

Submit 3 Copies To Appropriate District
Office
District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Ave, Artesia, NM 88210
District III
1000 Rio Brazos Rd, Aztec, NM 87410
District IV
1220 S St Francis Dr, Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OCT 01 2009

Form C-103
May 27, 2004

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

WELL API NO. 30-015-20743
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Avalon State
8. Well Number 1
9. OGRID Number 151416
10. Pool name or Wildcat Bone Springs

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 ☐ SWD

2. Name of Operator
Fasken Oil and Ranch, Ltd.

3. Address of Operator
303 W. Wall, Suite 1800, Midland, TX 79701

4. Well Location
Unit Letter K : 1440' feet from the South line and 1650' feet from the West line
Section 7 Township 21S Range 26E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: Tracer Survey ☒

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Fasken Oil and Ranch, Ltd. is submitting a Tracer Survey for the Avalon State #1.

Please see attached survey.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Kim Tyson TITLE Regulatory Analyst DATE 9-30-09

Type or print name Kim Tyson E-mail address: kimt@forl.com Telephone No. (432) 687-1777
For State Use Only

APPROVED BY: [Signature] TITLE Geologist DATE 11/1/2009
Conditions of Approval (if any):



INJECTION PROFILE

Company FASKEN OIL & RANCH LTD.
Well AVALON STATE #1
Field -----
County EDDY
State NEW MEXICO

Company FASKEN OIL & RANCH LTD.

Well AVALON STATE #1

Field -----

County EDDY State NEW MEXICO

Location: API #:

1400' FSL & 1650' FWL

SEC 7 TWP 21-S RGE 226-E

Permanent Datum G.L. Elevation 3305'
Log Measured From K.B. 16'
Drilling Measured From K.B.

Other Services
CALIPER

Elevation

K.B. 3321'
D.F. 3320'
G.L. 3305'

Date	09/23/09	
Run Number	ONE	
Depth Driller	10,800'	(PBD 8000')
Depth Logger	7640'	
Bottom Logged Interval	7640'	
Top Log Interval	3800'	
Open Hole Size	N/A	
Type Fluid	WATER	
Density / Viscosity	N/A	
Max Recorded Temp	100 DEG.	
Estimated Cement Top	N/A	
Time Well Ready	9 AM	
Time Logger on Bottom	10 AM	
Equipment Number	81	
Location	LEVELLAND	
Recorded By	BOLES	
Witnessed By		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				2 3/8"		0'	4048'
Casing Record		Size	Wgt/Ft	Top		Bottom	
Surface String							
Prot. String							
Production String		5.5"	-----	0		4193'	
Liner							

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

THIS LOG WAS CORRELATED TO SCHLUMBERGER 10/21/72

PERFORATIONS

OPEN HOLE: 4193-7640'
INJECTION WELL

INJECTION WELL:

SHUT-IN DATE 09/23/09

HOUR 3 P.M.

TOTAL S.I. TIME 1 HR

S.I. PRESS 0 PSI

METERED INJ. RATE 686 B/D

PRESSURE 300 PSI TEMP

FLUID TYPE WATER

TOTAL VOLUME TO DATE

FLUID LEVEL TUBING INJECTING

PRODUCER:

FLOWING

PUMPING

CHOKE SETTING

HOURS PROD.

FLUID LEVEL CSG.

TBG.

RATE

B/W

B/O

FLUID TYPE

FRAC OR ACID WELLS:

TIME FINISHED FRAC OR ACID

ACID %

FLUID - GALS

SAND #

RATE - BPM

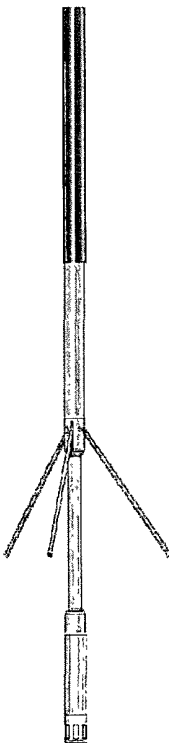
PRESSURE

CONCLUSIONS

THIS SURVEY WAS RAN TO DETERMINE THE ZONES OF INJECTION.
THERE WAS NO INDICATION OF A CHANNEL FROM THE CASING SHOE.

100% CASING RATE-686 B/D

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			TREJCT-20CC138 (TR_20_1)	3.06	1.38	10.00
CCL	6.67		CCL-Probe (080749) 1 3/8" Probe Logging CCL	1.89	1.38	5.00
DET	5.00		TRDET-PROBE1 (080769T) 1 3/8" Probe Top Gamma	3.46	1.38	15.00

DET#2	0 00		TRDET #2 -Probe2 (080769B) 1 3/8" Probe Bottom Gamma	3 46	1 38	15.00
XCAL	-3 93		XYC-PROBE (PROBE01) 1 3/8" Probe Caliper	3 43	1 38	20 00
YCALS	-3 93					
TEMP	-5 18		TEMP-Probe (080510) Probe 1 3/8" Temp	1.00	1 38	4 00
Dataset Total Length Total Weight O D						
avalon1.db AVALON/1/TRACER3/pass8 16 29 ft 69 00 lb 1 38 in						

Company:
 Well:
 File: C:\Warrior\Data\avalon1.db
 Dataset: AVALON/1/TRACER3/_tracer/_shottabl_/1

TRACER RESULTS

#	Depth (ft)	Time	Integration	Flow (%)	Delta (%)	Comment
1	4101.00	19:25:09	686.00	100.00		
2	4111.00	19:25:15	686.00	100.00	0.00	
3	4124.00	19:25:21	686.00	100.00	0.00	
4	4140.00	19:25:27	686.00	100.00	0.00	
5	4158.00	19:25:33	686.00	100.00	0.00	
6	4179.00	19:25:40	686.00	100.00	0.00	
7	4196.00	19:25:44	426.00	62.10	37.90	
8	4210.00	19:25:50	426.00	62.10	0.00	
9	4238.00	19:25:55	426.00	62.10	0.00	
10	4246.00	19:26:02	426.00	62.10	0.00	
11	4284.00	19:26:08	426.00	62.10	0.00	
12	4314.00	19:26:15	426.00	62.10	0.00	
13	4346.00	19:26:20	426.00	62.10	0.00	
14	4376.00	19:26:26	426.00	62.10	0.00	
15	4398.00	19:26:31	426.00	62.10	0.00	
16	5398.00	19:26:36	426.00	62.10	0.00	
17	5430.00	19:26:40	426.00	62.10	0.00	
18	5454.00	19:26:47	426.00	62.10	0.00	

