Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD
NOV 22 2016
RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO.
30-025-42207

5. Indicate Type of Lease
STATE ☐ FEE ☒ FED X

6. State Oil & Gas Lease No.
NM 0149956

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other: ☒ **Acid Gas Injection**

7. Lease Name or Unit Agreement Name
~~N/A~~ ZIA AGI D

8. Well Number
2

2. Name of Operator
DCP MIDSTREAM LP

9. OGRID Number
~~025575~~ 36785

3. Address of Operator
370 17TH STREET, SUITE 2500, DENVER, CO 80202

10. Pool name or Wildcat
DEVONIAN EXPL.

4. Well Location
Unit Letter L : 1893 feet from the South line and 950 feet from the West line
Section 19 Township 19S Range 32E NMPM County LEA

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
3548 ft. Ground Level

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☒		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The Second intermediate casing was run on Sunday, November 13, 2016 in a 12 1/4-inch borehole drilled to a depth of 4,696 ft. The casing was seated in the base of the Goat Seep formation in a competent formation that provides a solid and stable casing seat. A fluid caliper was used to calculate cement volumes. Correlations between Zia AGI #1 and Zia AGI D #2 used to pick the formation tops and the casing seat are included as an Attachment.

The Zia AGI D #2 second intermediate casing includes 104 joints of 9 5/8-inch, 40 lbs/ft, N55, BTC pipe, a DV tool with external casing packer at 2,608, a float collar at 4,646, and a casing shoe at 4,694. A schematic of well design and the as-built casing tally for the casing is included as an Attachment.

The casing was cemented in two stages. The first stage consisted of 450 sacks (159 bbls) of EconoCem HCL lead cement with a yield of 1.987 ft^3/sack and 250 sacks (59 bbls) of HalCem Class C tail cement with a yield of 1.333 ft^3/sack. The plug was successfully landed into the float collar and 144 sacks (51 bbls) of cement were circulated to the surface. The second stage consisted of 650 sacks (200 bbls) of HalCem Class C lead cement with a yield of 1.728 ft^3/sack and 100 sacks (24 bbls) of HalCem Class C tail cement with a yield of 1.332 ft^3/sack. The plug was successfully landed into the DV tool and 107 sacks (33 bbls) of cement were circulated to the surface as witnessed by a BLM representative. No fallback of cement was observed and the wait on cement time was 22 hours from plug down, at 22:30 on Sunday, until the DV tool was drilled out at 20:30 on Monday. The Halliburton cement laboratory results, cement report, and cement circulation photographs are included as an Attachment.

The BOP/BOPE was successfully tested at low pressures of 250 psi and high pressures of 5,000 psi. A CBL was run with no casing pressure applied at the surface. It indicated a generally good bond from 1,000 to 1,320 ft, 1,900 to 2,570 ft, and 2,640 to 4,640 ft. The log was reviewed and evaluated by Geolex, Concho, and Schlumberger and

it was determined that a micro-annulus was responsible for the areas where the cement bond appeared inconsistent. Because the locations were above the 13 3/8-inch casing shoe and associated with the 9 5/8-inch casing DV tool, it was decided that rerunning the log under pressure was unnecessary.

Upon completion of the CBL a successful casing integrity test was performed at 1500 psi for 30 minutes. The 8 ¾-inch borehole was drilled below the 9 5/8-inch casing shoe and 8 feet into the underlying formation. A formation integrity test was performed by applying 513 psi of pressure to the 9 5/8-inch casing for 10 minutes and 631 psi for 10 minutes with no evidence of formation breakdown. The successful results of all the pressure tests are provided as an Attachment. Following the tests, drilling was continued below the 2nd intermediate casing into an 8 3/4-inch borehole.

All geophysical logs will be provided when continuous copies are available. A table that provides a chronological list of notifications that were made to the BLM during the drilling and completion of this segment is provided as an Attachment.

Spud Date: November 2, 2016 Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michael W Selke TITLE CONSULTANT TO DCP MIDSTREM LP DATE 11/17/2016

Type or print name Michael W Selke E-mail address: MSELKE@GEOLEX.COM PHONE: 505-842-8000

For State Use Only

APPROVED BY: Accepted for Record Only TITLE DATE

Conditions of Approval (if any):

SUBJECT TO LIKE APPROVAL BY BLM

Mateya G Brown 11/22/2016

Gamma Ray, Rate of Penetration, and Correlation Logs

Integrity Directional Services

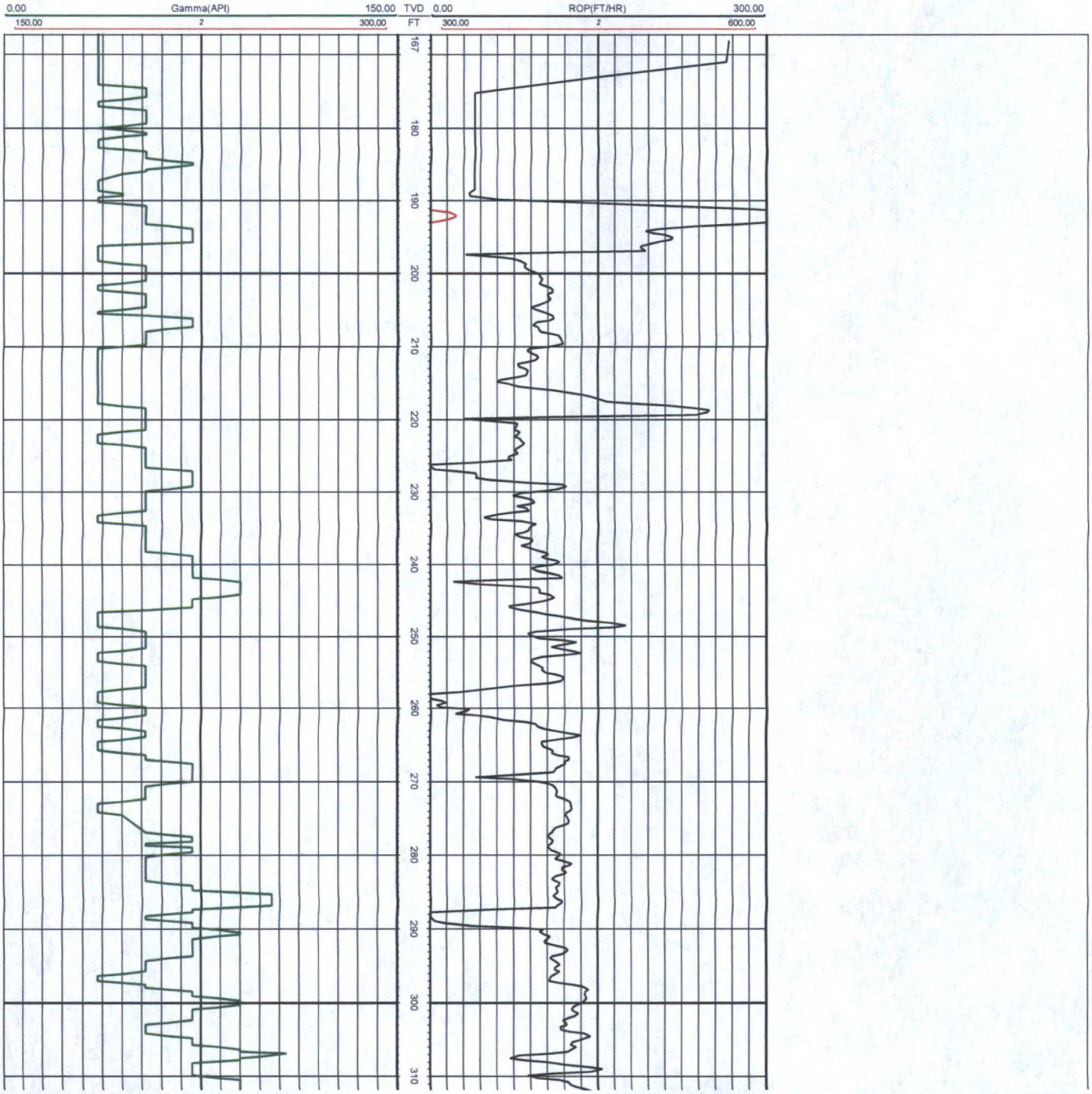
1514 S. County Road 1309
Midland, TX 79707

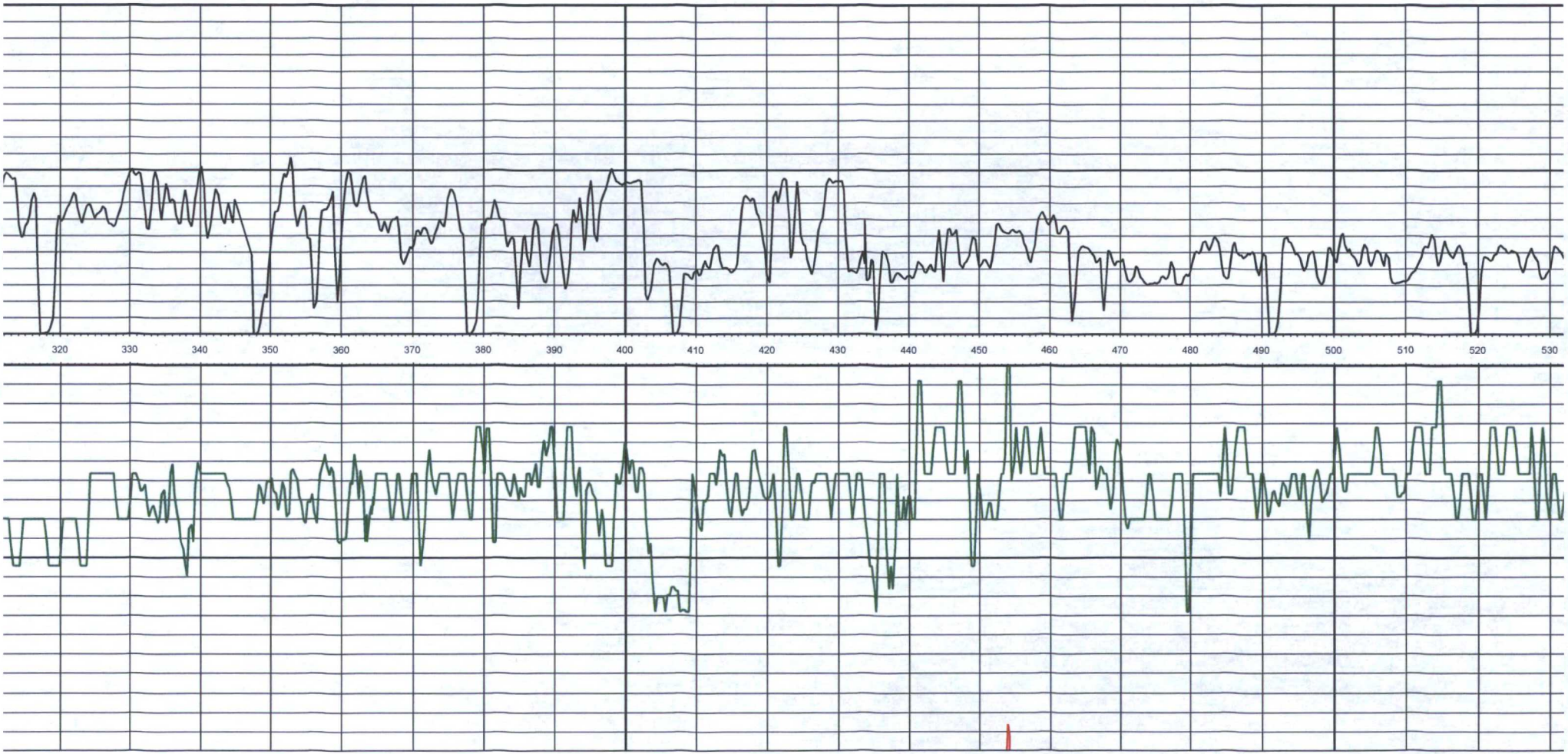
ZIA AGI #D2

Scale 5":100' - TVD

11/12/2016 7:01 PM

Oper. Company:	COG	**State:**	NM
Well:	ZIA AGI #D2	**County:**	Lea
Field:	Permian	**Country:**	USA
Rig:	Scandrill Freedom	**Location:**	48 miles West of Hobbs, NM.
Well ID:	30-025-42207	**Start Date:**	11/02/2016 05:00:00
Job Number:	NM-16-124-CG	**End Date:**	

