



A Schlumberger Company

GAMMA-RAY

5" = 100'  
FEET MD

COMPANY : GREAT WESTERN OPERATING COMPANY LLC  
WELL : POSTLE IC #11-342HC  
FIELD : WATTENBERG  
COUNTY : WELD  
STATE : CO  
COUNTRY : USA  
API No. : 05-23-3896900

COMPANY : GREAT WESTERN OPERATING COMPANY LLC  
WELL : POSTLE IC #11-342HC  
FIELD : WATTENBERG  
COUNTY : WELD  
STATE : CO  
COUNTRY : USA  
API WELL No. : 05-23-3896900

WELL LOCATION  
LAT40°14'05"N LON:104°57'36"W  
X : 3,150,763 Y:1,328,891 NAD83  
SEC: TWP: RANGE:

OTHER SERVICES

ROP  
DIRECTIONAL  
NEUTRON DENSITY

DEPTH REF. : KELLY BUSHINGS  
ELEVATION : 16.20 ft (KELLY BUSHINGS - GROUND LEVEL)  
ALTITUDE : 4925.10 ft (GROUND LEVEL - MEAN SEA LEVEL)

BOREHOLE RECORD

DEVIATION RECORD

HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM ft	TO ft
12 1/4	0	1060	00 - 01	0	5632
8 3/4	1060	7605	01 - 90	5632	8485
6 1/8	7605	11913	90 +/-1	8485	11913

CASING RECORD

CASING SIZE in	FROM ft	TO ft
9 5/8	0	1044
7	0	7585

DRILLING Co.: EXTREME DRILLINGCO.  
RIG : 17  
LMD UNIT No.: N/A DISTRICT : COO  
SPUD DATE : 29-AUG-14  
LMD START DATE : 28-AUG-14 DEPTH : 7605 ft  
LMD END DATE : 30-AUG-14 DEPTH : 11913 ft  
TOTAL DEPTH : 11913 ft

RUN DATA

RUN NUMBER	RUN1				
START DATE	28-AUG-14				
START TIME	05:00				
END DATE	30-AUG-14				
END TIME	21:40				
DEPTH IN ft	7605				
DEPTH OUT ft	11913				
LOG TOP ft	7585				
LOG BOTTOM ft	11838				
HOLE SIZE in	6 1/8				
MUD DATA @ ft	11913				
MUD TYPE	WATER BASE				
DENSITY lb/gal	9.80				
VISCOSITY s/qt	48				
pH	8.8				
FLUID LOSS cm3/30	5.6				
SALINITY ppm	2500				
Rm ohmm @ deg F	@				
Rmf ohmm @ deg F	@				

REMARKS
GREAT WESTERN OPERATING COMPANY LLC AFE #: W10554
PATHFINDER JOB #: 14CC00559
ALL LOGGING DATA IS MEMORY UNLESS STATED OTHERWISE.
ALL REFERENCES TO LOG TOP, LOG BOTTOM, OR LOGGING TOOL DEPTH REFER TO THE GAMMA-RAY SENSOR UNLESS STATED OTHERWISE. SENSOR OFFSETS FOR THE OTHER LOGGING TOOLS ARE SHOWN IN THE BHA REPORT ON THE LOG TRAILER.
ALL ANNOTATIONS IN THE DEPTH TRACK ARE REFERENCED TO BIT DEPTH.
THIRD PARTY DEPTH TRACKING PROVIDED BY PASON.
RUN #1: 4 3/4" HDS-1L/GAMMA/IDNSC LOGGING RUN.
REMARK #1: GAMMA-RAY FROM 5397'-7557'MD (5397'-7241'TVD) PROVIDED BY PERCISION DRILLING MWD.
REMARK #2: GAMMA-RAY LOGGED THROUGH CASING FROM 7557'-7585'MD (7241'-7247'TVD).
NOTICE - All interpretations are opinions based on inferences from electrical or other measurements and we do not guarantee the accuracy or correctness of any interpretations. We shall not, except in the case of gross or willful negligence on our part, be liable or responsible for loss, costs, damages or expenses incurred or sustained by anyone as a result of any interpretations made by one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.
PATHFINDER - A Schlumberger Company
Version No : RX5 V6.05B Release 20Jun2014
Plot Time : 30-Aug-2014 22:48

[illegible]

SEE REMARK #1

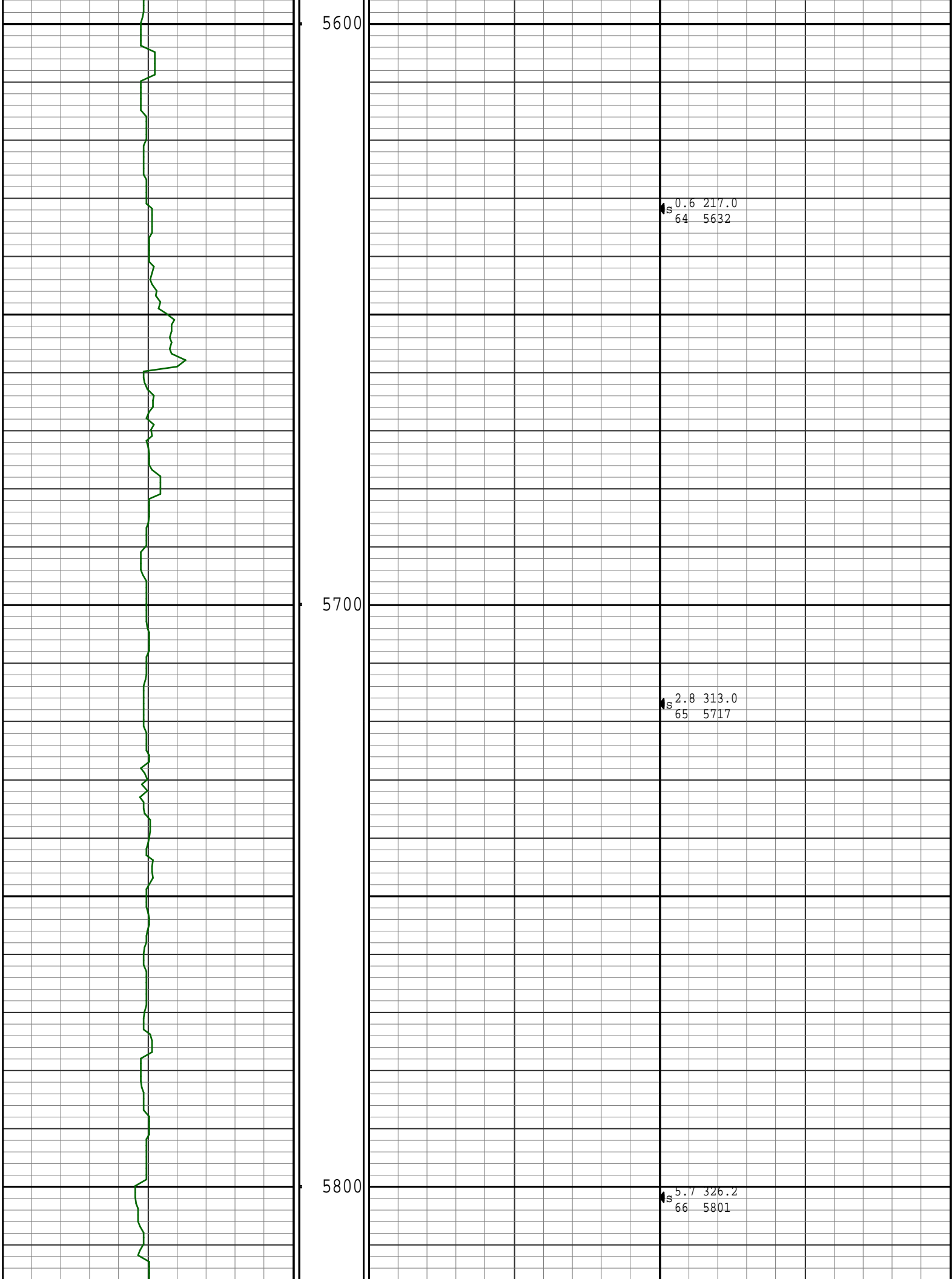
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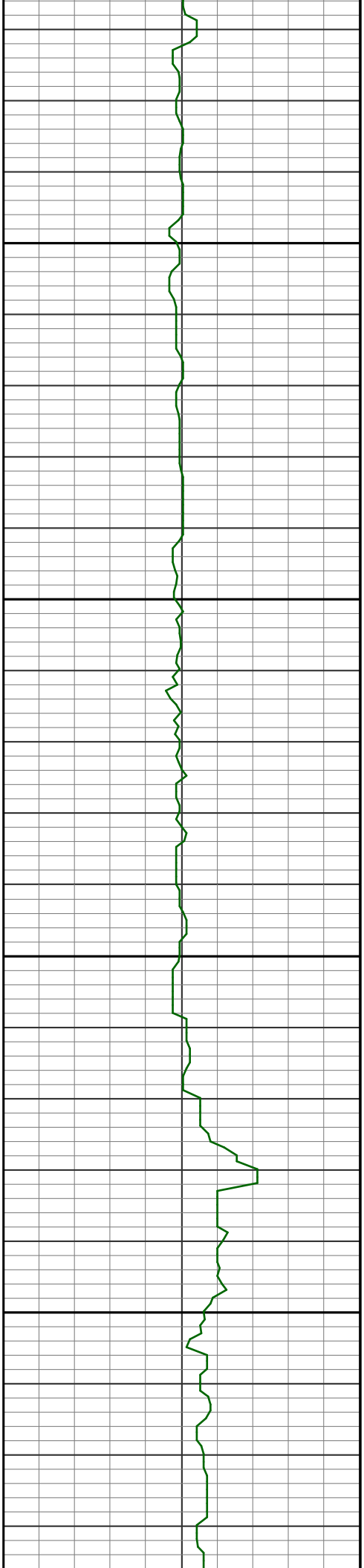
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61 5376

0.5 269.6  
62 5461

0.6 234.4  
63 5547



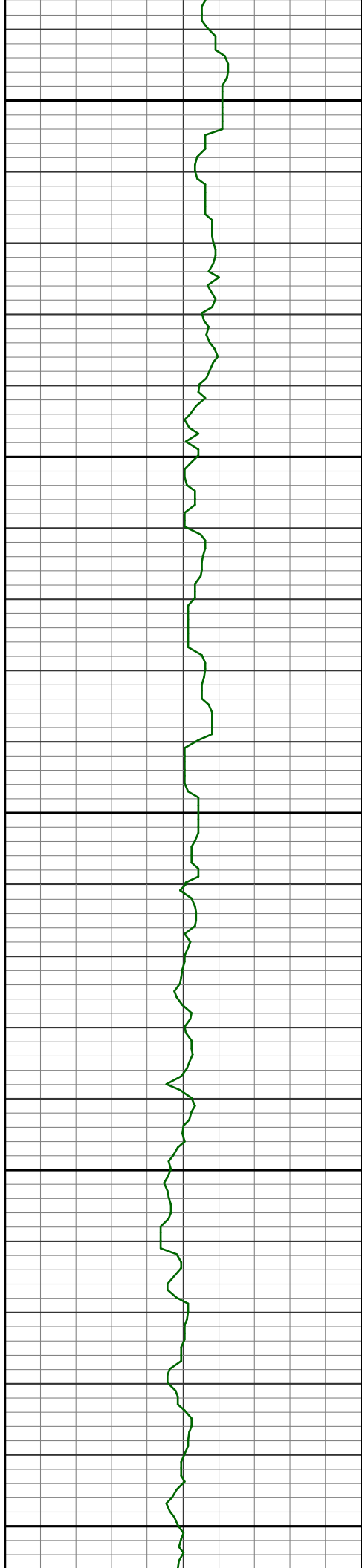


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6000

5.0 323.4  
67 5886

5.7 320.0  
68 5972



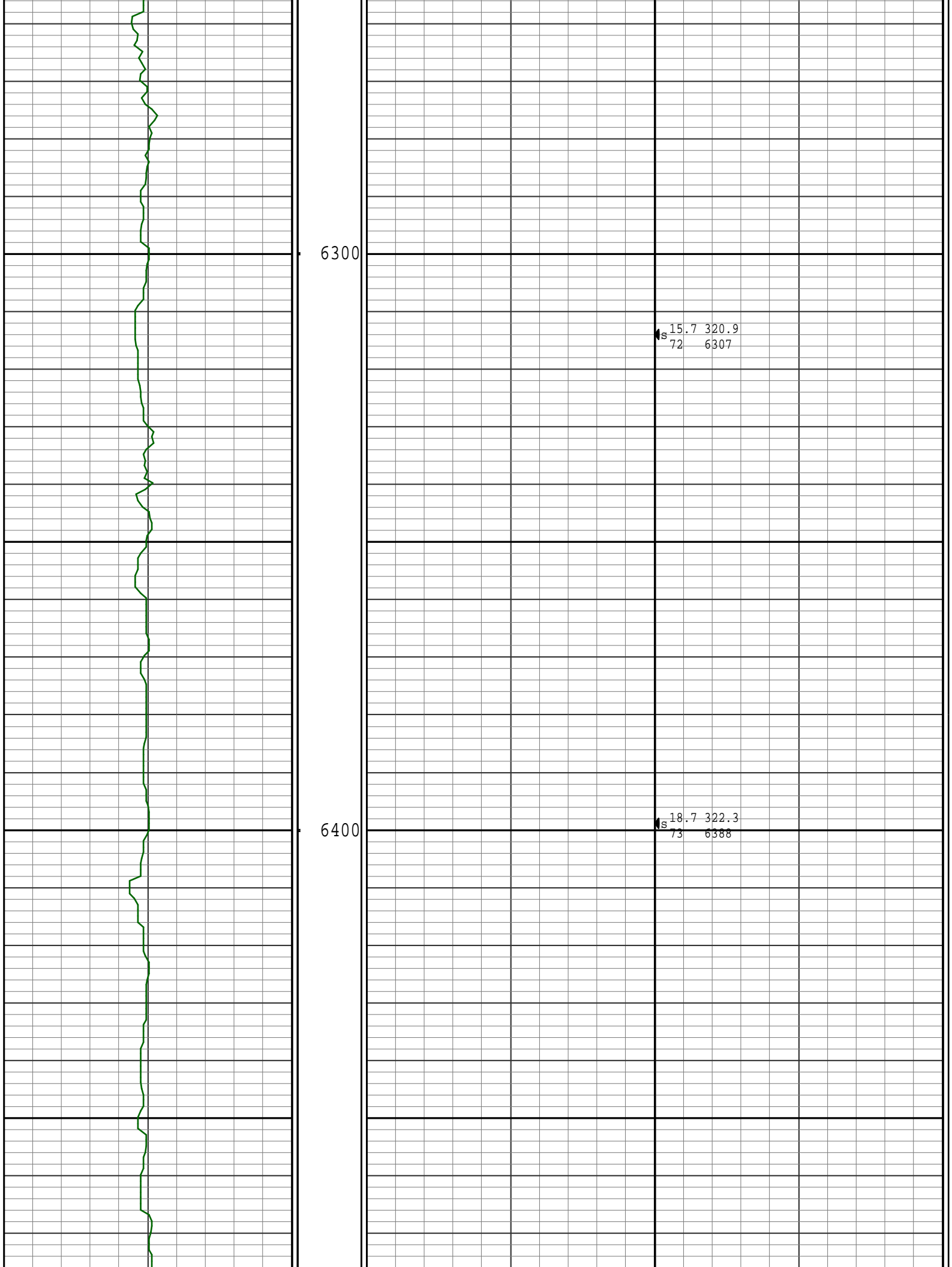
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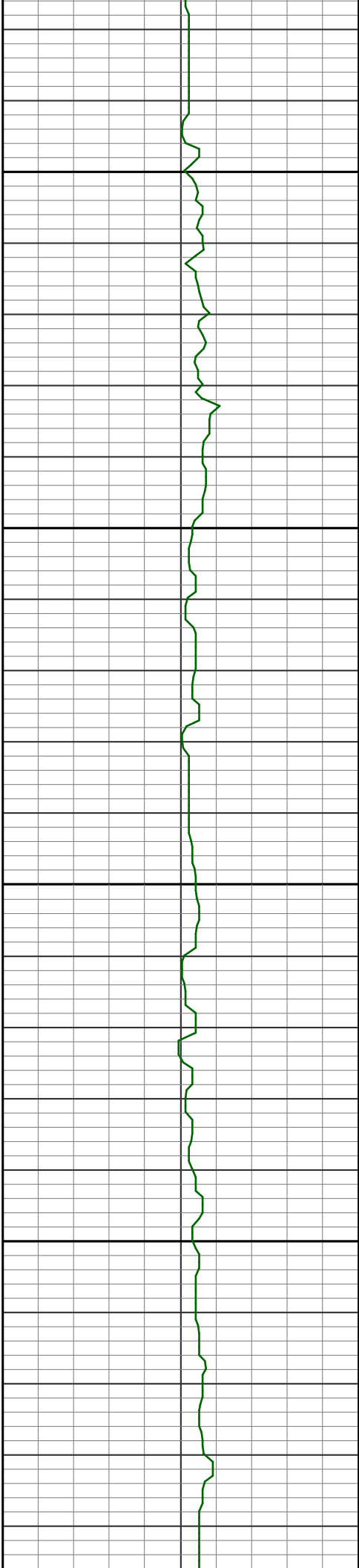
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8.6 318.4  
69 6056

10.5 317.0  
70 6140

12.0 316.7  
71 6223





6500

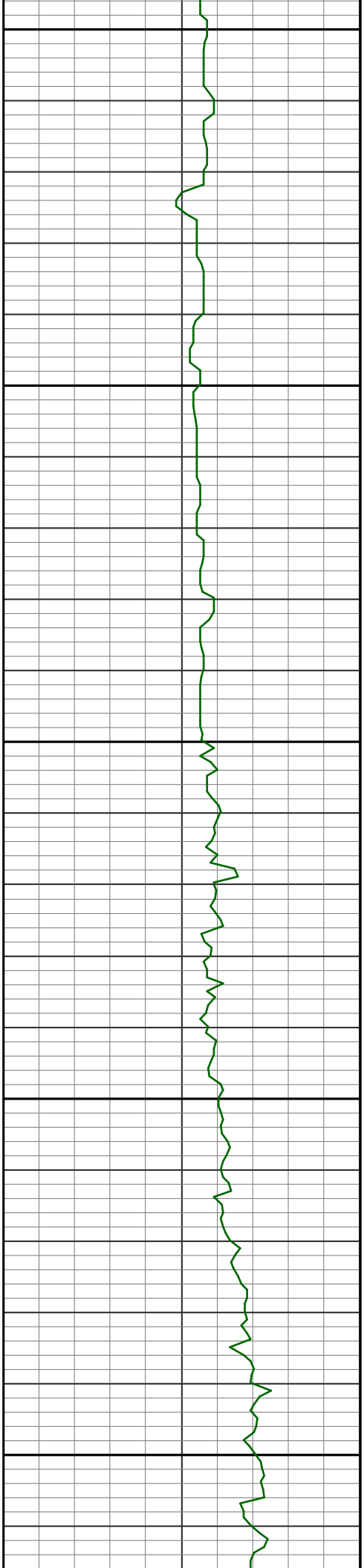
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16.7 319.0  
74 6469