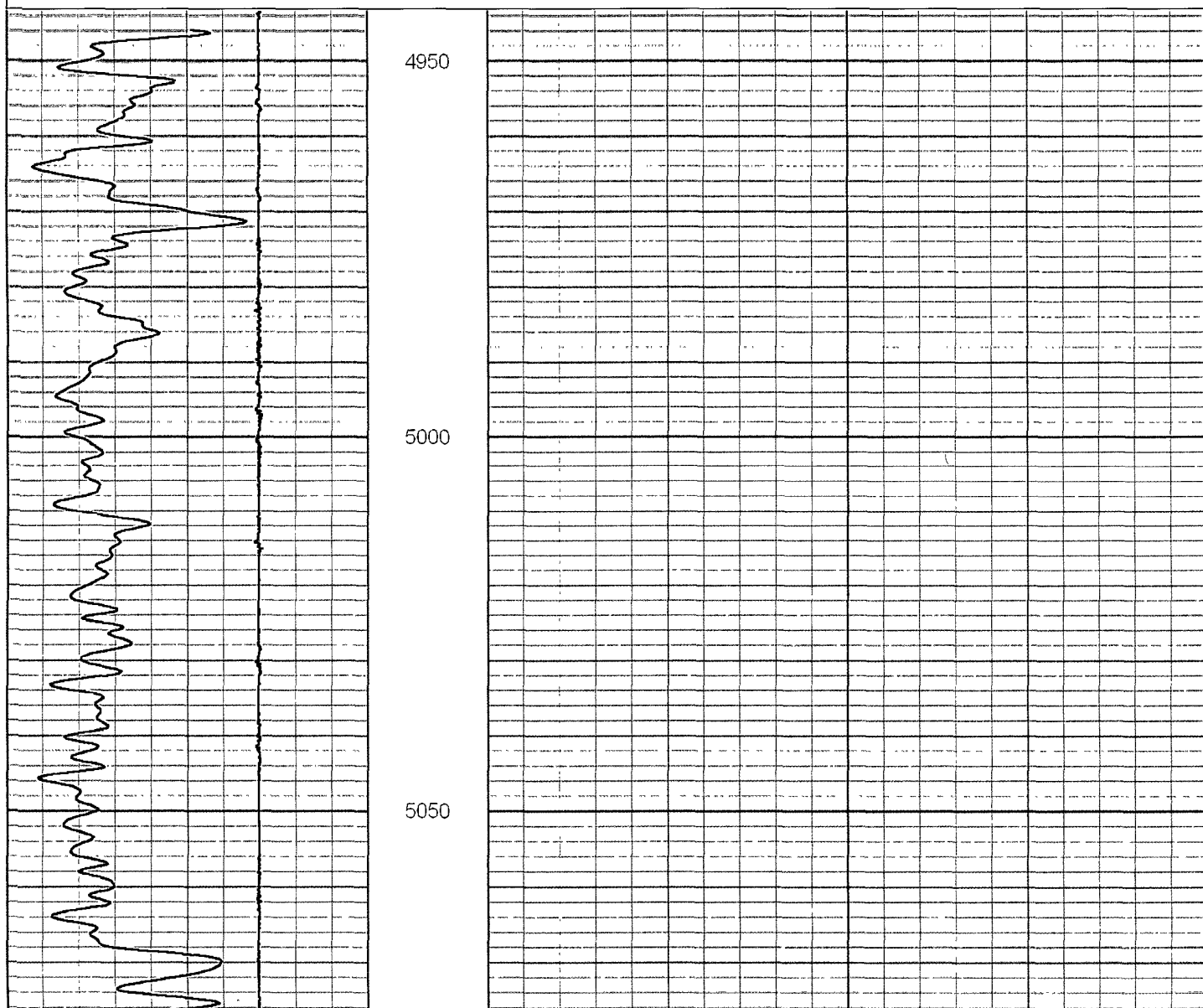
19	5485.00	19:26:53	426.00	62.10	0.00	
20	5515.00	19:27:00	400.00	58.31	3.79	
21	5542.00	19:27:07	322.00	46.94	11.37	
22	5590.00	19:27:19	218.00	31.78	15.16	
23	5700.00	19:27:26	218.00	31.78	0.00	
24	5728.00	19:27:35	218.00	31.78	0.00	
25	5758.00	19:27:43	0.00	0.00	31.78	

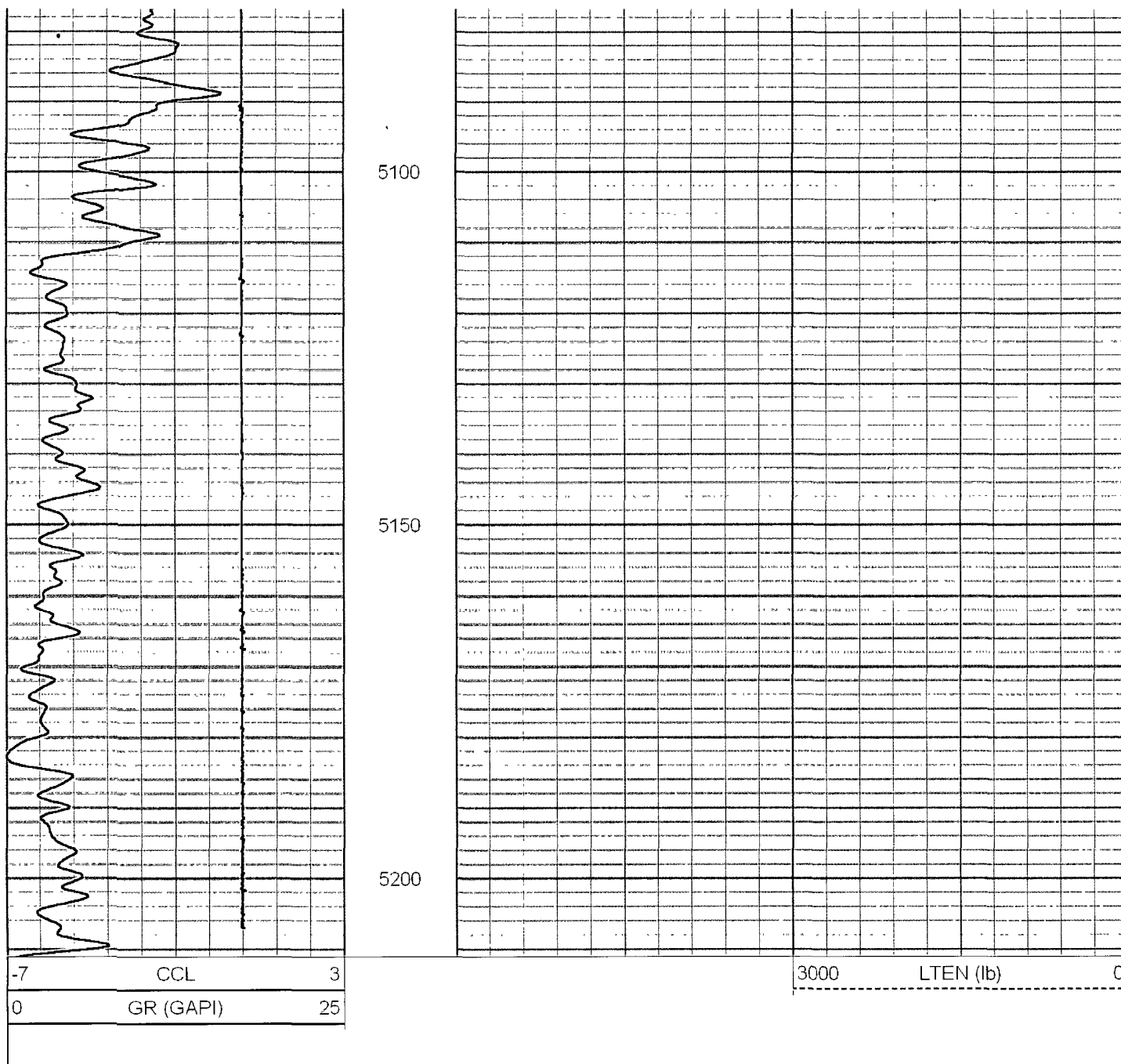


GAMMA RAY CORRELATION

Database File: avalon1 db
 Dataset Pathname: AVALON/1/GAMMA/pass1
 Presentation Format: gr-ccl
 Dataset Creation: Wed Sep 23 13 51.40 2009 by Log Std Casedhole 07122
 Charted by: Depth in Feet scaled 1 240

