	1300.56	6734.04	2072.04	9307.30	95.00	0.28	-0.19	-0.20
	16848.00	90.40	358.73	266.2	9310.26	1298.56	6733.46	2071.46	9400.19	94.00	0.14	0.10	-0.11
	16943.00	90.43	359.43	266.2	9405.24	1297.04	6732.77	2070.77	9494.15	95.00	0.74	0.03	0.74
	17037.00	90.62	359.83	269.0	9499.23	1296.43	6731.91	2069.91	9587.24	94.00	0.47	0.20	0.43
	17132.00	89.88	359.80	269.0	9594.23	1296.12	6731.49	2069.49	9681.37	95.00	0.78	-0.78	-0.03
	17226.00	89.91	0.06	269.0	9688.23	1296.01	6731.67	2069.67	9774.53	94.00	0.28	0.03	0.28
Projection	17277.00	89.91	0.06	N/A	9739.23	1296.06	6731.75	2069.75	9825.09	51.00	0.00	0.00	-0.00