

Company : Santos Ltd.

Well : Mt Kitty 1

Field : Wildcat

Date : 12-Apr-2014

Time : 16:53



1 :: 500

METERS TVD

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COMPANY : Santos Ltd.
  WELL  : Mt Kitty 1
  FIELD  : Wildcat
  COUNTY :
    STATE : NT
  COUNTRY : AUSTRALIA
API WELL No. :

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LAT:25°30'22"S LON:132°47'48"E
X: 278555.720m Y: 7177161.523m
SEC: TWP: RANG:

DIRECTIONAL ROP

ELEVATION : 482.06 m (ROTARY TABLE - GROUND LEVEL)

WATER DEPTH : 476.91 m (GROUND LEVEL - MEAN SEA LEVEL)

DEVIATION RECORD

HOLE SIZE in	FROM m	TO m	INCLINATION deg	FROM m	TO m
12 1/4	0	788	00-06	0	2295
8 1/2	788	2295			
CASING RECORD					
CASING SIZE in	FROM m	TO m			
9 5/8	0	785			

LWD UNIT No.: 001 DISTRICT : ROMA

LWD START DATE : 02-APR-14 DEPTH : 784 m

LWD END DATE : 12-APR-14 DEPTH : 2295 m

TOTAL DEPTH : 2295 m

RUN DATA

RUN NUMBER	1	2	3			
START DATE	02-APR-14	05-APR-14	09-APR-14			
START TIME	18:15	15:00	20:00			
END DATE	05-APR-14	08-APR-14	12-APR-14			
END TIME	14:00	02:58	23:45			
DEPTH IN m	797	1326	1964			
DEPTH OUT m	1326	1964	2295			
LOG TOP m	785	1314	1952			
LOG BOTTOM m	1314	1952	2258			
HOLE SIZE in	8 1/2	8 1/2	8 1/2			
MUD DATA @ m	850	1450	2000			
MUD TYPE	AIR/FOAM	AIR/FOAM	AIR/FOAM			
DENSITY lb/gal	0.01	0.01	0.01			
VISCOSITY s/qt						
pH						
FLUID LOSS cm3/30						
SALINITY ppm						
Rm ohmm @ deg C	@	@	@			
Rmf ohmm @ deg C	@	@	@			

MAX REC TEMP deg C						
Rm @ MAX TEMP ohmm						
LWD ENGINEER #1	P DAWSON	P DAWSON	P DAWSON			
LWD ENGINEER #2	L DOUGLASS	L DOUGLASS	L DOUGLASS			
LWD ENGINEER #3						

REMARKS

*** FIELD PRINT ONLY ***

SANTOS LTD.

PATHFINDER - A SCHLUMBERGER COMPANY: JOB NO. 14AUS0039

ALL DATA IS REALTIME UNLESS STATED OTHERWISE.

ALL REFERENCE TO LOG TOP, LOG BOTTOM OR LOGGING TOOL DEPTH REFER TO GAMMA-RAY SENSOR UNLESS STATED OTHERWISE. SENSOR OFFSETS FOR THE LOGGING TOOLS ARE SHOWN IN THE BHA REPORT ON THE TRAILER.

ALL ANNOTATIONS IN THE DEPTH TRACK ARE REFERENCED TO THE BIT DEPTH.

RUN #1: 6 3/4" XEM / GAMMA-RAY LOGGING RUN.

RUN #2: 6 3/4" XEM / GAMMA-RAY LOGGING RUN.

RUN #3: 6 3/4" XEM / GAMMA-RAY LOGGING RUN.

REMARK #1: GAMMA-RAY HAS NOT BEEN EVIROMENTALLY CORRECTED FOR BOREHOLE.

REMARK #2: GAMMA-RAY UNAVAILABLE FROM 1830-1900m MD (1826-1896m TVD)

REMARK #3: GAMMA-RAY UNAVAILABLE FROM 2144-2149m MD (2139-2234m TVD)

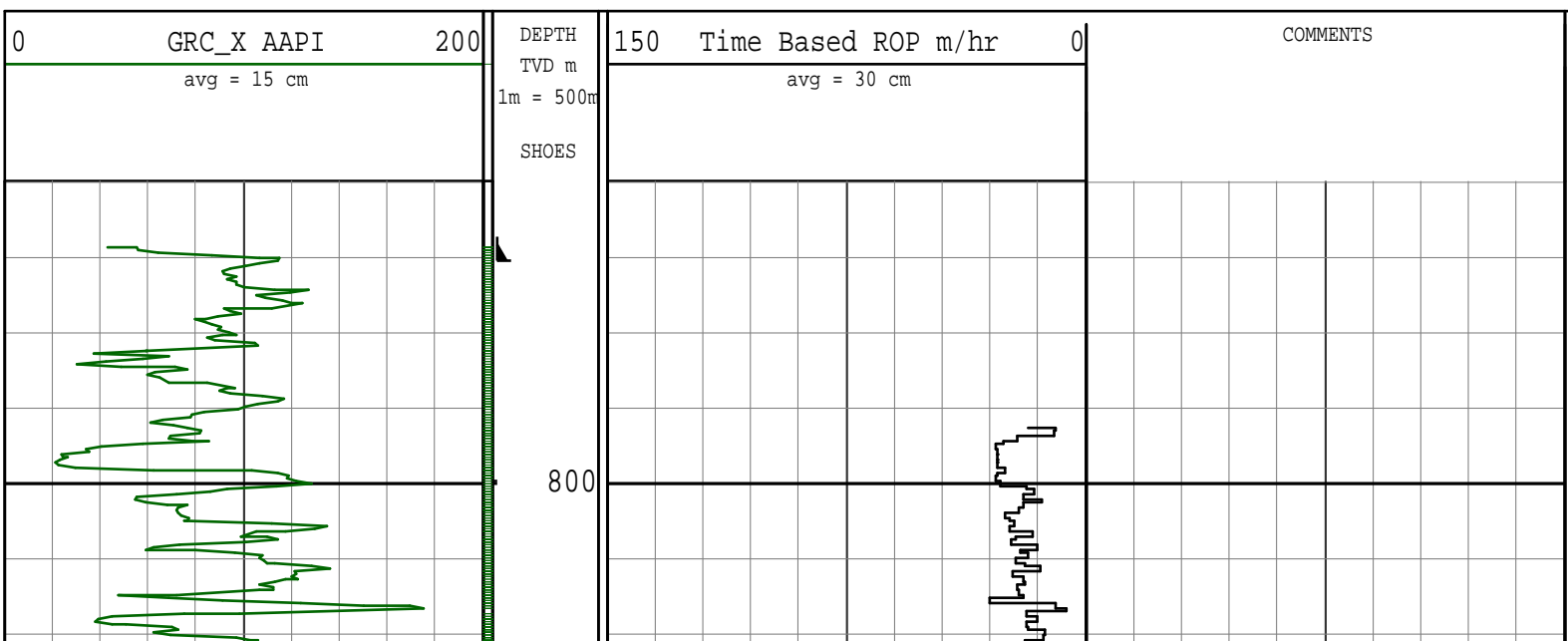
REMARK #4: GAMMA-RAY UNAVAILABLE FROM 2258-2279m MD (2253-2274m TVD)

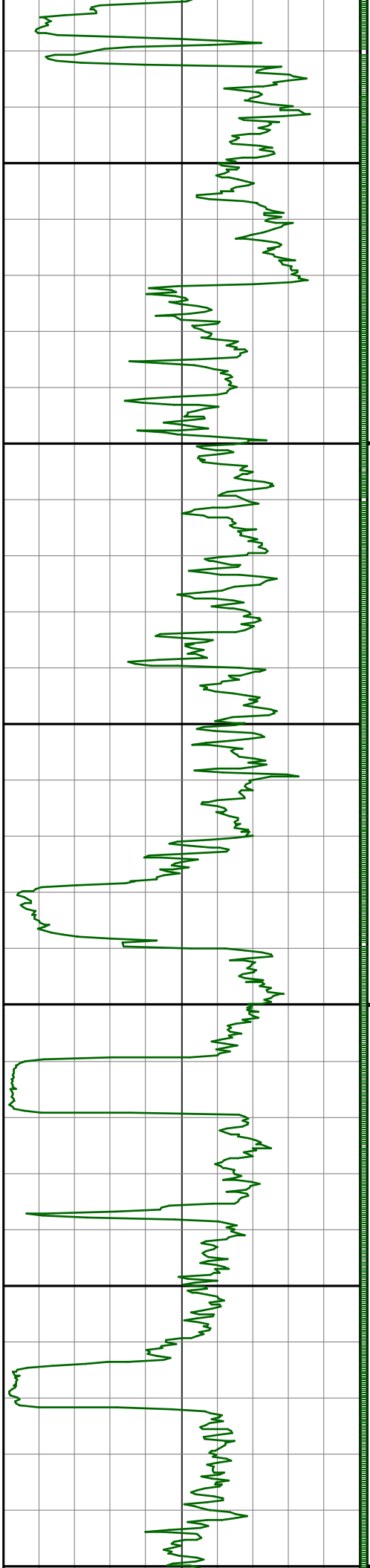
NOTICE - All interpretations are opinions based on inferences from electrical or other measurements and we do not guarantee the accuracy or correctness of any interpretations. We shall not, except in the case of gross or willful negligence on our part, be liable or responsible for loss, costs, damages 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 V6.05 Release 20Sep2013