-7	CCL	3	3000	LTEN (lb)	0
0	GR (GAPI)	25			

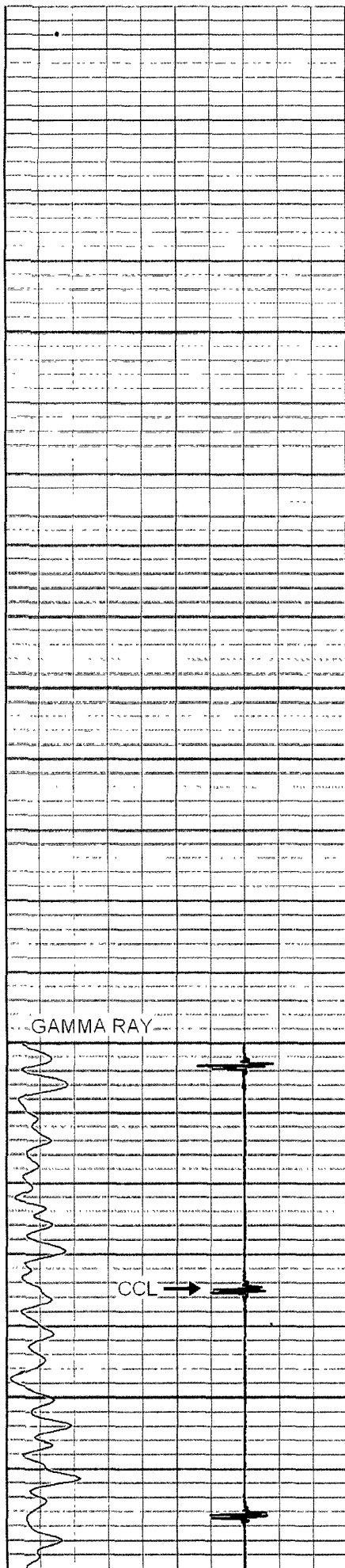




COMPOSITE

Database File. avalon1 db
 Dataset Pathname AVALON/1/TRACER3/_compos4_
 Presentation Format trccomp
 Dataset Creation Wed Sep 23 20 55:10 2009
 Charted by. Depth in Feet scaled 1 240

-7	CCL	3	% LOSS VELOCITY OF TRACER	
0	GAMMA RAY (GAPI)	25	0	(%) 100
			2	CALIPER (in) 12
			80	INJECTING TEMPERATURE (degF) 145



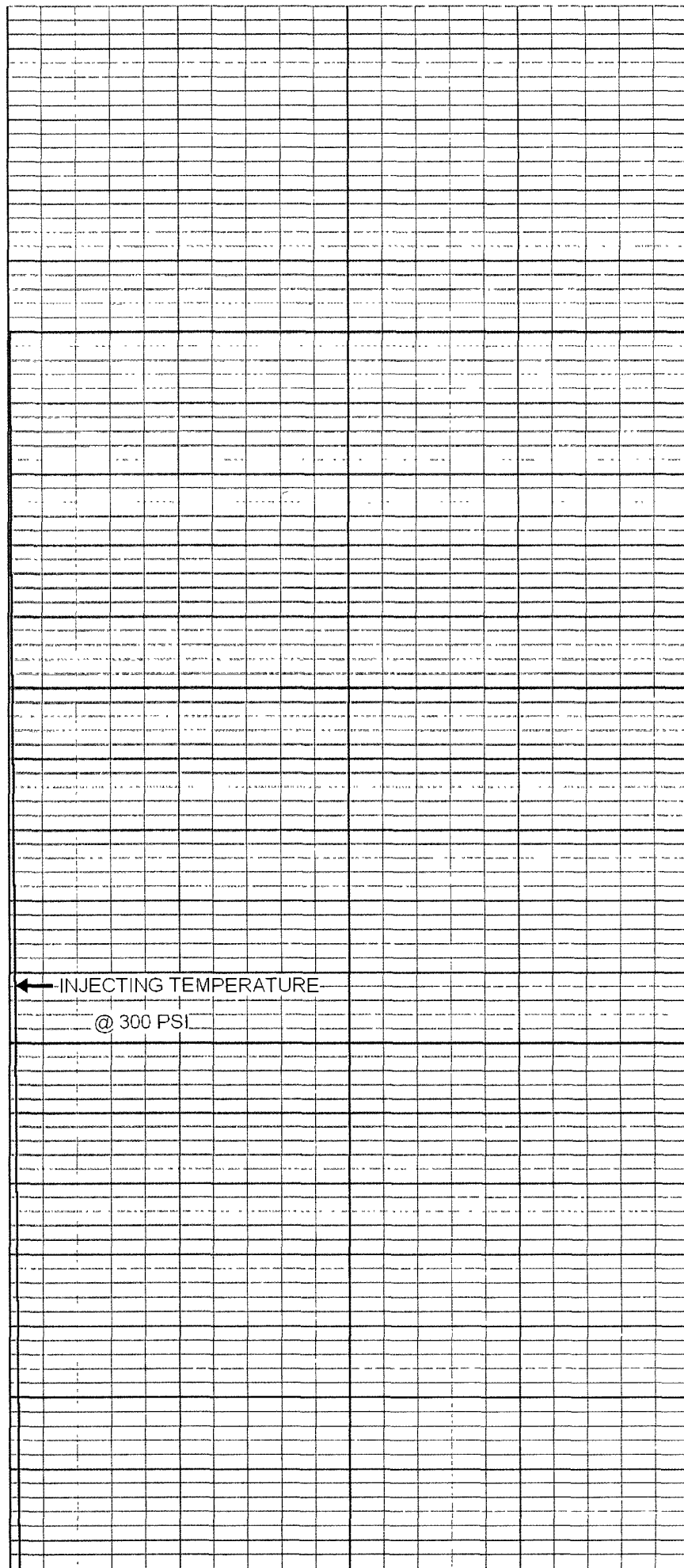
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3900