19.3 318.8  
75 6550

18.5 317.9  
76 6631





6700

6800

6900

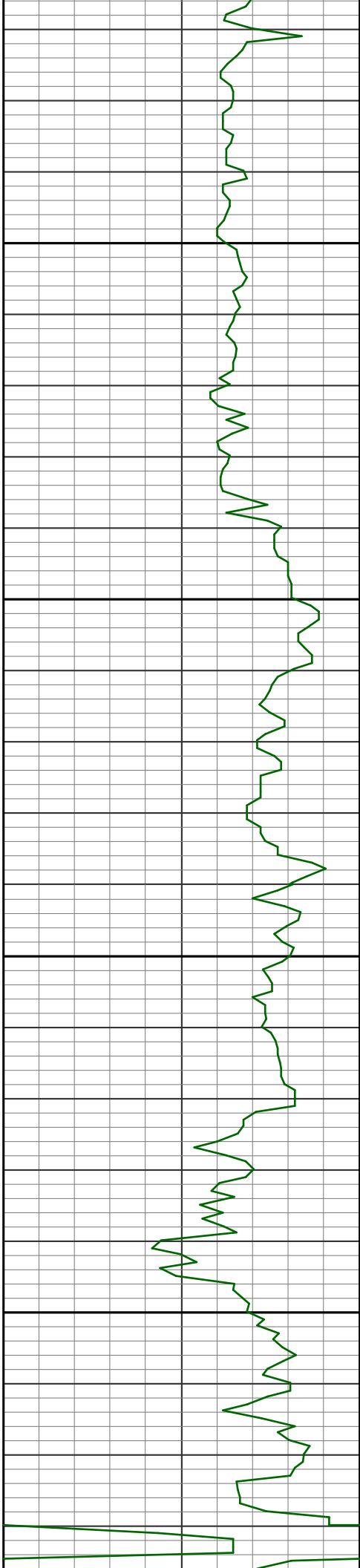
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77 6712

15.6 310.9  
78 6753

14.6 309.3  
79 6795

18.8 300.3  
80 6835

25.1 295.1  
81 6875



7000

7100

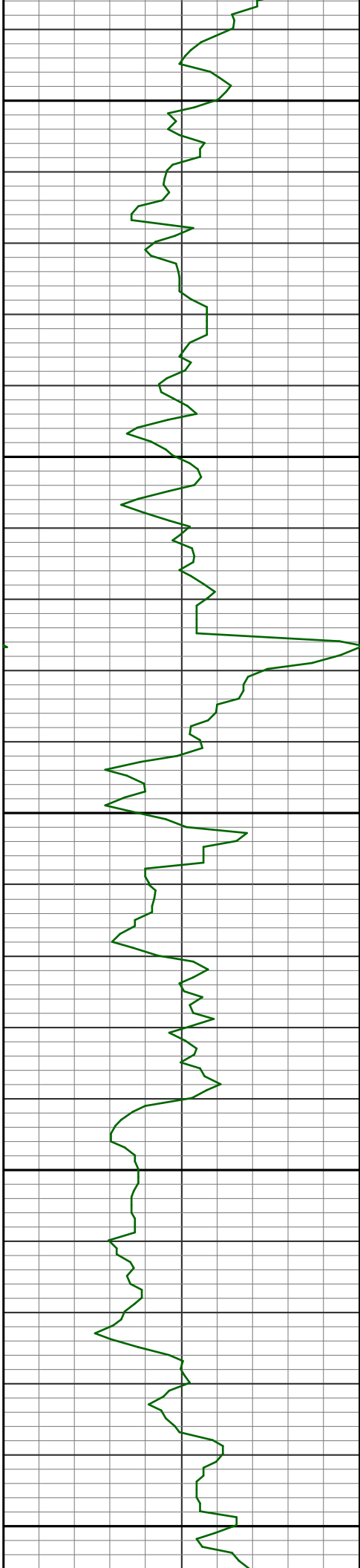
s 33.2 293.7  
82 6912

s 39.0 292.4  
83 6946

s 42.4 293.0  
84 6979

s 42.1 291.2  
85 7011

s 43.4 285.4  
86 7042



7200

7300

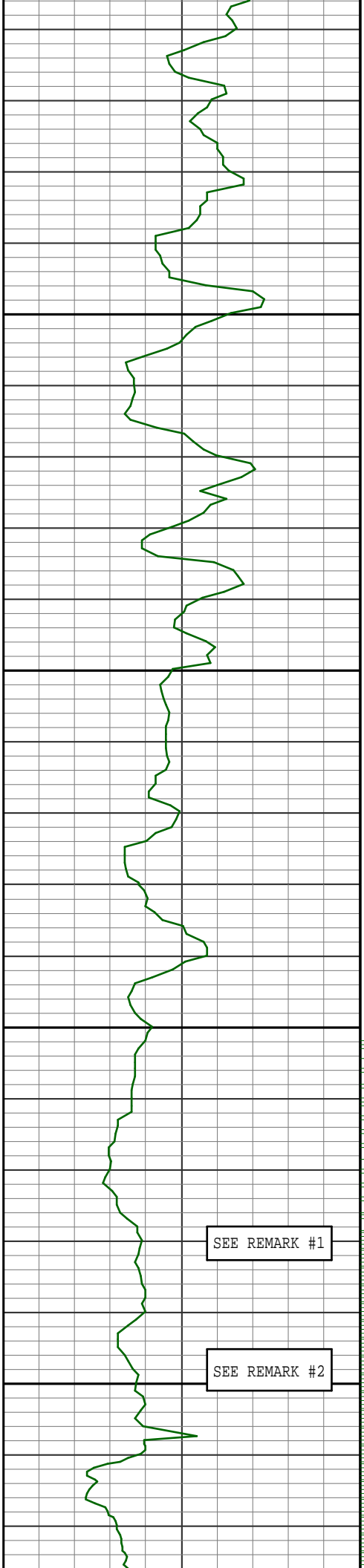
48.2 280.1  
87 7072

52.3 278.2  
88 7099

55.9 277.3  
89 7124

59.2 276.8  
90 7147

62.4 277.0  
91 7167



7400

7500

SEE REMARK #1

SEE REMARK #2

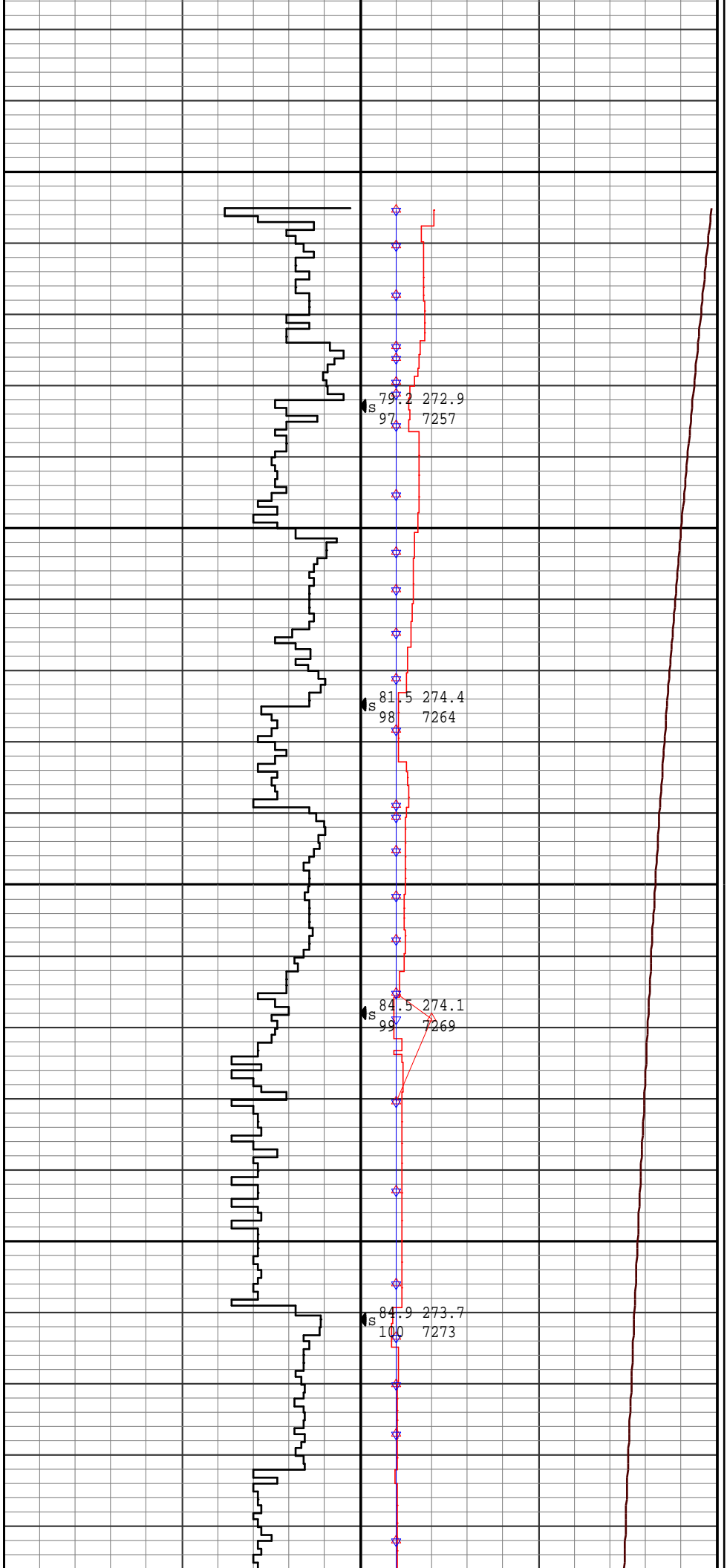
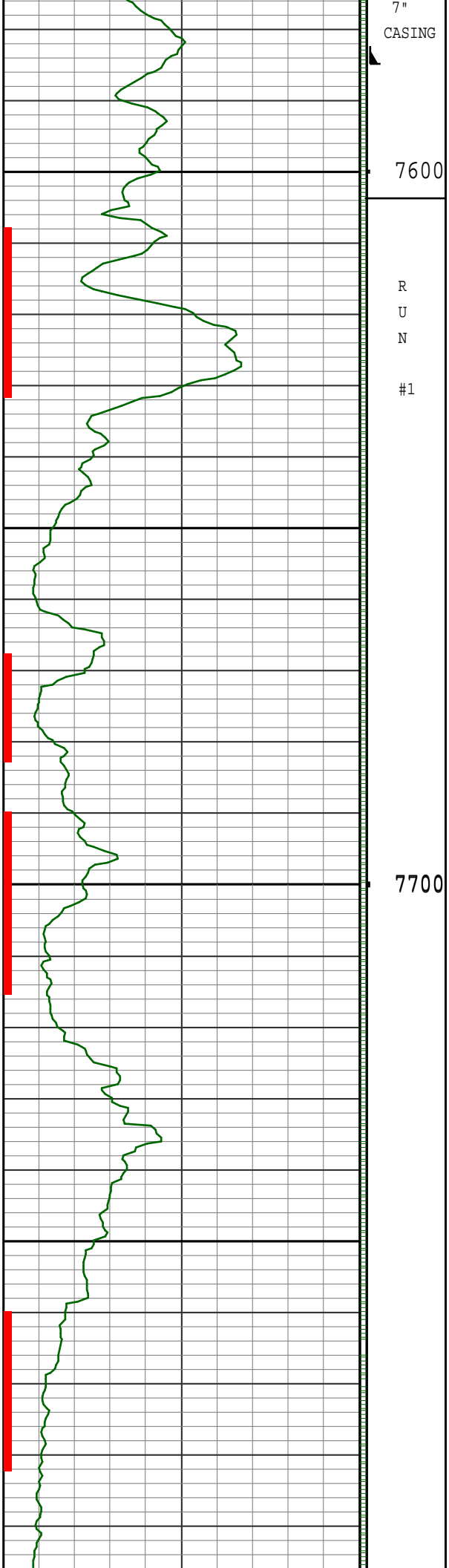
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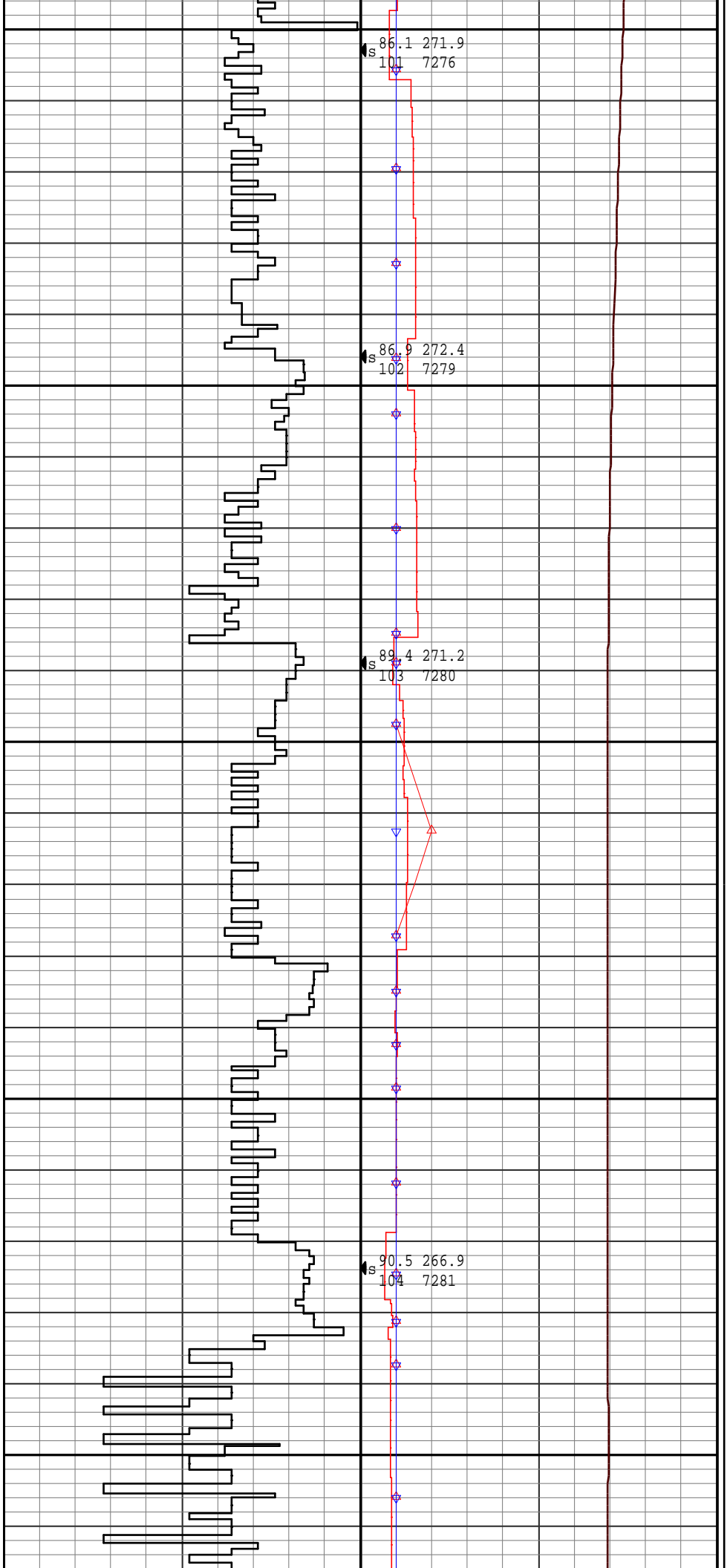
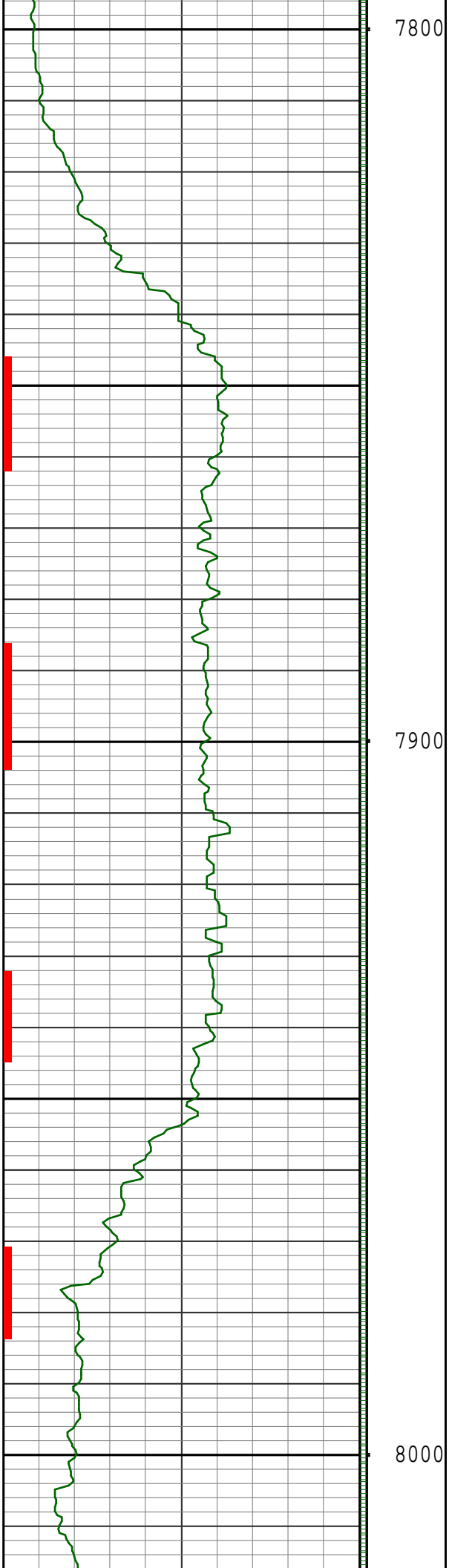
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93 7202

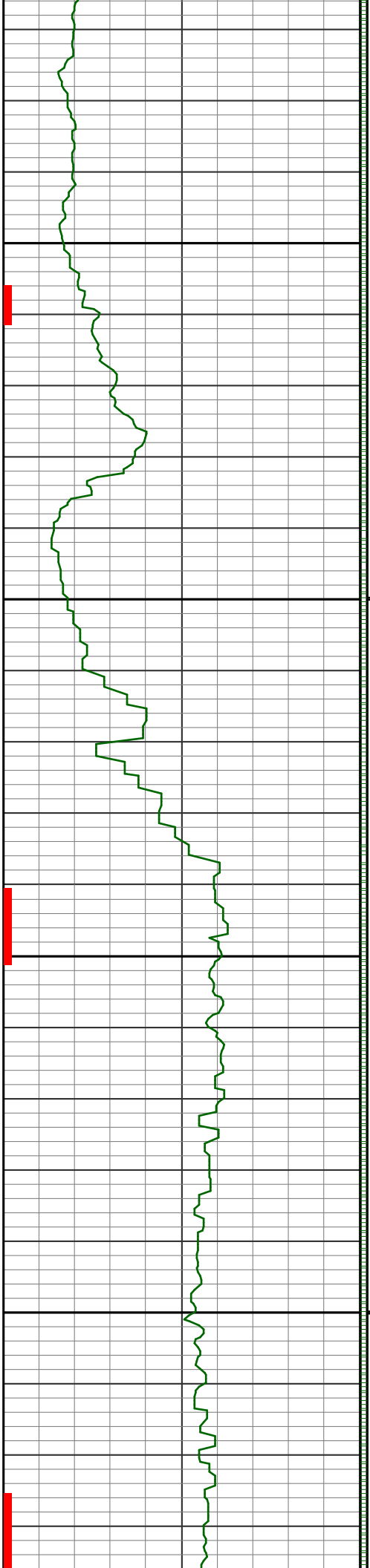
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74.7 272.9  
95 7229