Plot Time : 12-Apr-2014 16:52

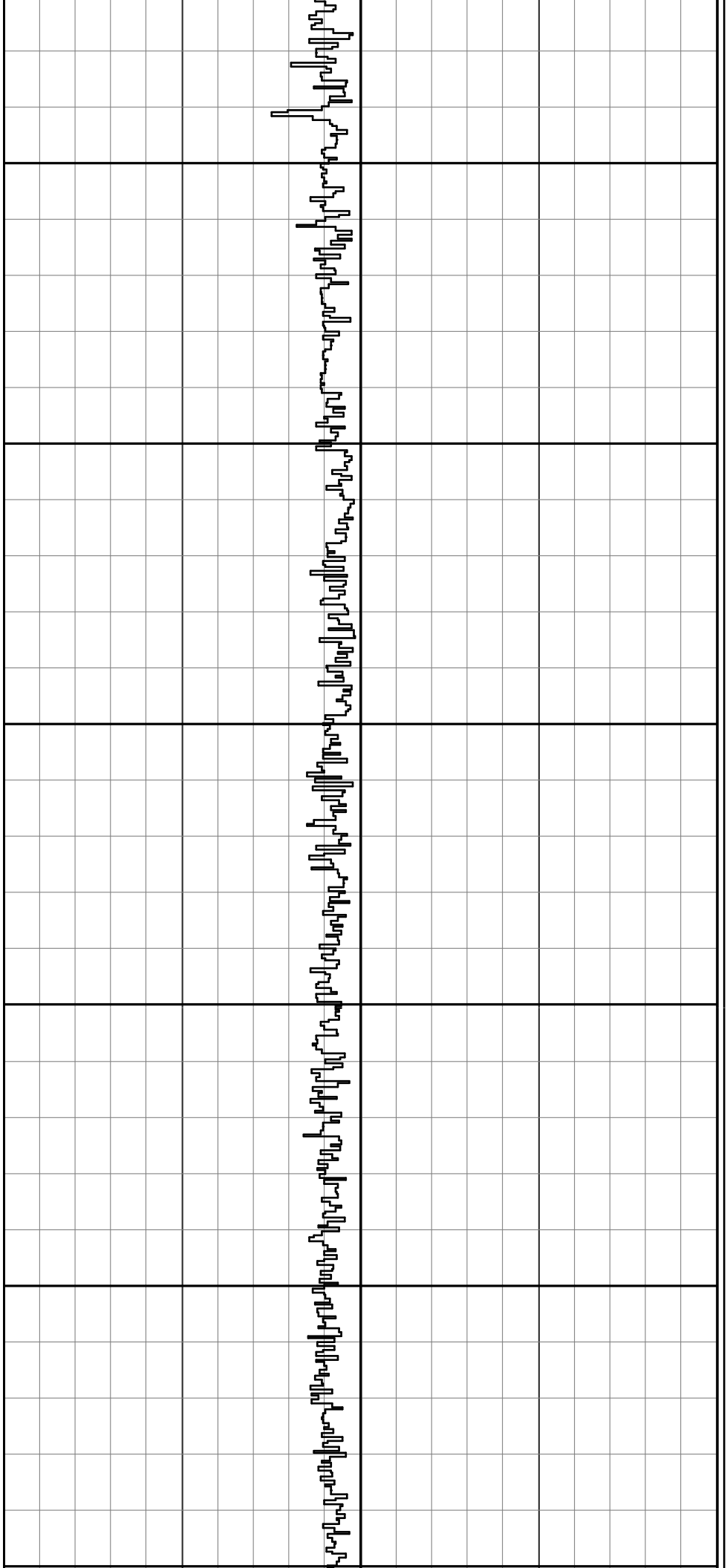


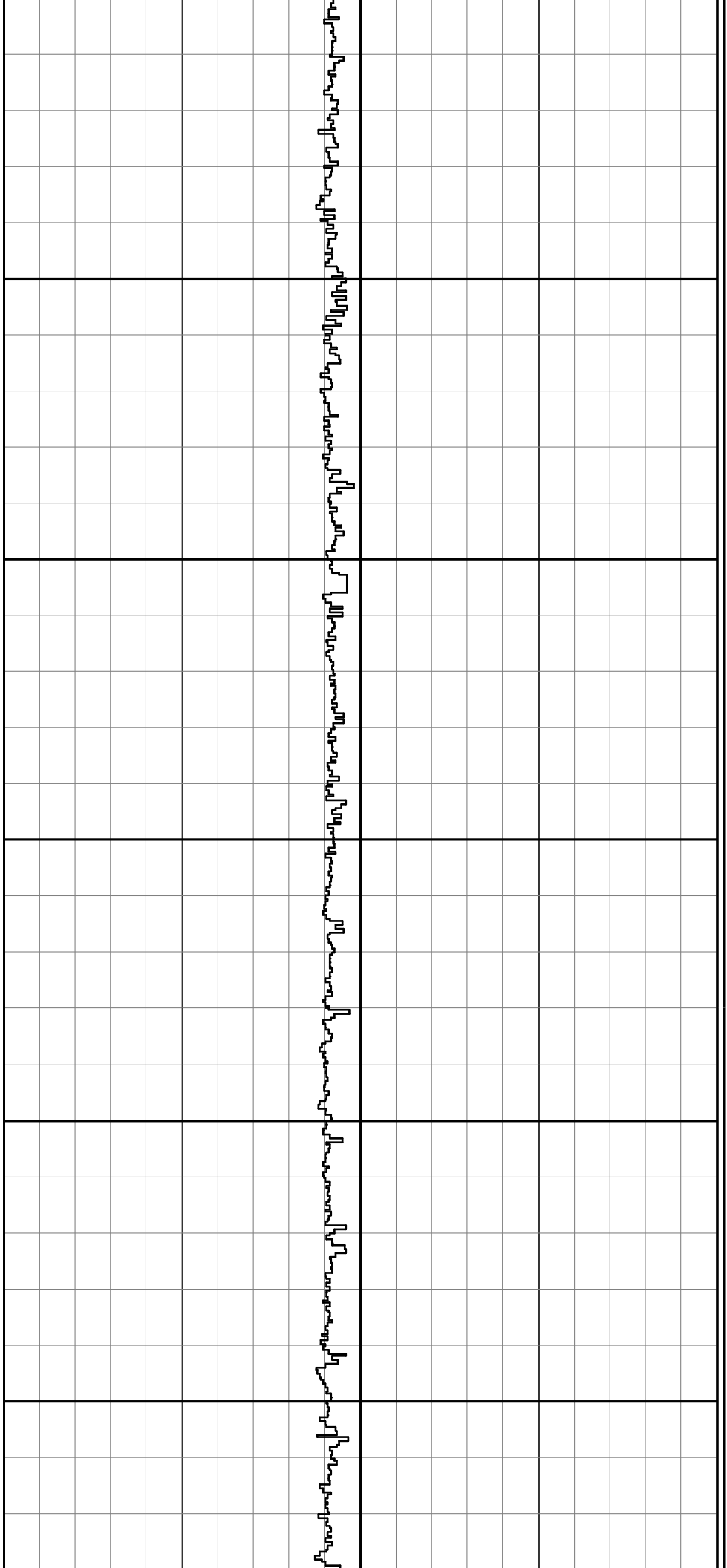
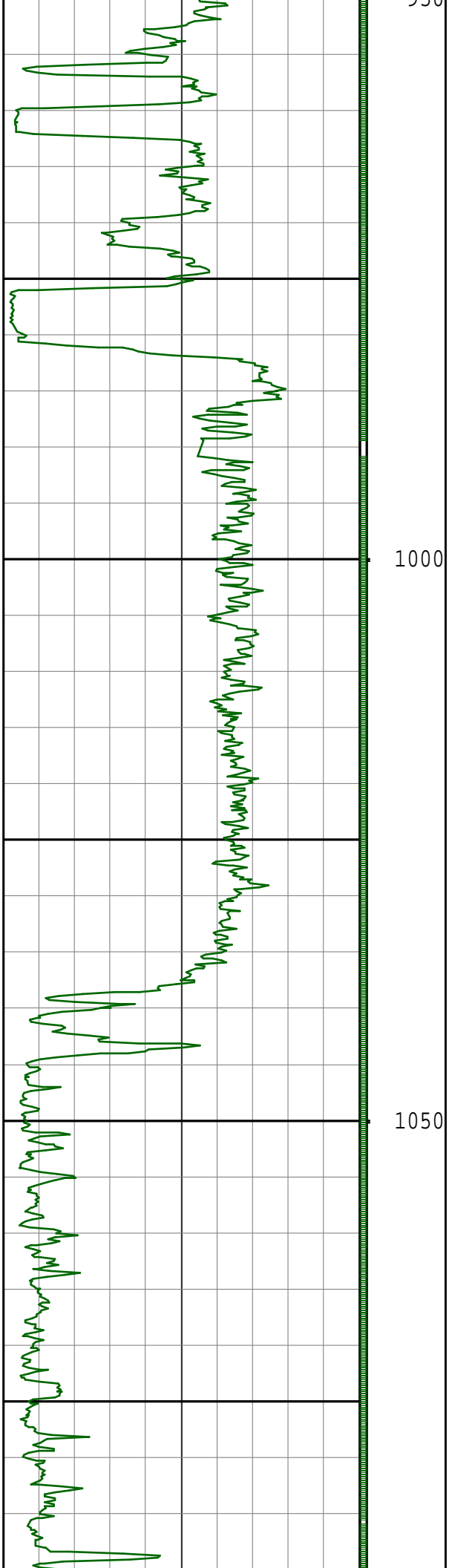