3950

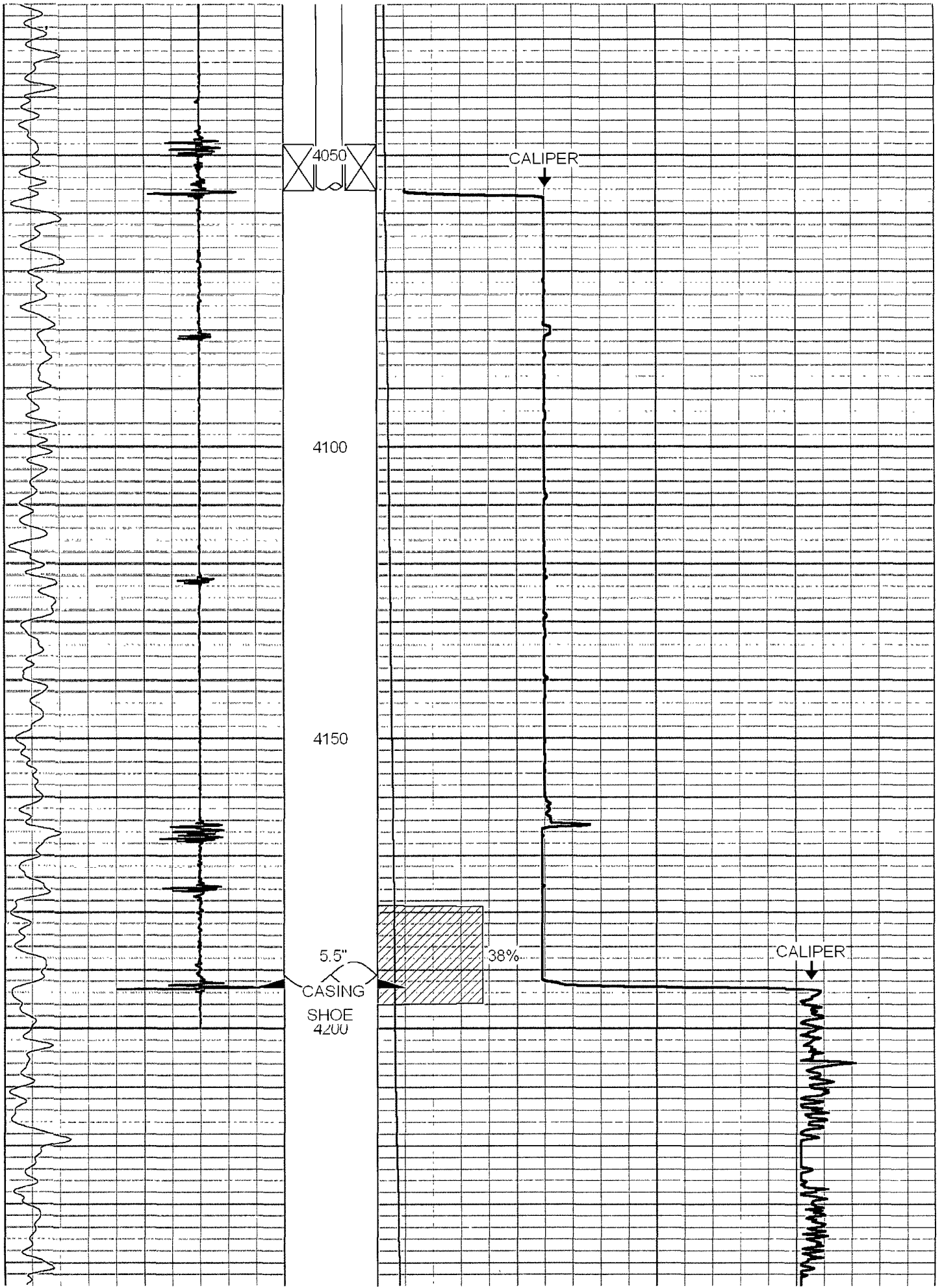
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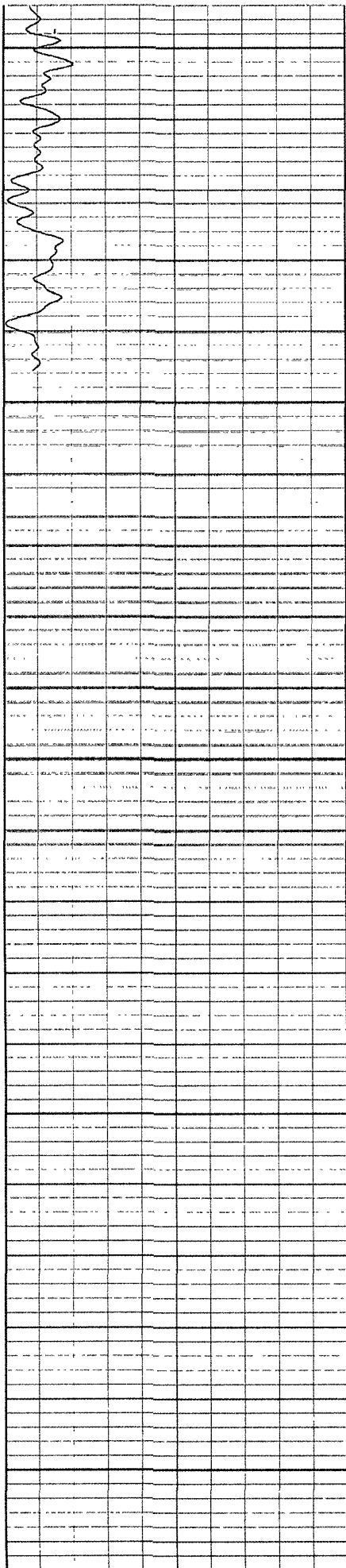
2 375"
TUBING