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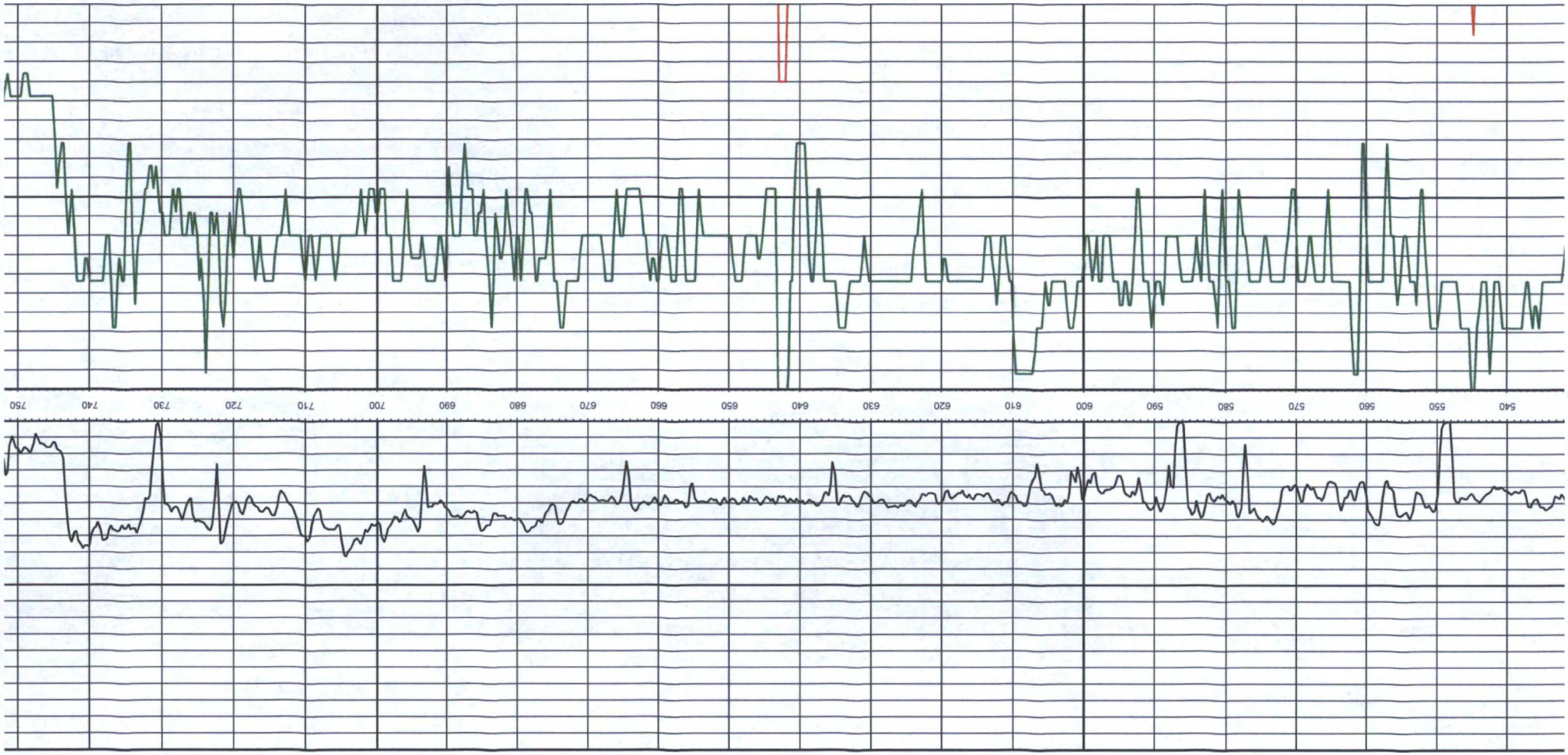
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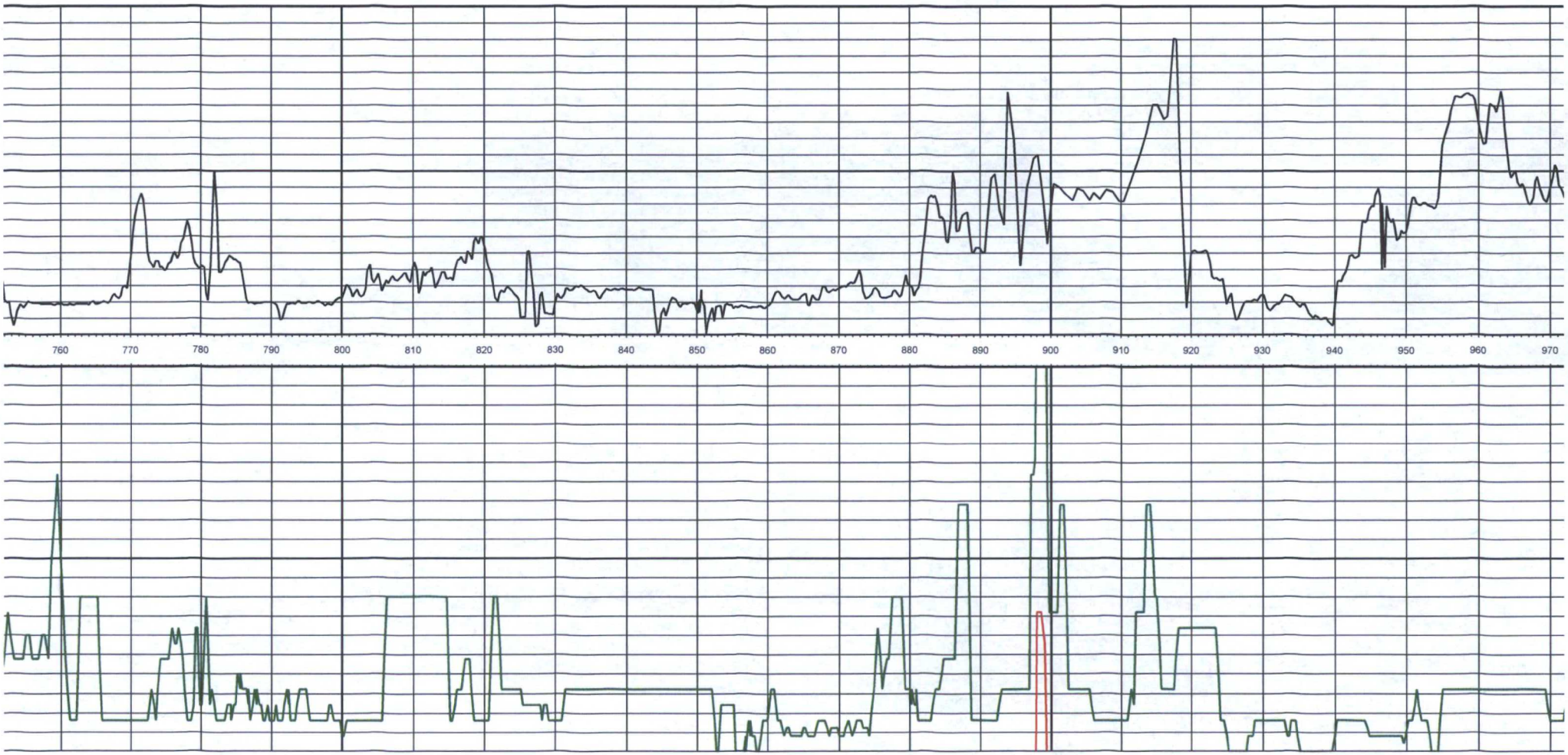
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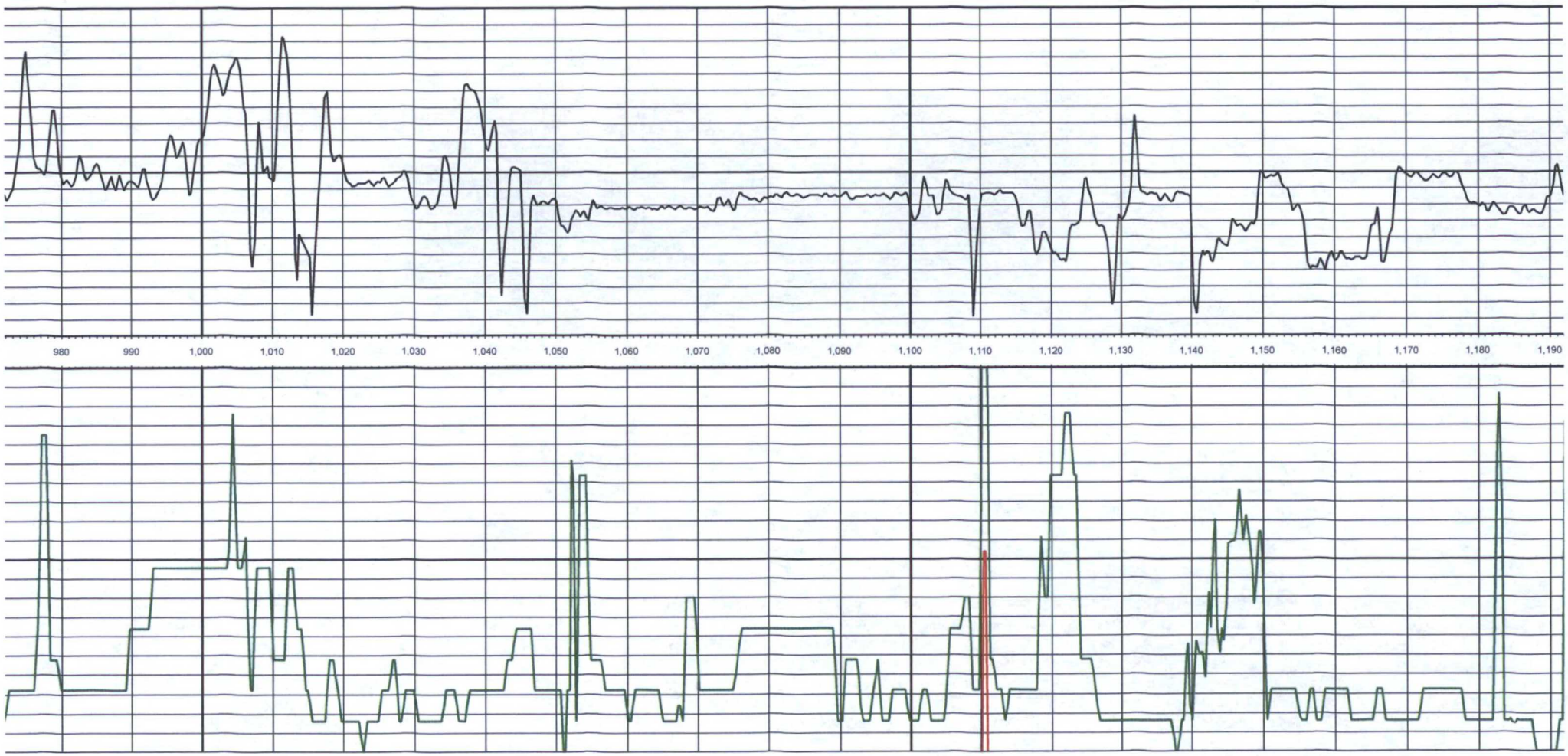
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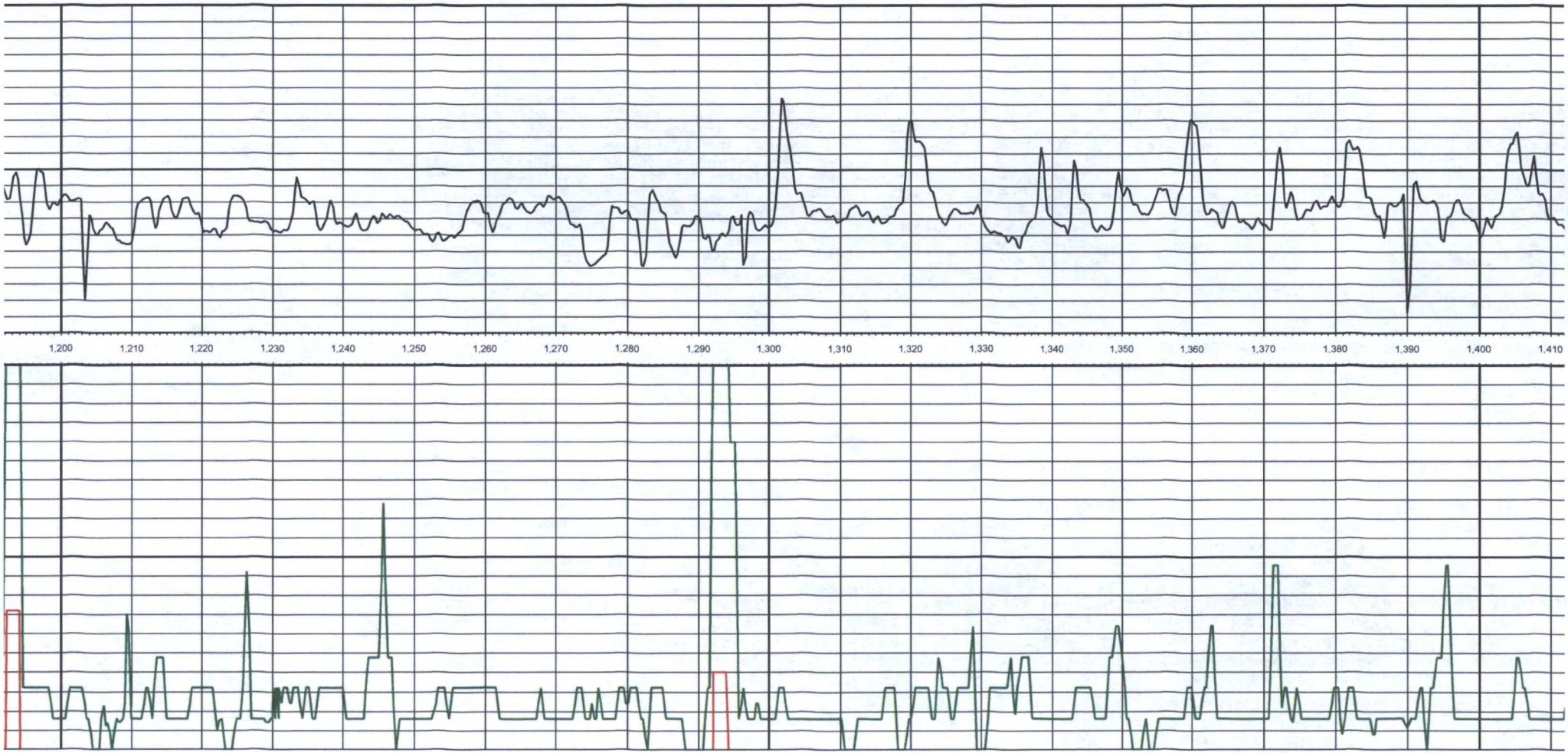
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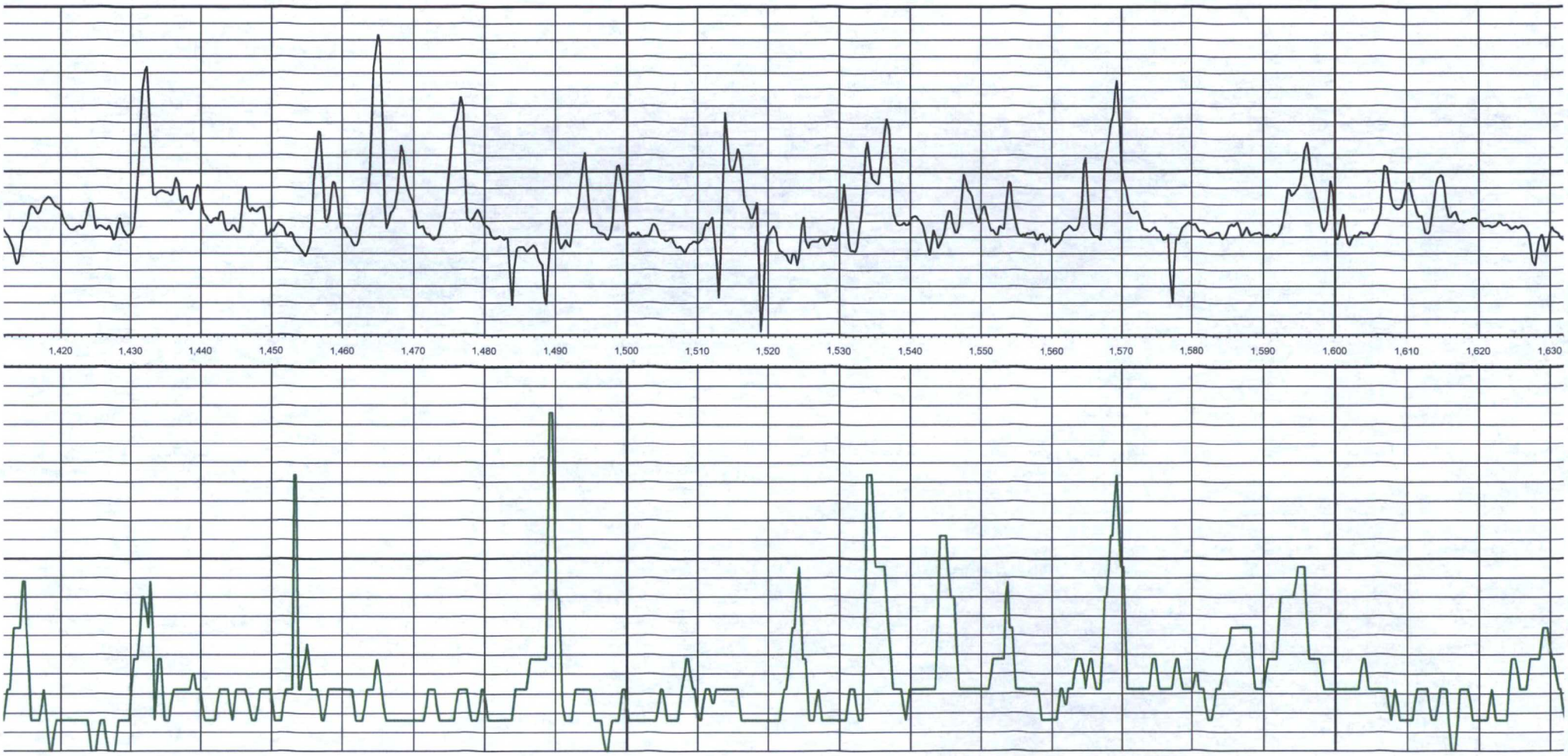
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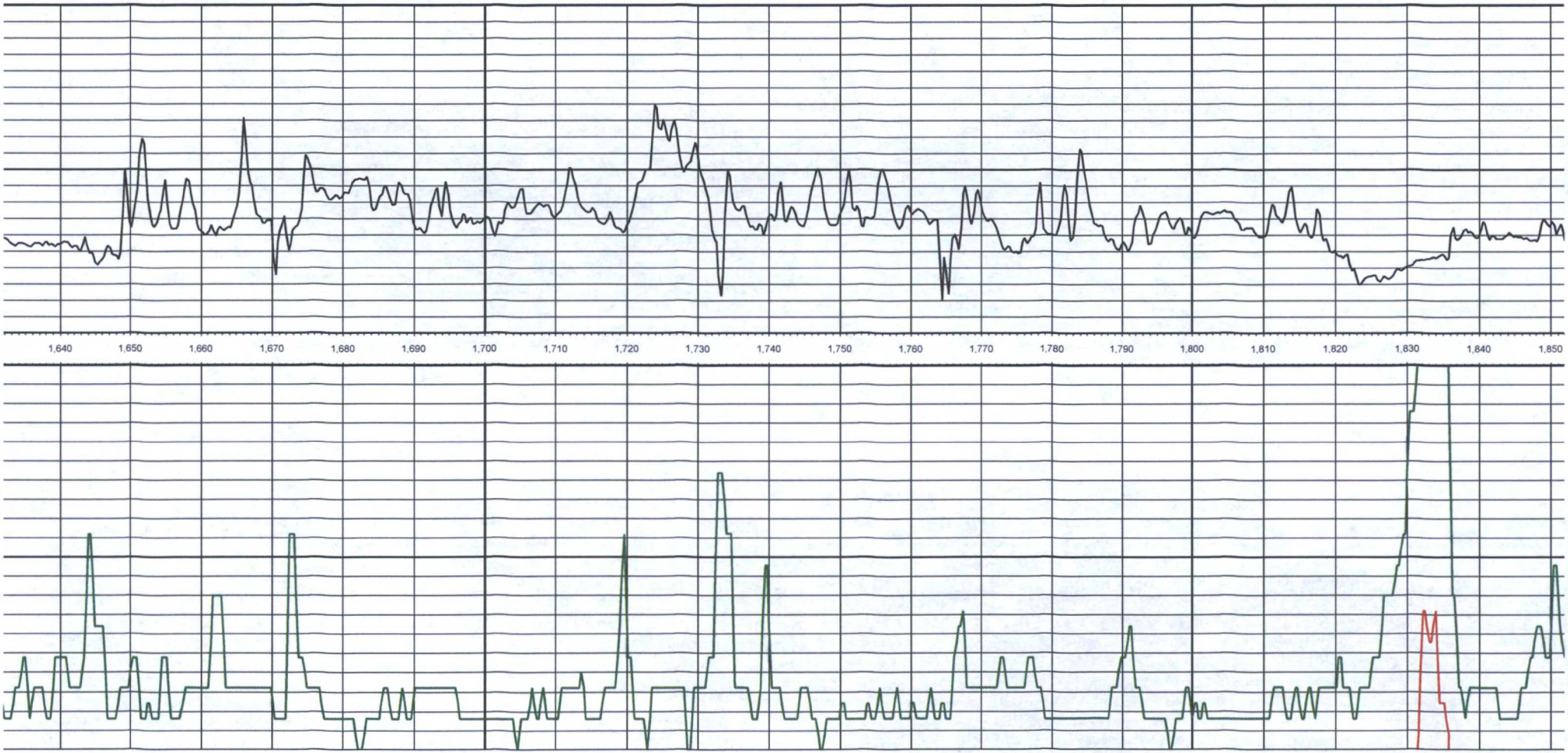
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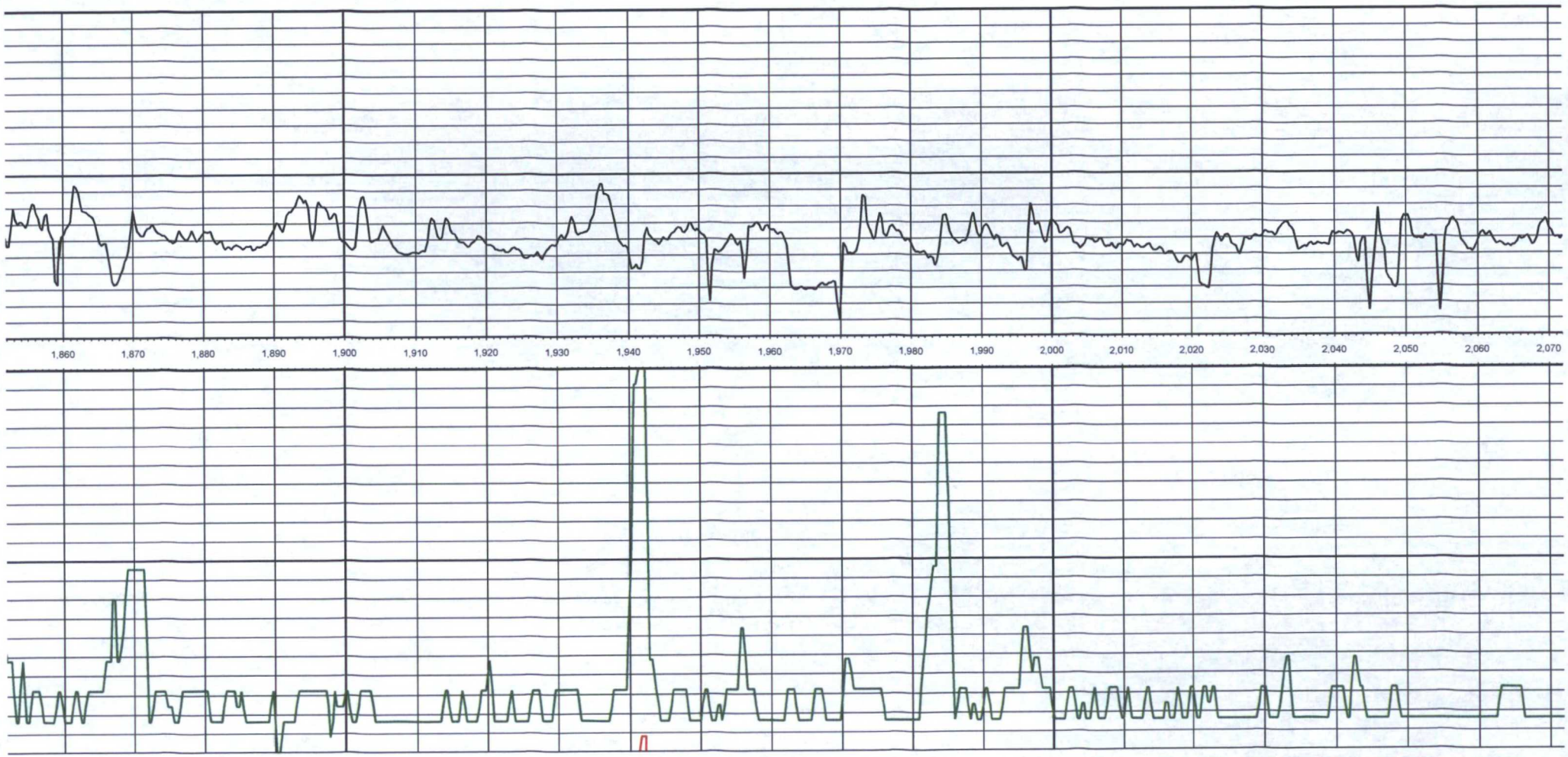