76.6 272.2  
96 7238

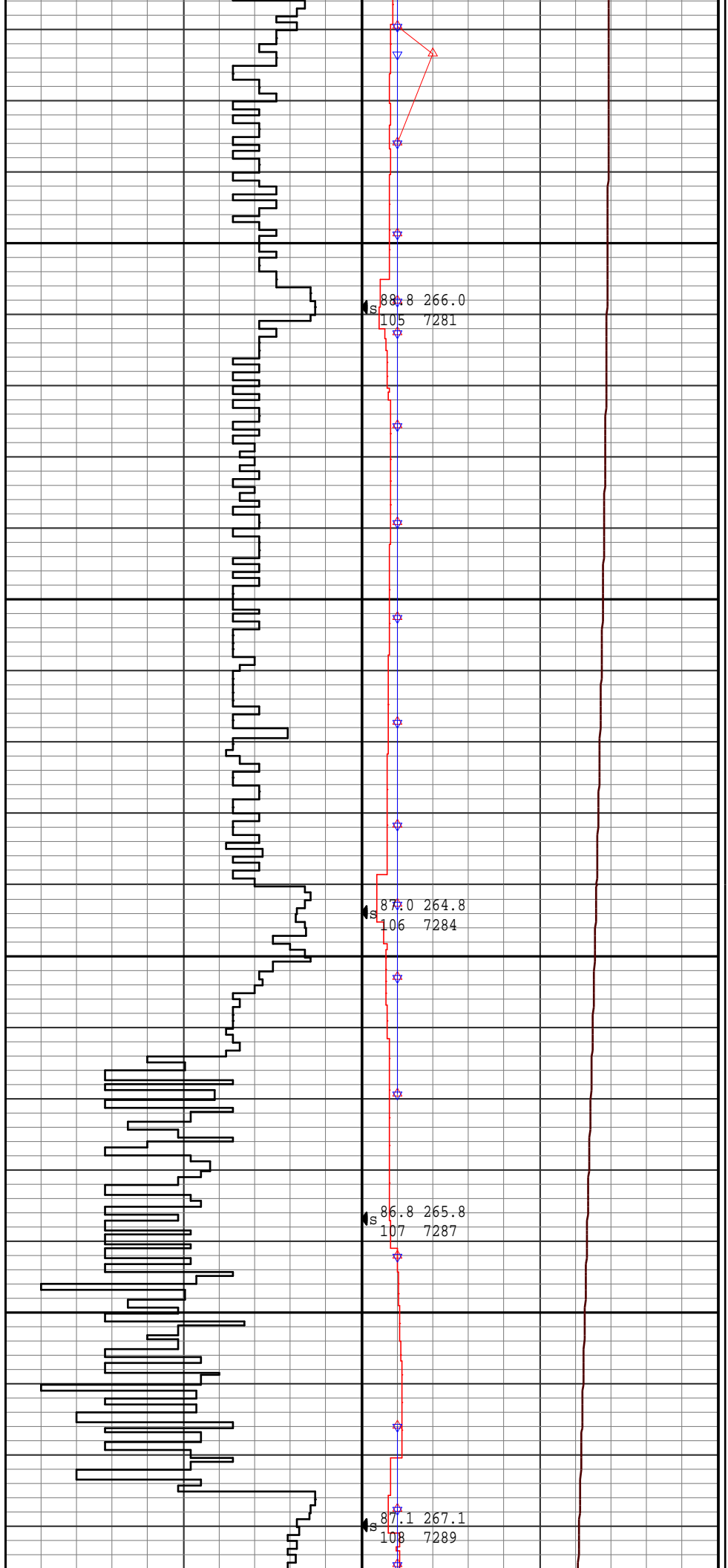


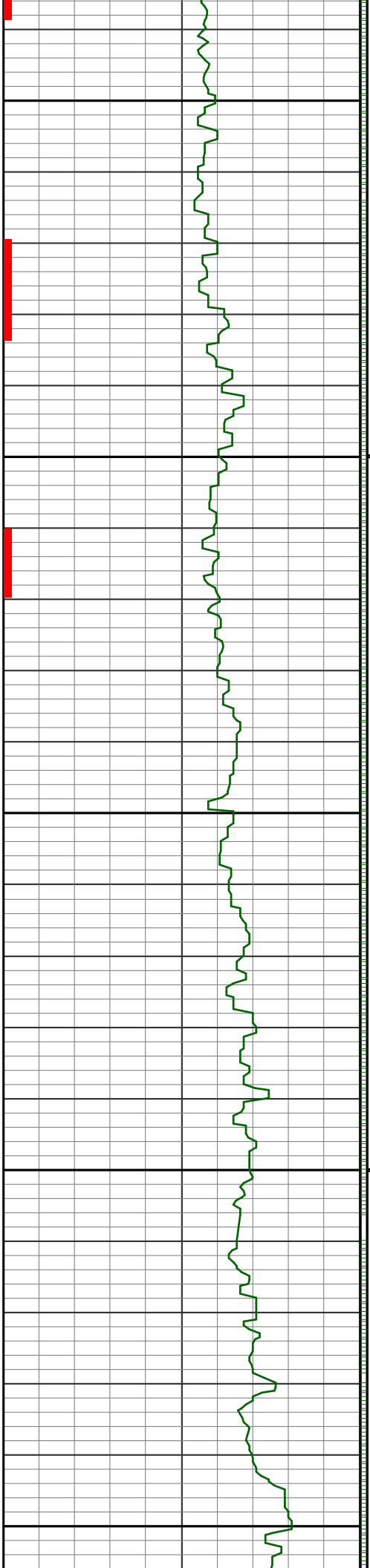




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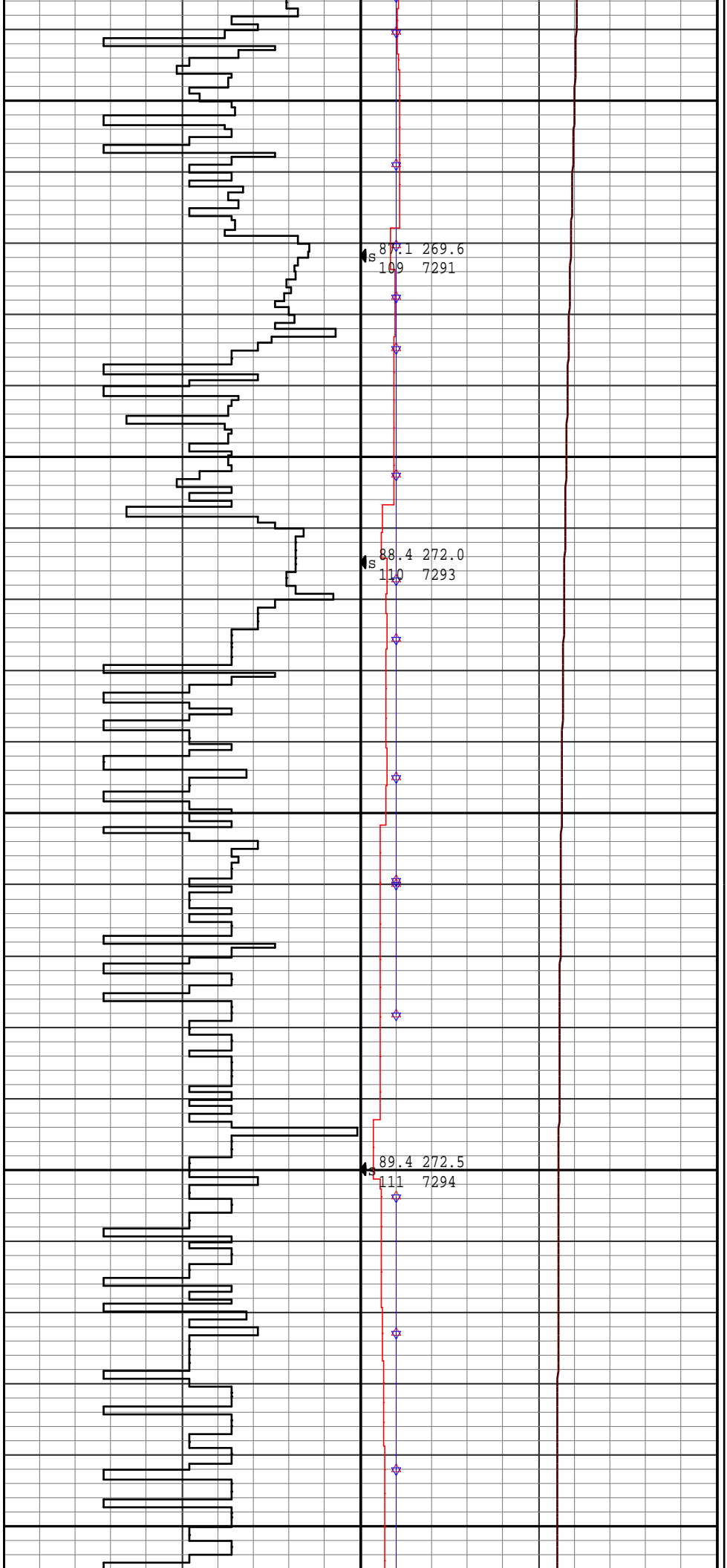
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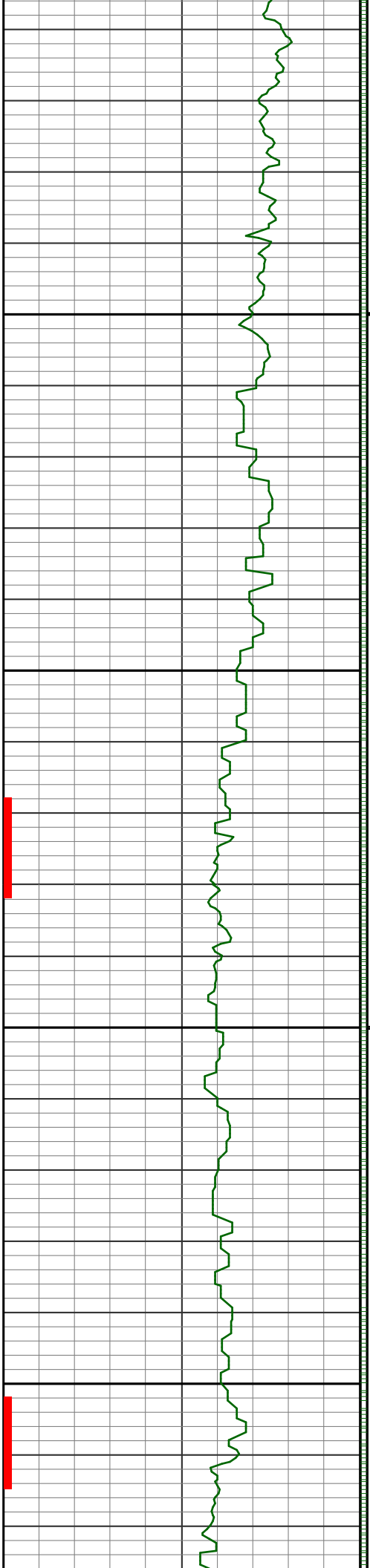


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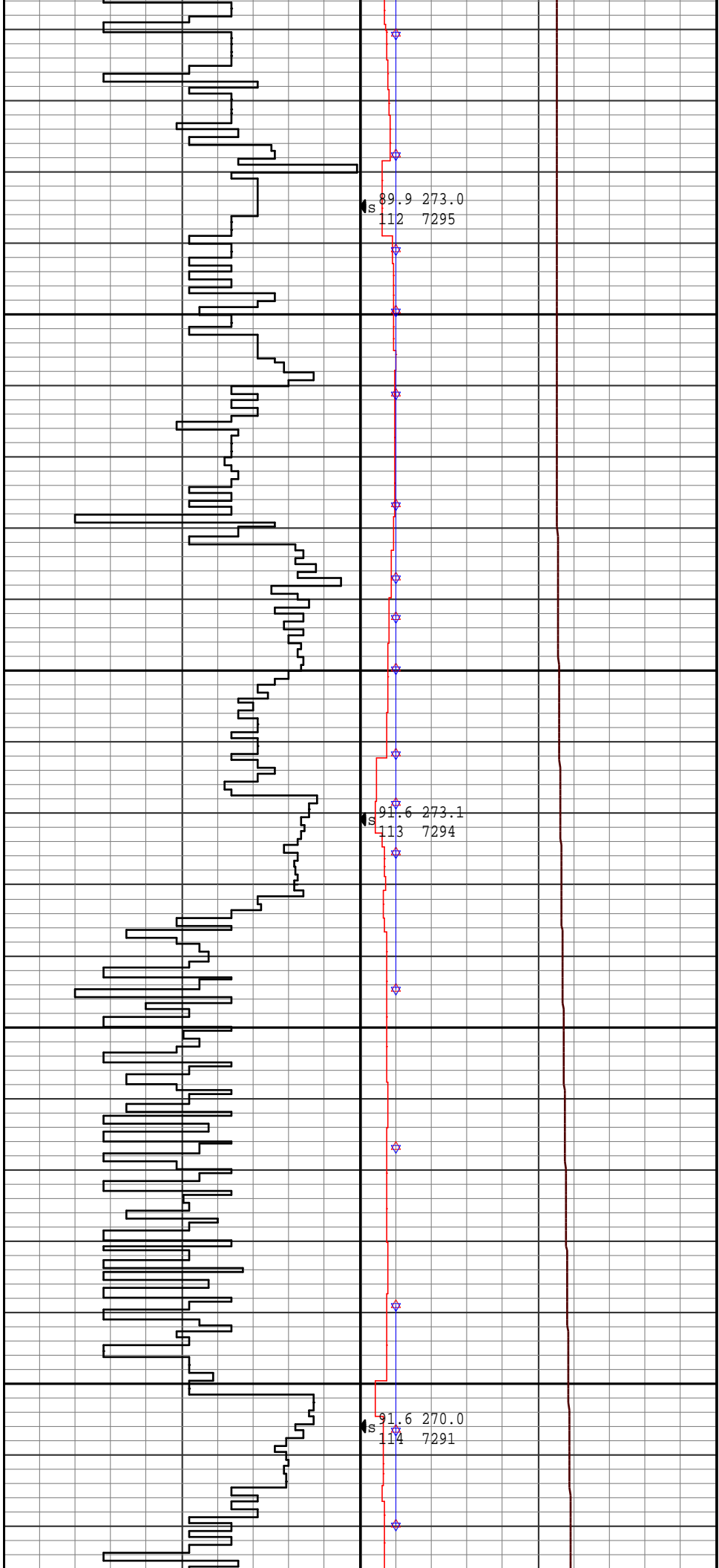


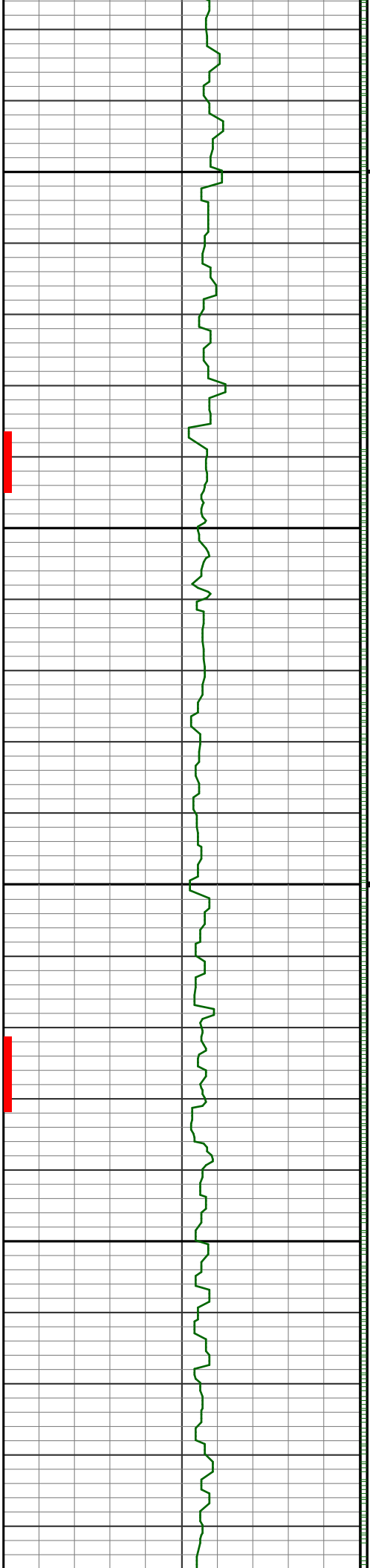




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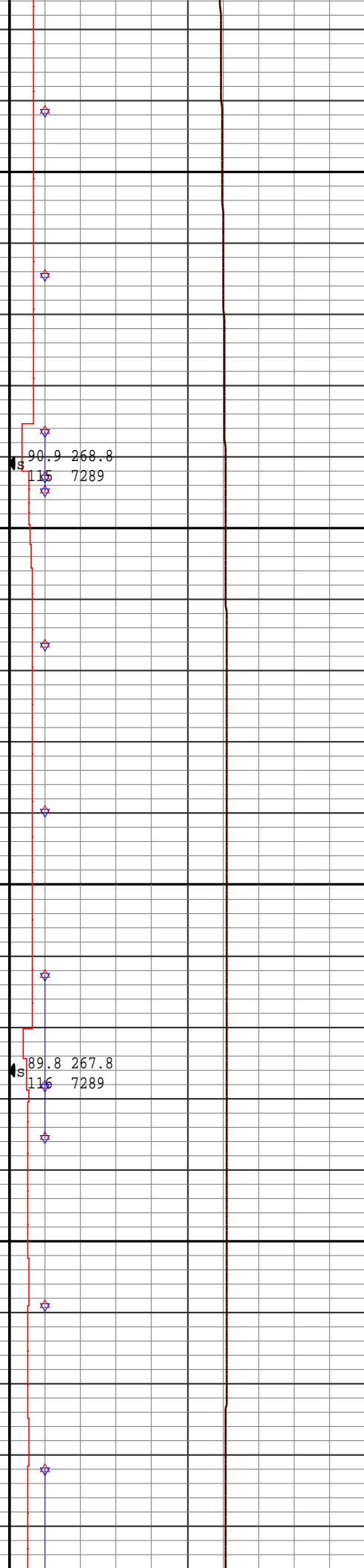
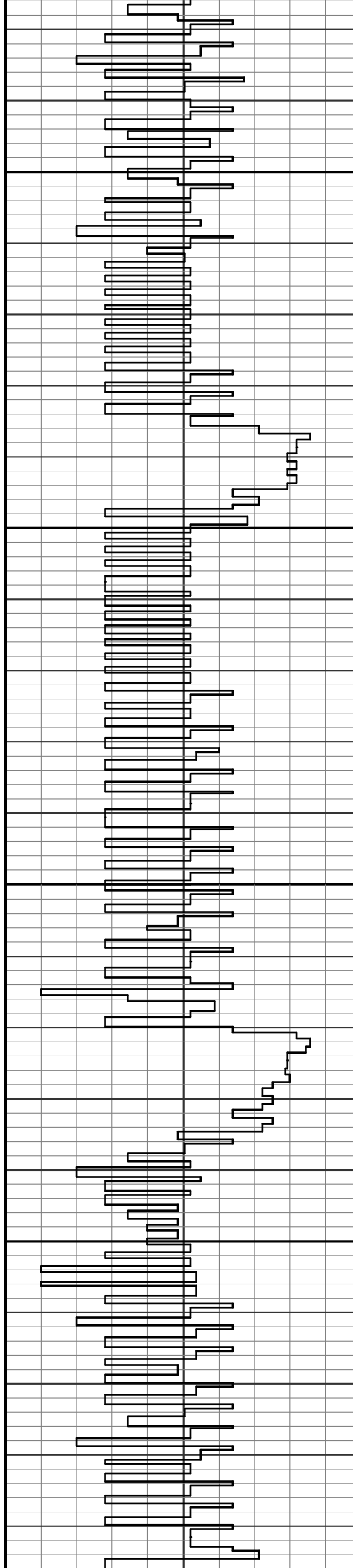
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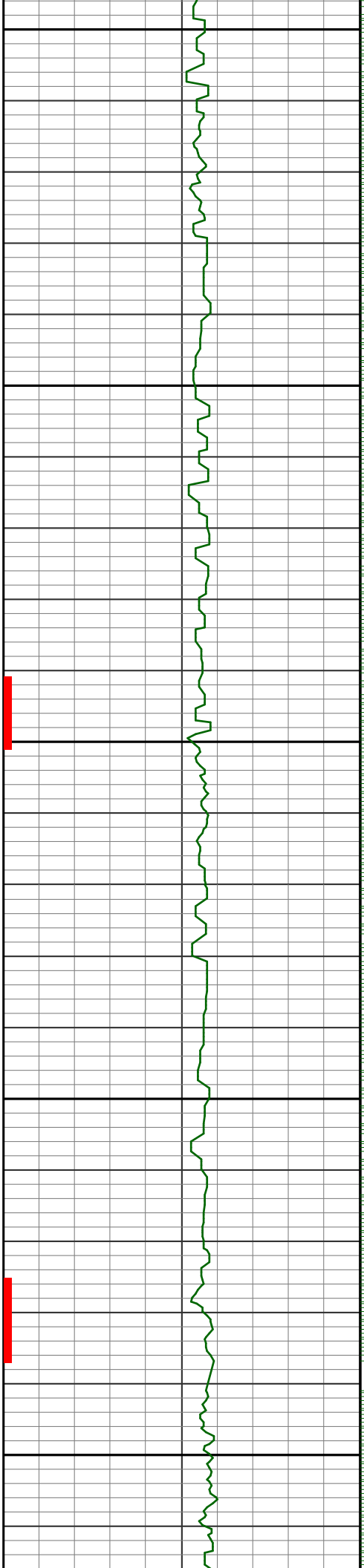