← INJECTING TEMPERATURE

@ 300 PSI





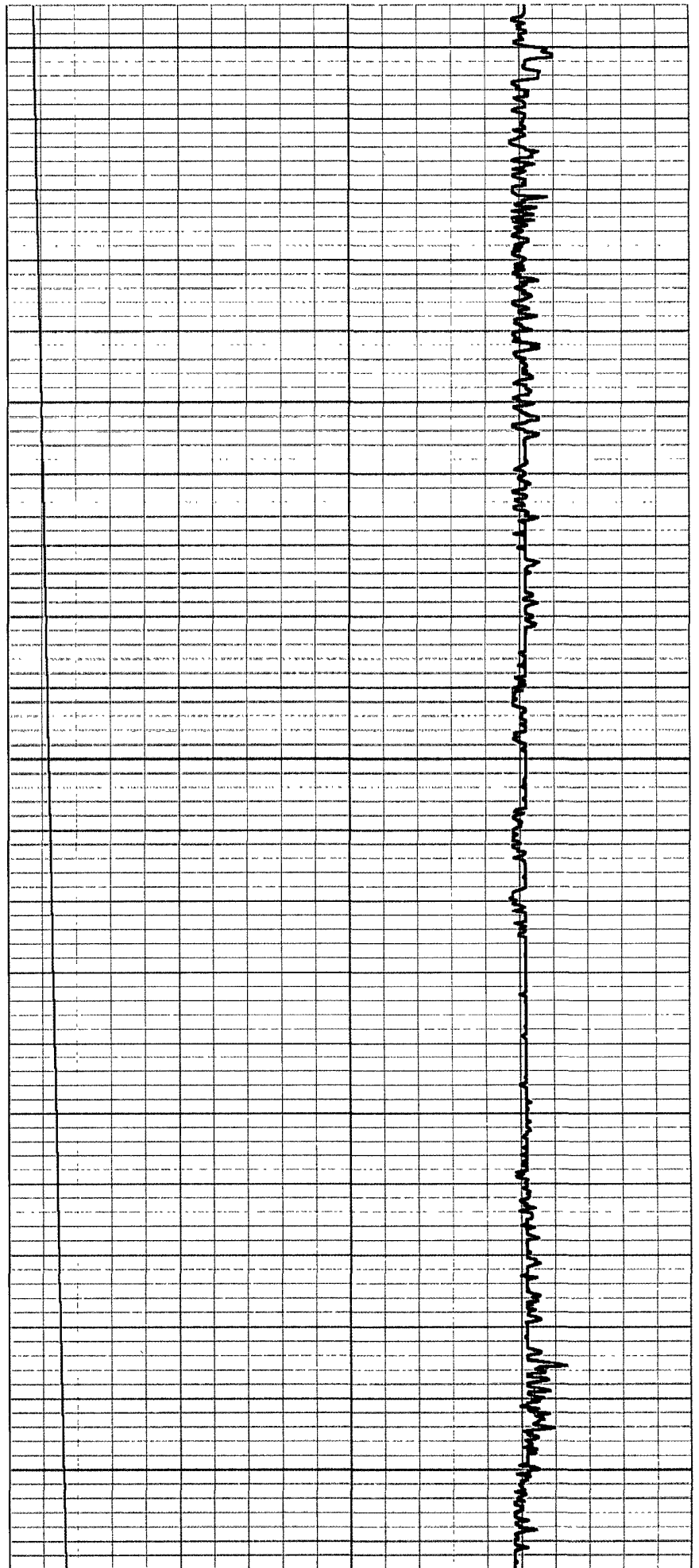
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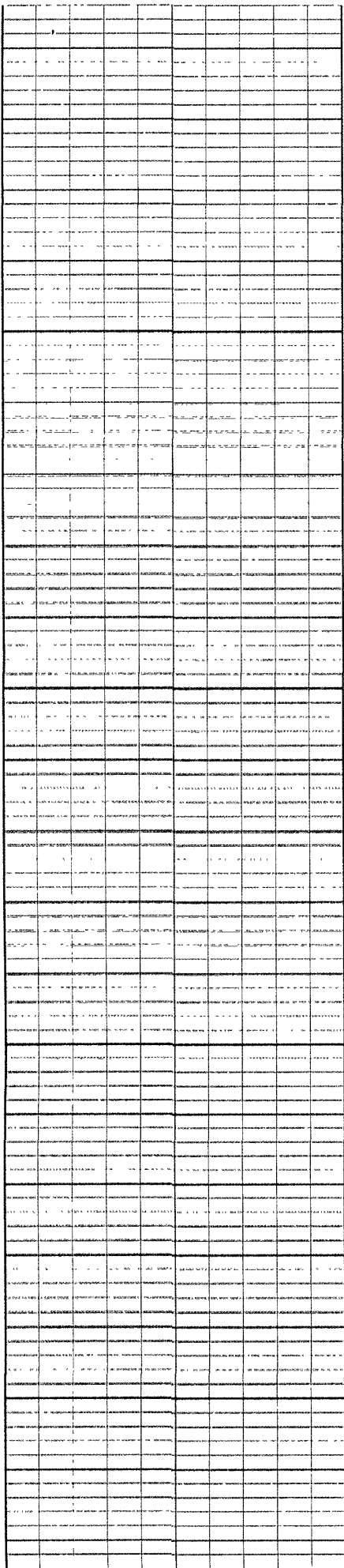
4400

4450



[illegible]

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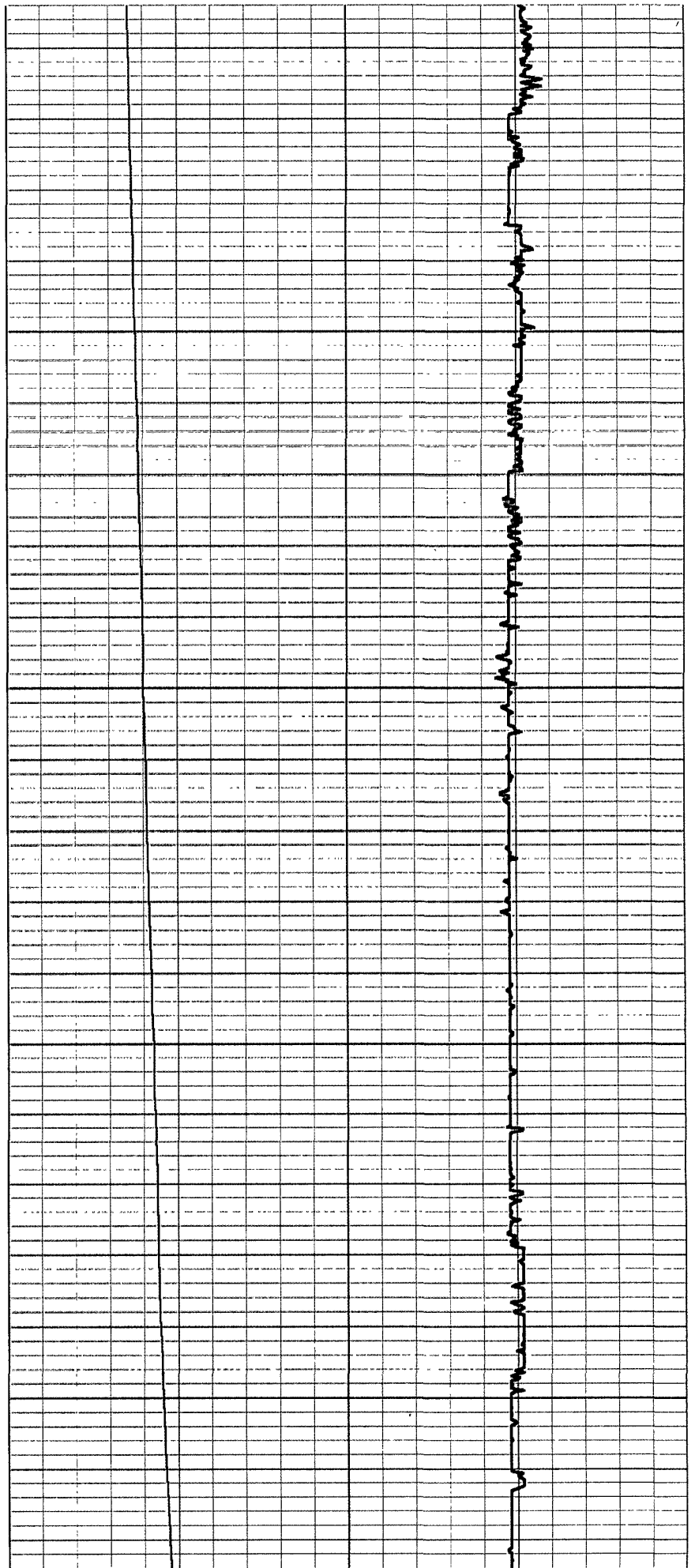