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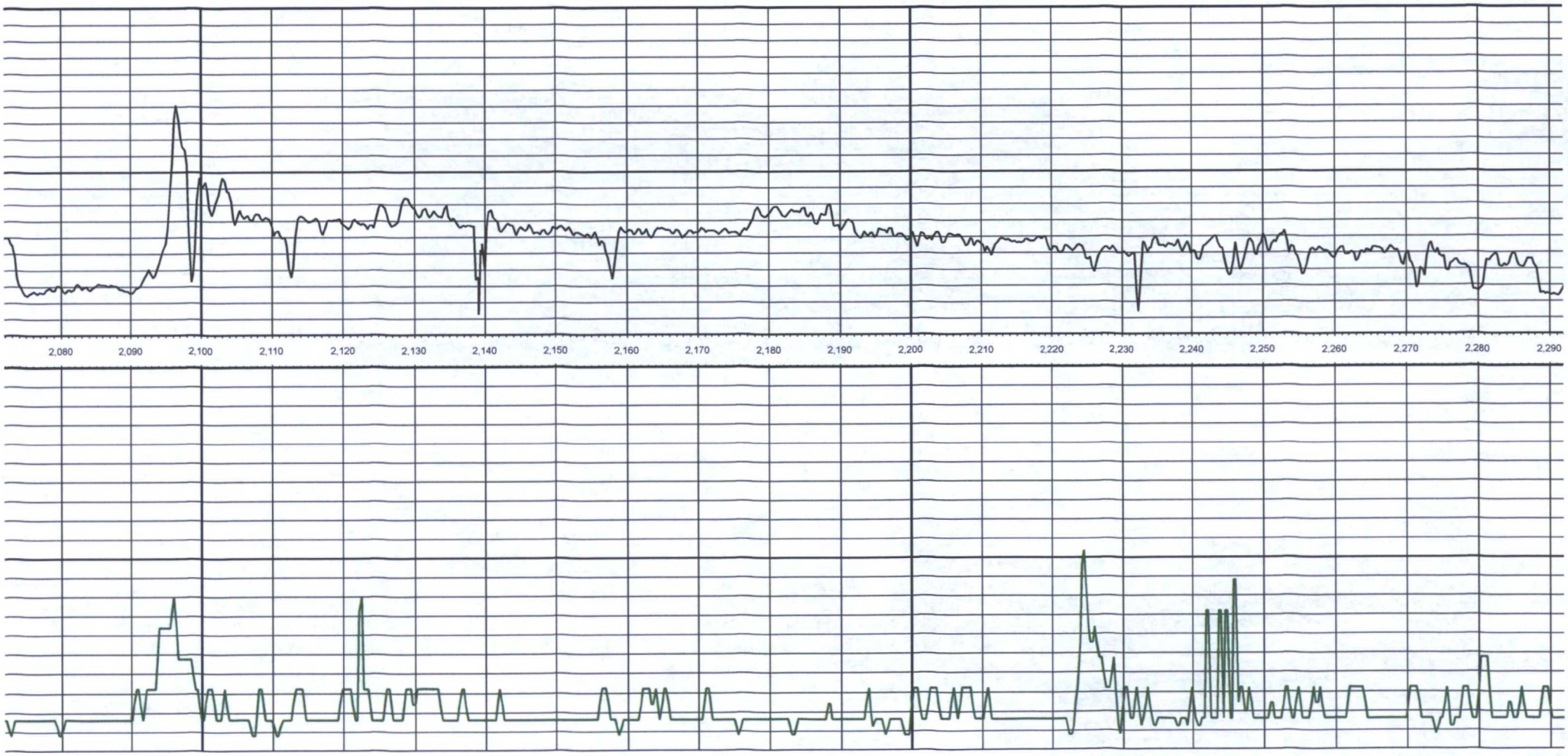
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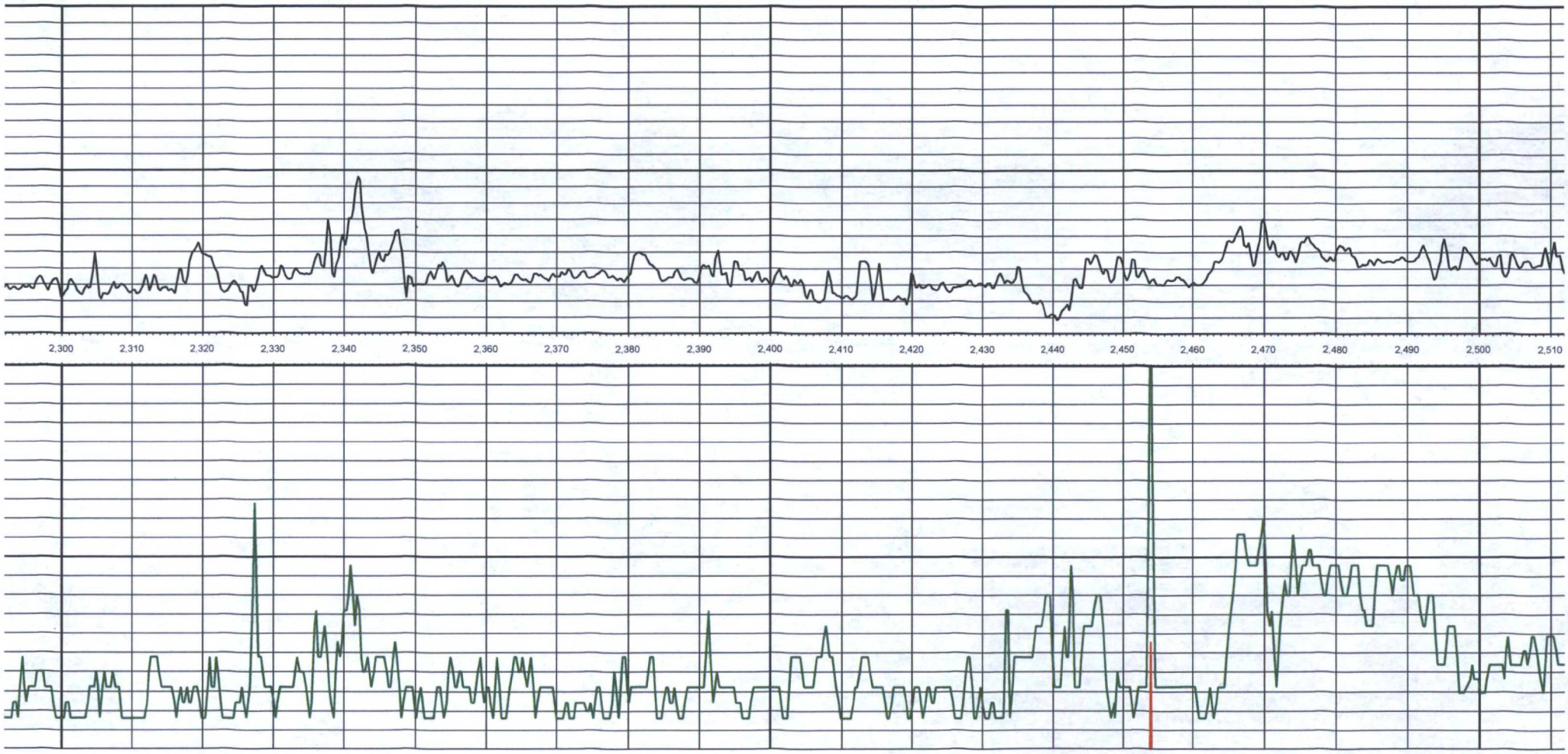
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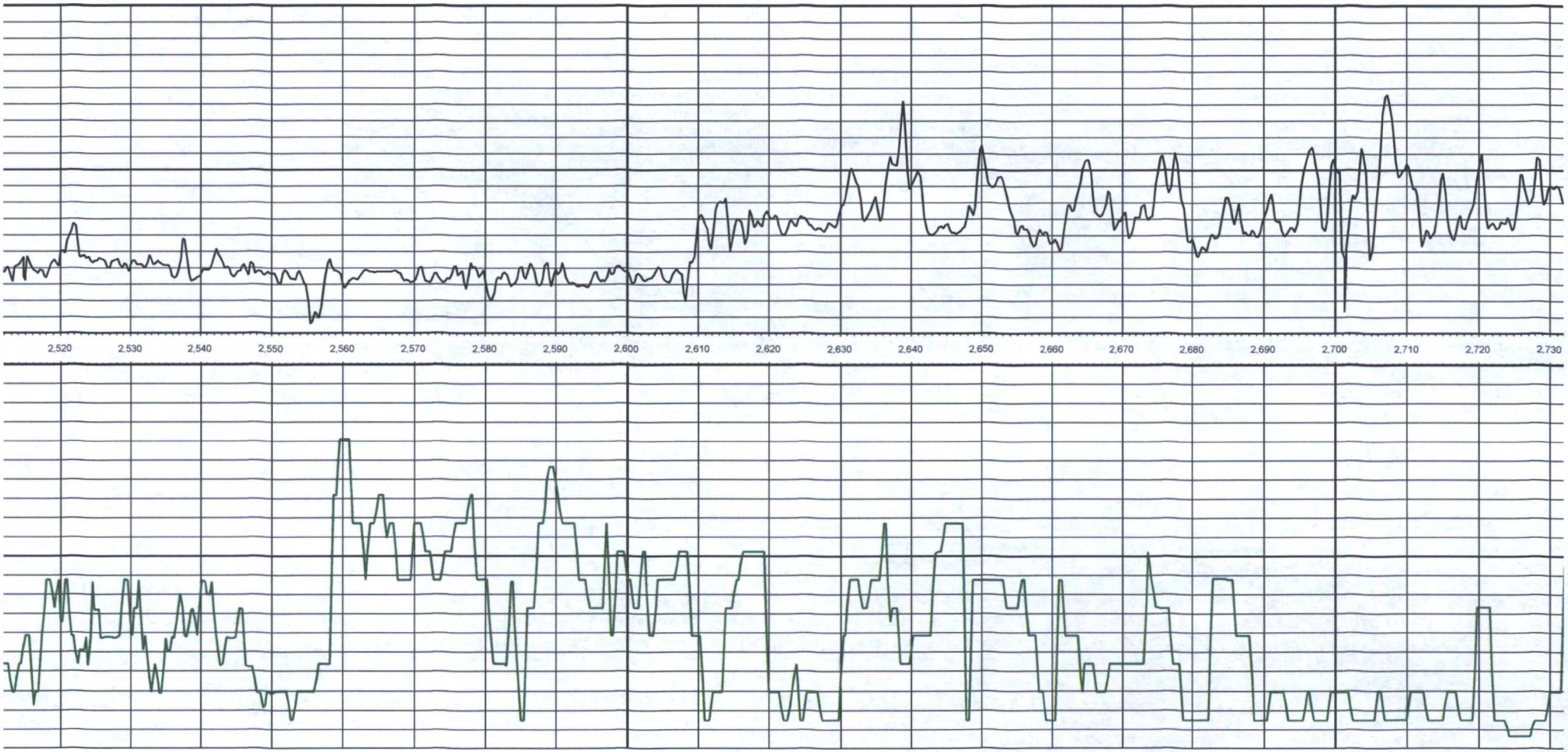
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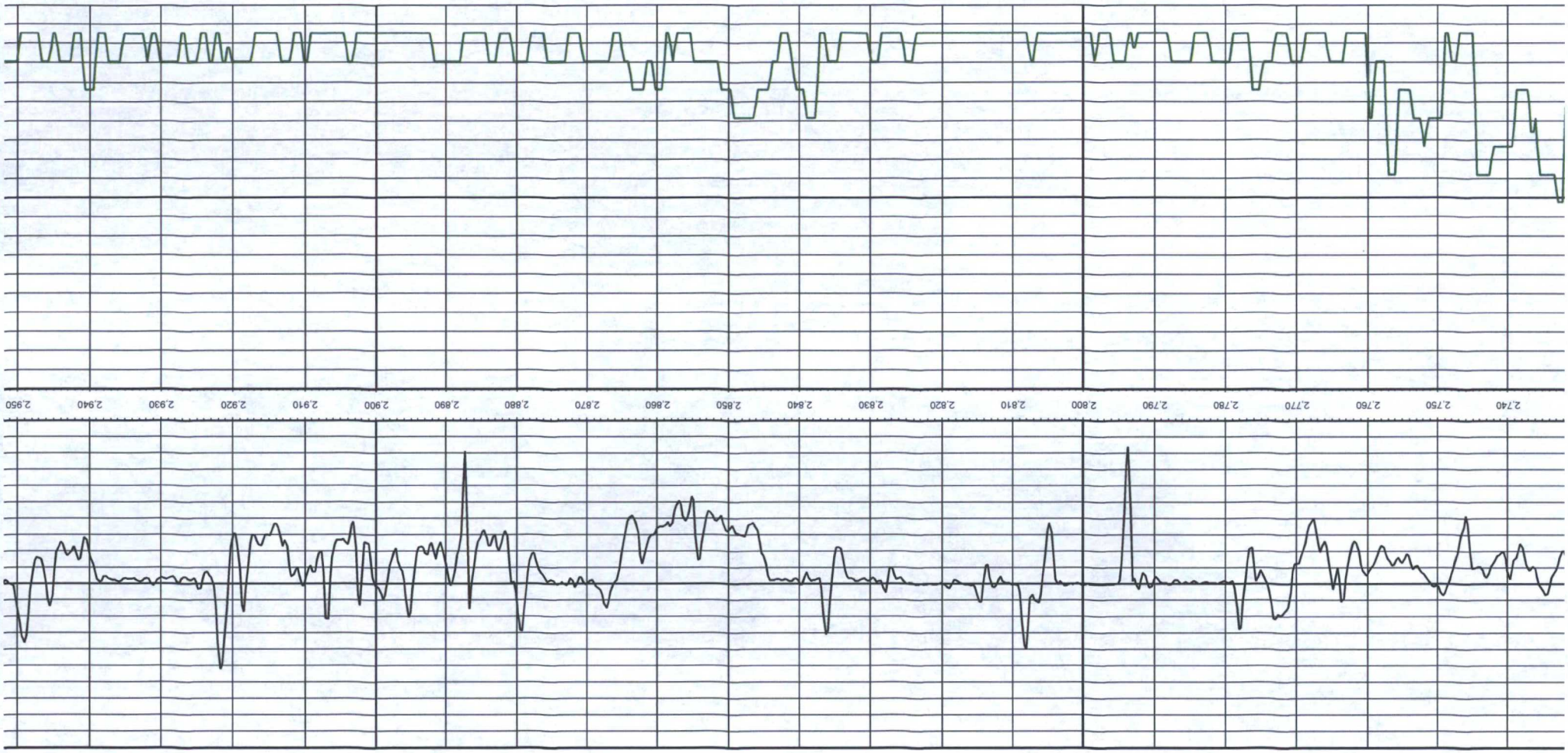
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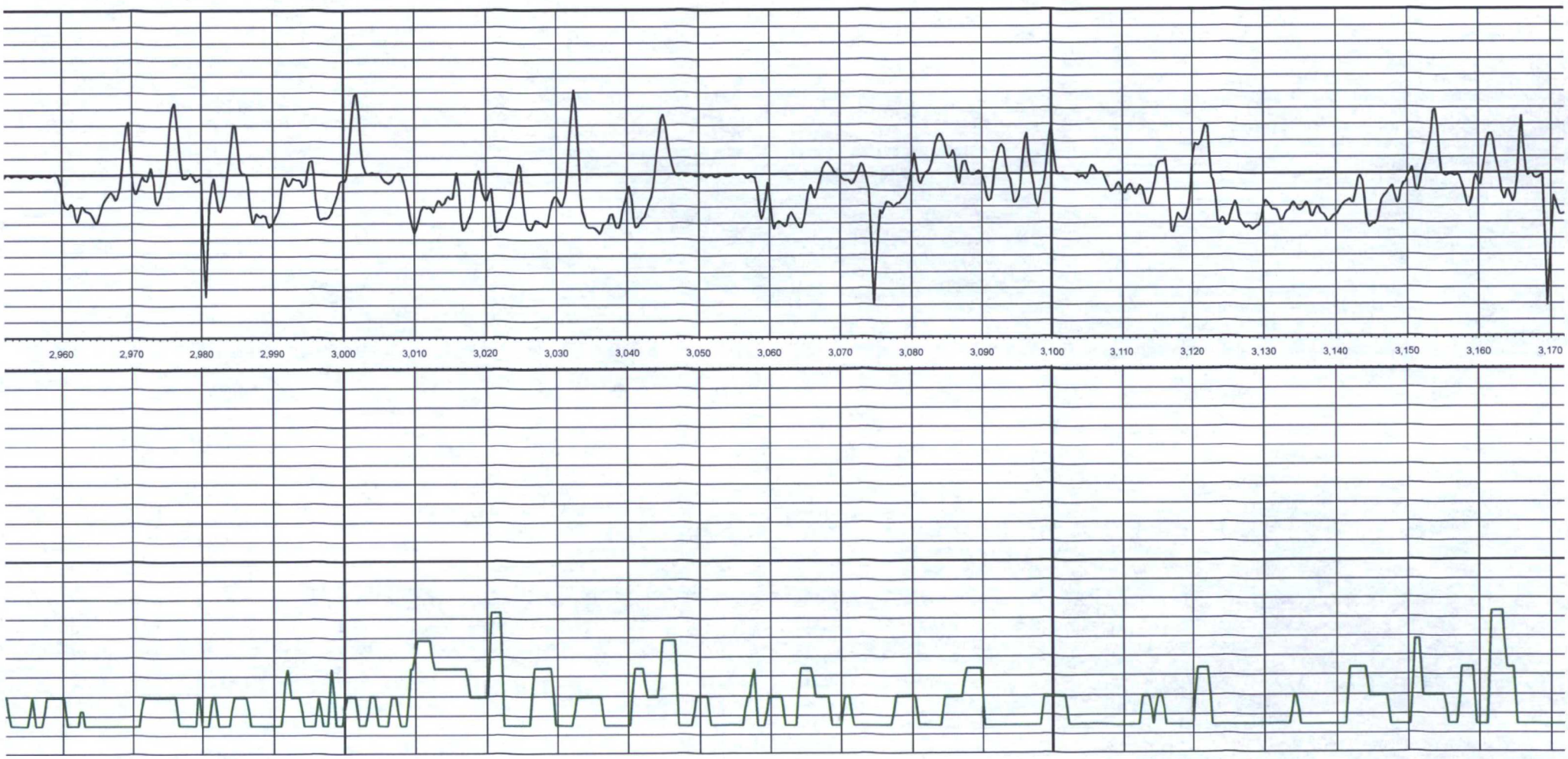
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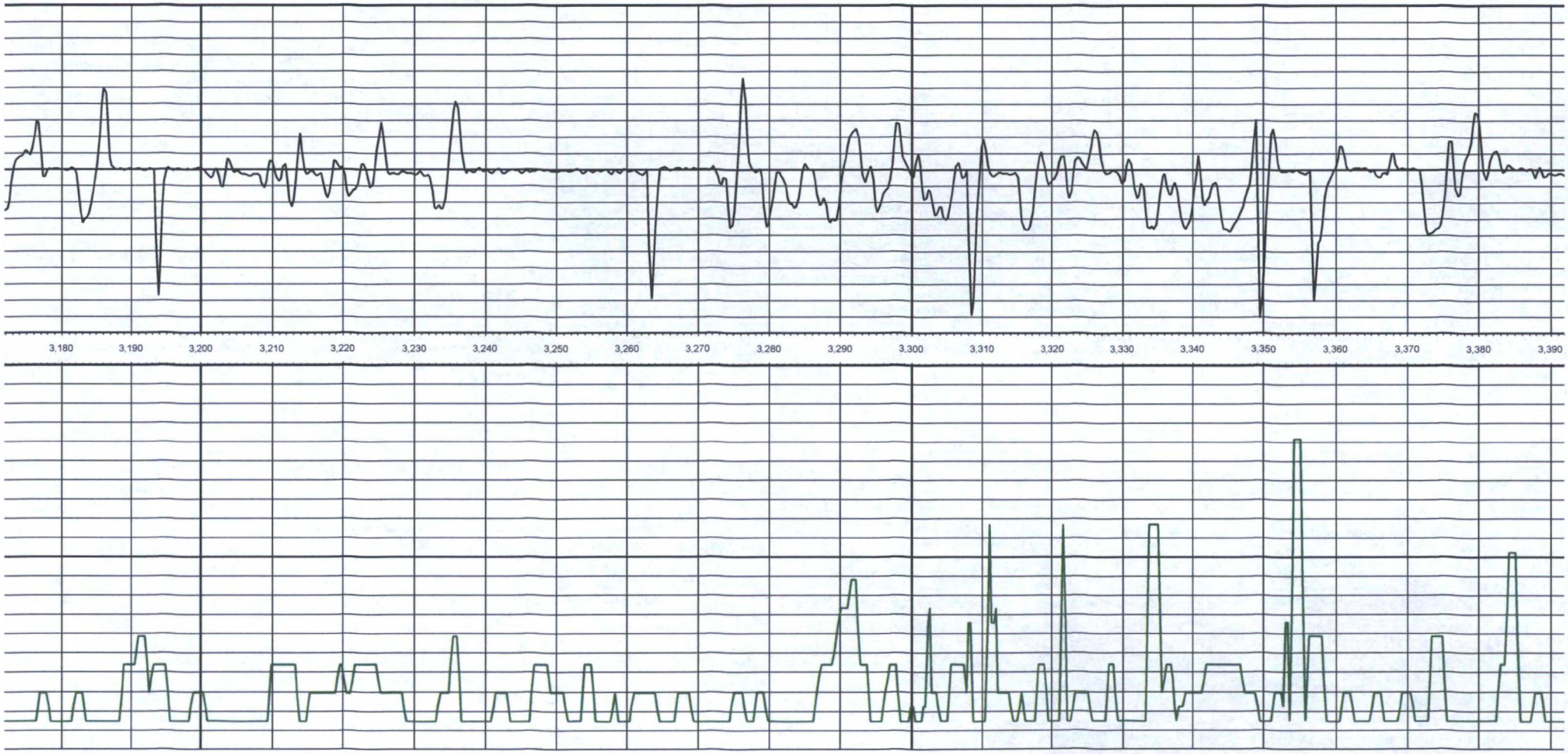