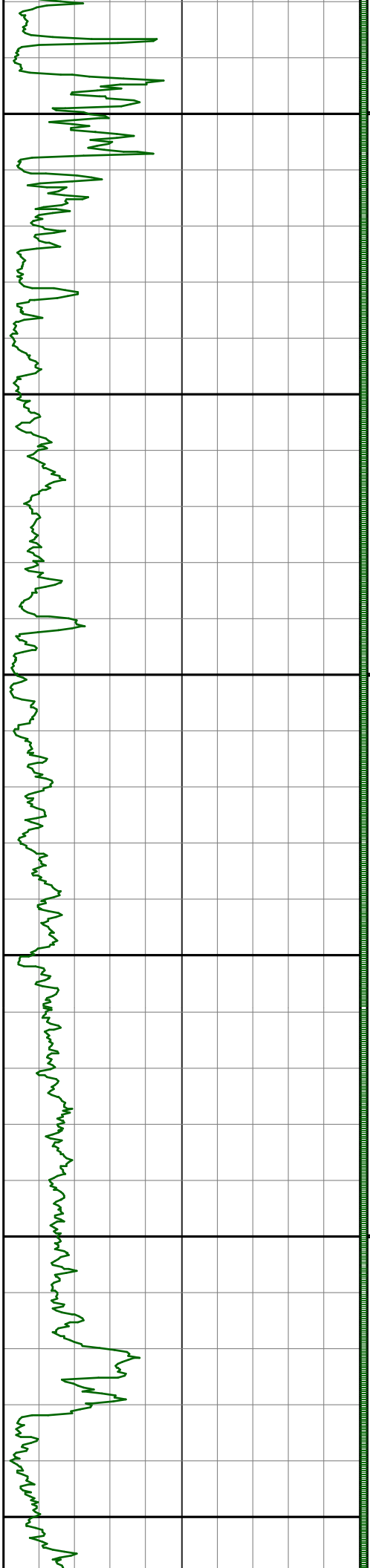
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900