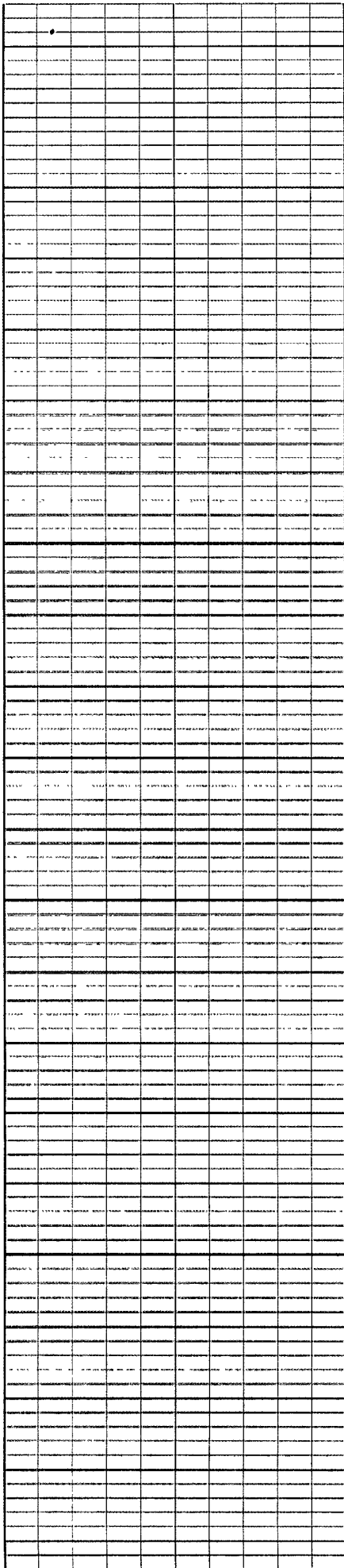
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5000

5050

5100



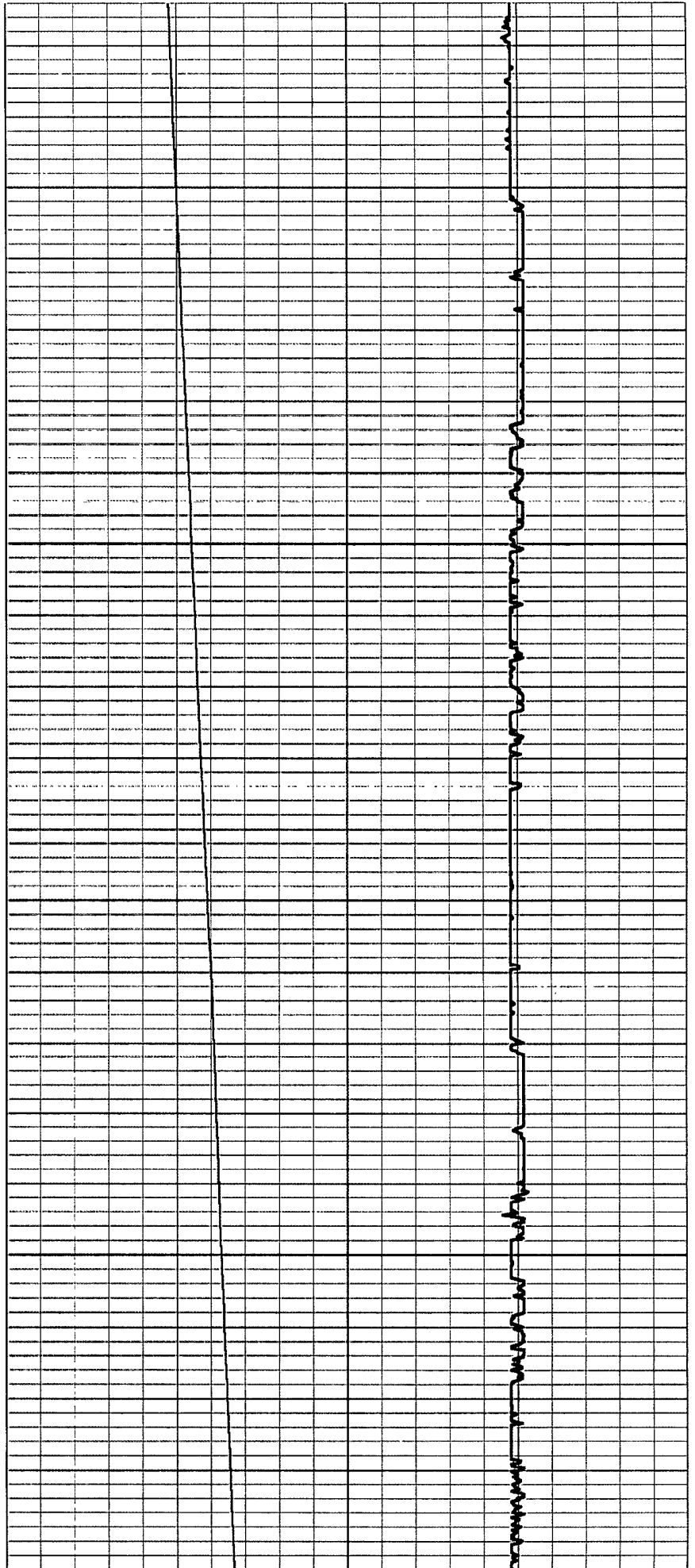


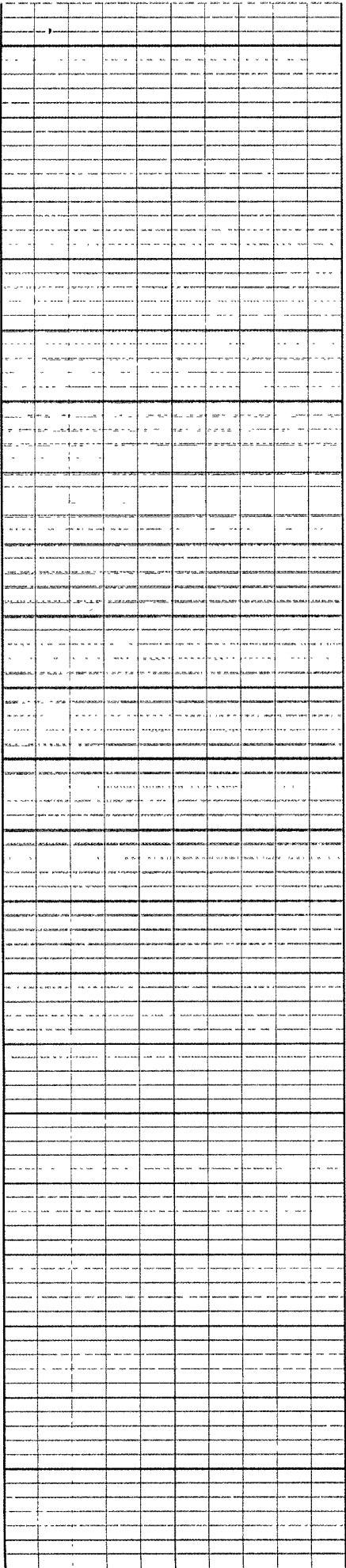
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5200