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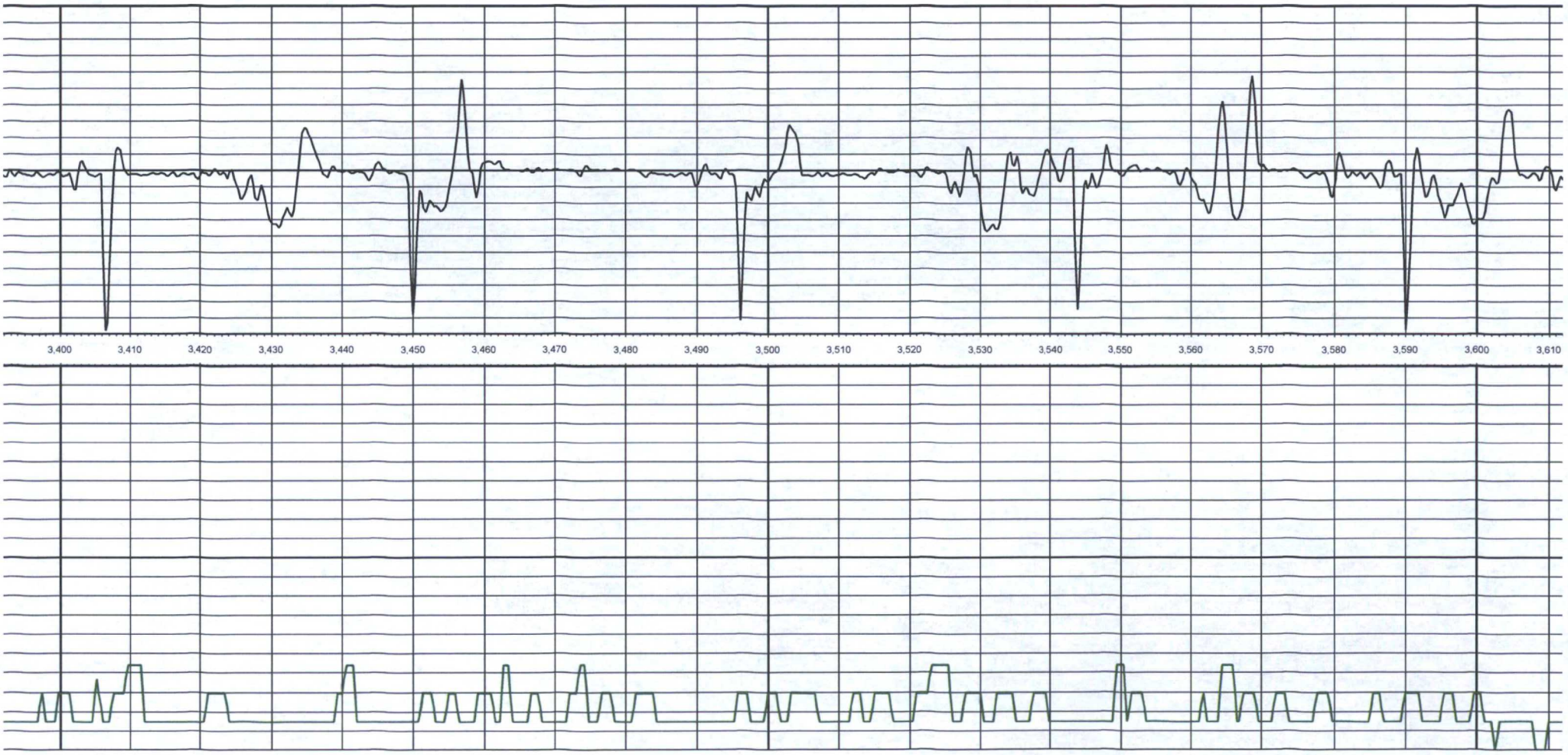
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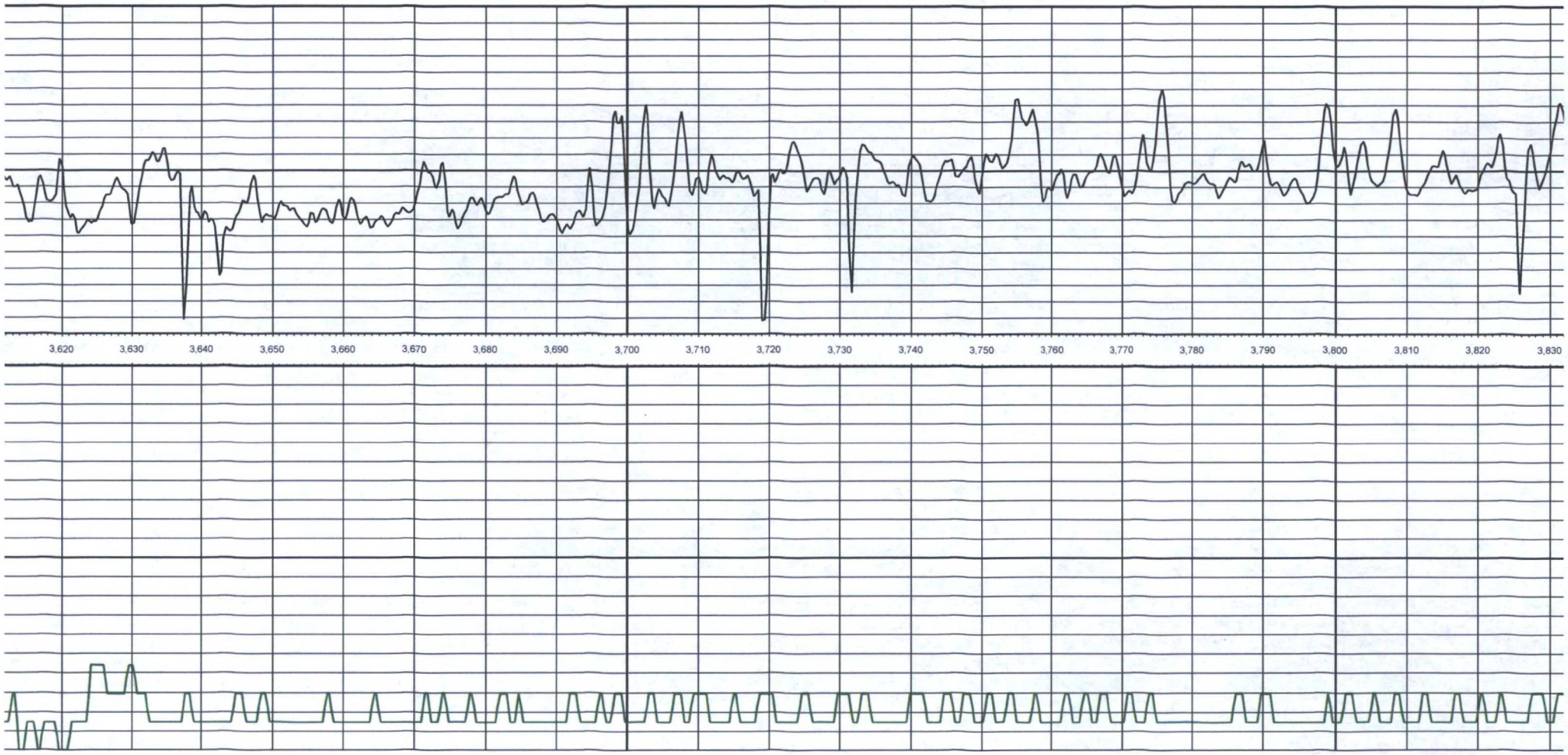
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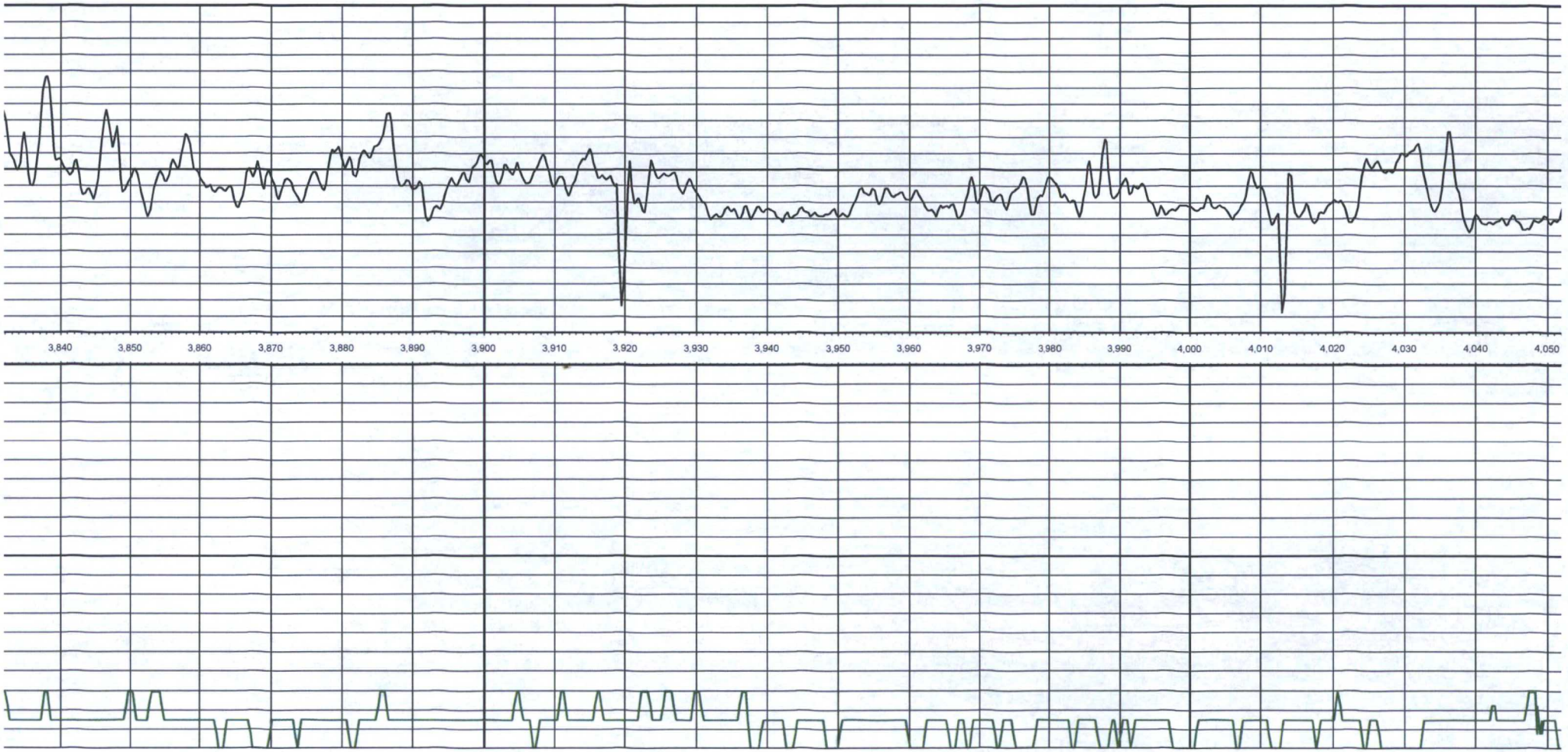
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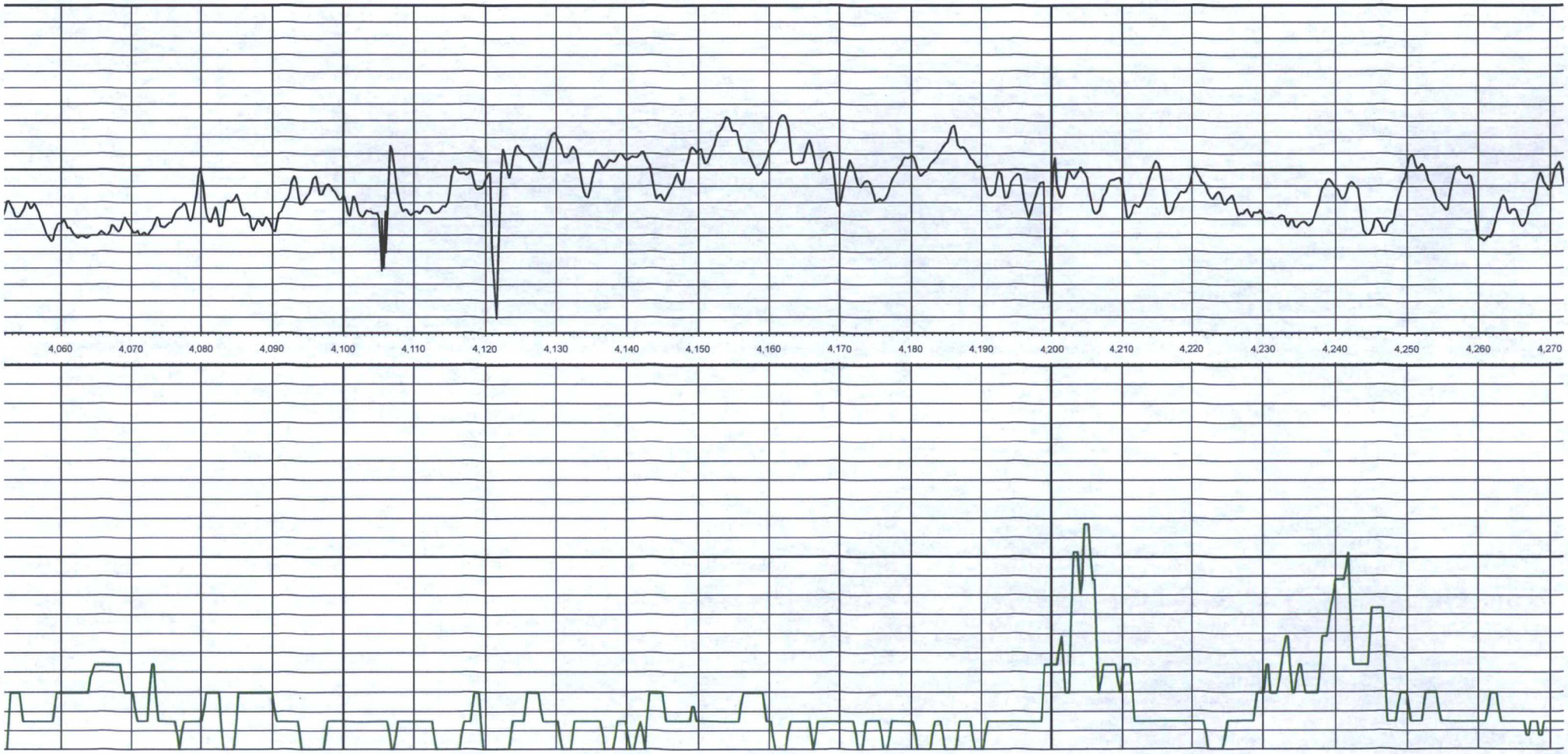
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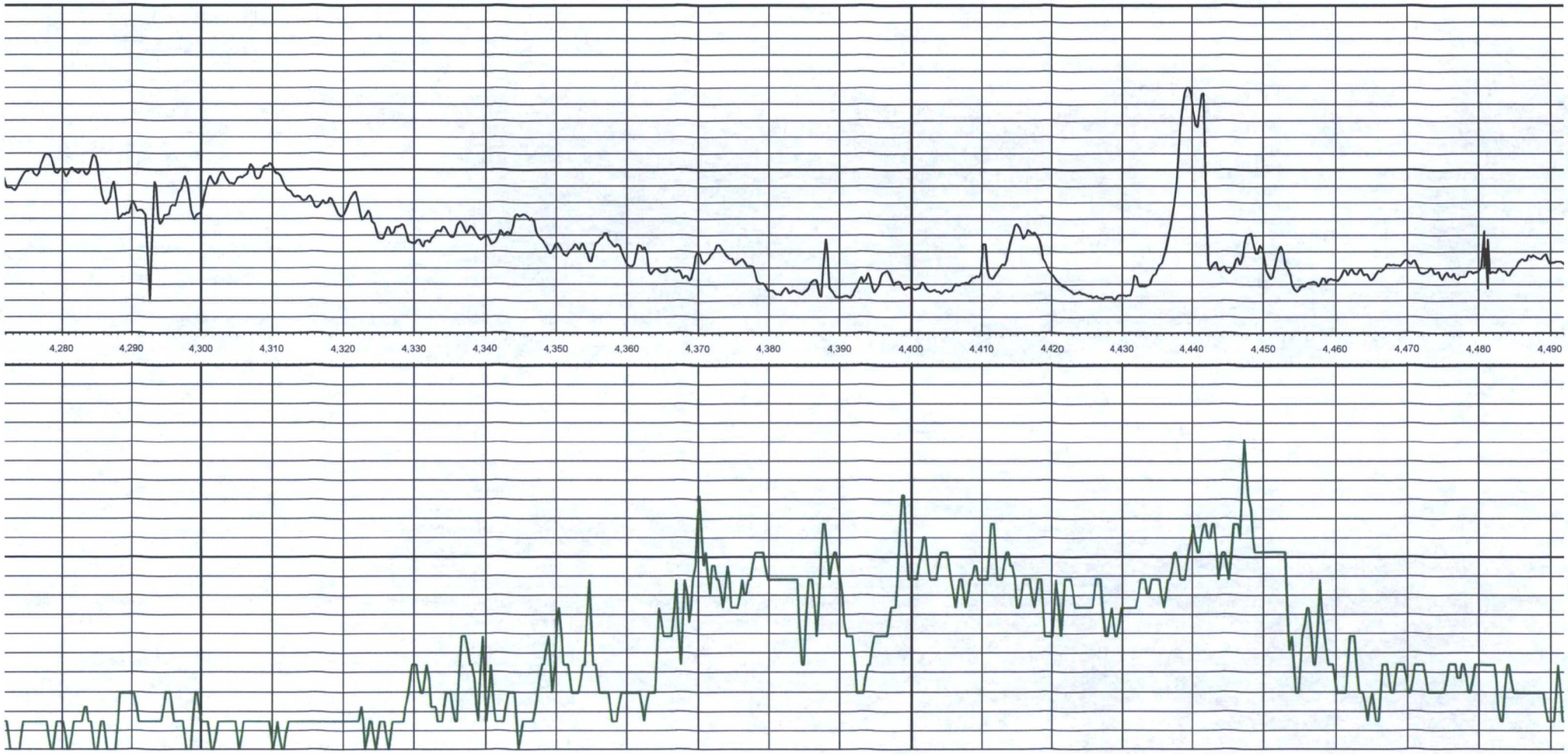
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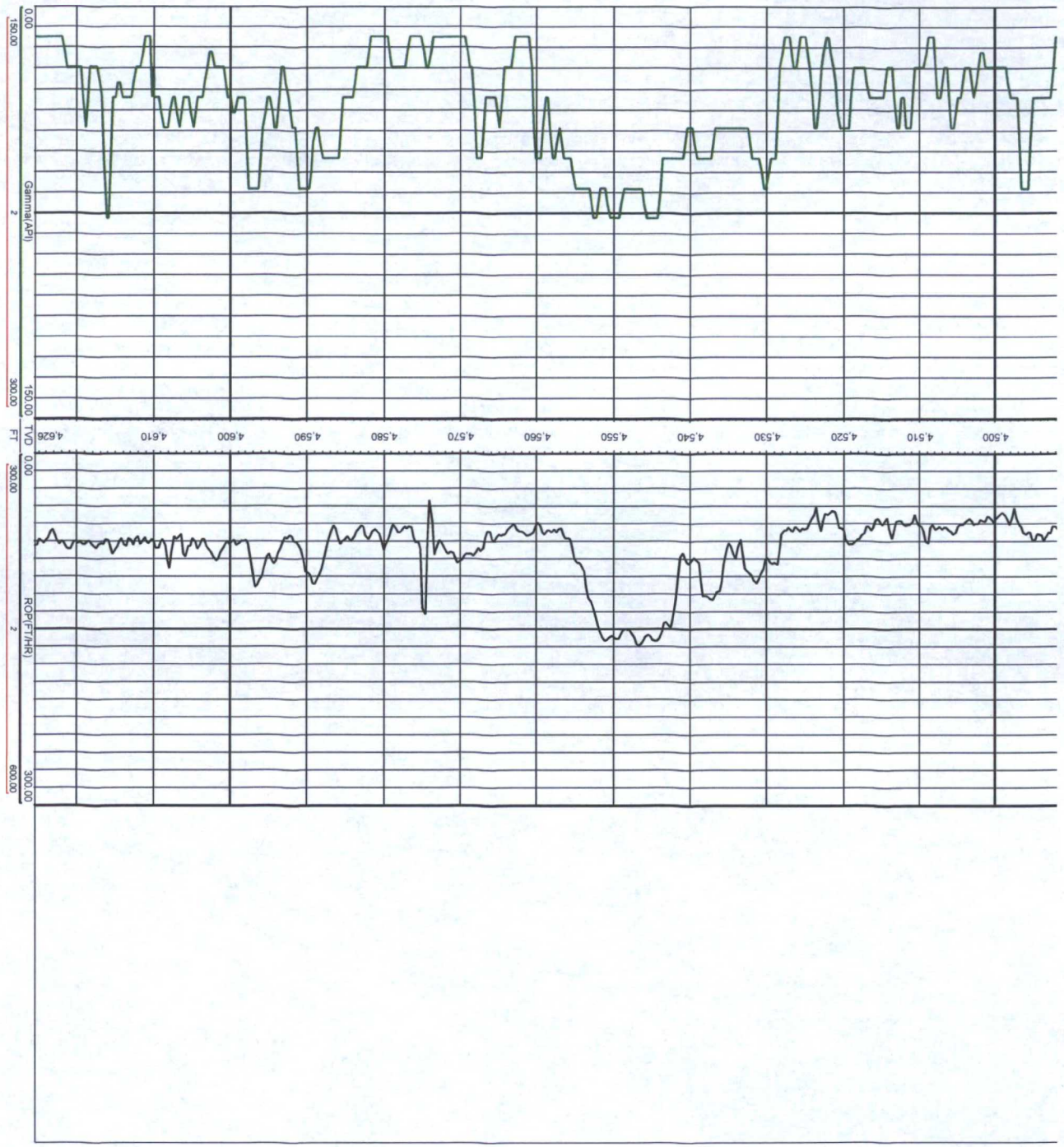
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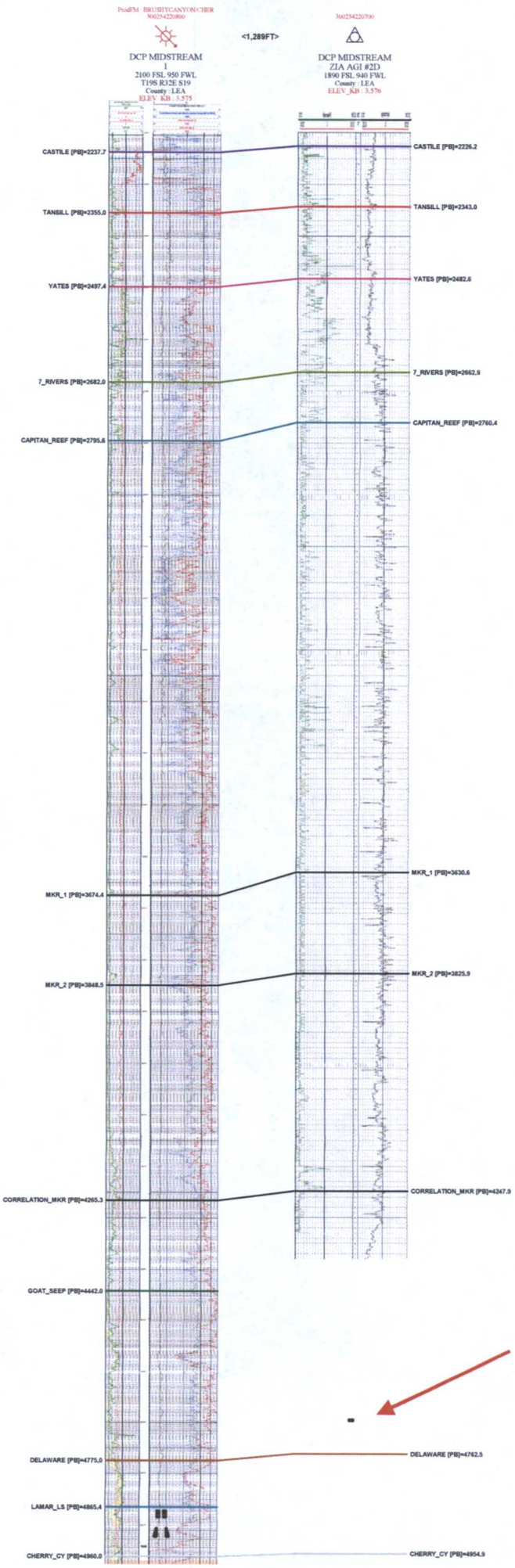