950



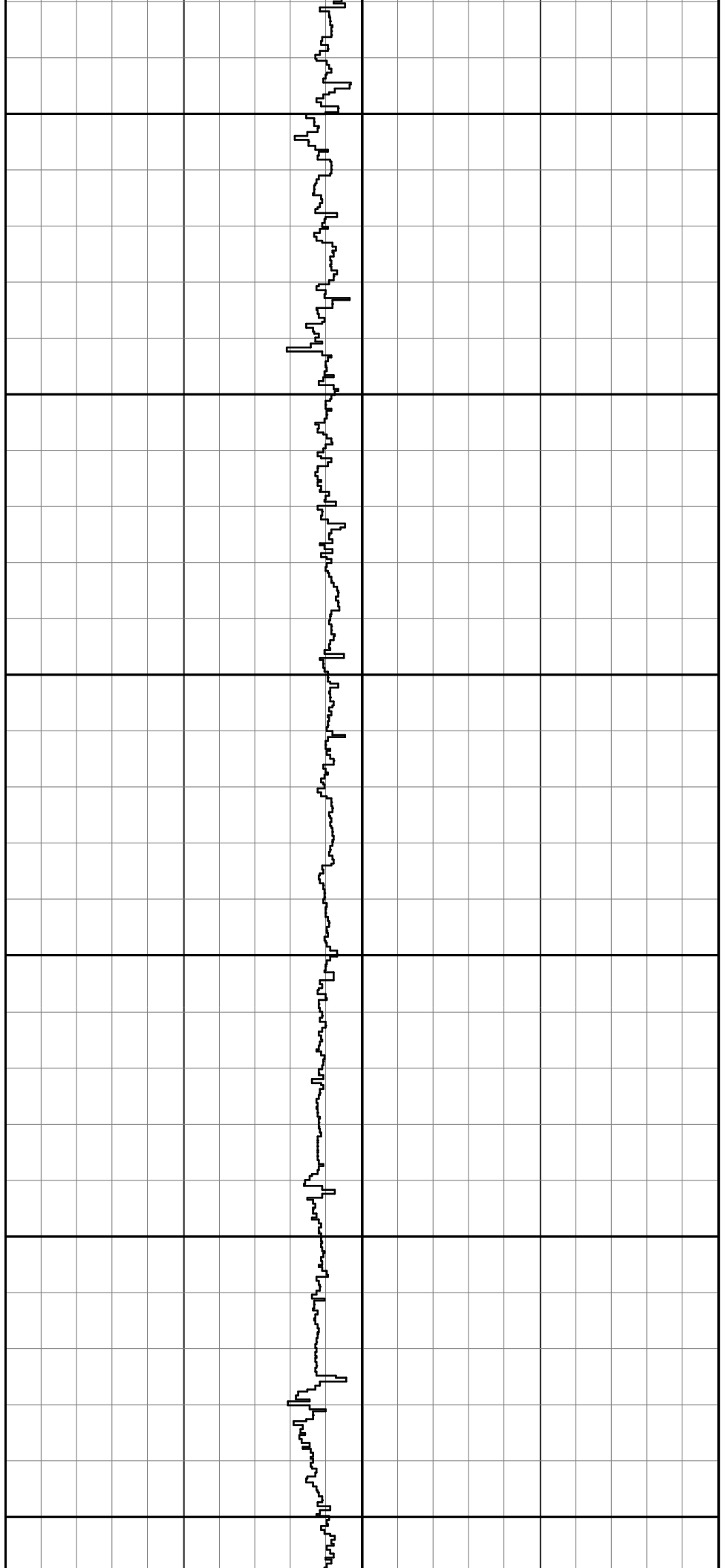


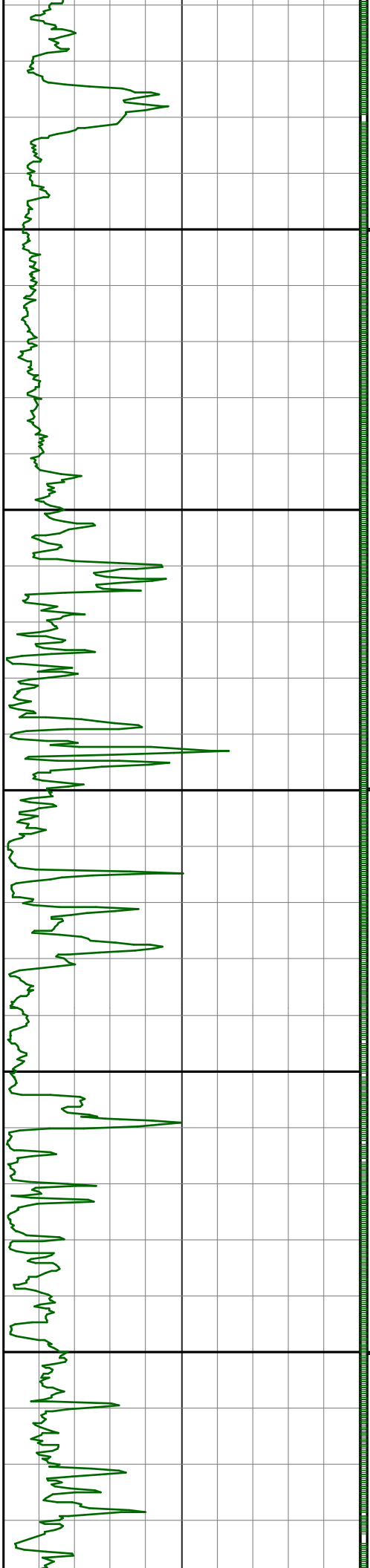


1100

1150

1200

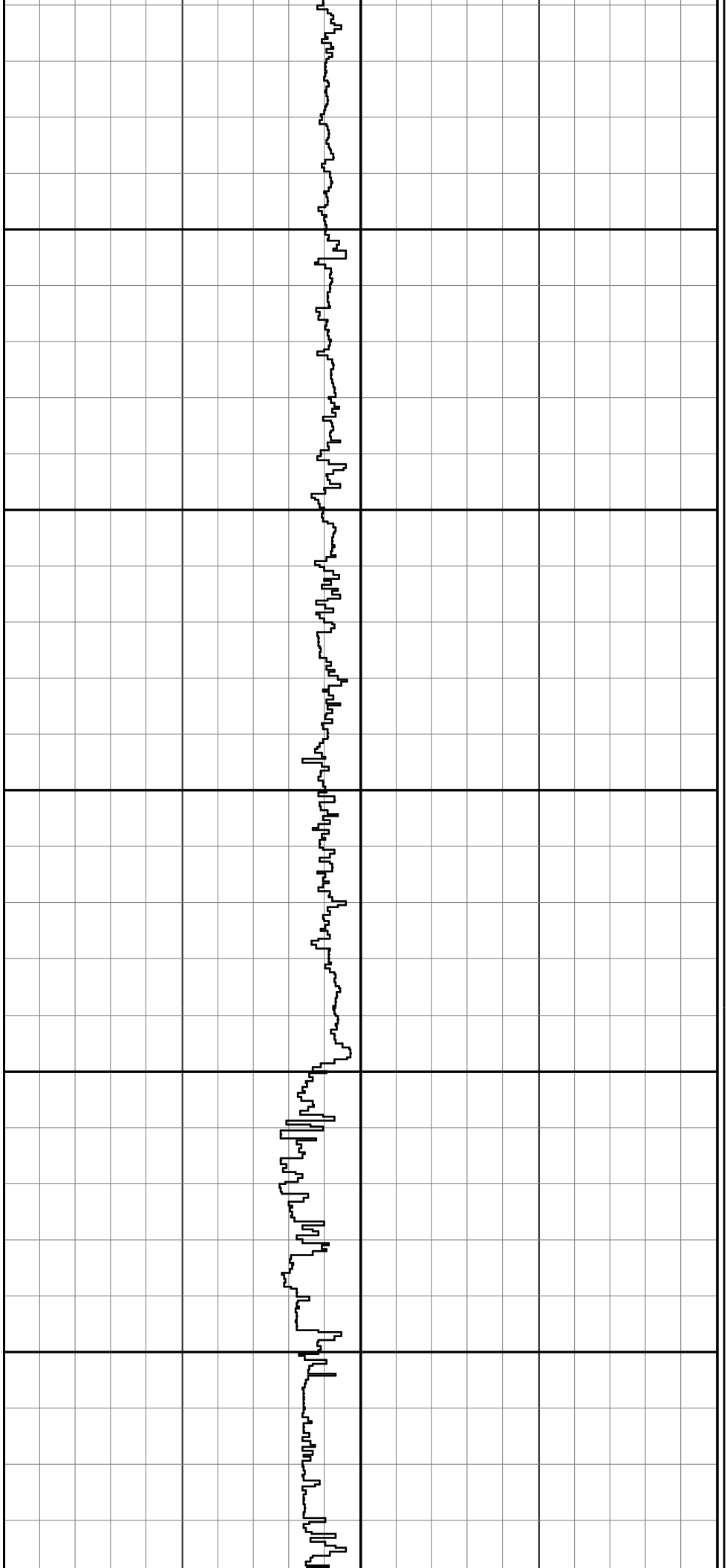


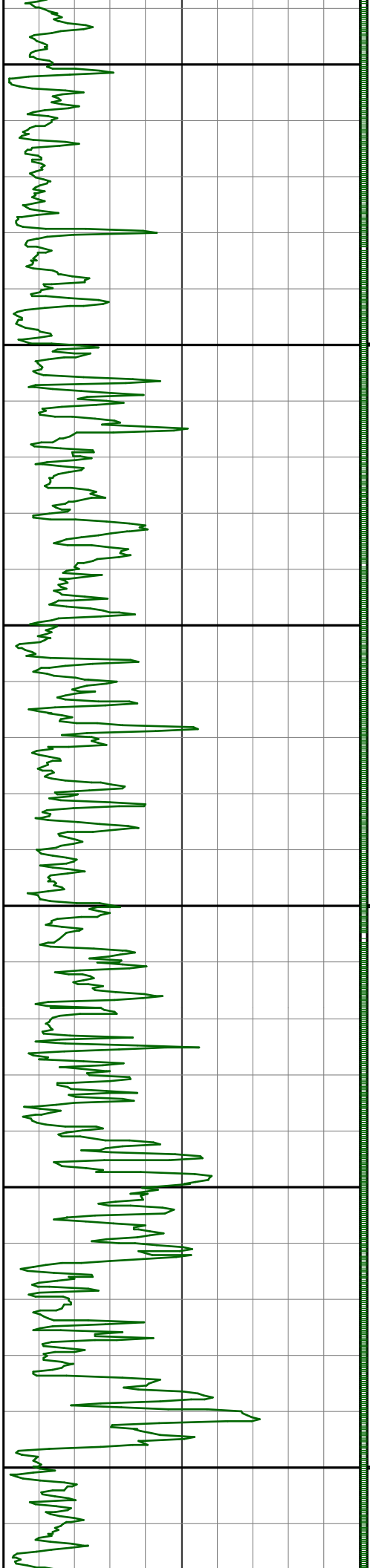


1250

1300

1350