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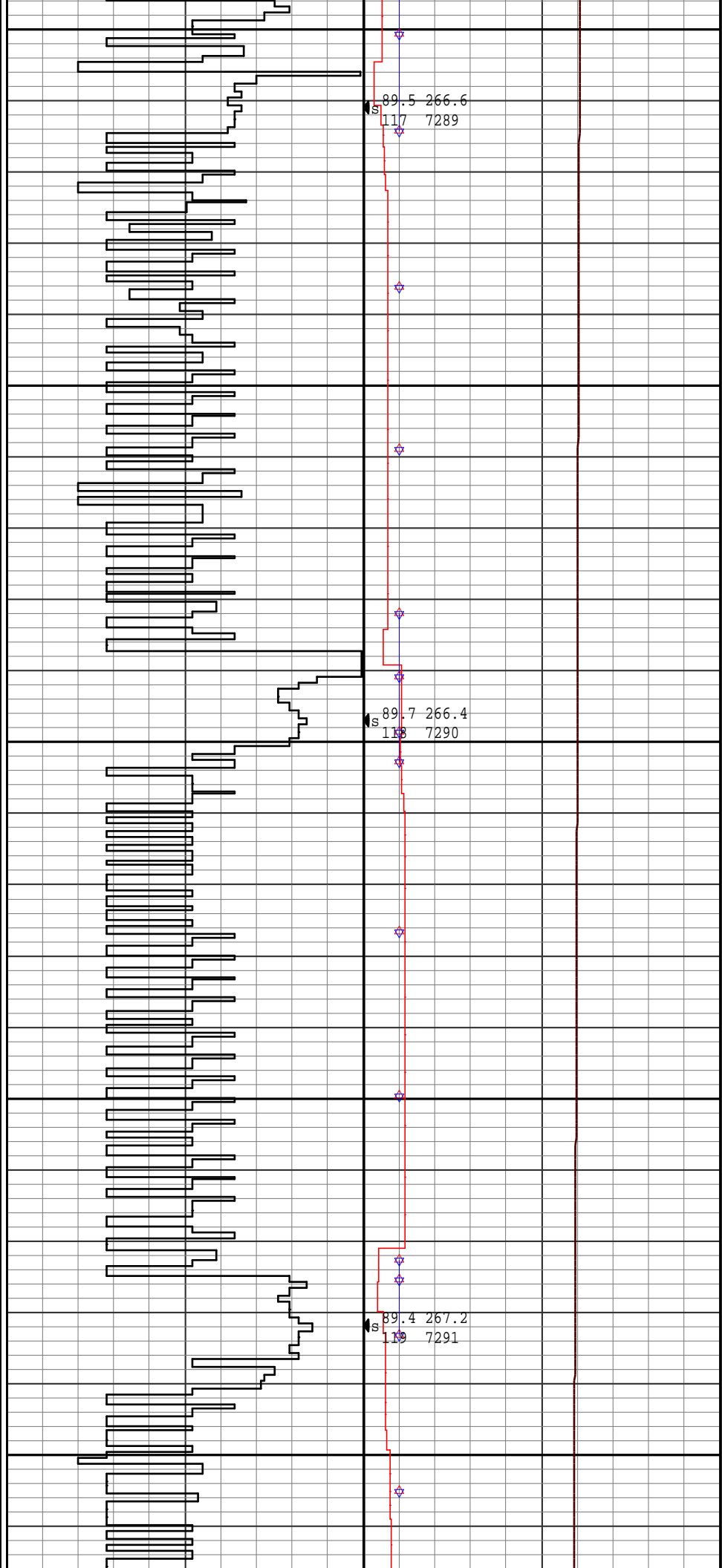


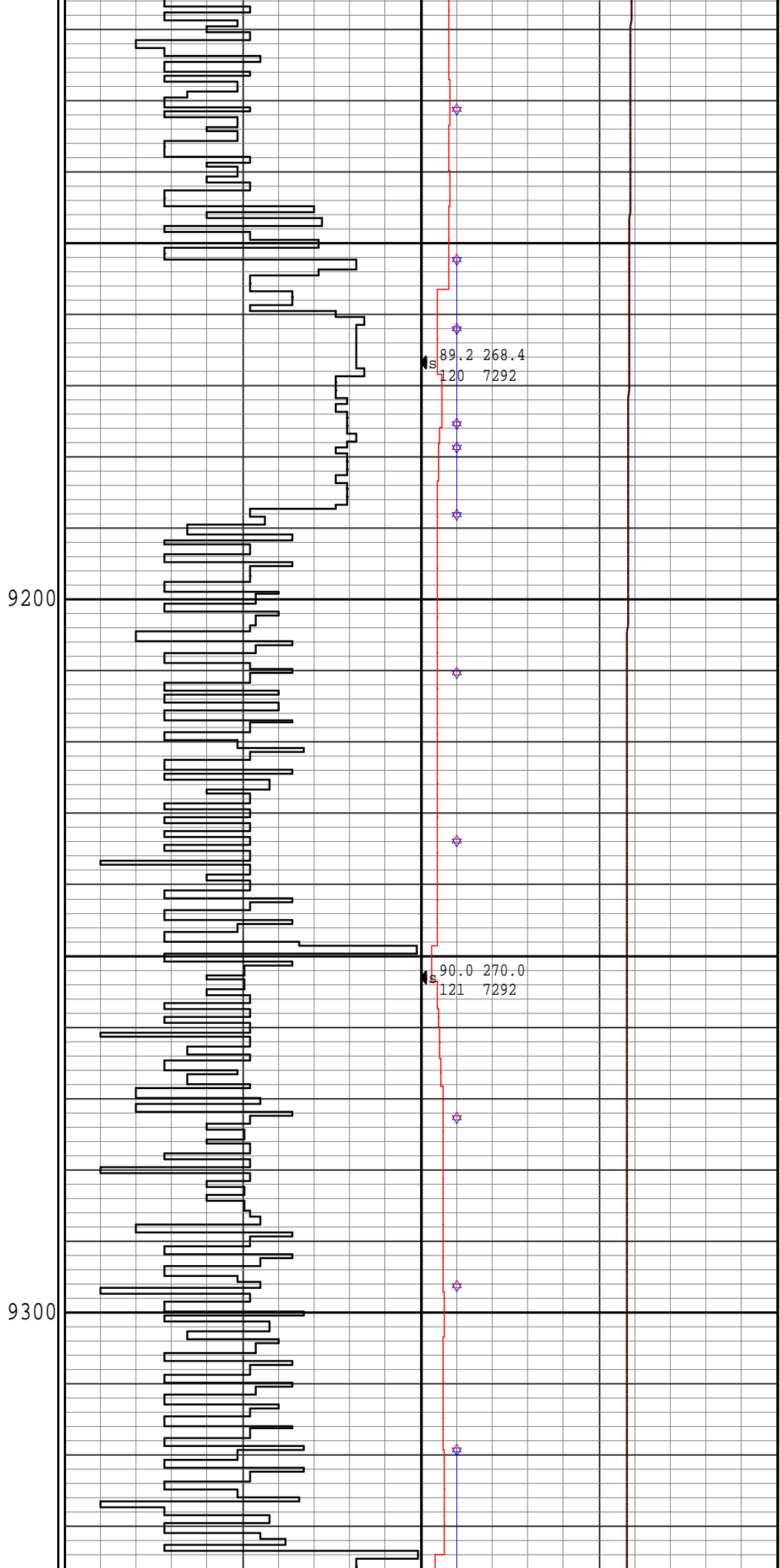
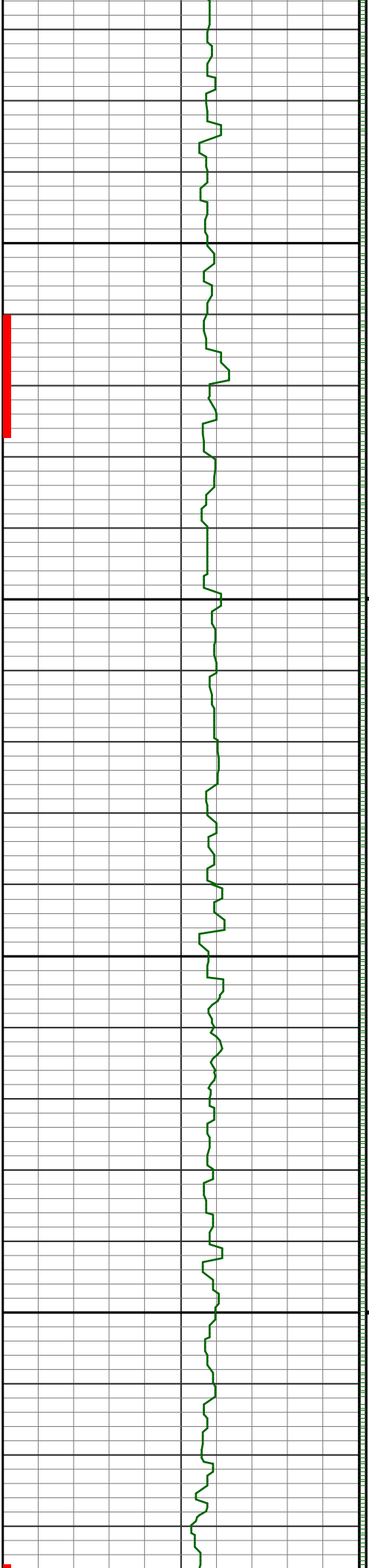


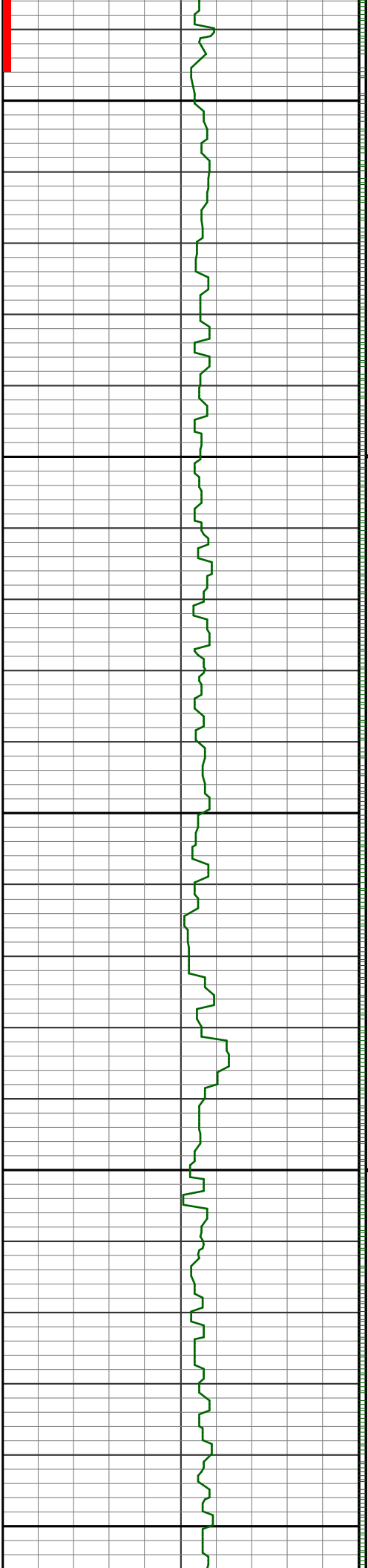
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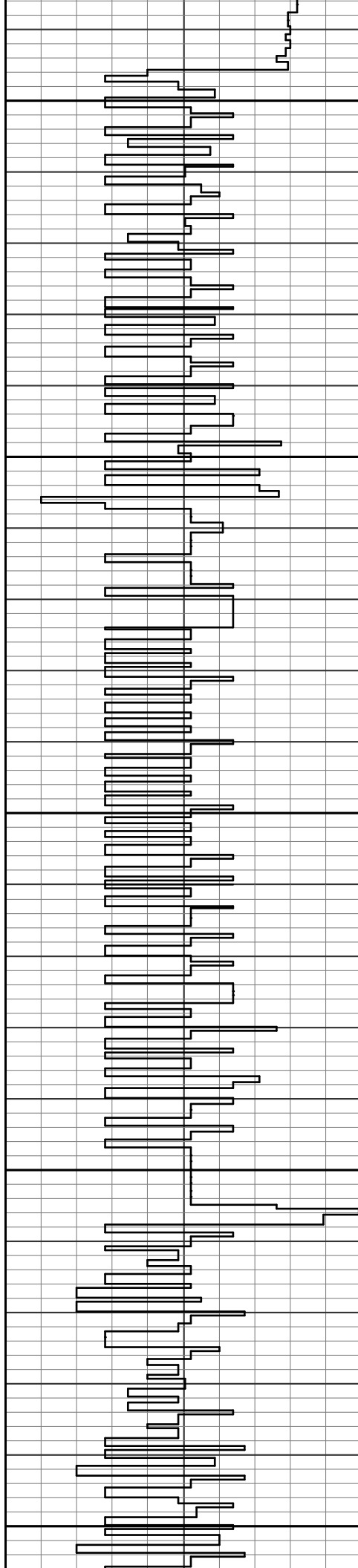






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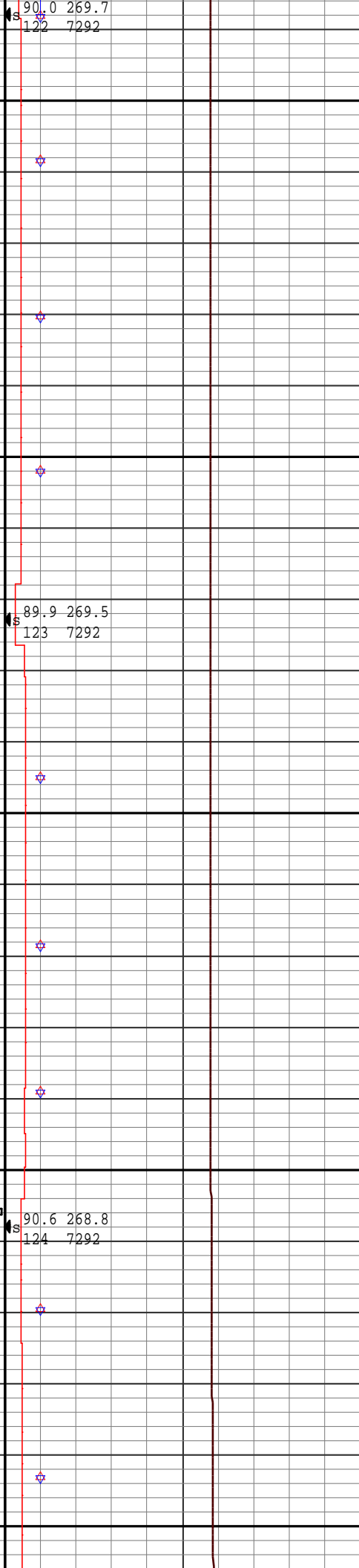
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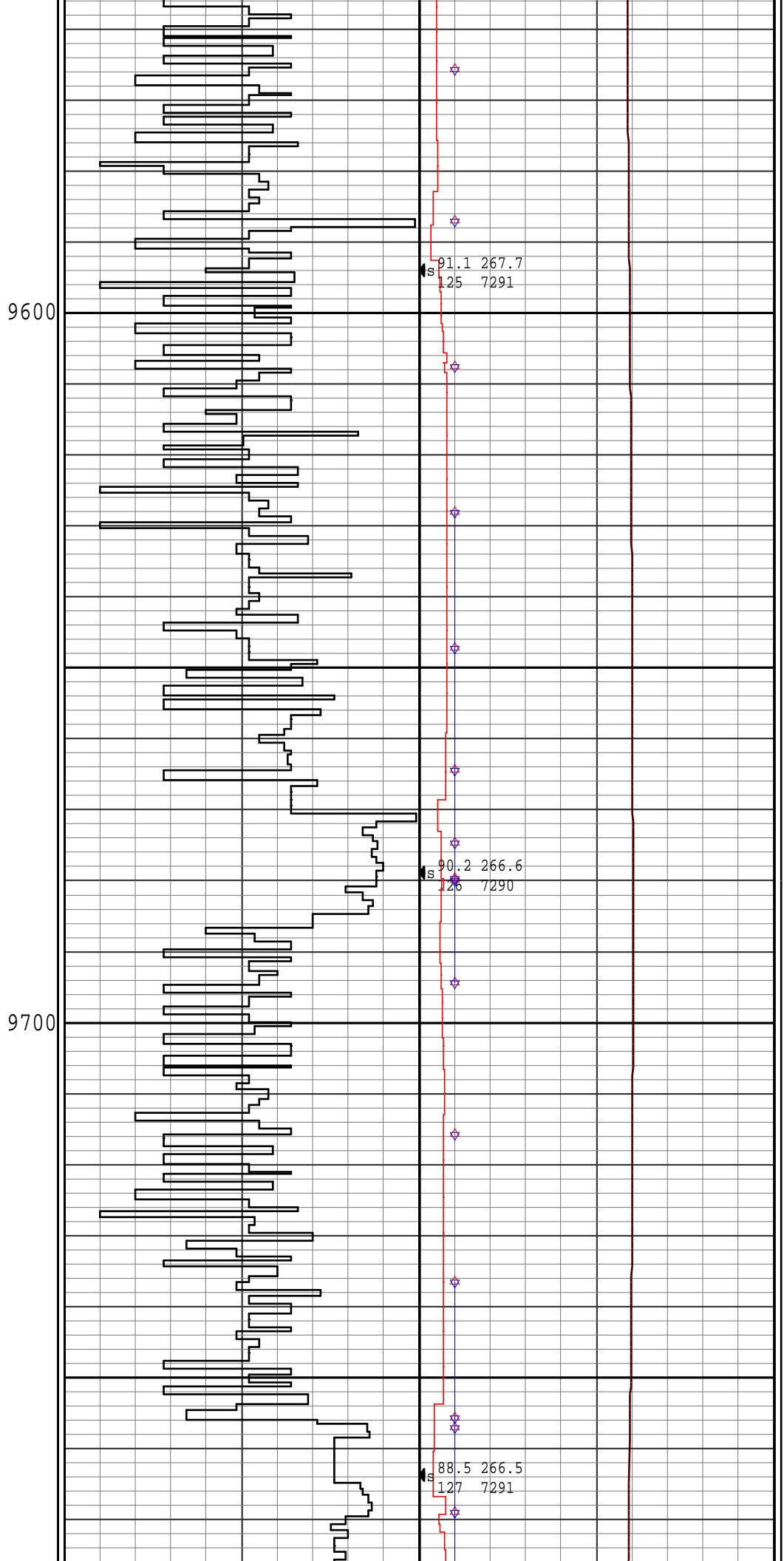
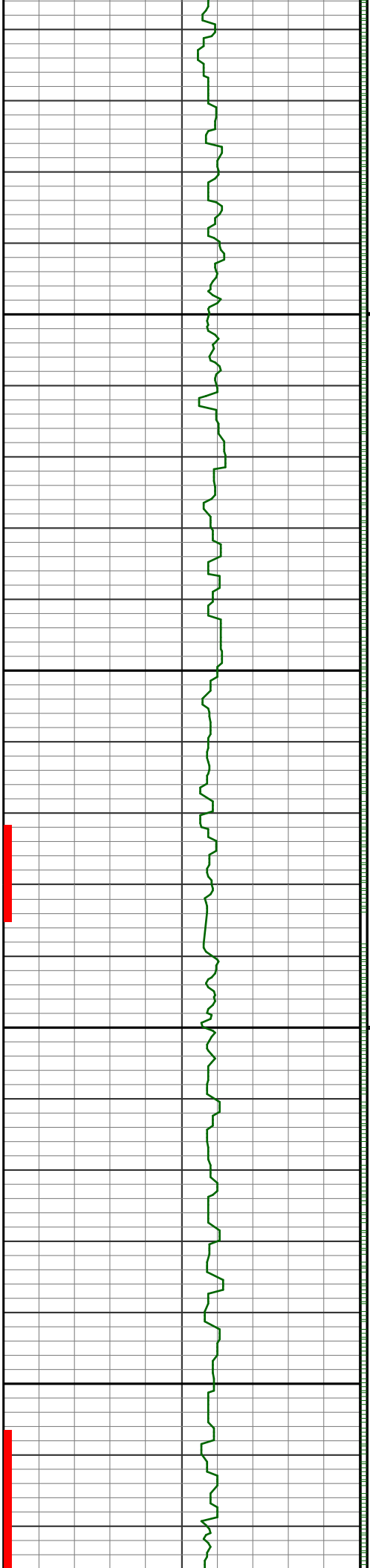