LOUIS J. MAZZULLO, LLC

GEOLEX, INC.: DCP ZIA AGI #2D

Sec. 19, Twp. 19S-32E, Lea Co., NM

STRUCTURE SECTION TIE

AGI #1 (LEFT) TO AGI #2D (RIGHT)

UPDATE 11/12/16 @1400 MT

By: Louis J. Mazzullo, CPG- Morrison, CO

November 12,2016 1:57 PM

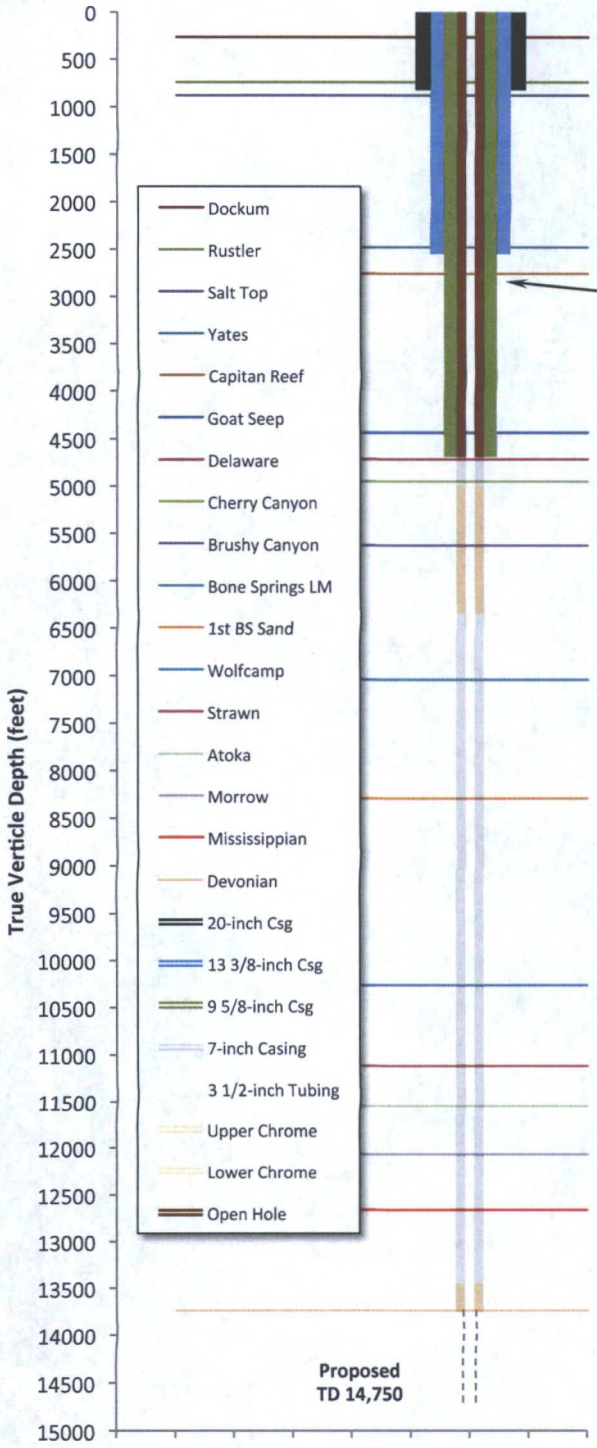
PETRA 11/12/2016 1:57:27 PM

Schematic of Zia AGI #D2 Well Design

Well Name: DCP AGI #D2 (API: 30-025-42207)

Surface Location: Section 19(L), T19S-R32E, (1893' FSL & 950' FWL)
Lea County, New Mexico

GEOLEX INCORPORATED



CONDUCTOR PIPE (30-in) to 120 ft

SURFACE CASING:
20", 106.5 lb/ft, J55, BTC at 826 ft in 26-in hole, cement to surface

1st INTERMEDIATE CASING:
13 3/8-inch, 61 lb/ft, J55, BTC at 2,555 ft in 17.5-in hole, cement to surface

DV Tool / ECP in 9 5/8-in casing at 2,608 ft

2nd INTERMEDIATE CASING:
9 5/8-inch, 40.0 lb/ft, N-80, BTC at 4,696' in 12 1/4-inch hole, cement to surface (both stages)

dcp Midstream	DCP Midstream Zia AGI #D2	2nd Intermediate Casing
	Wellbore Completion Schematic	to 11/14/2016

Second Intermediate Casing Tally

CONCHO

Casing Tally

Well Name: ZIA AGI #2D

Intermediate, Set Depth: 4,696.0ftKB

Casing Run Tally

Run #	Ref #	Item Des	OD (in)	Wt (lb/ft)	Grade	Run?	Len (ft)	Centralized?	Ext Jwlry	Connections	Top (ftKB)	Cum Len (ft)
1		Float Shoe	9 5/8	40.00	N-80	Yes	1.75	No			4,694.3	1.75
2	1	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			4,648.0	47.97
3		Float Collar	9 5/8	40.00	N-80	Yes	1.62	No			4,646.4	49.59
4	2	Casing Joints	9 5/8	40.00	N-80	Yes	46.23	No			4,600.2	95.82
5	3	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			4,554.0	142.04
6	4	Casing Joints	9 5/8	40.00	N-80	Yes	46.23	No			4,507.7	188.27
7	5	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			4,461.5	234.49
8	6	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			4,415.3	280.71
9	7	Casing Joints	9 5/8	40.00	N-80	Yes	46.21	No			4,369.1	326.92
10	8	Casing Joints	9 5/8	40.00	N-80	Yes	45.72	No			4,323.4	372.64
11	9	Casing Joints	9 5/8	40.00	N-80	Yes	45.73	No			4,277.6	418.37
12	10	Casing Joints	9 5/8	40.00	N-80	Yes	45.88	No			4,231.8	464.25
13	11	Casing Joints	9 5/8	40.00	N-80	Yes	45.88	No			4,185.9	510.13
14	12	Casing Joints	9 5/8	40.00	N-80	Yes	45.78	No			4,140.1	555.91
15	13	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			4,093.9	602.13
16	14	Casing Joints	9 5/8	40.00	N-80	Yes	45.76	No			4,048.1	647.89
17	15	Casing Joints	9 5/8	40.00	N-80	Yes	45.72	No			4,002.4	693.61
18	16	Casing Joints	9 5/8	40.00	N-80	Yes	45.71	No			3,956.7	739.32
19	17	Casing Joints	9 5/8	40.00	N-80	Yes	46.21	No			3,910.5	785.53
20	18	Casing Joints	9 5/8	40.00	N-80	Yes	46.25	No			3,864.2	831.78
21	19	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			3,818.0	878.00
22	20	Casing Joints	9 5/8	40.00	N-80	Yes	46.25	No			3,771.8	924.25
23	21	Casing Joints	9 5/8	40.00	N-80	Yes	46.21	No			3,725.5	970.46
24	22	Casing Joints	9 5/8	40.00	N-80	Yes	46.23	No			3,679.3	1,016.69
25	23	Casing Joints	9 5/8	40.00	N-80	Yes	46.21	No			3,633.1	1,062.90
26	24	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			3,586.9	1,109.12
27	25	Casing Joints	9 5/8	40.00	N-80	Yes	46.23	No			3,540.7	1,155.35
28	26	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			3,494.4	1,201.57
29	27	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			3,448.2	1,247.79
30	28	Casing Joints	9 5/8	40.00	N-80	Yes	46.25	No			3,402.0	1,294.04
31	29	Casing Joints	9 5/8	40.00	N-80	Yes	46.21	No			3,355.8	1,340.25
32	30	Casing Joints	9 5/8	40.00	N-80	Yes	46.21	No			3,309.5	1,386.46
33	31	Casing Joints	9 5/8	40.00	N-80	Yes	46.24	No			3,263.3	1,432.70
34	32	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			3,217.1	1,478.92
35	33	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			3,170.9	1,525.14
36	34	Casing Joints	9 5/8	40.00	N-80	Yes	46.24	No			3,124.6	1,571.38
37	35	Casing Joints	9 5/8	40.00	N-80	Yes	46.19	No			3,078.4	1,617.57
38	36	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			3,032.2	1,663.79
39	37	Casing Joints	9 5/8	40.00	N-80	Yes	46.23	No			2,986.0	1,710.02
40	38	Casing Joints	9 5/8	40.00	N-80	Yes	44.45	No			2,941.5	1,754.47
41	39	Casing Joints	9 5/8	40.00	N-80	Yes	42.27	No			2,899.3	1,796.74
42	40	Casing Joints	9 5/8	40.00	N-80	Yes	44.44	No			2,854.8	1,841.18
43	41	Casing Joints	9 5/8	40.00	N-80	Yes	44.63	No			2,810.2	1,885.81
44	42	Casing Joints	9 5/8	40.00	N-80	Yes	43.91	No			2,766.3	1,929.72

CONCHO

Casing Tally

Well Name: ZIA AGI #2D **Intermediate, Set Depth: 4,696.0ftKB**

Casing Run Tally

Run #	Ref #	Item Des	OD (in)	Wt (lb/ft)	Grade	Run?	Len (ft)	Centralized?	Ext Jwlry	Connections	Top (ftKB)	Cum Len (ft)
45	43	Casing Joints	9 5/8	40.00	N-80	Yes	44.44	No			2,721.8	1,974.16
46	44	Casing Joints	9 5/8	40.00	N-80	Yes	44.44	No			2,677.4	2,018.60
47	45	Casing Joints	9 5/8	40.00	N-80	Yes	44.43	No			2,633.0	2,063.03
48		External Casing Packer	9 5/8	40.00	N-80	Yes	24.69	No			2,608.3	2,087.72
49	46	Casing Joints	9 5/8	40.00	N-80	Yes	44.41	No			2,563.9	2,132.13
50	47	Casing Joints	9 5/8	40.00	N-80	Yes	43.89	No			2,520.0	2,176.02
51	48	Casing Joints	9 5/8	40.00	N-80	Yes	44.43	No			2,475.6	2,220.45
52	49	Casing Joints	9 5/8	40.00	N-80	Yes	44.43	No			2,431.1	2,264.88
53	50	Casing Joints	9 5/8	40.00	N-80	Yes	44.42	No			2,386.7	2,309.30
54	51	Casing Joints	9 5/8	40.00	N-80	Yes	44.39	No			2,342.3	2,353.69
55	52	Casing Joints	9 5/8	40.00	N-80	Yes	43.84	No			2,298.5	2,397.53
56	53	Casing Joints	9 5/8	40.00	N-80	Yes	44.31	No			2,254.2	2,441.84
57	54	Casing Joints	9 5/8	40.00	N-80	Yes	44.44	No			2,209.7	2,486.28
58	55	Casing Joints	9 5/8	40.00	N-80	Yes	44.43	No			2,165.3	2,530.71
59	56	Casing Joints	9 5/8	40.00	N-80	Yes	43.68	No			2,121.6	2,574.39
60	57	Casing Joints	9 5/8	40.00	N-80	Yes	44.37	No			2,077.2	2,618.76
61	58	Casing Joints	9 5/8	40.00	N-80	Yes	39.52	No			2,037.7	2,658.28
62	59	Casing Joints	9 5/8	40.00	N-80	Yes	38.04	No			1,999.7	2,696.32
63	60	Casing Joints	9 5/8	40.00	N-80	Yes	38.20	No			1,961.5	2,734.52
64	61	Casing Joints	9 5/8	40.00	N-80	Yes	39.09	No			1,922.4	2,773.61
65	62	Casing Joints	9 5/8	40.00	N-80	Yes	38.28	No			1,884.1	2,811.89
66	63	Casing Joints	9 5/8	40.00	N-80	Yes	38.80	No			1,845.3	2,850.69
67	64	Casing Joints	9 5/8	40.00	N-80	Yes	43.79	No			1,801.5	2,894.48
68	65	Casing Joints	9 5/8	40.00	N-80	Yes	43.83	No			1,757.7	2,938.31
69	66	Casing Joints	9 5/8	40.00	N-80	Yes	44.39	No			1,713.3	2,982.70
70	67	Casing Joints	9 5/8	40.00	N-80	Yes	44.41	No			1,668.9	3,027.11
71	68	Casing Joints	9 5/8	40.00	N-80	Yes	44.63	No			1,624.3	3,071.74
72	69	Casing Joints	9 5/8	40.00	N-80	Yes	43.77	No			1,580.5	3,115.51
73	70	Casing Joints	9 5/8	40.00	N-80	Yes	44.41	No			1,536.1	3,159.92
74	71	Casing Joints	9 5/8	40.00	N-80	Yes	44.43	No			1,491.7	3,204.35
75	72	Casing Joints	9 5/8	40.00	N-80	Yes	44.42	No			1,447.2	3,248.77
76	73	Casing Joints	9 5/8	40.00	N-80	Yes	44.44	No			1,402.8	3,293.21
77	74	Casing Joints	9 5/8	40.00	N-80	Yes	44.41	No			1,358.4	3,337.62
78	75	Casing Joints	9 5/8	40.00	N-80	Yes	44.43	No			1,314.0	3,382.05
79	76	Casing Joints	9 5/8	40.00	N-80	Yes	44.43	No			1,269.5	3,426.48
80	77	Casing Joints	9 5/8	40.00	N-80	Yes	45.89	No			1,223.6	3,472.37
81	78	Casing Joints	9 5/8	40.00	N-80	Yes	45.71	No			1,177.9	3,518.08
82	79	Casing Joints	9 5/8	40.00	N-80	Yes	46.21	No			1,131.7	3,564.29
83	80	Casing Joints	9 5/8	40.00	N-80	Yes	45.91	No			1,085.8	3,610.20
84	81	Casing Joints	9 5/8	40.00	N-80	Yes	46.21	No			1,039.6	3,656.41
85	82	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			993.4	3,702.63
86	83	Casing Joints	9 5/8	40.00	N-80	Yes	46.21	No			947.2	3,748.84

CONCHO

Casing Tally

Well Name: ZIA AGI #2D

Intermediate, Set Depth: 4,696.0ftKB

Casing Run Tally

Run #	Ref #	Item Des	OD (in)	Wt (lb/ft)	Grade	Run?	Len (ft)	Centralized?	Ext Jwlry	Connections	Top (ftKB)	Cum Len (ft)
87	84	Casing Joints	9 5/8	40.00	N-80	Yes	46.23	No			900.9	3,795.07
88	85	Casing Joints	9 5/8	40.00	N-80	Yes	45.11	No			855.8	3,840.18
89	86	Casing Joints	9 5/8	40.00	N-80	Yes	45.68	No			810.1	3,885.86
90	87	Casing Joints	9 5/8	40.00	N-80	Yes	45.92	No			764.2	3,931.78
91	88	Casing Joints	9 5/8	40.00	N-80	Yes	46.26	No			718.0	3,978.04
92	89	Casing Joints	9 5/8	40.00	N-80	Yes	46.21	No			671.8	4,024.25
93	90	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			625.5	4,070.47
94	91	Casing Joints	9 5/8	40.00	N-80	Yes	46.24	No			579.3	4,116.71
95	92	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			533.1	4,162.93
96	93	Casing Joints	9 5/8	40.00	N-80	Yes	46.23	No			486.8	4,209.16
97	94	Casing Joints	9 5/8	40.00	N-80	Yes	45.90	No			440.9	4,255.06
98	95	Casing Joints	9 5/8	40.00	N-80	Yes	38.24	No			402.7	4,293.30
99	96	Casing Joints	9 5/8	40.00	N-80	Yes	38.30	No			364.4	4,331.60
100	97	Casing Joints	9 5/8	40.00	N-80	Yes	46.24	No			318.2	4,377.84
101	98	Casing Joints	9 5/8	40.00	N-80	Yes	46.23	No			271.9	4,424.07
102	99	Casing Joints	9 5/8	40.00	N-80	Yes	46.23	No			225.7	4,470.30
103	100	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			179.5	4,516.52
104	101	Casing Joints	9 5/8	40.00	N-80	Yes	46.25	No			133.2	4,562.77
105	102	Casing Joints	9 5/8	40.00	N-80	Yes	46.24	No			87.0	4,609.01
106	103	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			40.8	4,655.23
107	104	Casing Joints	9 5/8	40.00	N-80	Yes	46.22	No			-5.5	4,701.45
	105	Casing Joints	9 5/8	40.00	N-80	No	46.24	No				
	106	Casing Joints	9 5/8	40.00	N-80	No	46.23	No				
	107	Casing Joints	9 5/8	40.00	N-80	No	46.26	No				
	108	Casing Joints	9 5/8	40.00	N-80	No	46.21	No				
	109	Casing Joints	9 5/8	40.00	N-80	No	46.24	No				
	110	Casing Joints	9 5/8	40.00	N-80	No	46.23	No				
	111	Casing Joints	9 5/8	40.00	N-80	No	46.27	No				
	112	Casing Joints	9 5/8	40.00	N-80	No	46.23	No				
	113	Casing Joints	9 5/8	40.00	N-80	No	-7,236.85	No				

Halliburton Laboratory Results

HALLIBURTON

Permian Basin, Odessa

Lab Results- 1st stage Lead

Job Information

Request/Slurry	2337608 /1	**Rig Name**	Patriot 2	**Date**	Aug/31/2016
Submitted By	Nasraldin Alarbi	**Job Type**	Intermediate Casing	**Bulk Plant**	
Customer	Cog Operating LLC	**Location**	Lea	**Well**	Zia AGI 2D

Well Information

Casing/Liner Size	8 5/8	**Depth MD**	4700 ft	**BHST**	115°F
Hole Size	10 5/8	**Depth TVD**	4700 ft	**BHCT**	93 °F
Pressure	2700 psi				

Cement Information - Lead Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties		
		EconoCem				Slurry Density	12.7	lbm/gal
104.24	L/100kg	Fresh Water	Lab	30.08.13		Slurry Yield	2.005	ft3/sack
		EconoCem HLC		15.06.16		Water Requirement	10.867	Gal/sk
100	%BWOC	Cement Blend				Total Mix Fluid	10.867	Gal/sk
5	%BWOW	NaCl (Sodium Chloride) Salt	Bulk Blend	13.05.16				
3	lb/sk	Kol-Seal	Lab	01.07.15	lot -01/15	Water Source	Fresh Water	
0.3	%BWOC	HR-800	Bulk Blend	02.06.16	DR036800989	Water Chloride		

Pilot Test Results Request ID 2337608 /1

Thickening Time - ON-OFF-ON, Historical Data

Sep/01/2016

Test Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:min)
92	3000	15	5:57

UCA Comp. Strength, Historical Data referenced from ID#2283640

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)
114	3000	5:13	17:34	190	359	630	943

1ST (TYPO)

HALLIBURTON

Permian Basin, Odessa

Lab Results- 2nd stage Tail

Job Information

Request/Slurry	2347986/1	**Rig Name**		**Date**	NOV/01/2016
Submitted By	Nasraldin Alarbi	**Job Type**	Intermediate Casing	**Bulk Plant**	
Customer	COG	**Location**	Upton	**Well**	Zia AGI 2D

Well Information

Casing/Liner Size	7 in / 177.8 mm	**Depth MD**	4700 ft	**BHST**	115°F
Hole Size	8.75 in / 222.25 mm	**Depth TVD**	4700 ft	**BHCT**	93 °F
Pressure	207 bar / 3000 psi				

Cement Information - Tail Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties		
		HalCem				Slurry Density	14.8	lbm/gal
100	%BWOC	Cemex Premium Plus C	Bulk Blend	31.10.16	silo 25	Slurry Yield	1.333	ft3/sack
6.419	Gal/sk	Field (Fresh) Water	Lab	30.08.13	Lab Tap	Water Requirement	6.419	Gal/sk
0.1	%BWOC	HR-800	Bulk Blend	07.09.16	DR076801935			