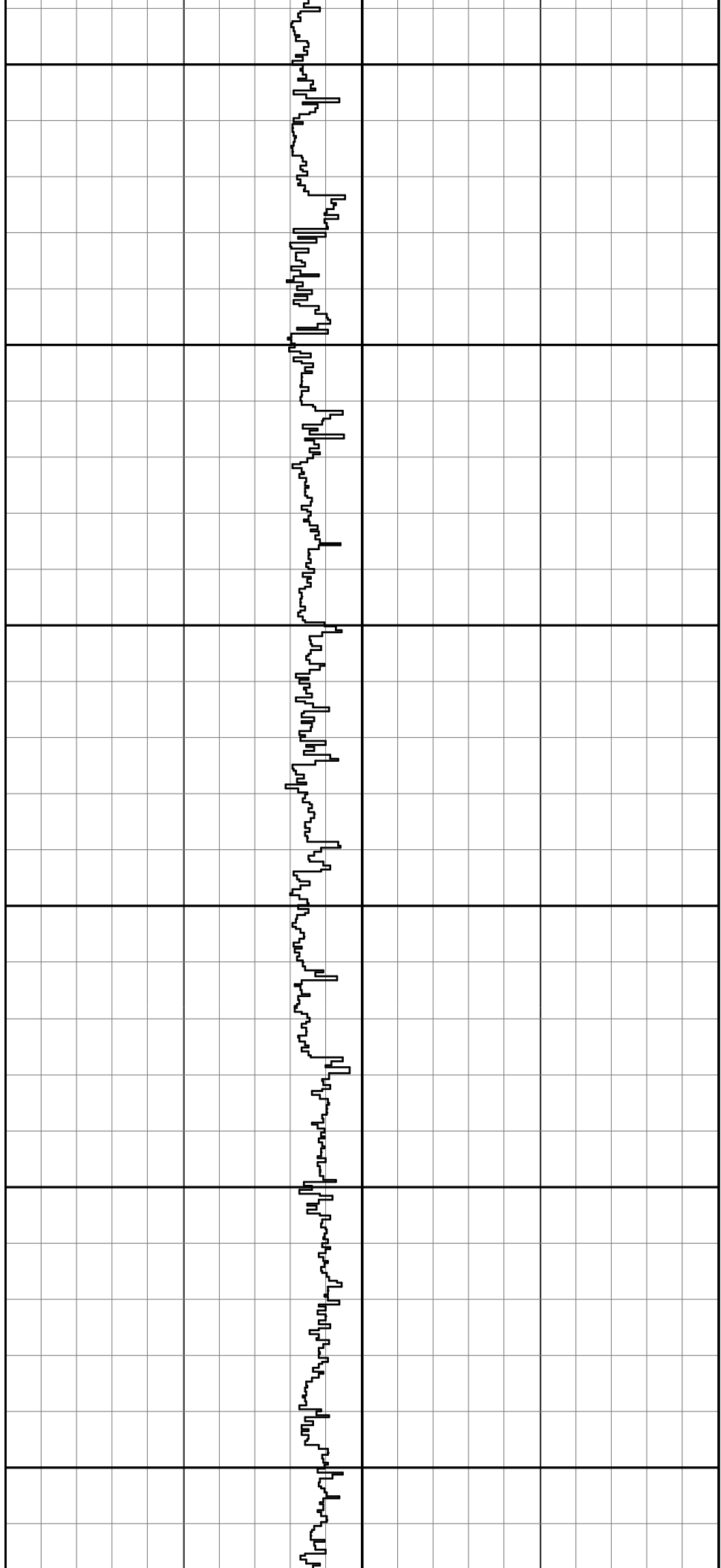


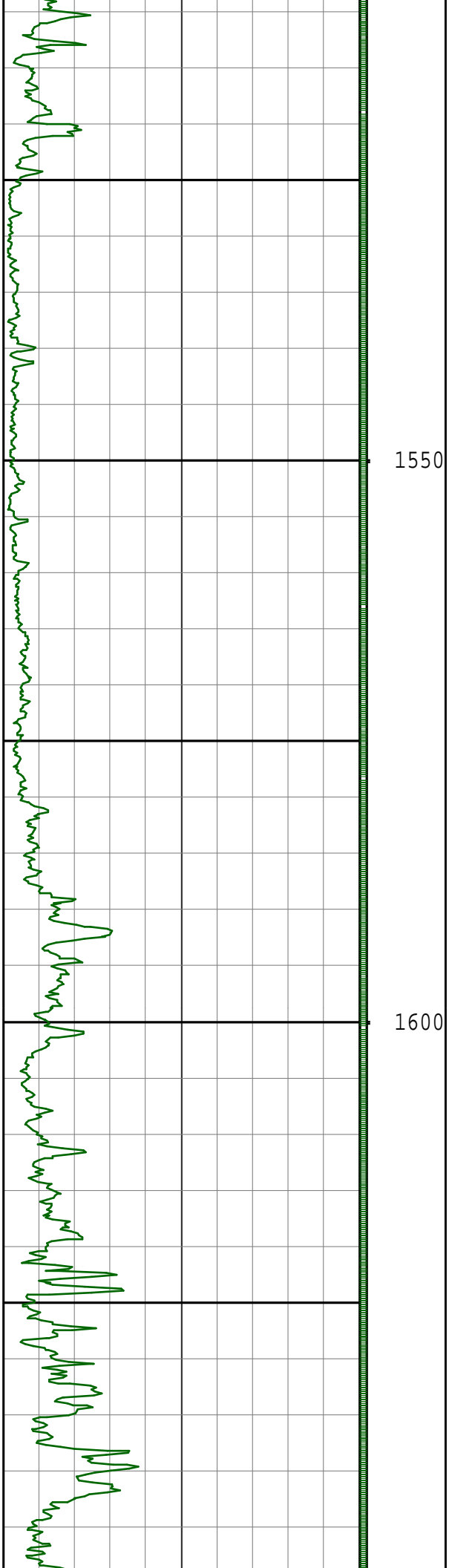
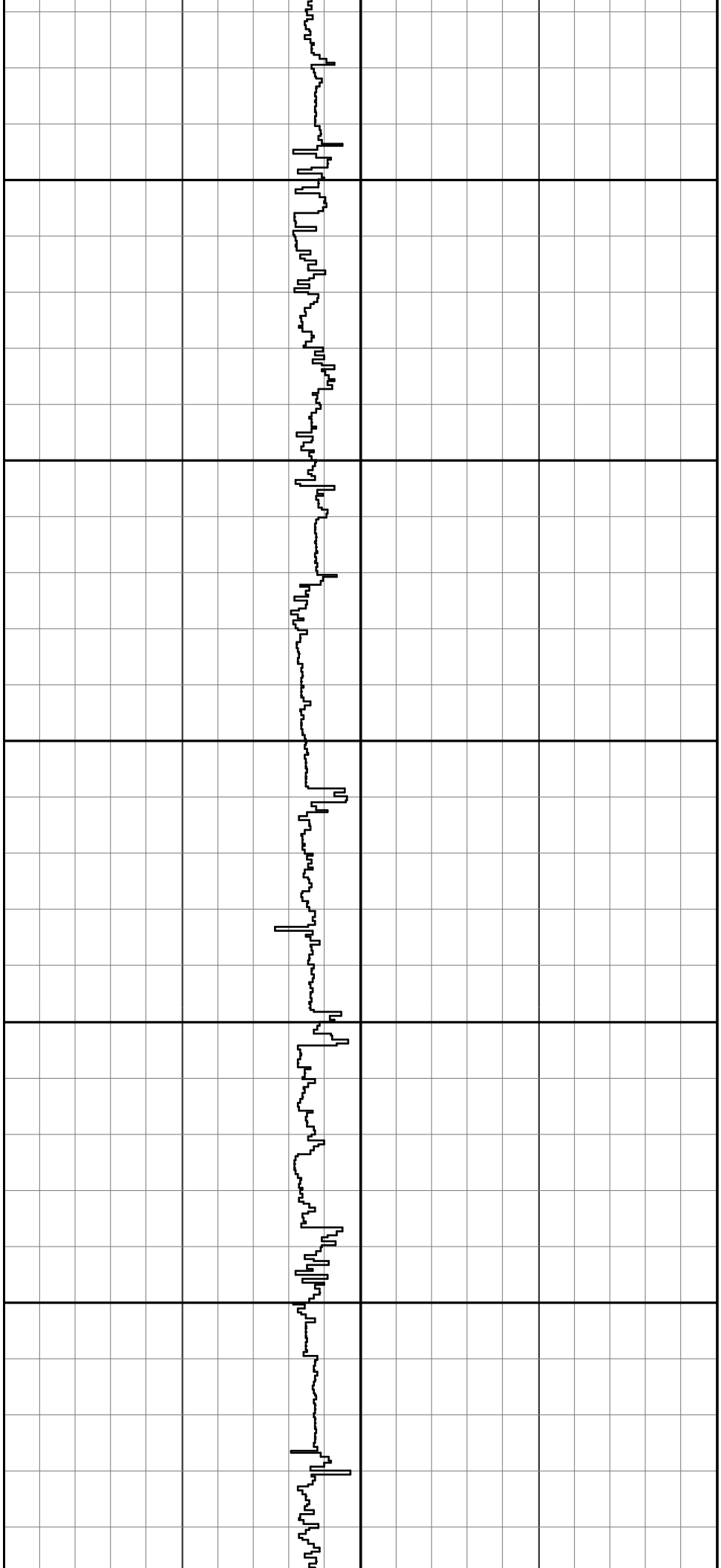


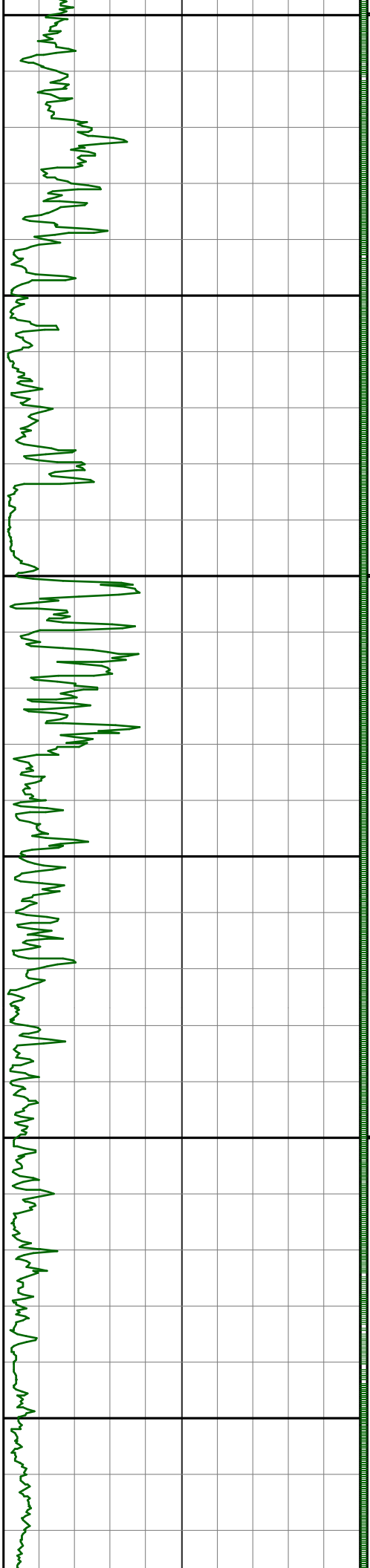
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1450