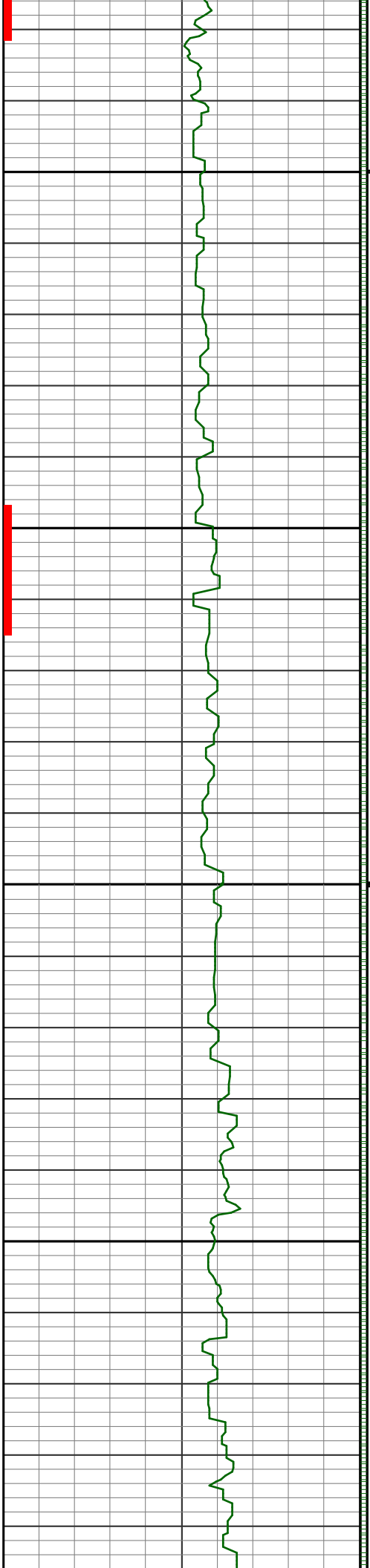
90.0 269.7  
122 7292

89.9 269.5  
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90.6 268.8  
124 7292

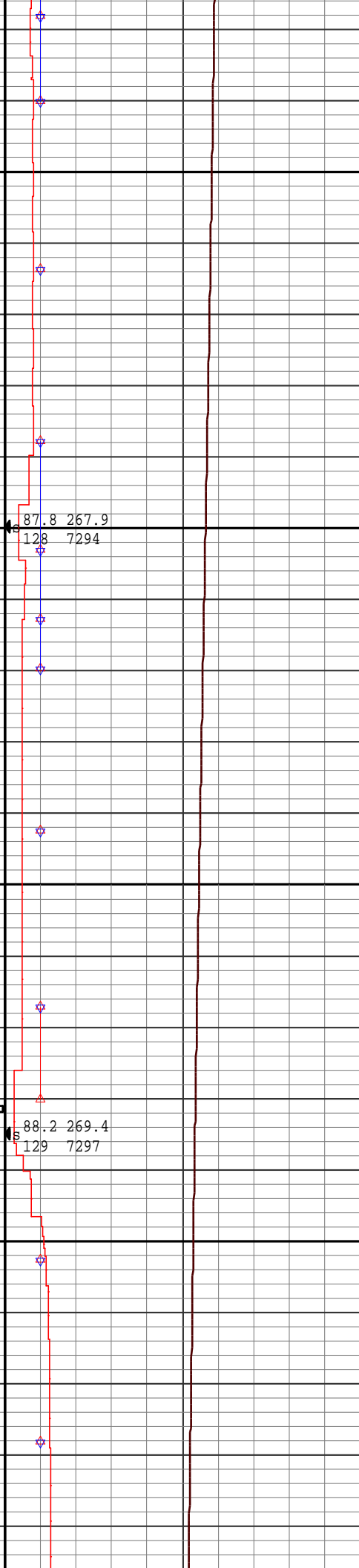
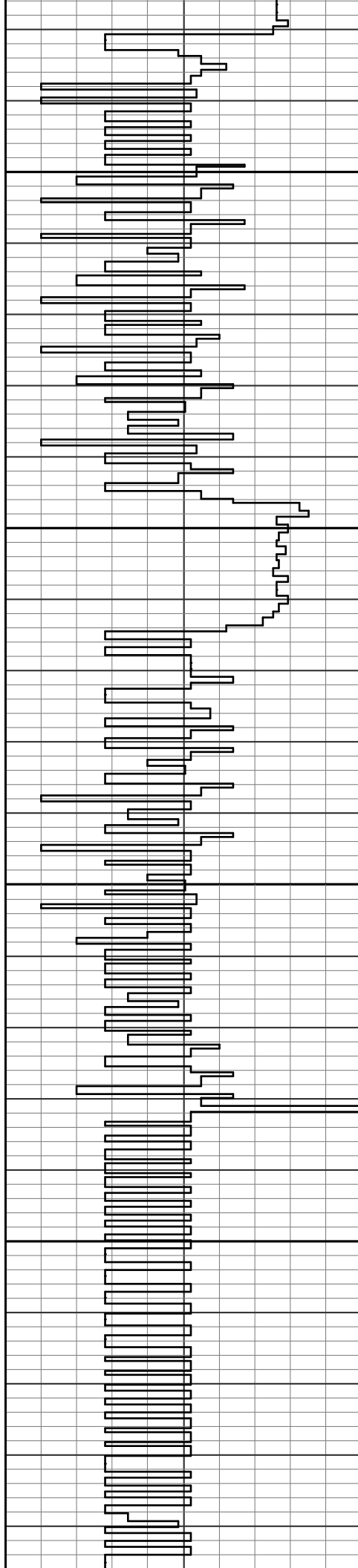


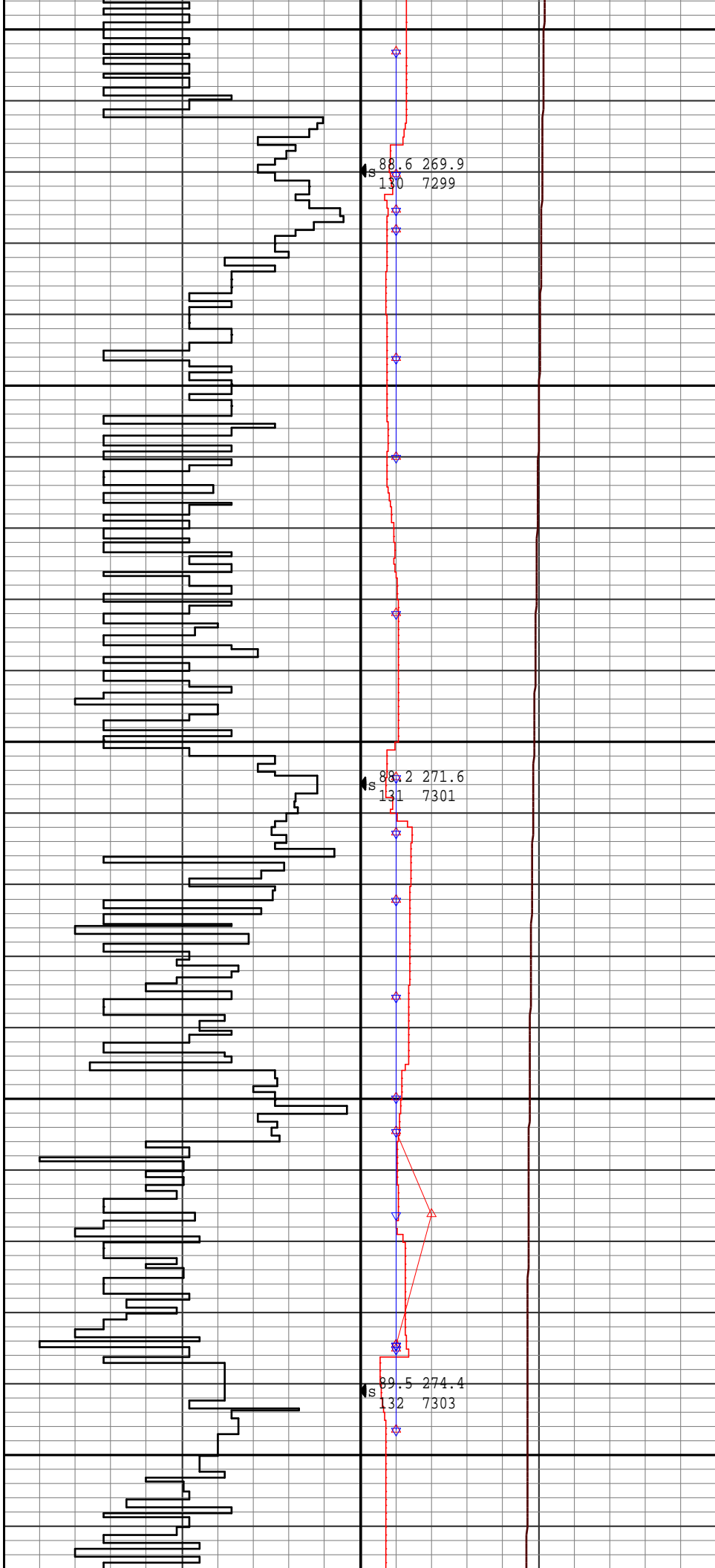
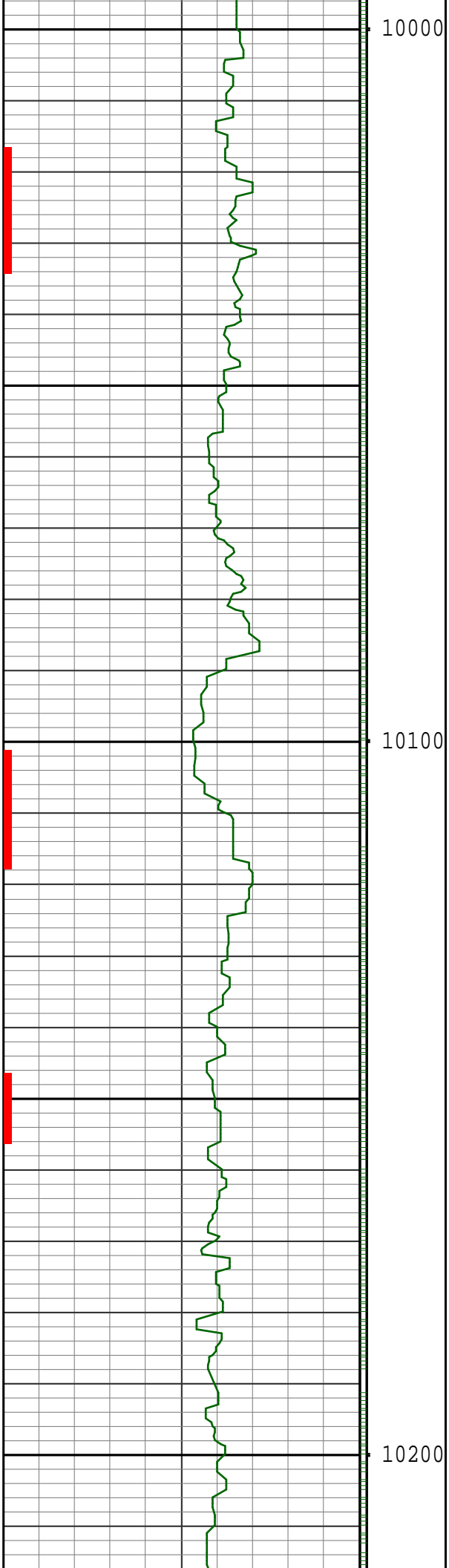