Water Source	Field (Fresh) Water
Water Chloride	

Pilot Test Results Request ID 2347986/1

Thickening Time - ON-OFF-ON, NOV/03/2016

Test Temp (°F)	Pressure (psi)	Batch Mix (min)	Reached in (min)	70 Bc (hh:min)
95	2572	0	38	3:06

UCA Comp. Strength, Historical Data referenced from ID# 2311781/3

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	24 hr CS (psi)	End CS (psi)	End Time (hrs)
108	4000	3:49	6:55	658	1063	1542	1849	46.01

HALLIBURTON

Permian Basin, Odessa

Lab Results- 2nd stage Lead

Job Information

Request/Slurry	2330054/1	**Rig Name**	Patriot 2	**Date**	Jun/07/2016
Submitted By	Nasraldin Alarbi	**Job Type**	Intermediate Casing	**Bulk Plant**	
Customer	Cog Operating LLC	**Location**	Lea	**Well**	Zia AGI 2D

Well Information

Casing/Liner Size		**Depth MD**	2660 ft	**BHST**	95°F
Hole Size		**Depth TVD**	2660 ft	**BHCT**	88 °F
Pressure	2400 psi				

Cement Information - Lead Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.
		HalCem			
100	%BWOC	Cemex Premium Plus C	Bulk Blend	01.06.16	
9.155	Gal/sk	Fresh Water	Lab	30.08.13	
4	%BWOC	Bentonite Wyoming - PB	Bulk Blend	01.06.16	

Cement Properties

Slurry Density	13.503	lbm/gal
Slurry Yield	1.726	ft3/sack
Water Requirement	9.155	Gal/sk

Water Source	Fresh Water
Water Chloride	

Pilot Test Results Request ID 2330054/1

Thickening Time — **Jul/22/2016**

Temp (°F)	Pressure (psi)	Reached in (min)	Start BC	70 Bc (hh:mm)
92	2600	17	21	5:07

UCA Comp. Strength — **Jul/20/2016**

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)
80	4000	5:48	14:10	150	379	940	1310

HALLIBURTON

Permian Basin, Artesia

Lab Results- 2nd stage Tail

Job Information

Request/Slurry	2328853 /1	**Rig Name**	Patriot 2	**Date**	Jul/13/2016
Submitted By	Nasraldin Alarbi	**Job Type**	Intermediate Casing	**Bulk Plant**	
Customer	Cog Operating LLC	**Location**	Lea	**Well**	Zia AGI 2D

Well Information

Casing/Liner Size		**Depth MD**	2660 ft	**BHST**	95°F
Hole Size		**Depth TVD**	2660 ft	**BHCT**	88 °F
Pressure	2500 psi				

Cement Information - Tail Design

Conc	UOM	Cement/Additive	Sample Type	Sample Date	Lot No.	Cement Properties		
		HalCem				Slurry Density	14.8	lbm/gal
100	% BWOC	Cemex Premium Plus C	Bulk Blend	22.01.16	silo 4&5	Slurry Yield	1.329	ft3/sack
6.374	Gal/sk	Fresh Water				Water Requirement	6.374	Gal/sk

Water Source	Fresh Water
Water Chloride	

Pilot Test Results Request ID 2328853 /1

UCA Comp. Strength, Historical Data — Jul/16/2016

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	1000 psi(hh:mm)	24 hr CS (psi)	48 hr CS (psi)
111	4000	3:02	5:28	8:21	18:25	2155

Thickening Time, Historical Data — Jul/13/2016

Temp (°F)	Pressure (psi)	Batch Mix (min)	Reached in (min)	Start BC	70 Bc (hh:mm)
91	2500	0	15	8	3:05

Halliburton Cement Report

HALLIBURTON

iCem® Service

DCP MIDSTREAM LP

For:

Date: Sunday, November 13, 2016

2

Case 1

Job Date: Sunday, November 13, 2016

Sincerely,

1.0 Real-Time Job Summary

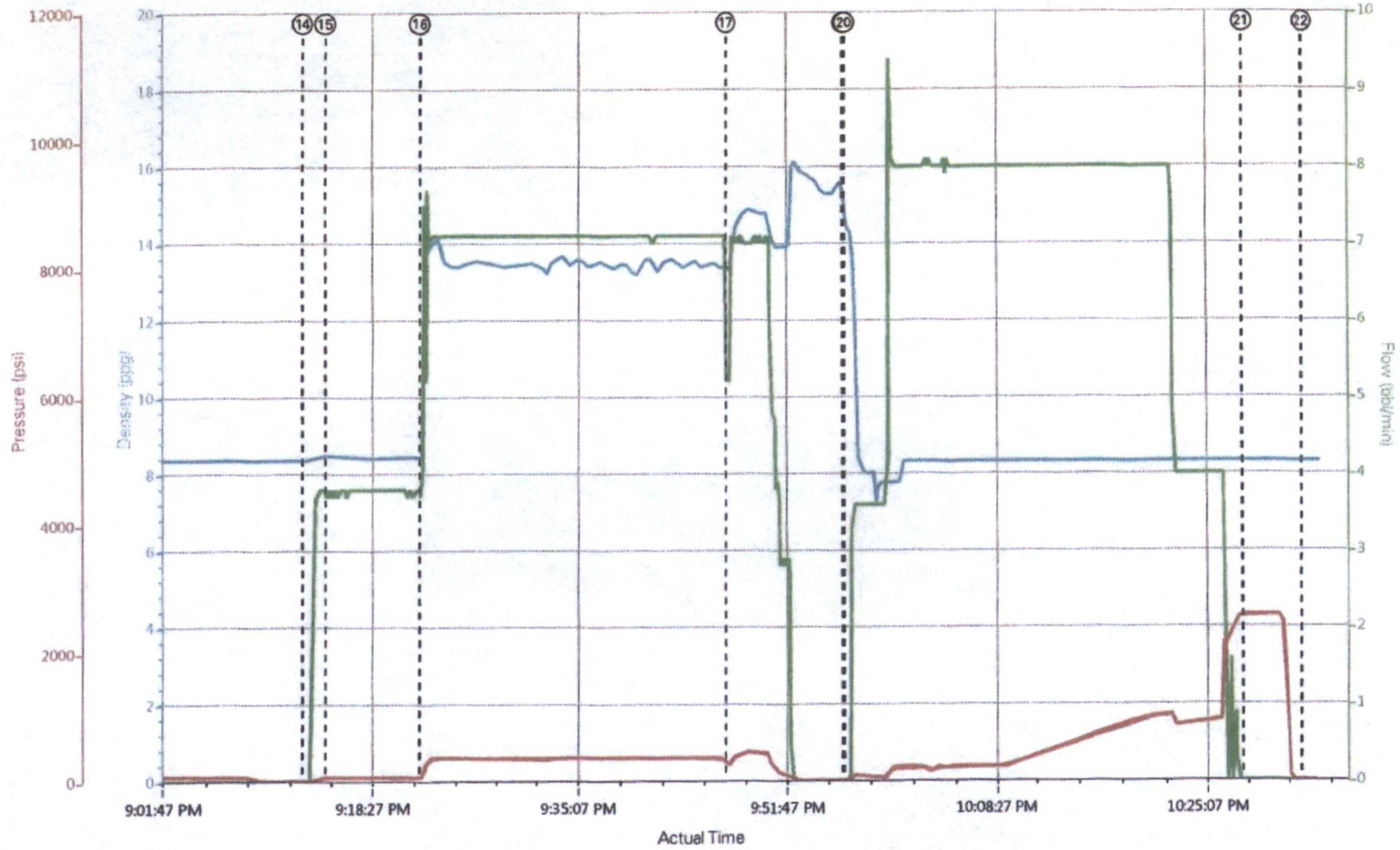
1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pass-Side Pump Pressure (psi)	Comments
Event	1	Call Out	Call Out	11/13/2016	04:00:00	USER					
Event	2	Depart from Service Center or Other Site	Depart from Service Center or Other Site	11/13/2016	06:30:00	USER					
Event	3	Arrive At Loc	Arrive At Loc	11/13/2016	08:00:00	USER					THE RIG AND CASING WAS RUNNING CASING, HAD TO BE ORIENTATION BEFOR WE COULD RIG UP
Event	4	Rig-Up Equipment	Rig-Up Equipment	11/13/2016	10:00:00	USER					STILL RUNNING CASING
Event	5	Rig-Up Completed	Rig-Up Completed	11/13/2016	11:00:00	USER					
Event	6	Start Job	Start Job	11/13/2016	17:26:39	COM5					1ST STAGE
Event	7	Pump Spacer 1	Pump Spacer 1	11/13/2016	17:27:18	COM5	8.34	2.00	13.00	16.00	PUMP 3 BBL TO FILL THE LINE
Event	8	Test Lines	Test Lines	11/13/2016	17:29:35	COM5	8.42	0.00	3925.00	3944.00	TEST HALLIBURTON LINES
Event	9	Pump Spacer 1	Pump Spacer 1	11/13/2016	17:33:10	COM5	8.38	3.00	35.00	40.00	PUMP 20 BBL OF GEL WITH RED DYE
Event	10	Pump Lead Cement	Pump Lead Cement	11/13/2016	17:42:25	COM5	12.50	6.50	163.00	137.00	ECONOCEM, 5% SALT, 3 LBM KOL-SEAL, 0.3% HR-800, 450 SKS, 159 BBL, 12.7 PPG, 1.987 YIELD, 10.67 GAL/SK
Event	11	Pump Cement	Pump Cement	11/13/2016	18:09:27	COM5	13.52	5.10	82.00	81.00	HALCEM, 4% BENTONITE, 50 SKS, 15 BBL, 13.5 PPG.

											1.728 YIELD, 9.21 GAL/SK
Event	12	Pump Tail Cement	Pump Tail Cement	11/13/2016	18:12:23	COM5	14.88	5.00	176.00	169.00	HALCEM 0.10% HR-800, 250 SKS, 59 BBL, 14.8 PPG, 1.333 YIELD, 6.42 GAL/SK
Event	13	Drop Plug	Drop Plug	11/13/2016	18:27:05	COM5					
Event	14	Pump Displacement	Pump Displacement	11/13/2016	18:34:45	COM5	8.61	7.40	1068.00	1069.00	PUMP 353 BBL OF FRESH WATER
Event	15	Bump Plug	Bump Plug	11/13/2016	19:31:23	COM5	8.37	4.00	1578.00	1532.00	BUMP PLUG WENT 500 PSI OVER, CHECK THE FLOAT GOT BACK 2 BBL
Event	16	Other	Other	11/13/2016	19:35:42	COM5					DROP THE OPEN PLIG
Event	17	Open Multiple Stage Cementer	Open Multiple Stage Cementer	11/13/2016	20:02:43	COM5	8.39	1.10	727.00	728.00	OPEN THE TOOL AT 700 PSI
Event	18	Circulate Well	Circulate Well	11/13/2016	20:05:44	COM5	8.39	7.00	466.00	476.00	PUMP 30 BBL OF FRESH WATER THEN TURN THE WELL OVER TO THE RIG, CIRCULATE 51 BBL OR 144 SKS OFF THE TOOL
Event	19	Resume	Resume	11/13/2016	21:13:01	COM5					2ND STAGE
Event	20	Pump Spacer 1	Pump Spacer 1	11/13/2016	21:14:50	COM5	8.49	3.80	73.00	76.00	PUMP 20 BBL OF GEL WITH RED DYE
Event	21	Pump Lead Cement	Pump Lead Cement	11/13/2016	21:22:29	COM5	13.44	7.00	378.00	354.00	HALCEM, 4% BENTONTIE, 600 SKS, 185 BBL, 13.5 YIELD, 1.728 YIELD, 9.21 GAL/SL
Event	22	Pump Tail Cement	Pump Tail Cement	11/13/2016	21:47:06	COM5	14.86	5.30	452.00	421.00	HALCEM, 100 SKS, 24 BBL 1.332 YIELD, 6.42 GAL/SK
Event	23	Drop Plug	Drop Plug	11/13/2016	21:56:34	COM5					
Event	24	Pump Displacement	Pump Displacement	11/13/201	22:00:00	COM5	7.83	8.20	1020.00	1008.00	PUMP 198 BBL OF FRESH

				6							WATER
Event	25	Close Multiple Stage Cementer	Close Multiple Stage Cementer	11/13/2016	22:28:16	COM5	4.00	8.33	2593.00	2510.0	CHECK THE FLOAT GOT BACK 1.5 BBL
Event	26	End Job	End Job	11/13/2016	22:33:09	COM5					CIRCULATE 33 BBL OR 107 SKS TP THE PIT
Event	27	Rig-Down Equipment	Rig-Down Equipment	11/13/2016	22:40:00	USER					
Event	28	Rig-Down Completed	Rig-Down Completed	11/13/2016	23:50:00	USER					
Event	29	Depart Location	Depart Location	11/14/2016	00:30:00	USER					

DCP MIDSTREAM ZIA AGI #2 INTERMEDIATE 2ND STAGE



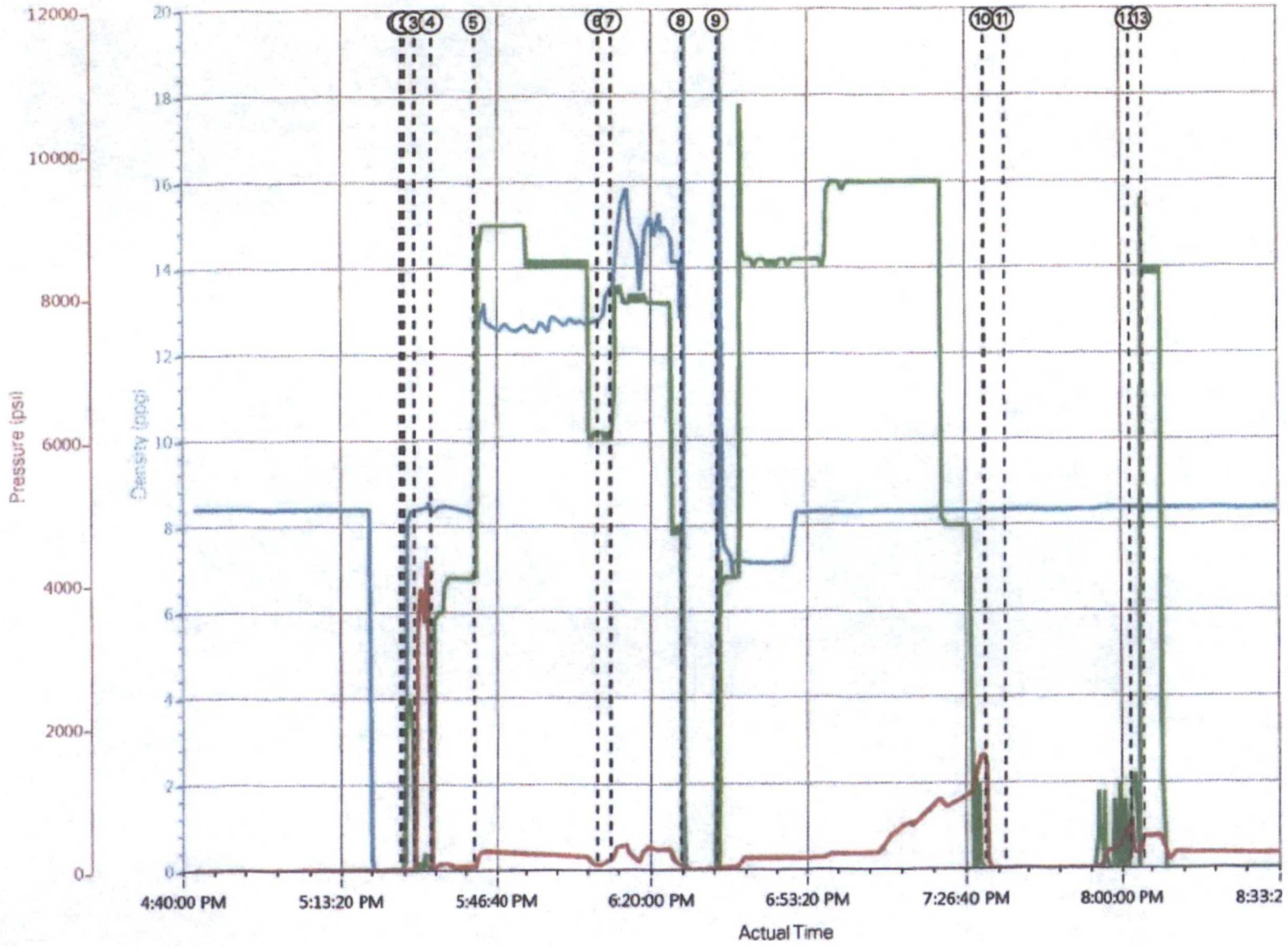
) Start Job 0,0;-3;0
) Pump Spacer 1 8.34;2;13;16
③ Test Lines 8.42;0;3422;3440
④ Pump Spacer 1 8.38;3;35;40
⑤ Pump Lead Cement 12.63;6.5;164;137
⑥ Pump Cement 12.82;5.1;81;80
⑦ Pump Tail Cement 13.69.5;178;170
⑧ Drop Plug 1.23;0;13;7
⑨ Pump Displacement 10.61;3.4;68;65
⑩ Bump Plug 8.37;0;38;35
⑪ Other 8.37;0
⑫ Open Multi

HALLIBURTON | iCem® Service

Created: 2016-11-13 16:40:49, Version: 4.2.393

Edit

DCP MIDSTREAM ZIA AGI #2 INTERMEDIATE 1ST STAGE



① **Start Job** 0;0;-3;0
② **Pump Spacer 1** 8.34;2;13;16
③ **Test Lines** 8.42;0;3422;3440
④ **Pump Spacer 1** 8.38;3;35;40
⑤ **Pump Lead Cement** 12.63;6.5;164;137
⑥ **Pump Cement** 12.82;5.1;81;80
⑦ **Pump Tail Cement** 13.69;5;178;170
⑧ **Drop Plug** -1.23;0;13;7
⑨ **Pump Displacement** 10.61;3.4;68;65
⑩ **Bump Plug** 8.37;0;38;35
⑪ **Other** 8.37;0;3;4
⑫ **Open Multiple Stage Cementer** 8.39;1.1;227

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 301910	**Ship To #:** 3571531	**Quote #:** 0022235756	**Sales Order #:** 0903628937
Customer: DCP MIDSTREAM LP - EBUS -		**Customer Rep:**	
Well Name: ZIA AGI	**Well #:** 2		**API/UWI #:** 30-025-42207-00
Field: AGI	**City (SAP):** HOBBS	**County/Parish:** LEA	**State:** NEW MEXICO
Legal Description: 19-19S-32E-1900FSL-950FWL			
Contractor: SCANDRILL INC		**Rig/Platform Name/Num:** SCAN FREEDOM	
Job BOM: 392189			
Well Type: INJECTION			
Sales Person: HALAMERICA\HB79759		**Srvc Supervisor:**	

Job

Formation Name				
Formation Depth (MD)	**Top**		**Bottom**	
Form Type			**BHST**	
Job depth MD	4500ft		**Job Depth TVD**	
Water Depth			**Wk Ht Above Floor**	
Perforation Depth (MD)	**From**		**To**	

Well Data

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		13.375	12.515	61	BTC	J-55	0	2600		
Casing		9.625	8.835	40	BTC	J-55	0	4500		
Open Hole Section			12.25				2600	4500		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625			4500		**Top Plug**	9.625		HES
Float Shoe	9.625					**Bottom Plug**	9.625		HES
Float Collar	9.625					**SSR plug set**	9.625		HES
Insert Float	9.625					**Plug Container**	9.625		HES
Stage Tool	9.625					**Centralizers**	9.625		HES

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Gel Spacer w/Red Dye	Gel Spacer w/Red Dye	20	bbl	8.4				
0.10 lbm/bbl		RHODAMINE RED LIQUID DYE # 2 (101201084)							
2.50 lbm/bbl		CHEM,FDP-S1050-12, BULK BAG (102175420)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	EconoCem™ HLC	ECONOCEM (TM) SYSTEM	450	sack	12.7	1.987		5	10.67
5 %		SALT, BULK (100003695)							
3 lbm		KOL-SEAL, BULK (100064233)							
0.30 %		HR-800, 50 LB SACK (101619742)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	HalCem™ C	HALCEM (TM) SYSTEM	250	sack	14.8	1.333		5	6.42
0.10 %		HR-800, 50 LB SACK (101619742)							

Cement Left In Pipe	Amount	40 ft	Reason	Shoe Joint

Fluid Data

Stage/Plug #: 2

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Gel Spacer w/Red Dye	Gel Spacer w/Red Dye	20	bbl	8.4				
0.10 lbm/bbl		RHODAMINE RED LIQUID DYE # 2 (101201084)							
2.50 lbm/bbl		CHEM,FDP-S1050-12, BULK BAG (102175420)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	HalCem™ C	HALCEM (TM) SYSTEM	650	sack	13.5	1.728		5	9.21
4 %		BENTONITE, BULK (100003682)							