5250

5300





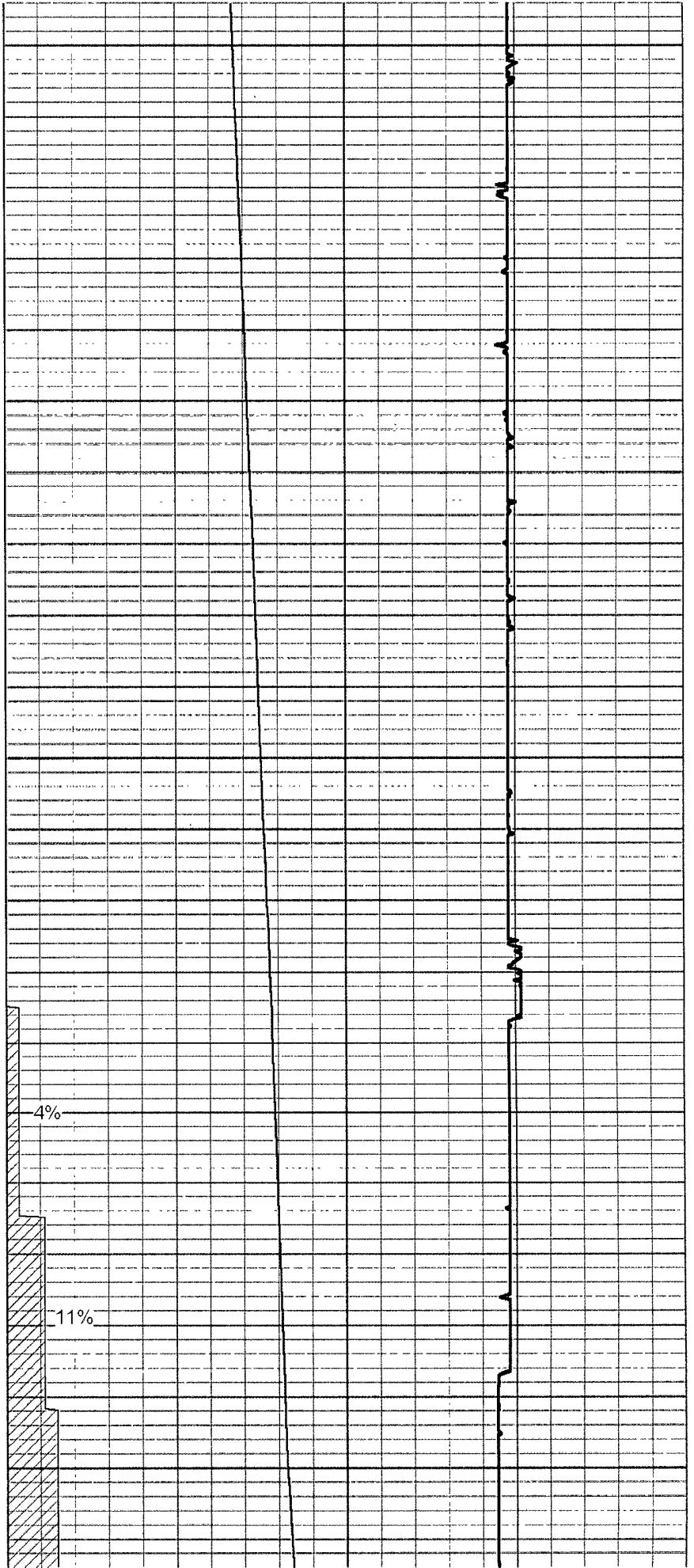
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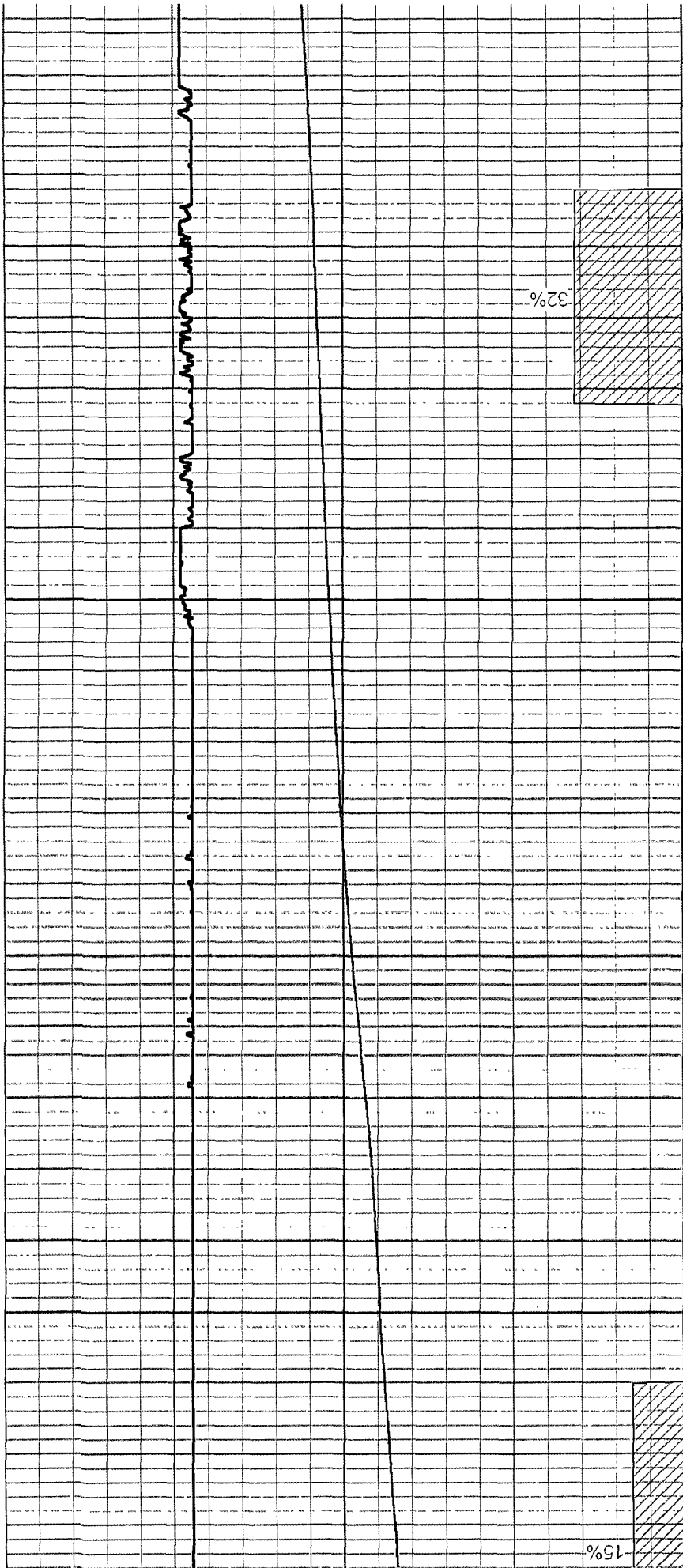
5400