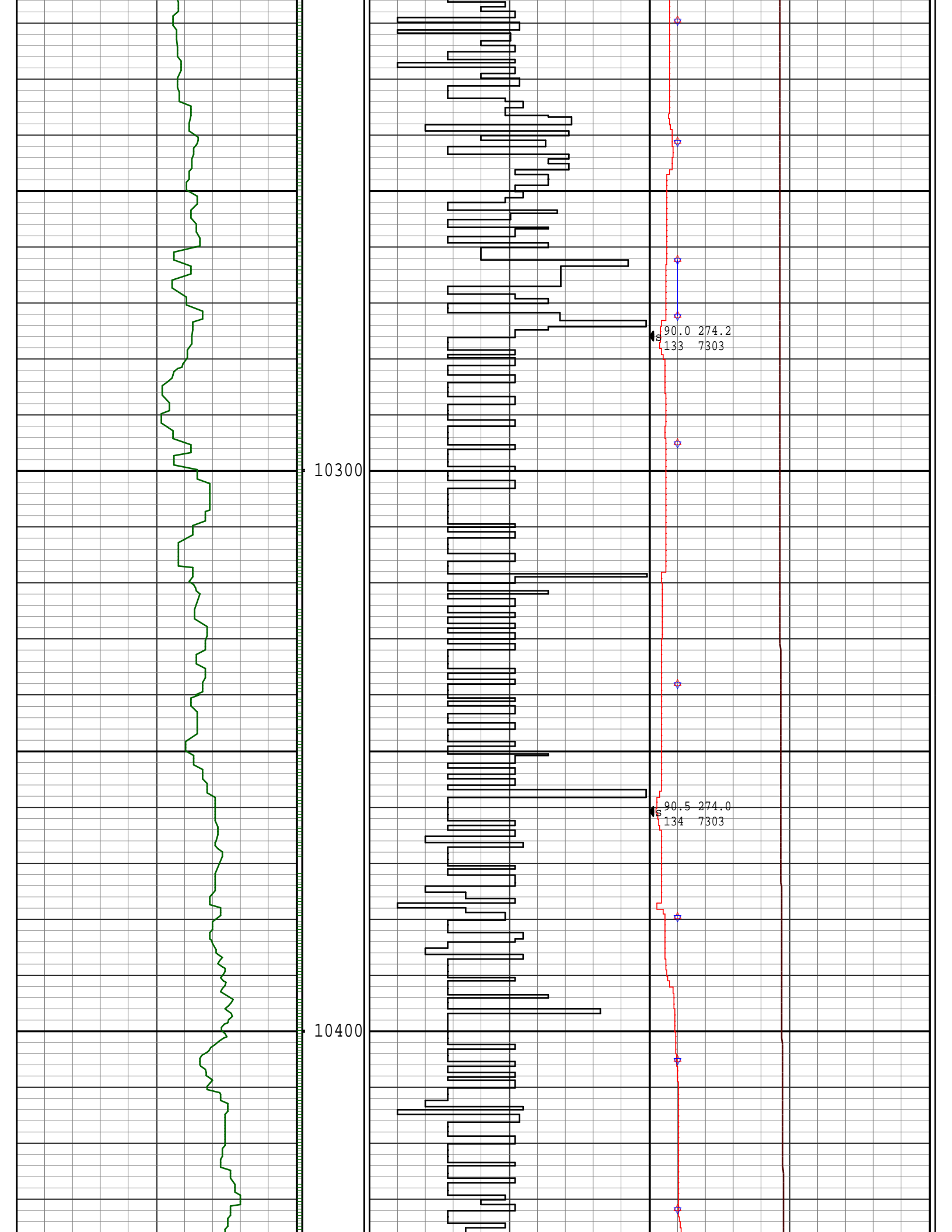
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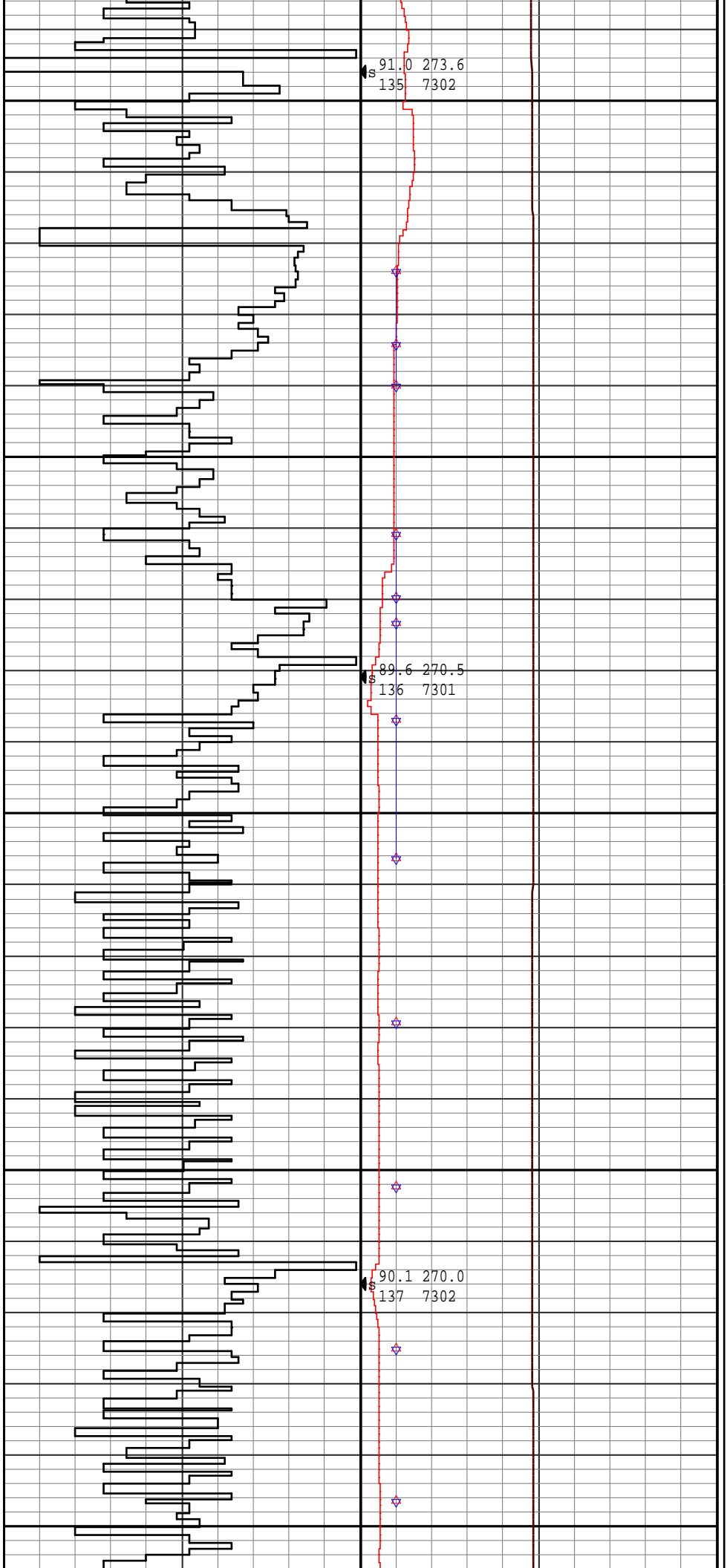
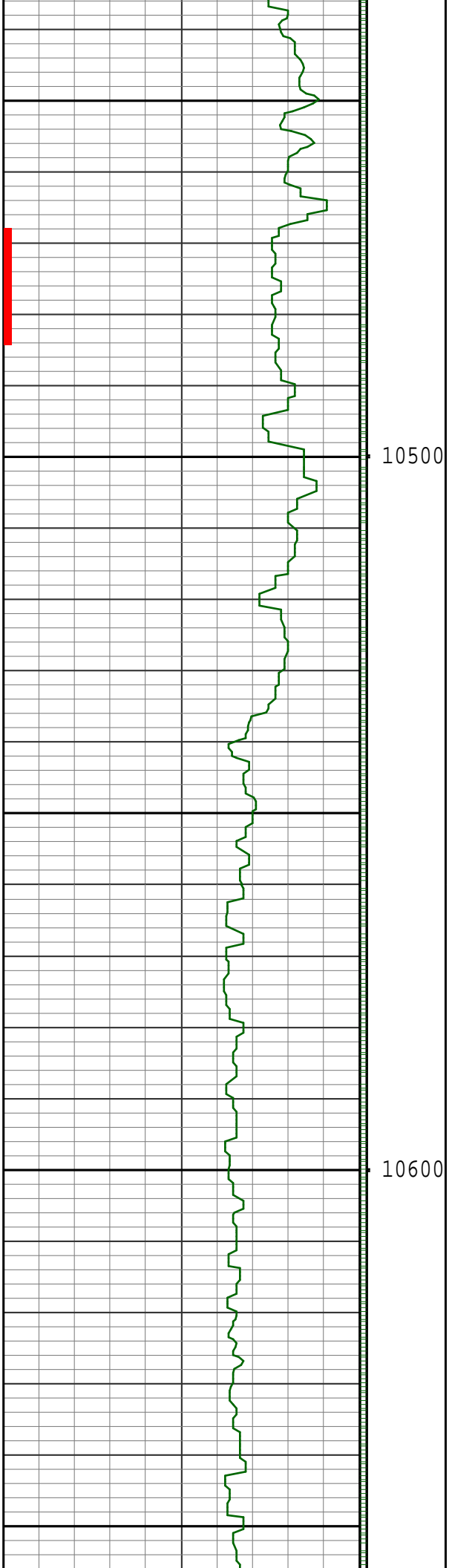
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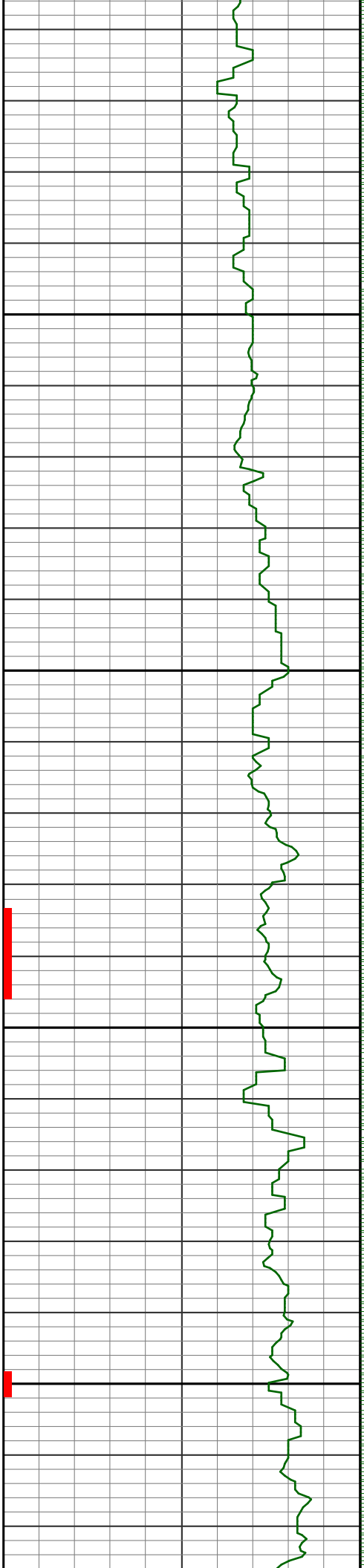






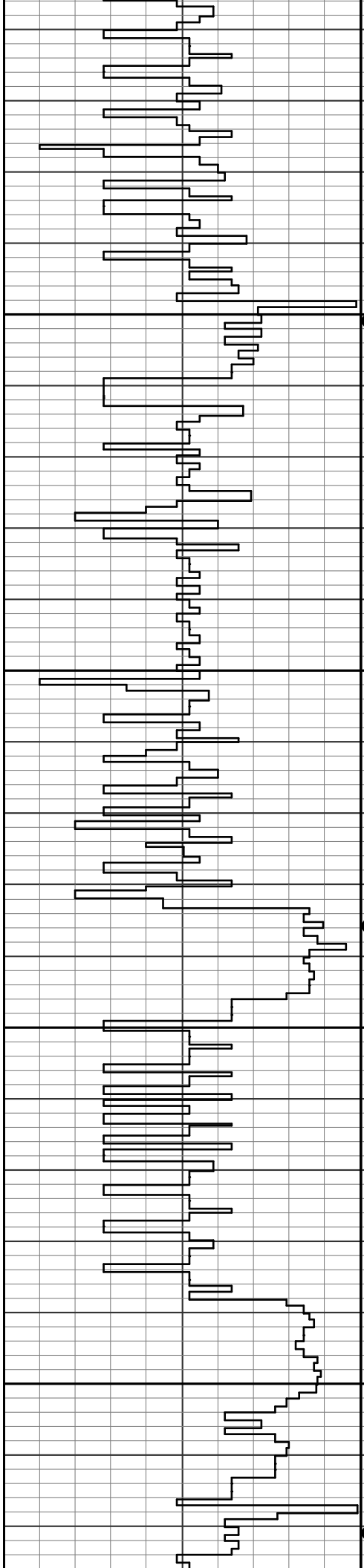






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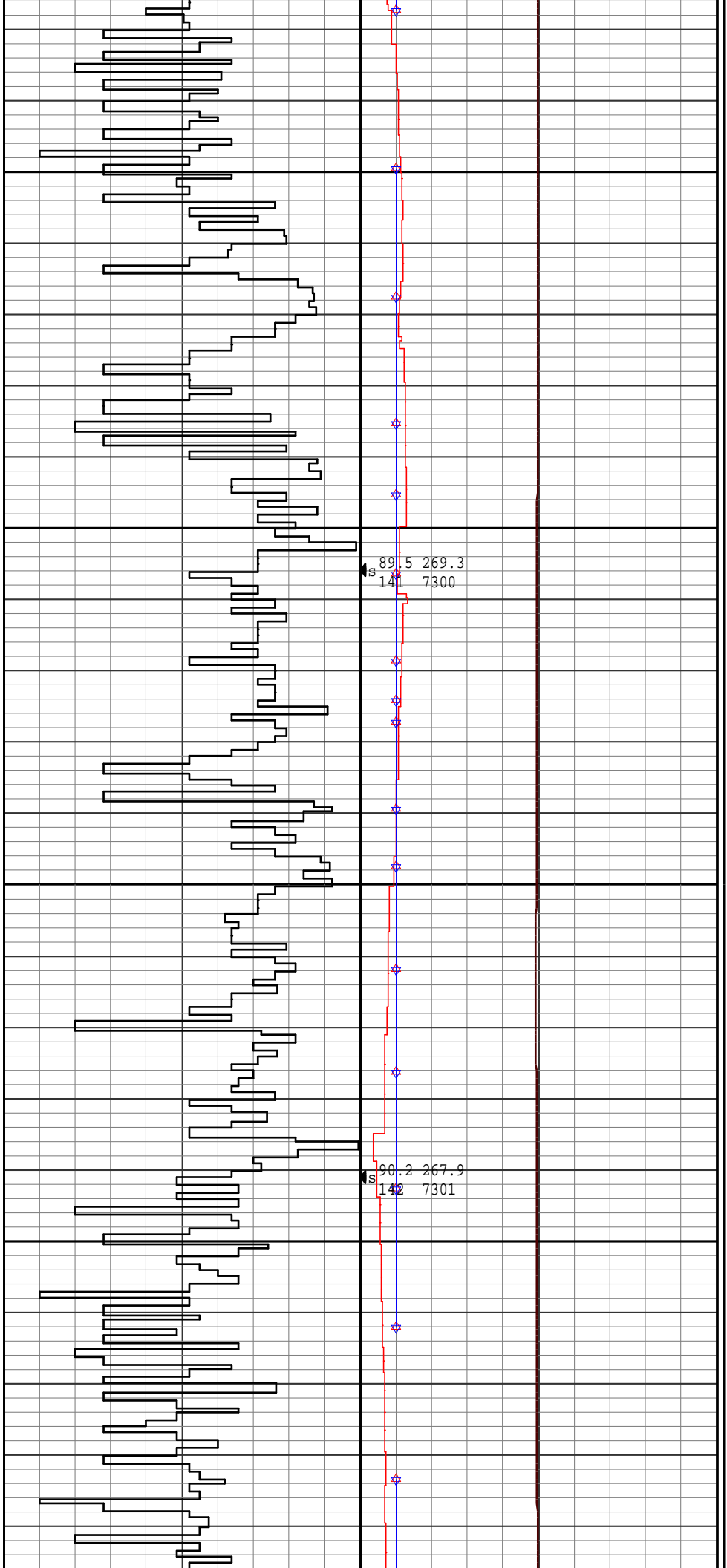
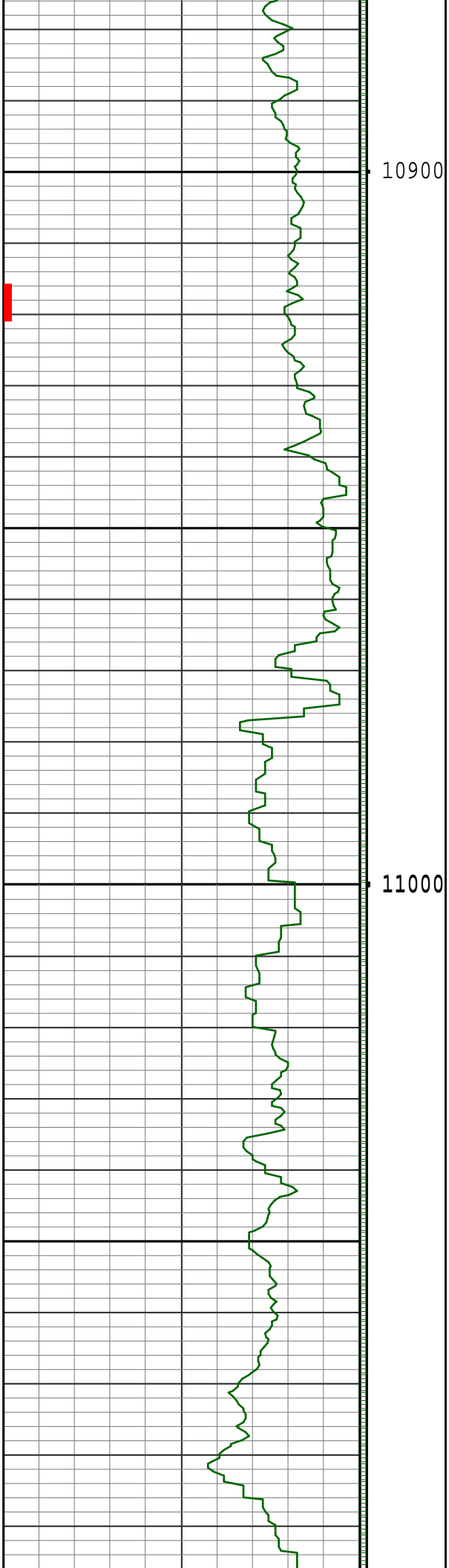
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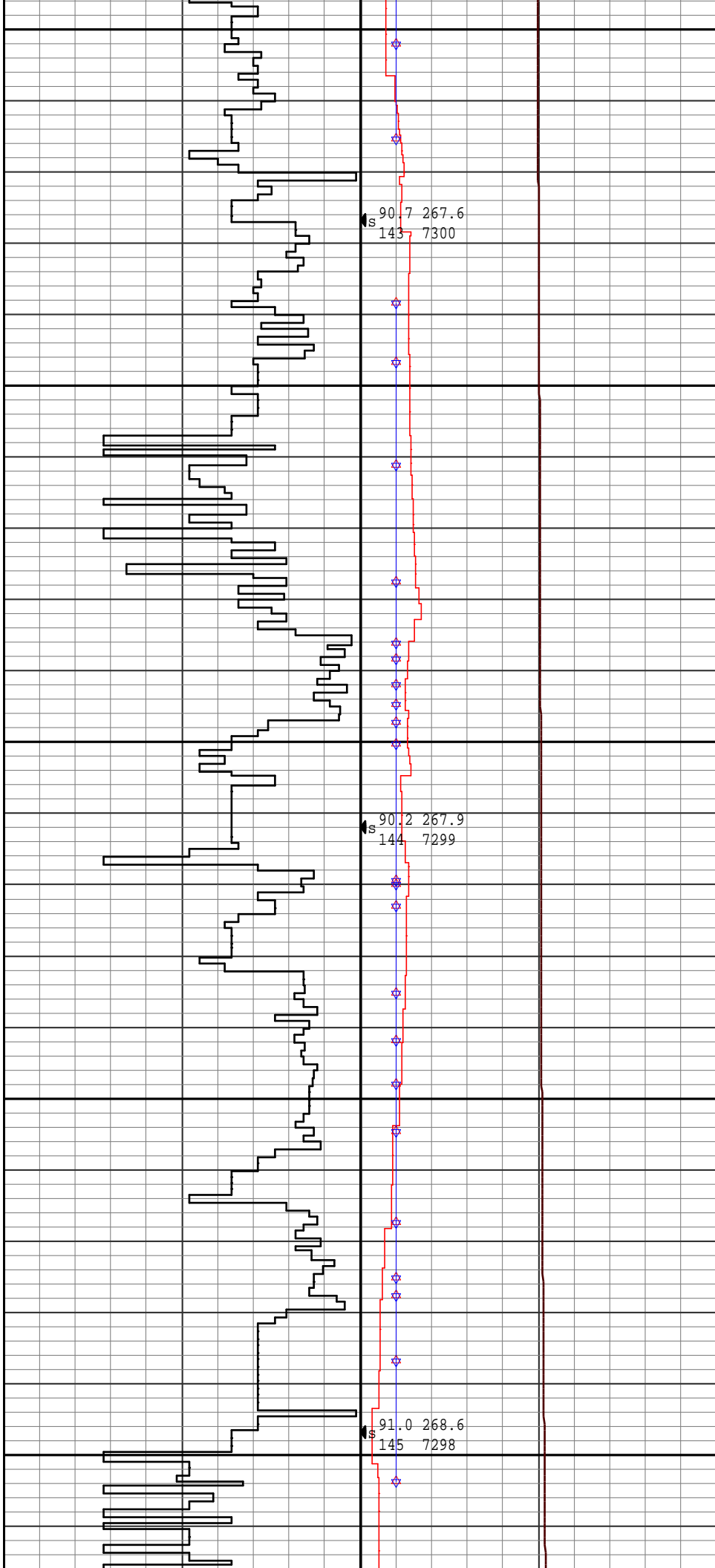
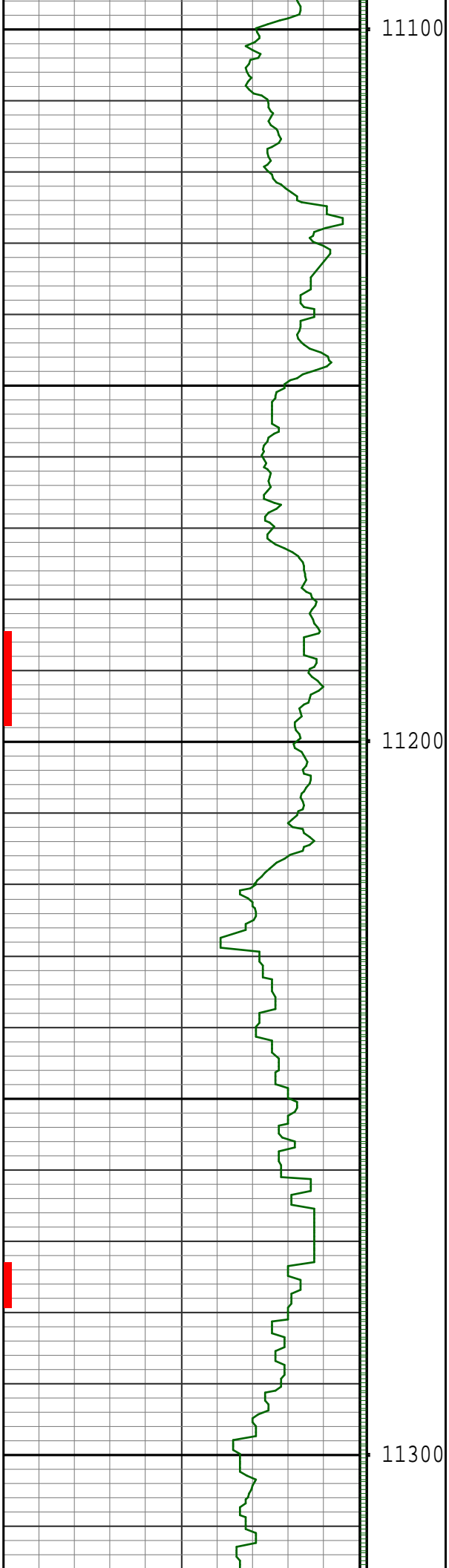