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	HalCem™ C	HALCEM (TM) SYSTEM	100	sack	14.8	1.332		5	6.42

Cement Left In Pipe	Amount	40 ft	Reason	Shoe Joint
Mix Water:	pH ##	Mix Water Chloride:	## ppm	Mix Water Temperature:	## °F °C
Cement Temperature:	## °F °C	Plug Displaced by:	## lb/gal kg/m3 XXXX	Disp. Temperature:	## °F °C
Plug Bumped?	Yes/No	Bump Pressure:	##### psi MPa	Floats Held?	Yes/No
Cement Returns:	## bbl m3	Returns Density:	## lb/gal kg/m3	Returns Temperature:	## °F °C

Comment

Pre-Planned Job Proceedure 2nd Stage

EVENT #	EVENT	VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
			3500 Psi Max			
1	START JOB					
9	GEL SPACER RED DYE	20 BBL				
13	LEAD CMT	185 BBL	600	13.5	1.728	9.21
15	TAIL CMT	24 BBL	100	14.8	1.332	6.42
22	DROP PLUG					
23	DISPLACEMENT	198 BBL		FW		
31	CLOSE MSC					
2	END JOB					
			Do Not Overdisplace			
		SHOE JOINT		FLOAT COLLAR	BBL/FT	H2O REQ.
Total Displacement		******Use Mud Scales on Each Tier******				
CALCULATED DIFFERENTIAL PSI				TOTAL FLUID PUMPED		
Collapse		Burst			SO#	

Photographs of Cement Returns

Red Dye From Stage #1

Initial Cement From Stage #1

Initial Cement From Stage #2

BOP/BOPE Pressure Test, Casing Integrity Test, and Formation Integrity Test Charts

BATTLE Energy Services

PO Box 7
Lovington, NM 88260
(575) 942-9472

Invoice
B 7137

Date 11-14-16 Start Time 4:00 ☒ am ☐ pm
Company DCP midstream State NM County Lea
Lease Zia AGI D2
Company Man _____ Tester Alex Truck # 35
Tool Pusher _____ Plug Size 11"
Drilling Contractor Scon Freedom Rig # _____ Pipe Thread Size 4½ IF

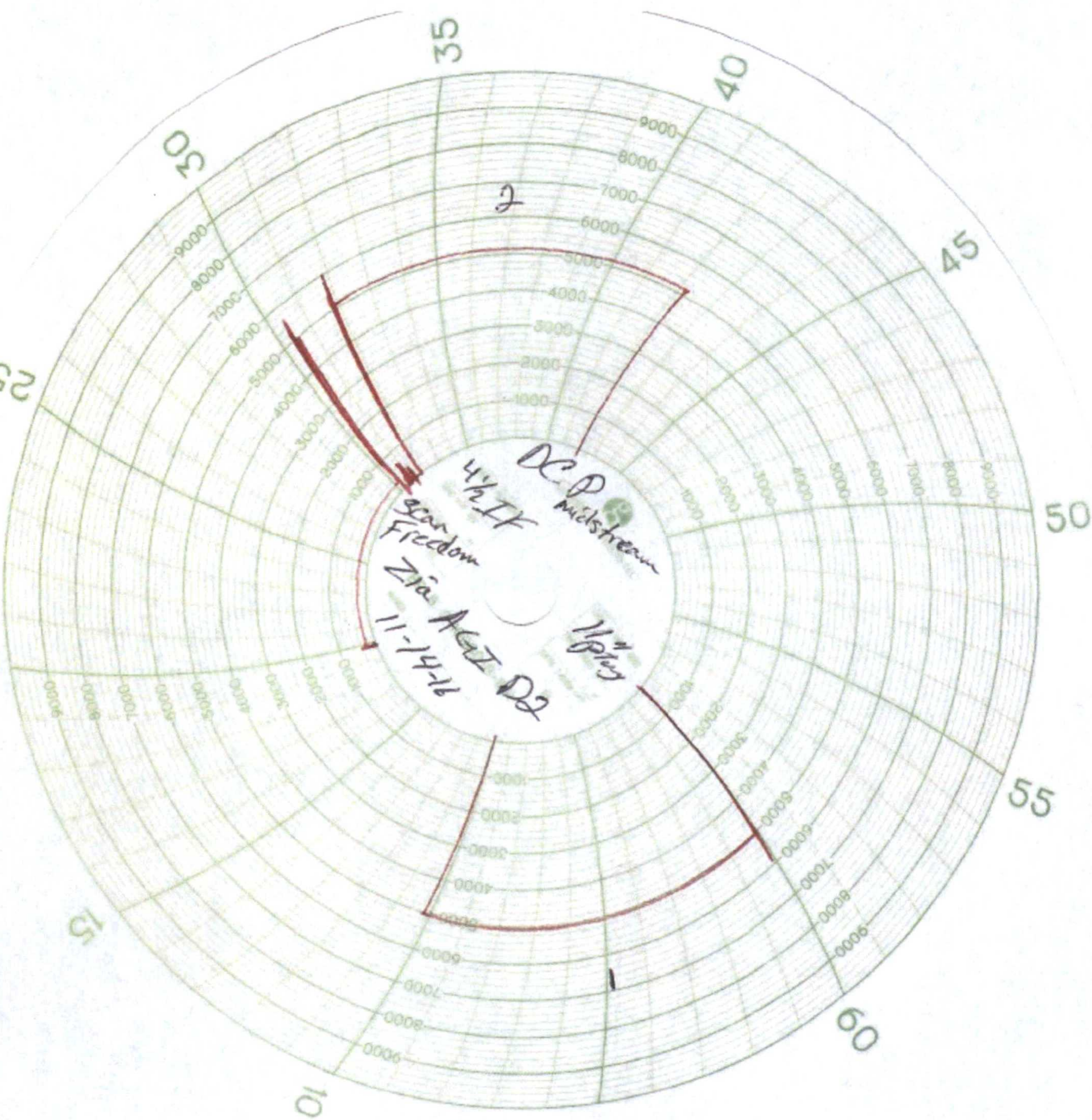
Test Pressures
BOP: 5000
Annular: 2500
Casing: N/a
Pumps: 5000

Test #	Items tested	Low Test PSI	Low Test Min.	High Test PSI	High Test Min.	Remarks
1	Truck	—	—	5000	10	Bop test 250 low 10 min
2	6,10,13,25,26	250	10	5000	10	5000 High 10 min
3	1,2,5,9,13	250	10	5000	10	
4	3,4,5,8b,11,12	250	10	5000	10	Annular 250 low 10 min
5	8,11,12	250	10	5000	10	2500 High 10 min
6	7,11,12	250	10	5000	10	
7	14	250	10	5000	10	pumps [redacted] 5000
8	7,11,15	250	10	2500	10	High 30 min
9	18	250	10	5000	10	
10	19	250	10	5000	10	no Casing test
11	16	250	10	5000	10	
12	17	250	10	5000	10	No accumulator test
13	20,21,22,23,	—	—	5000	30	
14	24	—	—	5000	30	Per Company Man Request

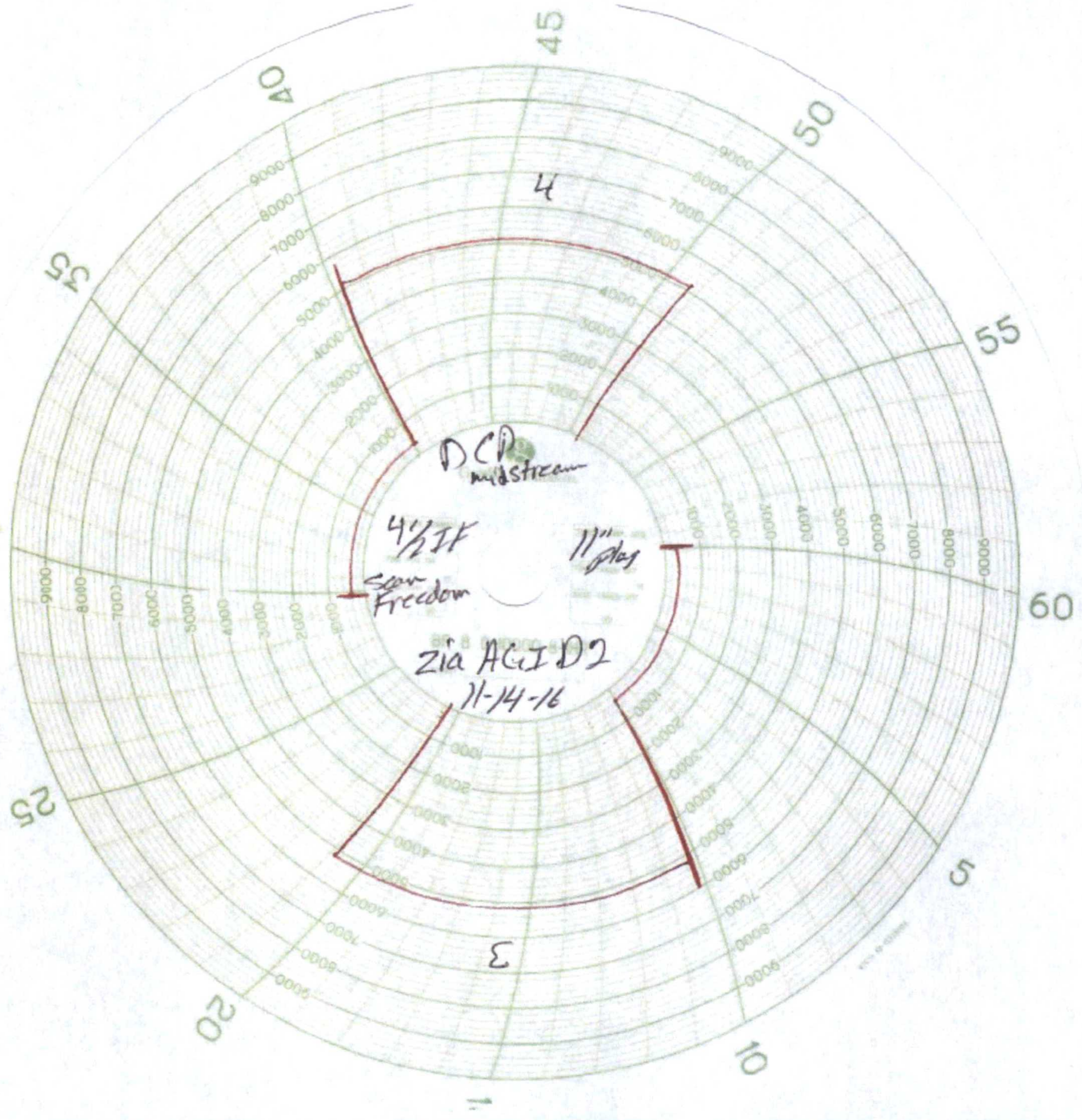
Mileage — @ — /mile = —
Methanol _____ = _____
Cup Test _____ = _____
13 HR @ $110.00 = $1430.00
Orings @ $50.00 = $50.00
_____ @ _____ = _____
Subtotal = $1480.00
Tax = $81.00
TOTAL = $1,561.00

Test accepted by: _____

MASTER PRINTERS 575.396.3661



DCP Midstream
4½ IF
Freedom
Zia AGI D2
11-14-16



DCP midstream
4½ IF
11" plas
Sam Freedom
Zia AGI D2
11-14-16
4
3


45
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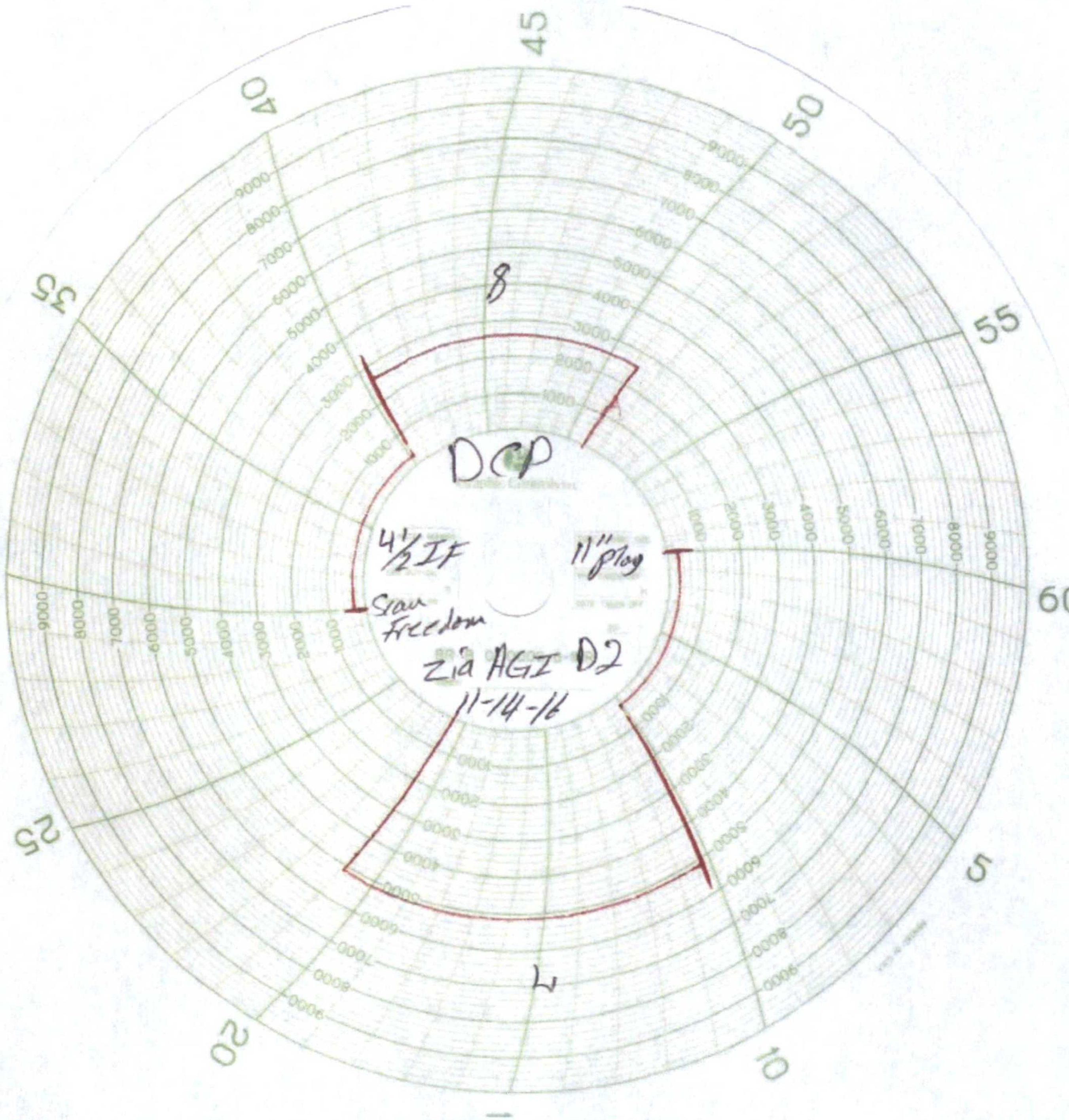
55
60
5
0
20
25
30
35
40
b
DCP
mid Stream
4½ IF
11" Plug
Stem
Freedom
Zia AGI D2
11-14-16
5


DCP
4 1/2 IF
11" plug
Stan
Freedom
Zia AGI D2
11-14-16
8
7


45
40
50
35
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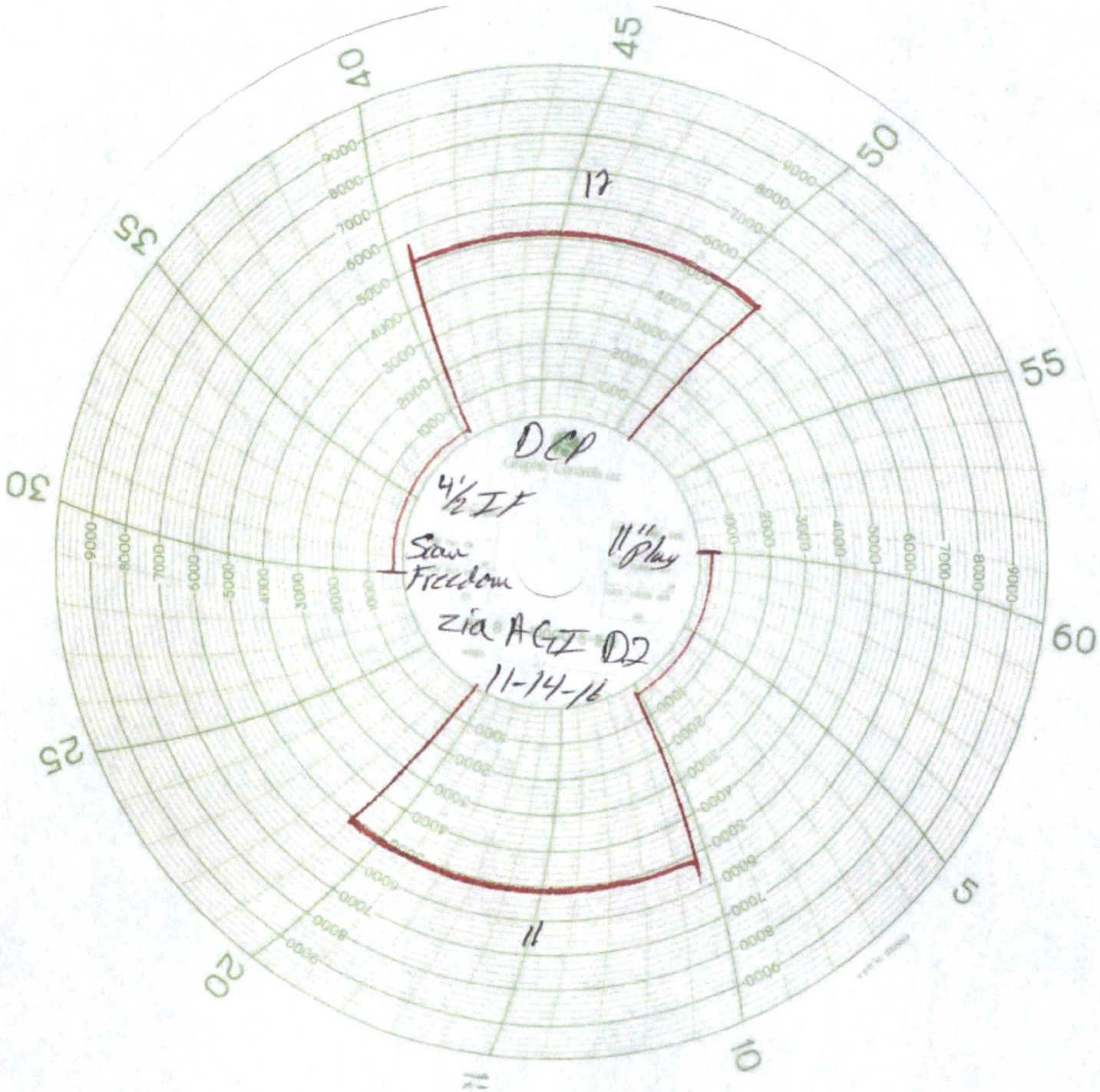
10
15
10
DCP
Stan
Freedom
11" plug
4½ FF
Zia AGI D2
11-14-16
6