1500



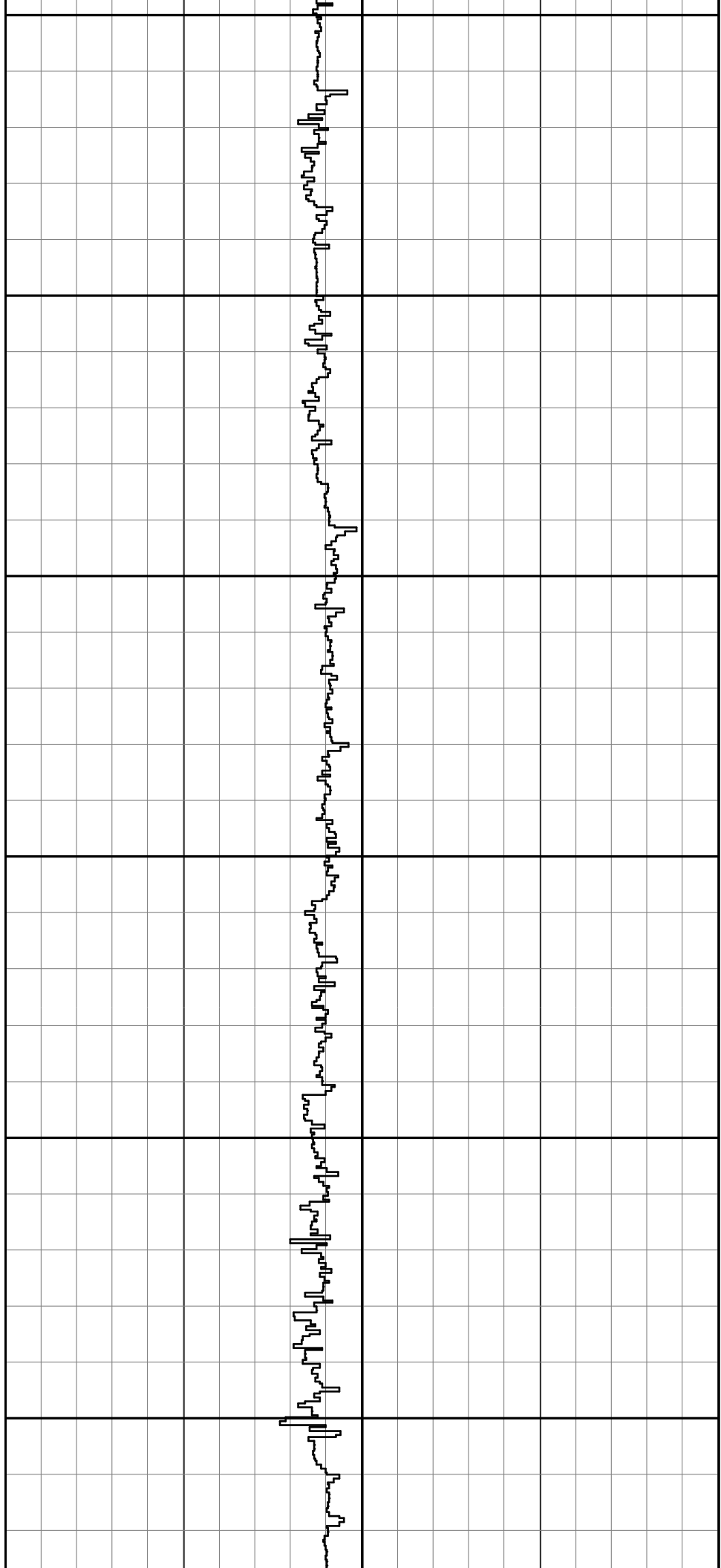


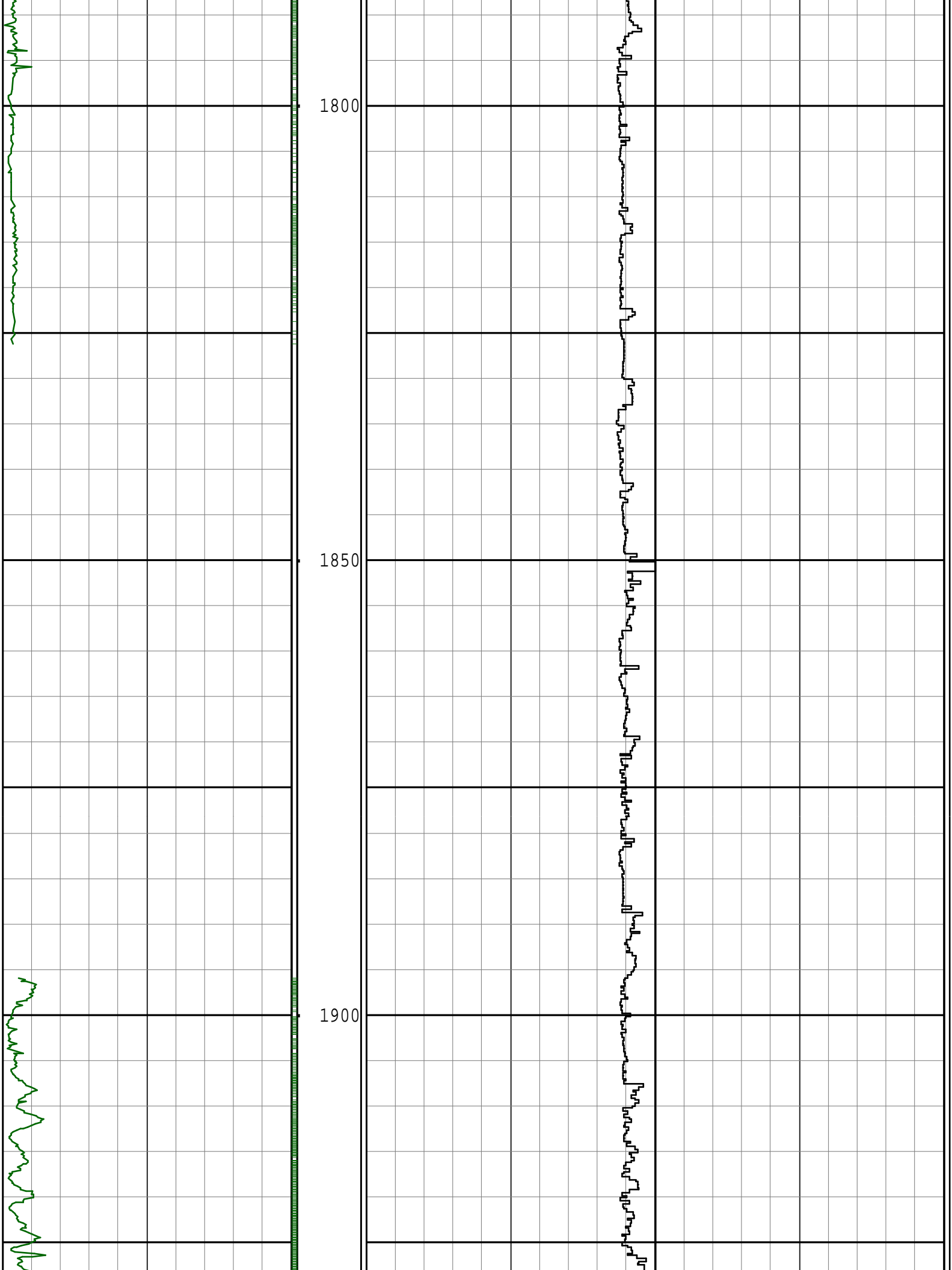


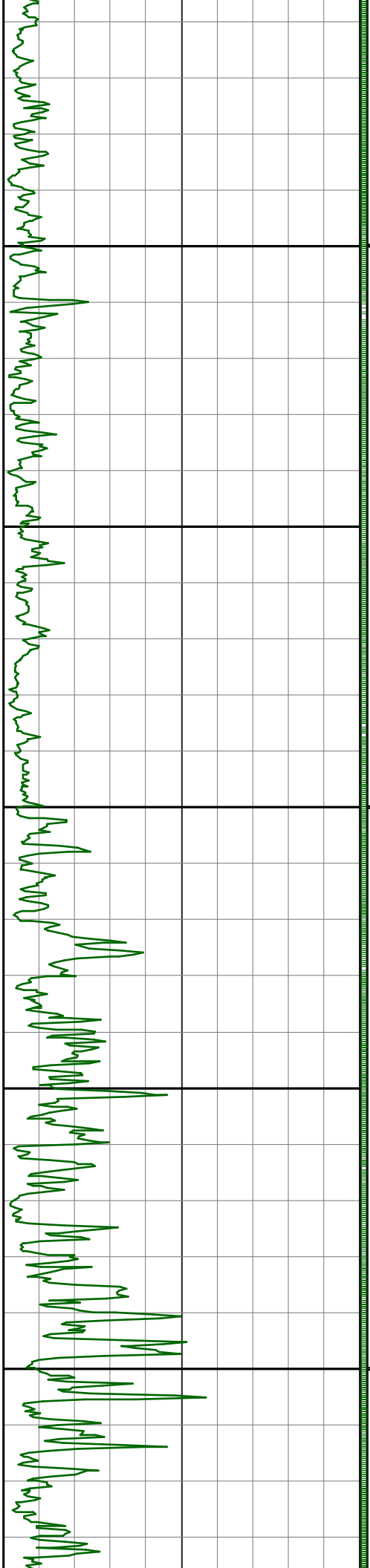
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1700

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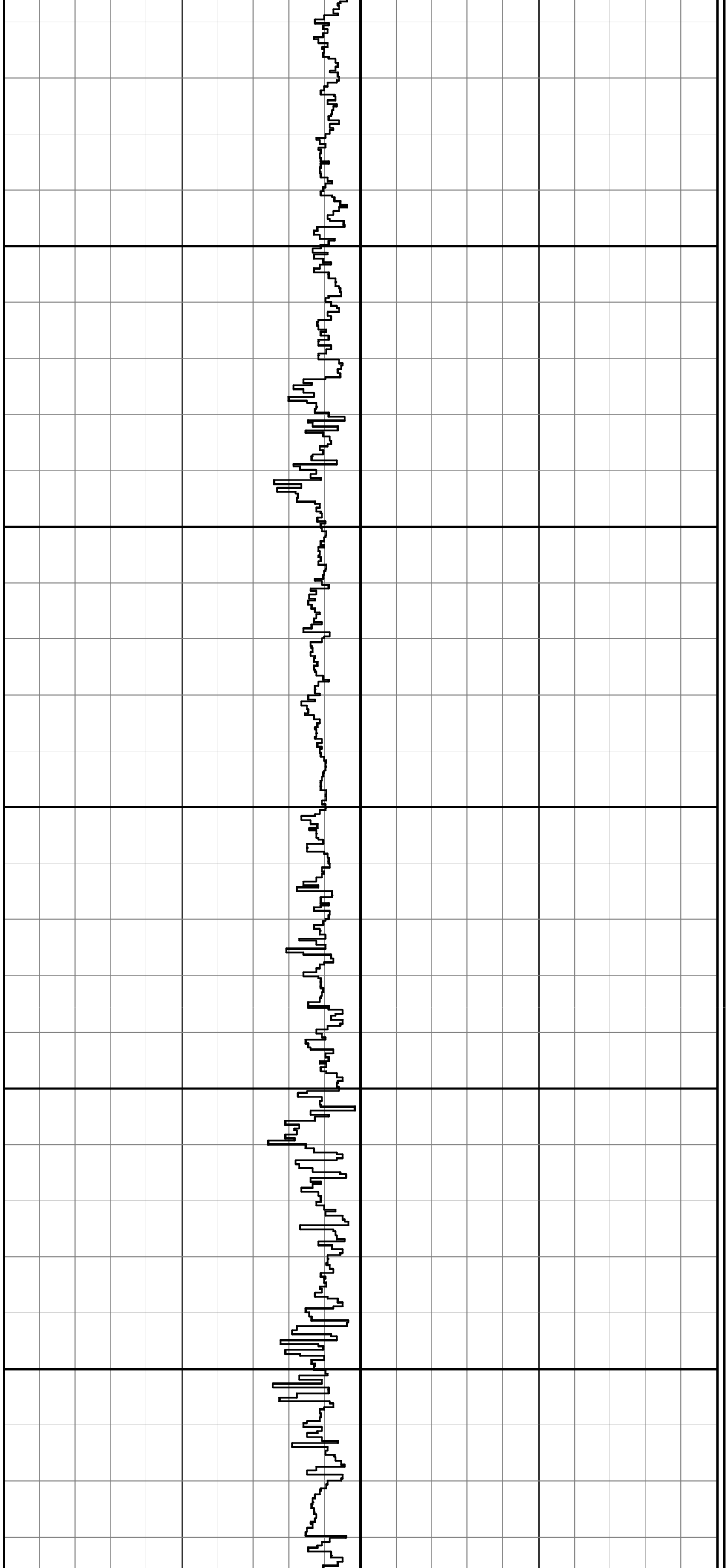