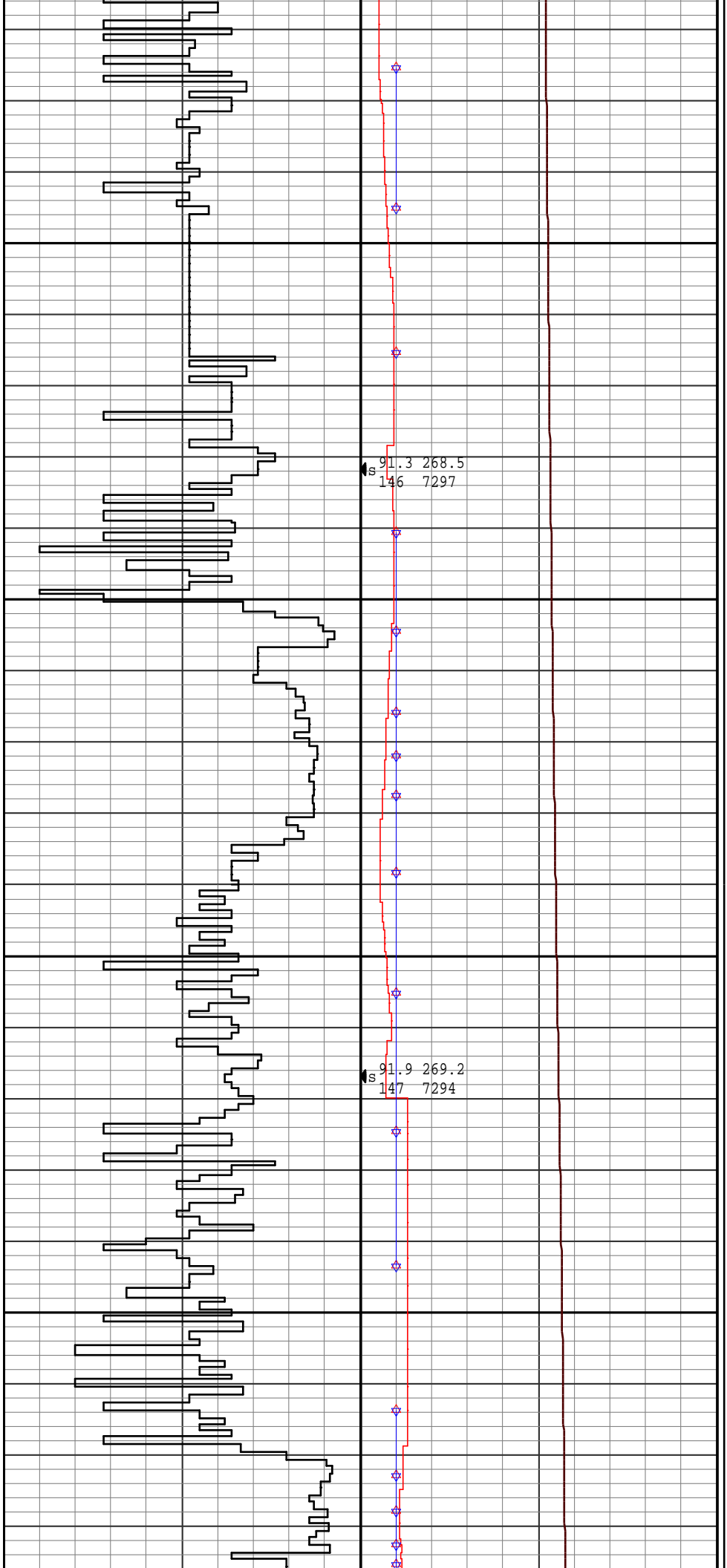
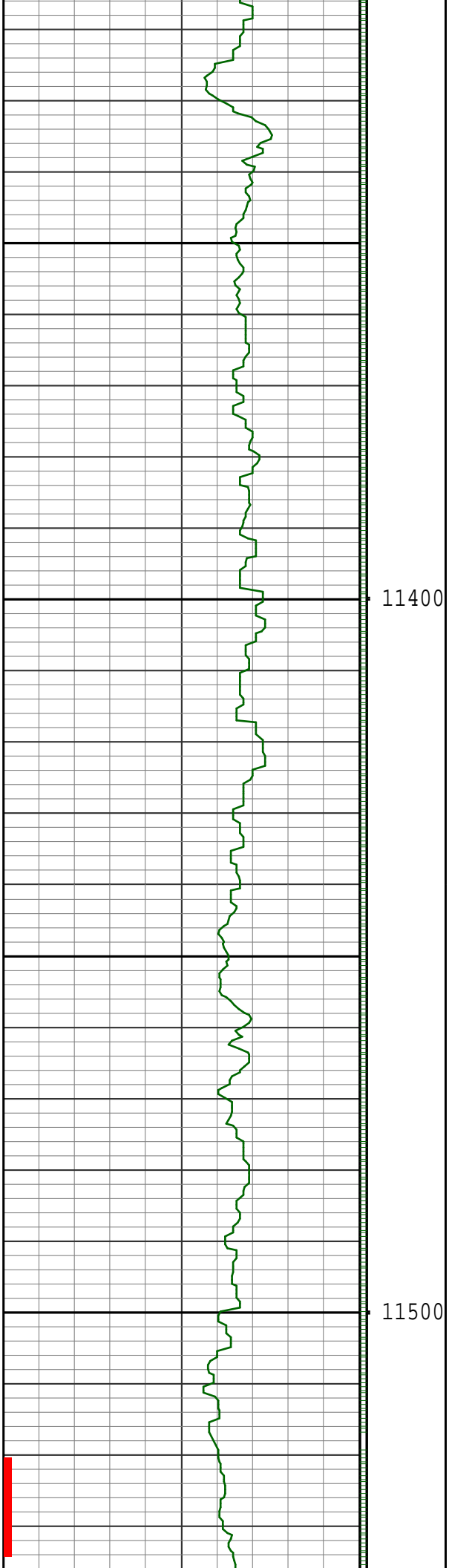
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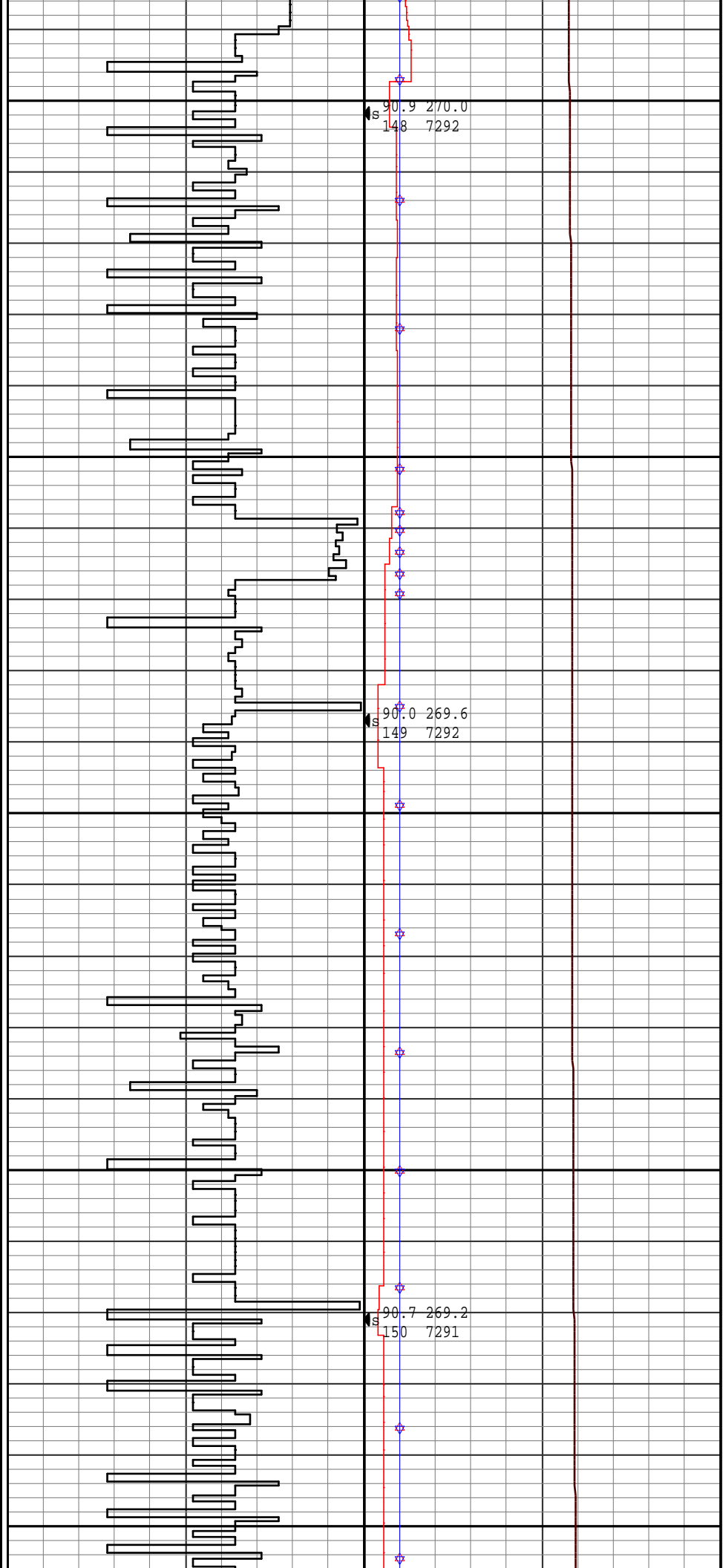
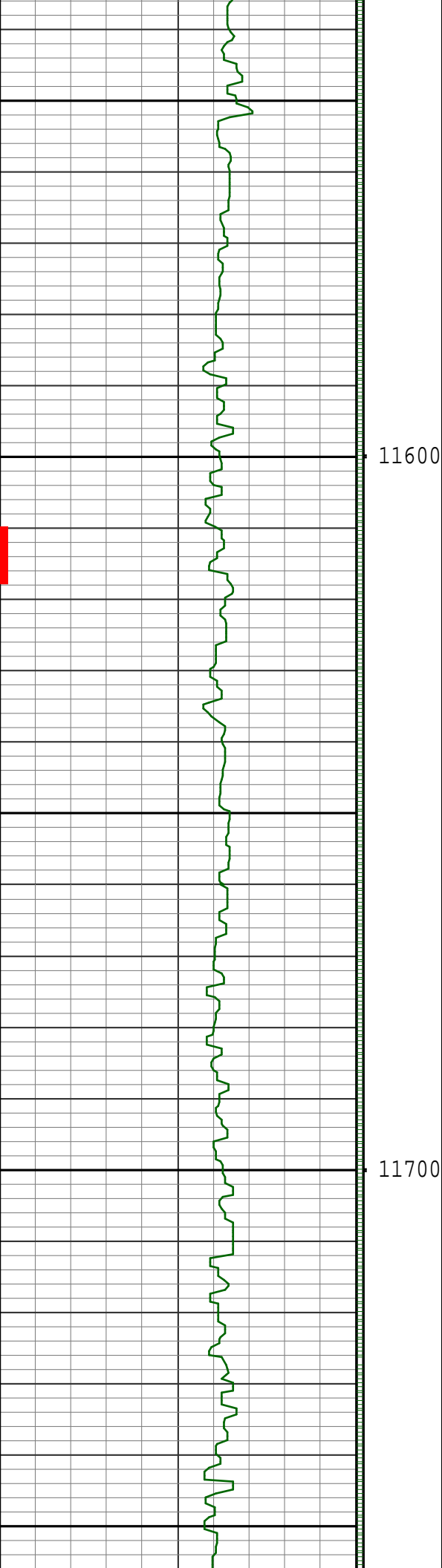
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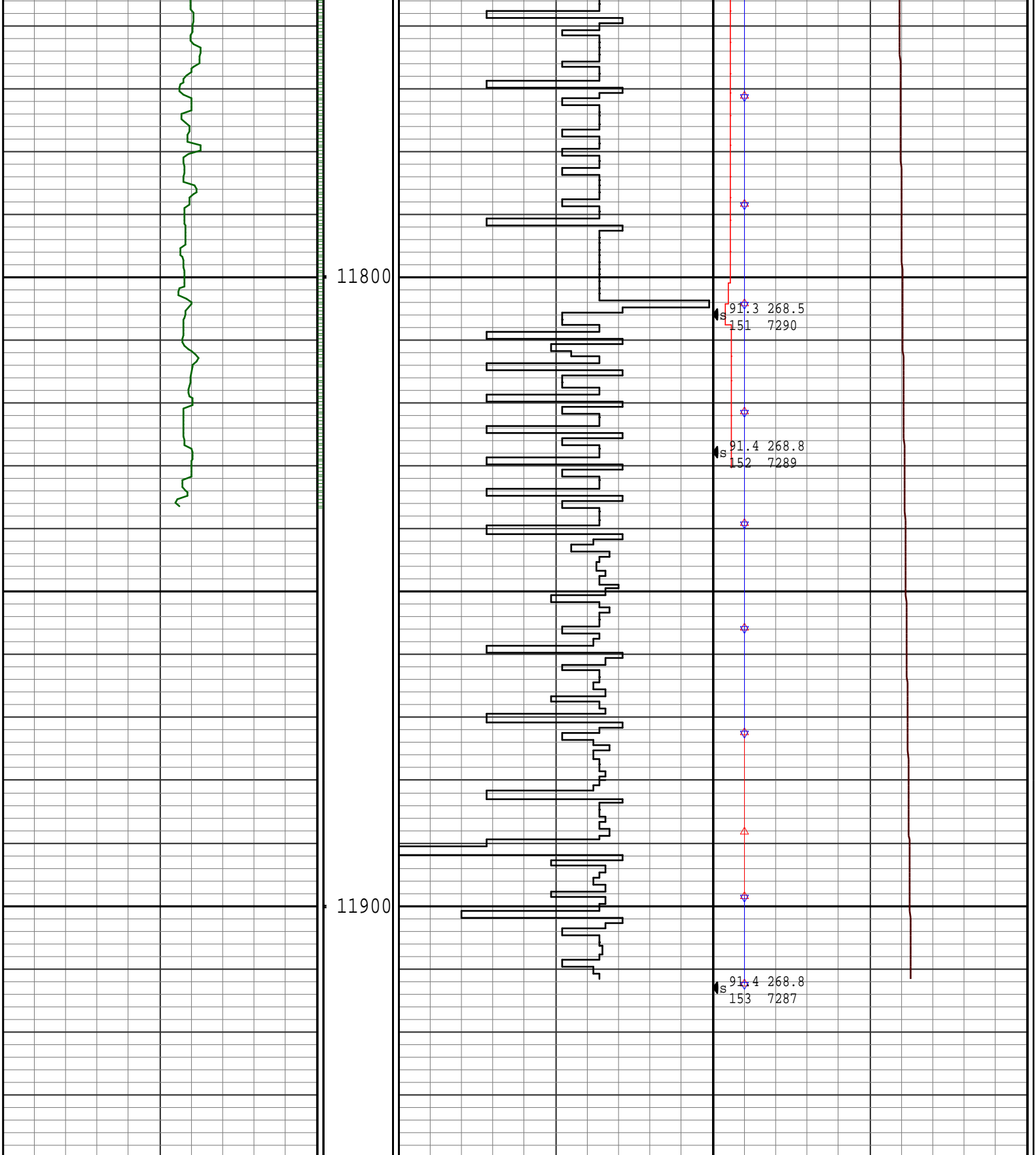
90.0 269.2  
140 7300











0	GRC API	150	VIBC CPS	500	ROP ft/hr	0	7350	TVD ft	7250
avg = 6 in			VIBC CPS	avg = 1 ft			avg = 1 ft		
SLIDE (BIT)			▽ ▽ ▽				0	GRFET Hr	10
			DEPTH				avg = 1 ft		
			MD ft				0	VIBXYG	20
			5" = 100ft				0	VIBXYG	20
			SHOES				0	VIBZG	20



				0	VIBZG	20
					COMMENTS	
					inc azi	
					# TVD	

Survey Report

Vertical Section Plane: 273.13°	Total Correction: 8.54° East to True
Calculation Method: Minimum Curvature	Survey Reference: Wellhead
North Aligned to: True North	Well: POSTLE IC #11-342HC