45
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DCP
4½ IF
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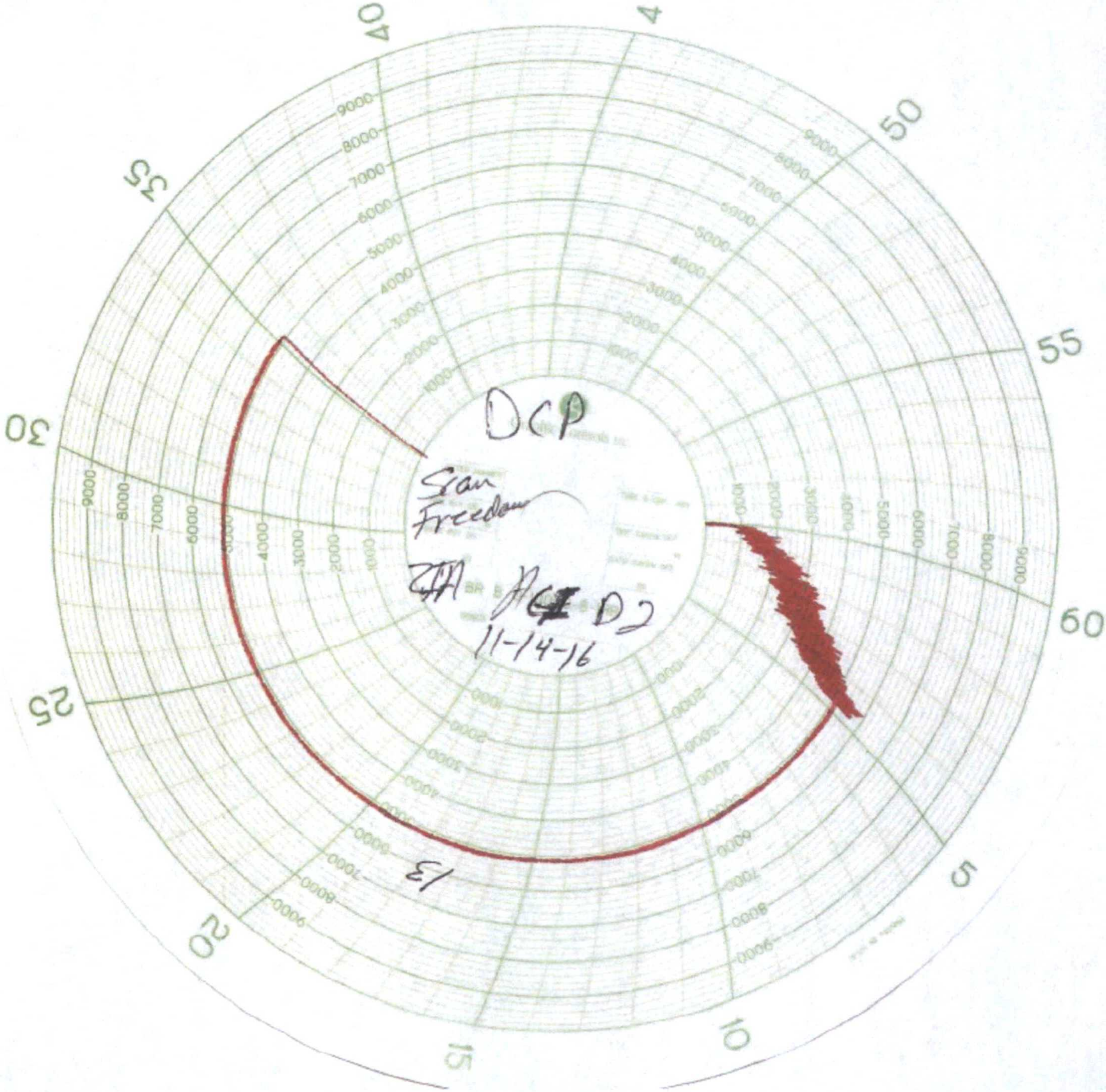
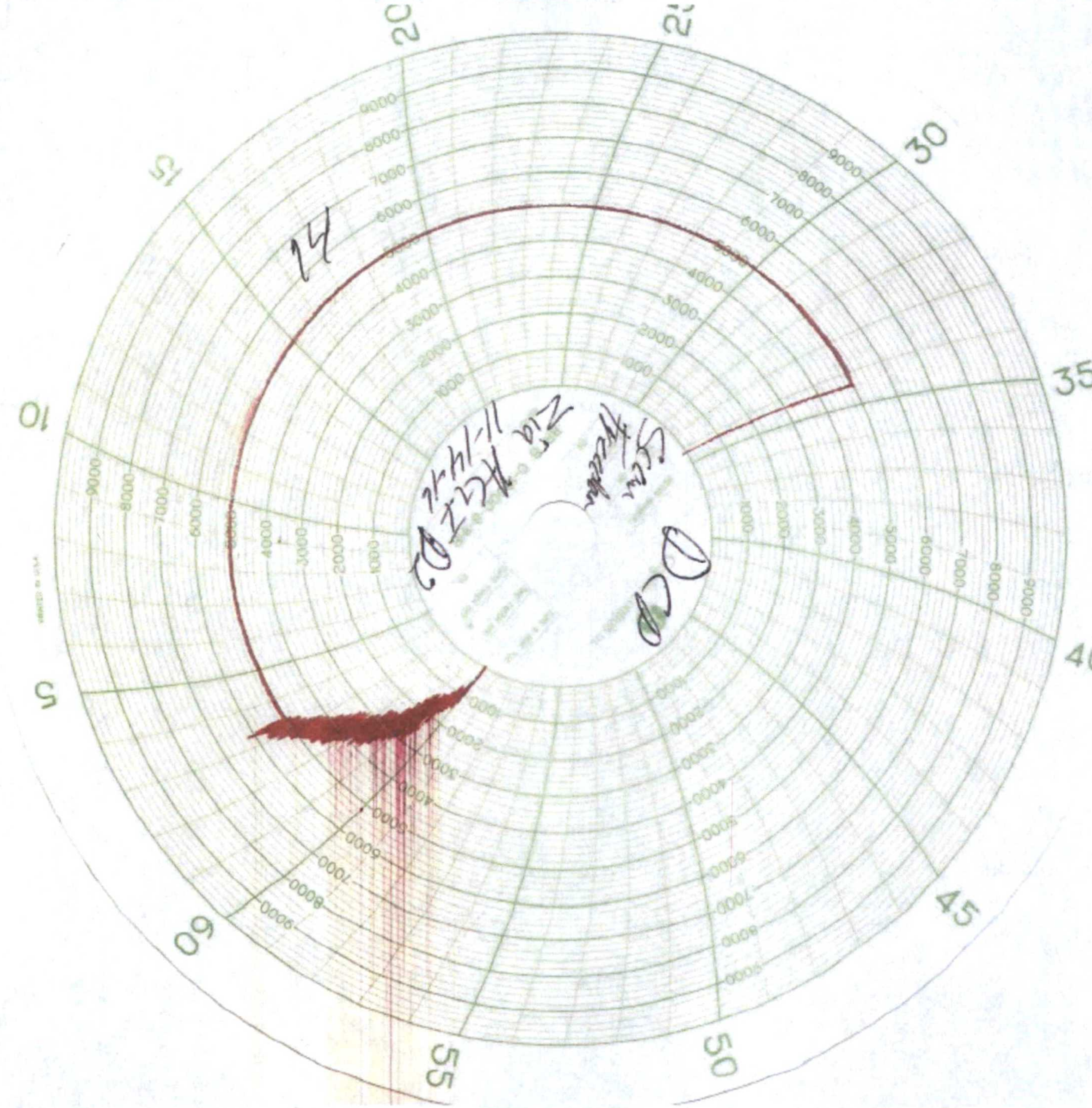
zia AGZ D2
11-14-16


DCP
Sean Freedom
11-14-16
13
ACE D2



BATTLE Energy Service

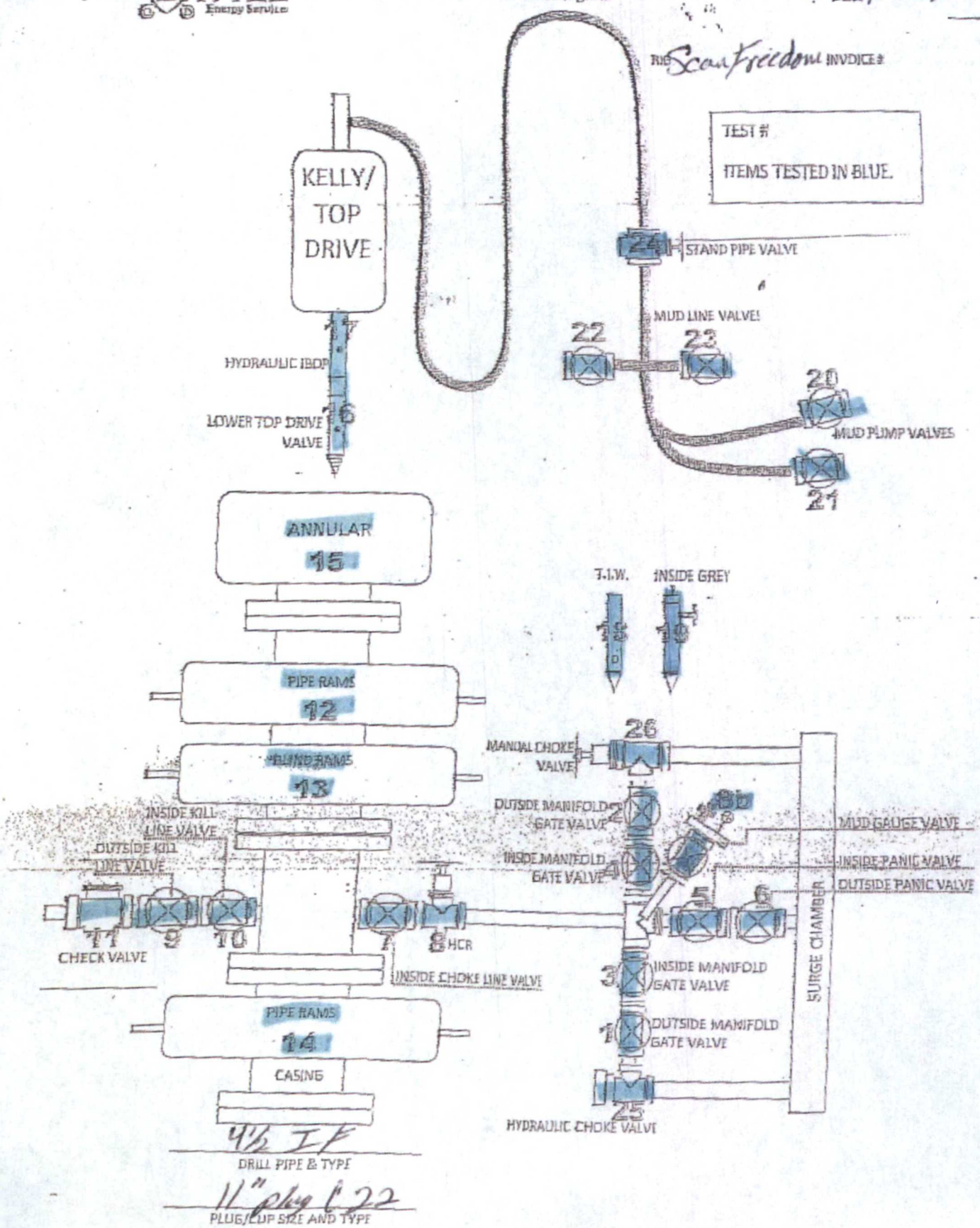
BOP Test Diagram

Date 11-14-16

Rig Scan Freedom INVOICE #

TEST #

ITEMS TESTED IN BLUE.

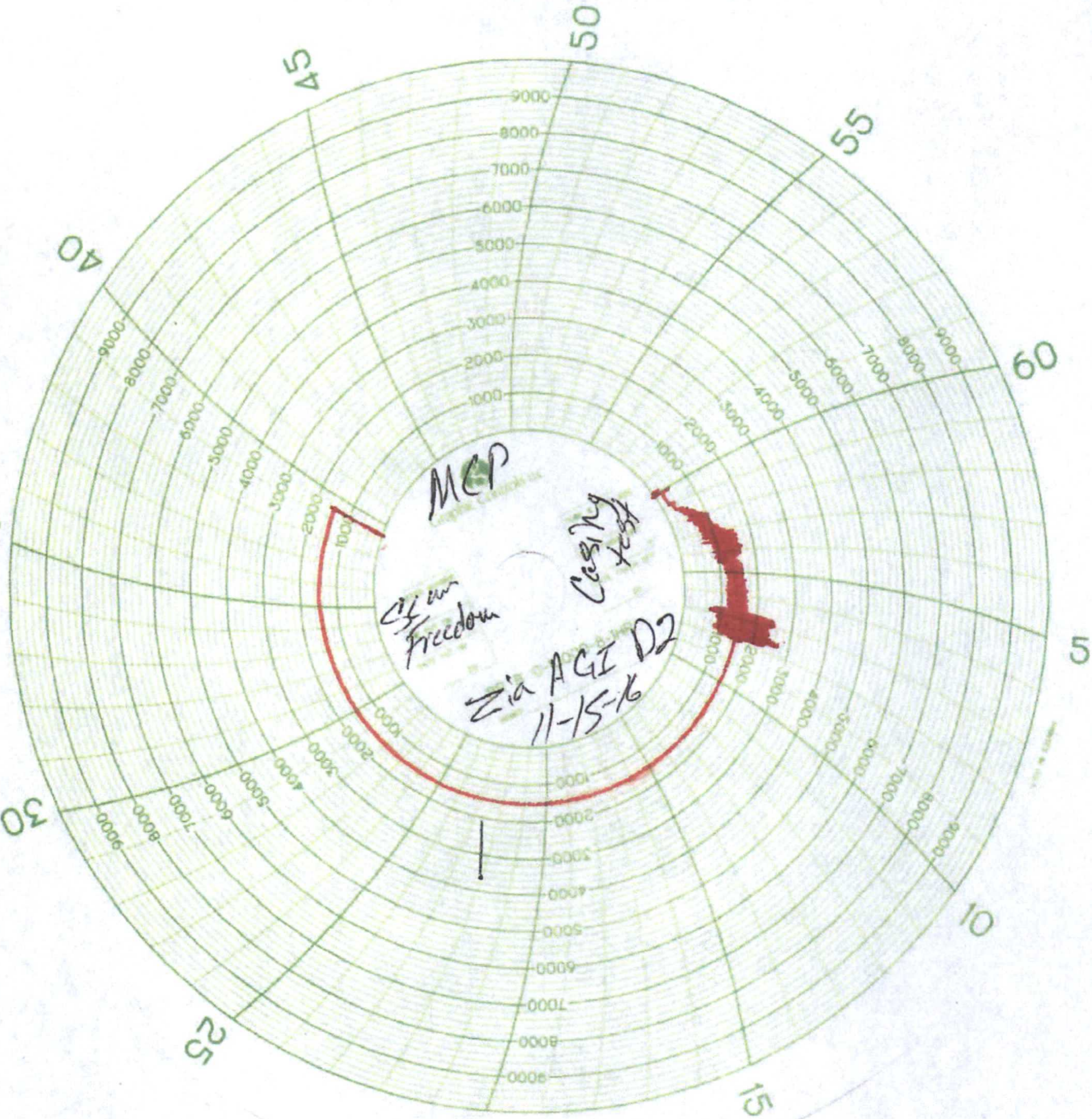


4½ IF

DRILL PIPE & TYPE

11" plug & 22

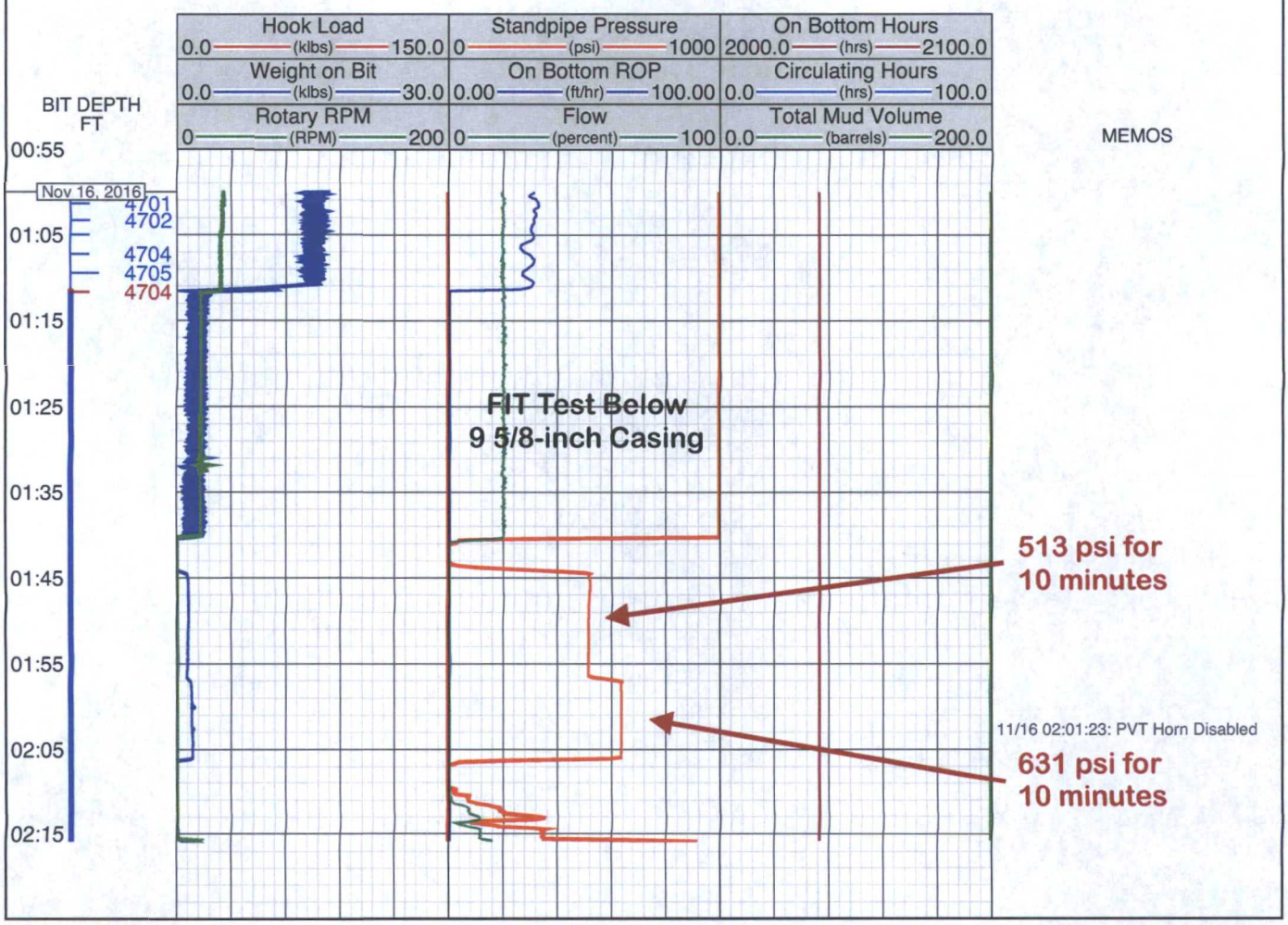
PLUG/CUP SIZE AND TYPE


MCP
Casing
Freedom
Zia AGI D2
11-15-16

DataHub EDR Log

Wed Nov 16, 2016 01:17:25
Well Dossier 1477948546
Dale Littlejohn

OPERATOR:	DCP Midstream, LLC	**CONTRACTOR:**	Scandrill, Inc.
WELL:	ZIA AGI 2D	**UNIQUE WELL ID:**	30-025-42207
FIELD:		**SPUD DATE:**	Nov 02, 2016 03:00
LOCATION:	SEC 19-T19S-R32E	**RELEASE DATE:**	
COUNTRY:	USA	**FROM DATE:**	Nov 16, 2016 01:00
RIG:	Scan Freedom	**TO DATE:**	Nov 16, 2016 02:30



Notifications to the BLM

GEOLEX
INCORPORATED

dcp Midstream

Attachment 1 of 2 - Geolex Cumulative Daily Progress Summary Report

DCP Zia AGI #D2 API # 30-025-42207			DATE 11/17/16		
Cumulative Daily Progress Report and Scheduled Events					
Notifications	**Date**	**Time (MST)**	**Persons Notified**	**Responsible Person(s)**	**Result**
Sent text message to Stephen Baily, Hobbs BLM on call inspector	Saturday, November 12, 2016	17:00	Stephen Bailey, Hobbs BLM on call inspector	Dale T. Littlejohn	D Littlejohn texted Stephen Bailey to confirm TD of the 12 1/4-inch borehole and verify our planned notice following the 1st stage cementing job so that he can witness cement returns for the 2nd stage. Mr. Bailey affirmed to the text message.
Several phone calls and text messages to/from Stephen Baily, Hobbs BLM on call inspector, during the day to keep him aware of the activities. A final phone call was made to provide his requested notice	Sunday, November 13, 2016	18:44	Stephen Bailey, Hobbs BLM on call inspector	James Hunter and Dale T. Littlejohn	J Hunter exchanged text messages and phone calls with Stephen Bailey to keep him updated on the site operations. D Littlejohn provided a formal notification so that he could be present to witness cement returns for the 2nd stage. Mr. Bailey arrived on site at 21:00 and witnessed the circulation of 2nd stage cement to the surface.
A text message was sent to Stephen Baily, Hobbs BLM on call inspector.	Monday, November 14, 2016	4:00	Stephen Bailey, Hobbs BLM on call inspector	Dale T. Littlejohn	D Littlejohn provided a notification concerning the pressure testing of the BOP/BOPE, which will be isolated from the casing. The CIT will be performed after the DV Tool has been drilled out for the CBL. When no response was made to the text message and phone call was made to Stephen Bailey who was rolling off of the hotline, but indicated the BLM would not likely be witnessing the tests.
Called Teungku Muchlis Krueng	Monday, November 14, 2016	15:42	Teungku Krueng, Muchlis	Dale T. Littlejohn	D Littlejohn called to determine Mr. Teungku Krueng's preference for a possible after-hours review of the 2nd intermdiate casing CBL. He indicated that because cement was circulated to the surface and witnessed by a BLM inspector that the quality of the cement bond could be determined by Geolex, relative to the continuation of drilling.