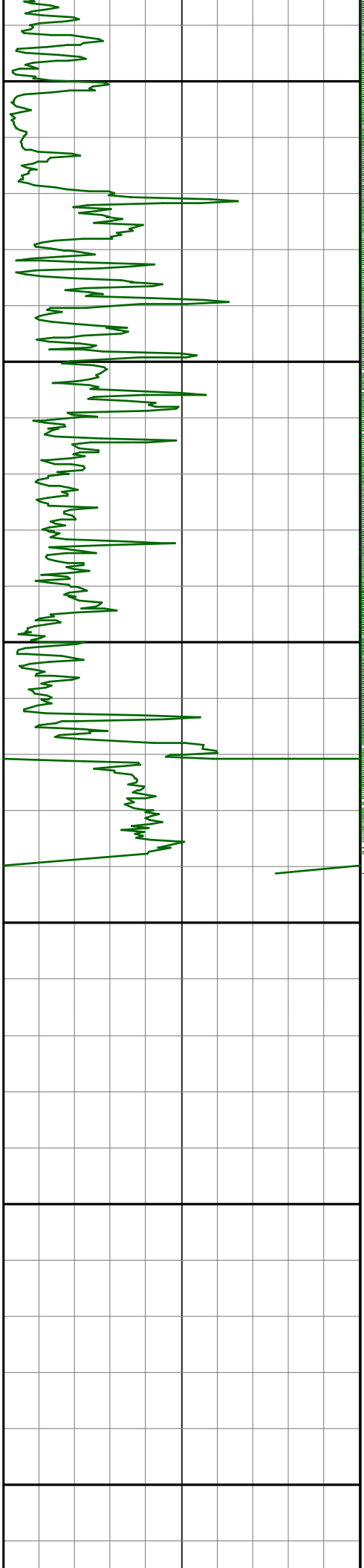


1950

2000

2050

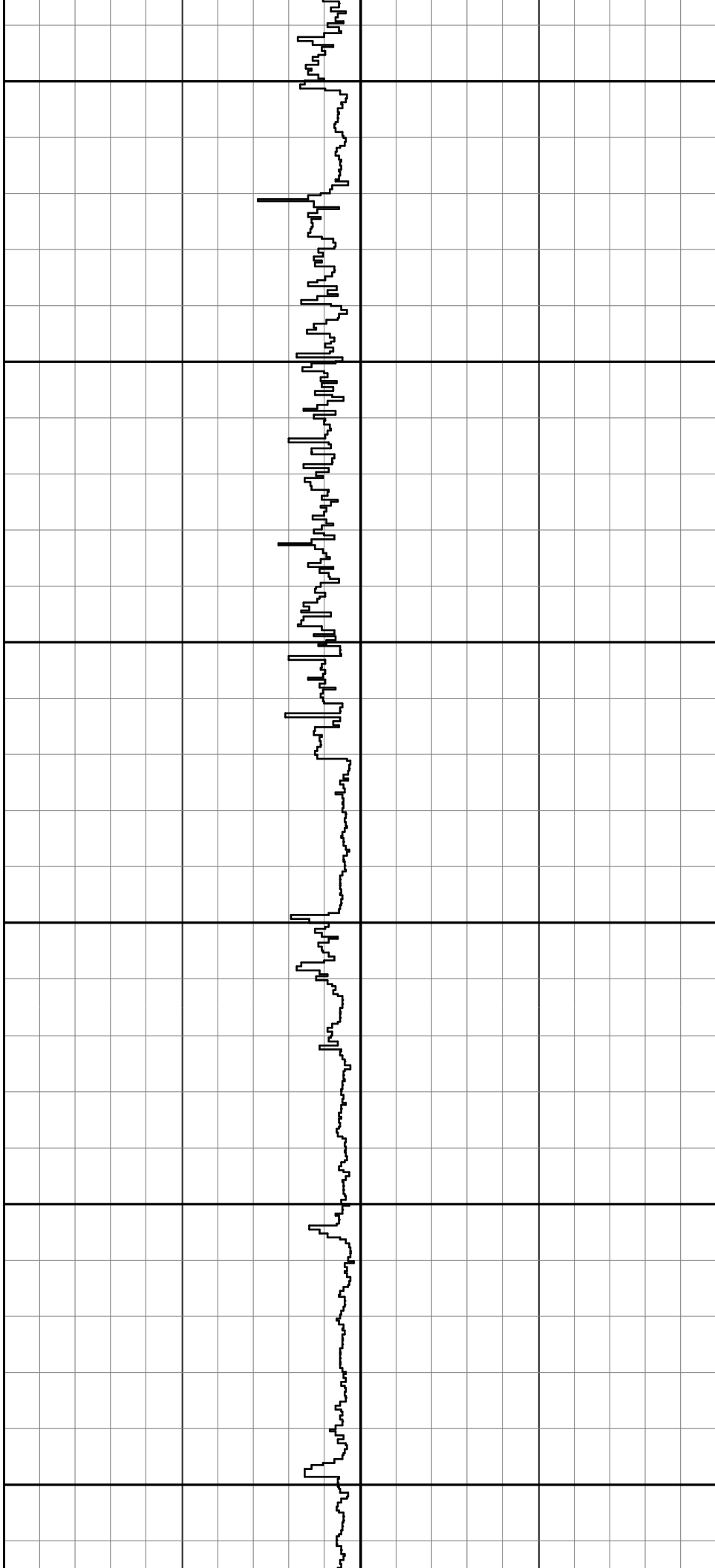


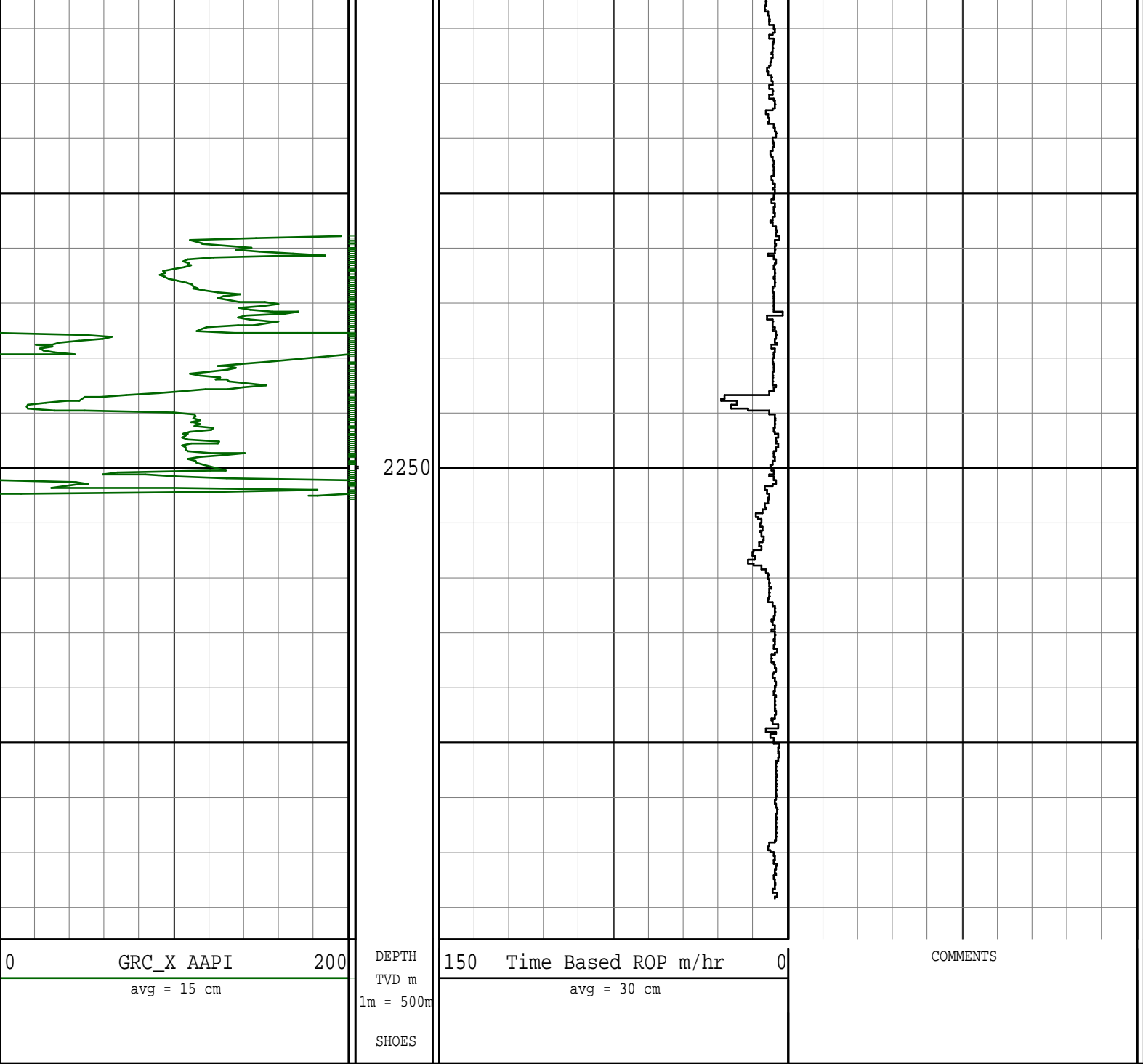


2100

2150

2200





Survey Report

Vertical Section Plane: 0.00°	Total Correction: 3.62° East to Grid
Calculation Method: Minimum Curvature	Survey Reference: Wellhead
North Aligned to: Grid North	Well: Mt Kitty 1

Measured Depth (m)	Inclination (deg)	Azimuth (deg)	TVD (m)	Course Length (m)	Vertical Section (m)	Rect Co-ord North (m)	Rect Co-ord East (m)	Closure Distance (m)	Closure Direction (deg)	Dog-leg Severity (dg/30m)	Temp (deg C)
TIED INTO EXTERNAL SURVEYS AT 770m MD											
770.00	3.11	318.04	769.27		22.17	22.17 N	19.80 W	29.72	318.23		
THE FOLLOWING ARE PATHFINDER MWD SURVEYS											
795.40	3.30	278.41	794.63	25.40	22.79	22.79 N	20.98 W	30.98	317.36	2.57	
834.20	3.30	275.82	833.37	38.80	23.07	23.07 N	23.20 W	32.71	314.83	0.12	
873.10	3.21	277.62	872.21	38.90	23.32	23.32 N	25.39 W	34.48	312.57	0.10	
911.90	3.30	278.10	910.94	38.80	23.63	23.63 N	27.58 W	36.31	310.59	0.07	
950.80	3.60	277.14	949.77	38.90	23.93	23.93 N	29.90 W	38.30	308.68	0.24	
989.50	3.60	273.31	988.40	38.70	24.16	24.16 N	32.31 W	40.35	306.78	0.19	
1028.00	3.52	275.11	1026.82	38.50	24.33	24.33 N	34.70 W	42.38	305.04	0.11	
1066.60	3.69	274.72	1065.35	38.60	24.54	24.54 N	37.12 W	44.49	303.47	0.13	
1105.10	3.69	273.40	1103.77	38.50	24.71	24.71 N	39.59 W	46.67	301.98	0.07	
1143.50	3.70	274.02	1142.00	38.40	24.88	24.88 N	42.00 W	48.80	300.50	0.00	

1143.50	3.78	274.02	1142.08	38.40	24.88	24.88 N	42.08 W	48.89	300.59	0.08
1182.00	4.31	273.40	1180.49	38.50	25.05	25.05 N	44.79 W	51.32	299.22	0.41
1220.50	4.22	274.94	1218.88	38.50	25.26	25.26 N	47.65 W	53.93	297.93	0.11
1259.00	4.39	275.91	1257.27	38.50	25.53	25.53 N	50.53 W	56.61	296.81	0.14
1298.20	4.22	274.24	1296.36	39.20	25.79	25.79 N	53.46 W	59.35	295.76	0.16
1336.70	4.31	278.54	1334.76	38.50	26.11	26.11 N	56.30 W	62.06	294.88	0.26
1375.40	4.48	277.00	1373.34	38.70	26.51	26.51 N	59.24 W	64.90	294.11	0.16
1413.30	4.39	277.40	1411.13	37.90	26.88	26.88 N	62.15 W	67.71	293.39	0.08
1453.10	4.61	279.51	1450.81	39.80	27.34	27.34 N	65.23 W	70.73	292.74	0.21
1491.60	4.70	281.22	1489.18	38.50	27.90	27.90 N	68.31 W	73.79	292.22	0.13
1530.30	4.61	283.73	1527.75	38.70	28.58	28.58 N	71.37 W	76.88	291.82	0.17
1569.10	4.61	281.31	1566.43	38.80	29.26	29.26 N	74.42 W	79.96	291.46	0.15