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Sub Sea TVD (ft)	Vertical Section (ft)	Rect Co-ord North (ft)	Rect Co-ord East (ft)	Closure Distance (ft)	Closure Direction (deg)	Dog-leg Severity (dg/hft)	Temp (deg F)
ORIGIN OF WELL AT SURFACE.											
0.00	0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00		
THE FOLLOWING ARE PRECISION MWD SURVEYS.											
140.00	0.70	205.10	140.00	140.00	0.32	0.77 S	0.36 W	0.86	205.10	0.50	
232.00	0.30	216.00	231.99	231.99	0.66	1.48 S	0.74 W	1.65	206.68	0.45	
325.00	0.90	205.90	324.99	324.99	1.08	2.33 S	1.20 W	2.63	207.32	0.65	
417.00	1.20	205.60	416.97	416.97	1.72	3.85 S	1.94 W	4.31	206.70	0.33	
509.00	1.30	190.50	508.95	508.95	2.23	5.75 S	2.54 W	6.28	203.87	0.37	
602.00	1.10	191.20	601.93	601.93	2.49	7.66 S	2.91 W	8.19	200.80	0.21	
694.00	0.60	178.90	693.92	693.92	2.57	9.01 S	3.07 W	9.52	198.83	0.58	
784.00	0.20	191.70	783.92	783.92	2.56	9.63 S	3.09 W	10.12	197.81	0.45	
877.00	0.30	76.90	876.92	876.92	2.35	9.74 S	2.89 W	10.16	196.53	0.46	
969.00	0.40	39.30	968.91	968.91	1.93	9.43 S	2.45 W	9.75	194.57	0.27	
1000.00	0.30	56.70	999.91	999.91	1.80	9.30 S	2.32 W	9.59	193.97	0.47	
1092.00	0.60	354.70	1091.91	1091.91	1.68	8.69 S	2.16 W	8.96	193.95	0.58	
1177.00	0.90	342.50	1176.90	1176.90	1.98	7.61 S	2.40 W	7.98	197.50	0.40	
1262.00	0.80	335.80	1261.90	1261.90	2.49	6.43 S	2.84 W	7.04	203.85	0.17	
1348.00	1.00	329.70	1347.88	1347.88	3.18	5.24 S	3.47 W	6.28	213.51	0.26	
1433.00	0.90	326.90	1432.87	1432.87	3.98	4.04 S	4.21 W	5.83	226.17	0.13	
1519.00	0.90	325.50	1518.86	1518.86	4.79	2.92 S	4.96 W	5.75	239.54	0.03	
1604.00	1.10	320.20	1603.85	1603.85	5.76	1.74 S	5.86 W	6.11	253.46	0.26	
1689.00	1.10	321.30	1688.83	1688.83	6.86	0.48 S	6.89 W	6.91	266.05	0.02	
1774.00	1.40	330.40	1773.81	1773.81	7.96	1.06 N	7.92 W	7.99	277.65	0.42	
1859.00	1.60	165.00	1858.80	1858.80	8.15	0.82 N	8.12 W	8.16	275.77	3.50	
1945.00	1.60	166.20	1944.77	1944.77	7.43	1.51 S	7.52 W	7.67	258.68	0.04	
2030.00	1.60	134.00	2029.74	2029.74	6.19	3.48 S	6.39 W	7.27	241.40	1.04	
2115.00	0.90	41.80	2114.72	2114.72	4.87	3.81 S	5.09 W	6.36	233.18	2.20	
2208.00	0.70	29.50	2207.71	2207.71	4.16	2.77 S	4.32 W	5.13	237.34	0.28	
2300.00	0.90	37.20	2299.71	2299.71	3.51	1.71 S	3.61 W	3.99	244.70	0.25	
2393.00	1.00	27.50	2392.69	2392.69	2.77	0.40 S	2.79 W	2.82	261.77	0.20	
2485.00	1.10	20.50	2484.68	2484.68	2.17	1.14 N	2.11 W	2.40	298.26	0.18	
2577.00	1.10	14.90	2576.66	2576.66	1.73	2.82 N	1.58 W	3.23	330.77	0.12	
2670.00	1.10	1.70	2669.64	2669.64	1.57	4.57 N	1.32 W	4.76	343.90	0.27	
2762.00	1.10	3.40	2761.63	2761.63	1.59	6.34 N	1.24 W	6.46	348.92	0.03	
2852.00	0.50	155.80	2851.62	2851.62	1.40	6.84 N	1.03 W	6.92	351.45	1.73	
2945.00	0.70	131.10	2944.62	2944.62	0.77	6.10 N	0.43 W	6.11	355.92	0.35	
3037.00	0.50	134.00	3036.61	3036.61	0.02	5.45 N	0.28 E	5.45	2.92	0.22	
3130.00	0.30	142.50	3129.61	3129.61	-0.45	4.97 N	0.72 E	5.02	8.22	0.22	
3222.00	0.30	142.00	3221.61	3221.61	-0.76	4.59 N	1.01 E	4.70	12.44	0.00	
3314.00	0.40	140.00	3313.61	3313.61	-1.14	4.16 N	1.37 E	4.37	18.22	0.11	
3407.00	0.50	117.20	3406.60	3406.60	-1.73	3.72 N	1.94 E	4.20	27.50	0.22	
3500.00	0.40	105.00	3499.60	3499.60	-2.42	3.45 N	2.61 E	4.33	37.11	0.15	
3585.00	0.20	131.10	3584.60	3584.60	-2.83	3.28 N	3.01 E	4.45	42.56	0.28	
3671.00	0.20	90.30	3670.60	3670.60	-3.09	3.18 N	3.27 E	4.56	45.84	0.16	
3756.00	0.20	142.50	3755.60	3755.60	-3.34	3.06 N	3.51 E	4.66	48.94	0.21	
3841.00	0.10	114.90	3840.60	3840.60	-3.51	2.91 N	3.67 E	4.68	51.58	0.14	
3927.00	0.20	151.10	3926.60	3926.60	-3.65	2.75 N	3.81 E	4.70	54.20	0.16	
4012.00	0.30	112.30	4011.60	4011.60	-3.94	2.53 N	4.09 E	4.81	58.21	0.23	
4097.00	0.10	124.20	4096.60	4096.60	-4.22	2.41 N	4.35 E	4.98	61.07	0.24	
4183.00	0.10	240.90	4182.60	4182.60	-4.22	2.33 N	4.35 E	4.94	61.85	0.20	
4268.00	0.10	115.80	4267.60	4267.60	-4.22	2.26 N	4.35 E	4.91	62.56	0.21	
4353.00	0.10	166.60	4352.60	4352.60	-4.31	2.16 N	4.44 E	4.93	64.09	0.10	
4438.00	0.10	179.20	4437.60	4437.60	-4.34	2.01 N	4.46 E	4.89	65.72	0.03	
4524.00	0.10	299.60	4523.60	4523.60	-4.28	1.97 N	4.39 E	4.81	65.82	0.20	
4609.00	0.10	344.50	4608.60	4608.60	-4.19	2.08 N	4.31 E	4.78	64.23	0.09	
4694.00	0.10	342.30	4693.60	4693.60	-4.14	2.22 N	4.26 E	4.81	62.48	0.01	
4779.00	0.10	0.10	4778.60	4778.60	-4.11	2.37 N	4.24 E	4.86	60.84	0.04	
4865.00	0.60	309.00	4864.59	4864.59	-3.74	2.73 N	3.89 E	4.75	55.00	0.63	
4950.00	0.40	315.80	4949.59	4949.59	-3.16	3.22 N	3.34 E	4.64	46.06	0.24	
5035.00	0.80	298.80	5034.59	5034.59	-2.41	3.72 N	2.61 E	4.54	35.11	0.51	
5120.00	0.50	291.00	5119.58	5119.58	-1.52	4.14 N	1.75 E	4.49	22.90	0.37	
5206.00	0.40	292.40	5205.58	5205.58	-0.88	4.38 N	1.12 E	4.52	14.32	0.12	
5291.00	0.30	266.60	5290.58	5290.58	-0.38	4.48 N	0.62 E	4.53	7.90	0.22	
5376.00	0.20	278.70	5375.58	5375.58	-0.01	4.49 N	0.25 E	4.50	3.23	0.13	
5461.00	0.50	269.60	5460.57	5460.57	0.51	4.51 N	0.26 W	4.52	356.65	0.36	
5547.00	0.60	234.40	5546.57	5546.57	1.24	4.25 N	1.01 W	4.37	346.69	0.40	
5632.00	0.60	217.00	5631.57	5631.57	1.83	3.63 N	1.64 W	3.98	335.77	0.21	
5717.00	2.80	313.00	5716.53	5716.53	3.67	4.69 N	3.42 W	5.81	323.91	3.44	

5802.00	5.70	326.20	5801.29	5801.29	7.80	9.62 N	7.29 W	12.07	322.85	3.58
5887.00	5.00	323.40	5885.92	5885.92	12.71	16.10 N	11.85 W	19.99	323.66	0.88
5973.00	5.70	320.00	5971.55	5971.55	18.02	22.38 N	16.83 W	28.00	323.07	0.89

Survey Report											
Vertical Section Plane: 273.13°						Total Correction: 8.54° East to True					
Calculation Method: Minimum Curvature						Survey Reference: Wellhead					
North Aligned to: True North						Well: POSTLE IC #11-342HC					
Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Sub Sea TVD (ft)	Vertical Section (ft)	Rect Co-ord North (ft)	Rect Co-ord East (ft)	Closure Distance (ft)	Closure Direction (deg)	Dog-leg Severity (dg/hft)	Temp (deg F)
6058.00	8.60	318.40	6055.88	6055.88	25.38	30.37 N	23.76 W	38.56	321.96	3.42	
6143.00	10.50	317.00	6139.69	6139.69	35.44	40.79 N	33.26 W	52.63	320.80	2.25	
6228.00	12.00	316.70	6223.06	6223.06	47.43	52.88 N	44.60 W	69.18	319.85	1.77	
6314.00	15.70	320.90	6306.54	6306.54	61.73	68.42 N	58.08 W	89.75	319.67	4.46	
6399.00	18.70	322.30	6387.73	6387.73	78.37	88.14 N	73.67 W	114.87	320.11	3.56	
6484.00	16.70	319.00	6468.71	6468.71	95.79	108.14 N	90.02 W	140.70	320.22	2.63	
6570.00	19.30	318.80	6550.49	6550.49	114.32	128.16 N	107.49 W	167.27	320.01	3.02	
6655.00	18.50	317.90	6630.91	6630.91	133.71	148.73 N	125.78 W	194.79	319.78	1.00	
6740.00	16.50	313.50	6711.98	6711.98	152.49	167.05 N	143.58 W	220.28	319.32	2.82	
6783.00	15.60	310.90	6753.30	6753.30	161.71	175.04 N	152.38 W	232.08	318.96	2.68	
6826.00	14.60	309.30	6794.81	6794.81	170.66	182.26 N	160.94 W	243.15	318.55	2.52	
6868.00	18.80	300.30	6835.04	6835.04	180.96	189.03 N	170.89 W	254.83	317.89	11.72	
6911.00	25.10	295.10	6874.91	6874.91	195.60	196.40 N	185.15 W	269.91	316.69	15.32	
6954.00	33.20	293.70	6912.43	6912.43	215.11	205.02 N	204.22 W	289.37	315.11	18.90	
6996.00	39.00	292.40	6946.35	6946.35	238.37	214.68 N	226.99 W	312.43	313.40	13.93	
7039.00	42.40	293.00	6978.95	6978.95	264.78	225.51 N	252.85 W	338.80	311.73	7.96	
7082.00	42.10	291.20	7010.78	7010.78	292.12	236.39 N	279.63 W	366.16	310.21	2.90	
7124.00	43.40	285.40	7041.63	7041.63	319.62	245.31 N	306.68 W	392.72	308.66	9.87	
7167.00	48.20	280.10	7071.61	7071.61	349.99	252.05 N	336.73 W	420.62	306.82	14.23	
7210.00	52.30	278.20	7099.10	7099.10	382.86	257.29 N	369.36 W	450.14	304.86	10.12	
7252.00	55.90	277.30	7123.73	7123.73	416.77	261.87 N	403.07 W	480.67	303.01	8.75	
7295.00	59.20	276.80	7146.79	7146.79	452.96	266.32 N	439.08 W	513.53	301.24	7.74	
7337.00	62.40	277.00	7167.28	7167.28	489.54	270.73 N	475.47 W	547.14	299.66	7.63	
7380.00	65.70	275.90	7186.10	7186.10	528.14	275.07 N	513.88 W	582.87	298.16	8.01	
7422.00	68.40	274.70	7202.47	7202.47	566.78	278.63 N	552.39 W	618.68	296.77	6.95	
7465.00	71.80	273.80	7217.11	7217.11	607.20	281.63 N	592.70 W	656.21	295.42	8.15	
7507.00	74.70	272.90	7229.21	7229.21	647.41	283.97 N	632.85 W	693.64	294.17	7.20	
7541.00	76.60	272.20	7237.64	7237.64	680.35	285.44 N	665.75 W	724.36	293.21	5.93	
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.											
7633.00	79.23	272.91	7256.90	7256.90	770.29	289.45 N	755.62 W	809.16	290.96	2.96	169.69
7675.00	81.51	274.44	7263.92	7263.92	811.70	292.11 N	796.94 W	848.78	290.13	6.51	173.31
7718.00	84.50	274.07	7269.16	7269.16	854.36	295.27 N	839.49 W	889.91	289.38	7.01	173.31
7761.00	84.86	273.70	7273.15	7273.15	897.17	298.17 N	882.21 W	931.24	288.67	1.20	173.31
7803.00	86.09	271.90	7276.46	7276.46	939.04	300.22 N	924.03 W	971.57	288.00	5.18	173.31
7846.00	86.88	272.40	7279.10	7279.10	981.95	301.83 N	966.91 W	1012.93	287.34	2.17	176.92
7889.00	89.43	271.22	7280.48	7280.48	1024.91	303.19 N	1009.87 W	1054.40	286.71	6.53	176.92
7974.00	90.48	266.93	7280.55	7280.55	1109.68	301.81 N	1094.83 W	1135.67	285.41	5.20	180.54
8059.00	88.81	265.95	7281.07	7281.07	1194.10	296.54 N	1179.66 W	1216.36	284.11	2.28	184.15
8144.00	86.97	264.84	7284.20	7284.20	1278.26	289.72 N	1264.33 W	1297.10	282.91	2.53	184.15
8187.00	86.79	265.77	7286.54	7286.54	1320.80	286.20 N	1307.12 W	1338.08	282.35	2.20	184.15
8230.00	87.05	267.11	7288.85	7288.85	1363.44	283.54 N	1349.97 W	1379.43	281.86	3.17	184.15
8272.00	87.14	269.64	7290.98	7290.98	1405.24	282.35 N	1391.90 W	1420.25	281.47	6.02	184.15
8315.00	88.37	272.01	7292.67	7292.67	1448.17	282.97 N	1434.86 W	1462.49	281.16	6.21	184.15
8400.00	89.43	272.46	7294.30	7294.30	1533.14	286.28 N	1519.78 W	1546.50	280.67	1.36	187.76
8485.00	89.87	272.96	7294.82	7294.82	1618.14	290.30 N	1604.68 W	1630.73	280.25	0.78	191.38
8571.00	91.63	273.08	7293.69	7293.69	1704.12	294.83 N	1690.55 W	1716.06	279.89	2.05	191.38
8656.00	91.63	270.02	7291.27	7291.27	1789.05	297.13 N	1775.47 W	1800.16	279.50	3.60	191.38
8741.00	90.92	268.81	7289.38	7289.38	1873.85	296.26 N	1860.44 W	1883.89	279.05	1.65	191.38
8826.00	89.78	267.77	7288.86	7288.86	1958.54	293.72 N	1945.40 W	1967.45	278.59	1.82	194.99
8911.00	89.52	266.61	7289.38	7289.38	2043.08	289.56 N	2030.30 W	2050.84	278.12	1.40	194.99
8997.00	89.69	266.44	7289.98	7289.98	2128.51	284.34 N	2116.14 W	2135.16	277.65	0.28	191.38
9082.00	89.43	267.24	7290.63	7290.63	2212.99	279.66 N	2201.00 W	2218.70	277.24	0.99	194.99
9167.00	89.25	268.38	7291.61	7291.61	2297.62	276.41 N	2285.94 W	2302.59	276.89	1.36	194.99
9253.00	90.04	269.97	7292.14	7292.14	2383.41	275.17 N	2371.92 W	2387.83	276.62	2.06	198.61
9338.00	89.96	269.68	7292.14	7292.14	2468.27	274.91 N	2456.92 W	2472.25	276.38	0.35	198.61
9423.00	89.87	269.55	7292.27	7292.27	2553.11	274.34 N	2541.92 W	2556.68	276.16	0.19	198.61
9508.00	90.57	268.81	7291.94	7291.94	2637.90	273.13 N	2626.91 W	2641.07	275.94	1.20	202.22
9594.00	91.10	267.68	7290.69	7290.69	2723.58	270.49 N	2712.86 W	2726.31	275.69	1.45	202.22
9679.00	90.22	266.61	7289.71	7289.71	2808.11	266.26 N	2797.74 W	2810.39	275.44	1.63	202.22
9764.00	88.46	266.46	7290.69	7290.69	2892.54	261.12 N	2882.58 W	2894.38	275.18	2.08	202.22
9850.00	87.76	267.94	7293.52	7293.52	2978.03	256.92 N	2968.43 W	2979.53	274.95	1.90	205.83
9935.00	88.20	269.37	7296.52	7296.52	3062.71	254.93 N	3053.35 W	3063.97	274.77	1.76	209.45
10020.00	88.55	269.93	7298.93	7298.93	3147.52	254.41 N	3138.31 W	3148.61	274.63	0.78	209.45
10106.00	88.20	271.59	7301.37	7301.37	3233.41	255.55 N	3224.27 W	3234.38	274.53	1.97	209.45
10191.00	89.52	274.36	7303.06	7303.06	3318.38	259.96 N	3309.13 W	3319.32	274.49	3.61	209.45
10276.00	90.04	274.18	7303.39	7303.39	3403.37	266.29 N	3393.89 W	3404.32	274.49	0.65	213.06
10361.00	90.48	274.02	7303.00	7303.00	3488.35	272.37 N	3478.67 W	3489.32	274.48	0.55	216.68
10446.00	91.01	273.58	7301.90	7301.90	3573.34	278.00 N	3563.48 W	3574.30	274.46	0.81	213.06
10531.00	89.60	270.54	7301.44	7301.44	3658.31	281.05 N	3648.41 W	3659.22	274.41	3.94	216.68
10616.00	90.13	270.05	7301.64	7301.64	3743.21	281.49 N	3733.41 W	3744.00	274.31	0.85	216.68
10701.00	90.48	269.35	7301.19	7301.19	3828.05	281.05 N	3818.40 W	3828.73	274.21	0.92	216.68

Survey Report											
Vertical Section Plane: 273.13°						Total Correction: 8.54° East to True					
Calculation Method: Minimum Curvature						Survey Reference: Wellhead					
North Aligned to: True North						Well: POSTLE IC #11-342HC					
Measured Depth (ft)	Inclination  (deg)	Azimuth  (deg)	TVD  (ft)	Sub Sea TVD (ft)	Vertical Section (ft)	Rect Co-ord North (ft)	Rect Co-ord East (ft)	Closure Distance (ft)	Closure Direction (deg)	Dog-leg Severity (dg/hft)	Temp  (deg F)
10786.00	90.57	269.24	7300.41	7300.41	3912.86	280.00 N	3903.39 W	3913.42	274.10	0.17	213.06
10871.00	89.96	269.19	7300.02	7300.02	3997.66	278.84 N	3988.38 W	3998.12	274.00	0.72	216.68
10956.00	89.52	269.34	7300.40	7300.40	4082.46	277.75 N	4073.37 W	4082.83	273.90	0.55	216.68
11041.00	90.22	267.86	7300.60	7300.60	4167.20	275.67 N	4158.35 W	4167.47	273.79	1.93	220.29
11127.00	90.66	267.60	7299.94	7299.94	4252.81	272.26 N	4244.28 W	4253.00	273.67	0.59	216.68
11212.00	90.22	267.90	7299.28	7299.28	4337.43	268.93 N	4329.21 W	4337.55	273.55	0.63	216.68
11297.00	91.01	268.60	7298.37	7298.37	4422.12	266.33 N	4414.16 W	4422.19	273.45	1.24	216.68
11382.00	91.28	268.51	7296.67	7296.67	4506.83	264.19 N	4499.12 W	4506.87	273.36	0.34	216.68
11467.00	91.89	269.16	7294.32	7294.32	4591.56	262.46 N	4584.07 W	4591.57	273.28	1.05	216.68
11552.00	90.92	270.05	7292.24	7292.24	4676.37	261.87 N	4669.04 W	4676.38	273.21	1.55	216.68
11637.00	90.04	269.64	7291.53	7291.53	4761.23	261.64 N	4754.03 W	4761.23	273.15	1.14	220.29
11721.00	90.66	269.25	7291.01	7291.01	4845.05	260.83 N	4838.03 W	4845.05	273.09	0.87	220.29
11806.00	91.28	268.55	7289.57	7289.57	4929.81	259.20 N	4923.00 W	4929.82	273.01	1.10	220.29
11828.00	91.45	268.82	7289.05	7289.05	4951.73	258.69 N	4944.99 W	4951.75	272.99	1.45	220.29
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 11913'MD.											
11913.00	91.45	268.82	7286.90	7286.90	5036.47	256.94 N	5029.94 W	5036.50	272.92	0.00	

EQUIPMENT DATA						
RUN NUMBER	1					
RES DTA						
RES MANDREL						
RES SIZE in						
RES VERIFIER						
API BLANKET						
HDS-1M DTA						
HDS-1M MANDREL						
HDS-1M SIZE in						
DNSC DTA	47106					
DNSC MANDREL	N47M-106D					
DNSC SIZE in	4 3/4					
DENSITY SOURCE NO.	5133GW					
NEUTRON SOURCE NO.						
CLSS DTA						
CLSS MANDREL						
CLSS SIZE in						
DPM DTA						
DPM SIZE in						
DFT DTA						
DFT MANDREL						
DFT SIZE in						
PZIG UXM DTA						
PZIG LXM DTA						
PZIG SIZE in						

BOTTOM HOLE ASSEMBLY RECORD						

RUN 1	ft						
6.125" PDC BIT	0.86						
1.83° MUD MOTOR	29.26						
FLOAT SUB	2.35						
IDNSC (DEN/INC)	18.98						
ABS (BATTERY)	14.76						
X/O SUB	1.00						
HDS1-L (DIR/GR)	28.72						
NMDC	31.15						
NMDC	31.20						
X/O SUB	2.95						
DP	85.20						
REAMER	5.47						
DP X 18	1533.60						
AGITATOR	22.54						
DP X 40	3411.93						
HWDP X 15	1384.93						
TOTAL BHA:	6609.74						
SENSOR OFFSETS:							
IMG INCLINATION	42.76						
DENSITY	46.08						
CALIPER	47.54						
GAMMA-RAY	75.47						
DIRECTIONAL	83.55						

GAMMA-RAY



A Schlumberger Company

5" = 100'  
FEET MD