1607.90	4.48	281.40	1605.10	38.80	29.86	29.86 N	77.43 W	82.99	291.09	0.10
1646.60	4.61	283.90	1643.68	38.70	30.53	30.53 N	80.42 W	86.02	290.79	0.18
1685.40	4.92	284.30	1682.35	38.80	31.32	31.32 N	83.55 W	89.23	290.55	0.24
1724.30	4.92	289.31	1721.11	38.90	32.28	32.28 N	86.74 W	92.55	290.41	0.33
1762.80	4.79	290.54	1759.47	38.50	33.39	33.39 N	89.80 W	95.81	290.40	0.13
1782.00	4.70	286.76	1778.60	19.20	33.90	33.90 N	91.31 W	97.40	290.37	0.51
1898.20	5.01	293.70	1894.39	116.20	37.31	37.31 N	100.51 W	107.21	290.37	0.17
1936.70	4.92	296.34	1932.74	38.50	38.72	38.72 N	103.53 W	110.53	290.51	0.19
1956.20	4.48	297.92	1952.18	19.50	39.45	39.45 N	104.95 W	112.12	290.60	0.70
1994.70	4.00	314.31	1990.57	38.50	41.09	41.09 N	107.24 W	114.84	290.97	1.01
2033.10	3.91	333.12	2028.88	38.40	43.20	43.20 N	108.79 W	117.05	291.66	1.01
2071.50	4.39	353.42	2067.18	38.40	45.82	45.82 N	109.55 W	118.75	292.70	1.20
2110.00	5.41	2.43	2105.54	38.50	49.10	49.10 N	109.64 W	120.14	294.12	0.99
2243.10	5.32	13.82	2238.06	133.10	61.36	61.36 N	107.90 W	124.13	299.63	0.24
2262.00	5.41	16.63	2256.88	18.90	63.07	63.07 N	107.44 W	124.58	300.41	0.44
PROJECTION TO TD AT 2295m MD										
2295.00	5.41	16.63	2289.73	33.00	66.05	66.05 N	106.55 W	125.36	301.79	0.00

BOTTOM HOLE ASSEMBLY RECORD										
RUN #1		m	RUN #2		m	RUN #3		m		
8 1/2" HAMMER BT		0.10	8 1/2" HAMMER BT		0.10	8 1/2" INSERT BT		0.24		
7" HAMMER		1.37	7" HAMMER		1.37	6 3/4" G2 MOTOR		9.54		
8 1/2" NB STAB		1.48	8 1/2" NB STAB		1.48	6 3/4" FLOAT SUB		0.91		
6 1/2" X/O		0.81	6 1/2" X/O		0.81	8 3/8" HI TOOL		1.19		
6 3/4" PONY		3.44	6 3/4" PONY		3.44	6 3/4" NM PONY		2.87		
8 3/8" HI TOOL		1.19	8 3/8" HI TOOL		1.19	6 3/4" XEM NMDC		9.25		
6 3/4" NM PONY		2.87	6 3/4" NM PONY		2.87	6 1/2" GAP SUB		1.11		
6 3/4" XEM NMDC		9.25	6 3/4" XEM NMDC		9.25	8 3/8" STAB		1.71		
6 1/2" GAP SUB		1.11	6 1/2" GAP SUB		1.11	6 3/4" NMDC		9.03		
8 3/8" STAB		1.71	8 3/8" STAB		1.71	6 3/4" FILTER SB		0.98		
6 3/4" NMDC		9.03	6 3/4" NMDC		9.03	6 1/2" X/O		1.09		
6 1/2" X/O		1.09	6 1/2" X/O		1.09					
=====			=====			=====				
TOTAL BHA LENGTH		33.45	TOTAL BHA LENGTH		33.45	TOTAL BHA LENGTH		37.92		
SENSOR OFFSETS:			SENSOR OFFSETS:			SENSOR OFFSETS:				
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DIRECTIONAL		13.44	DIRECTIONAL		13.44	DIRECTIONAL		16.93		
GAMMA-RAY		12.05	GAMMA-RAY		12.05	GAMMA-RAY		15.54		