5450

5500

5550



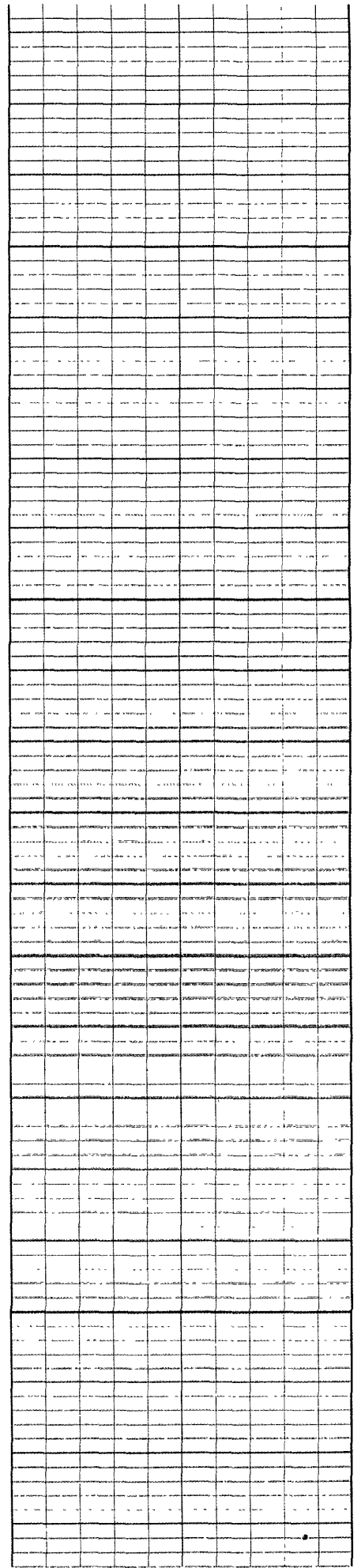


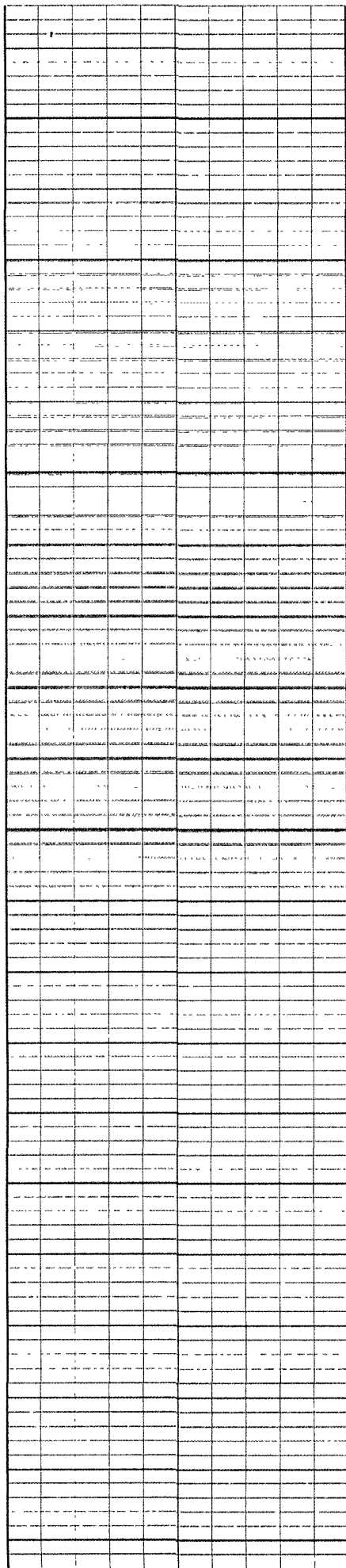
5750

5700

5650

5600





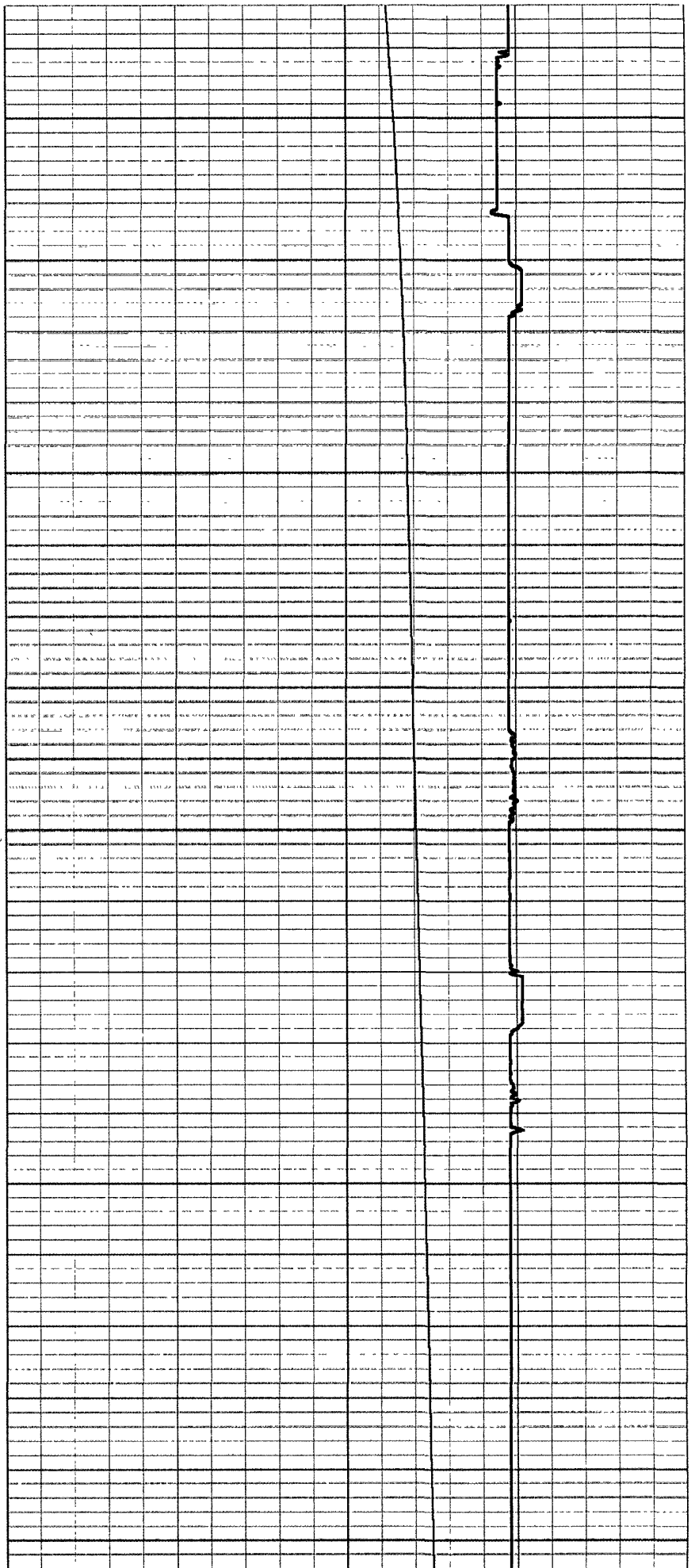
5800

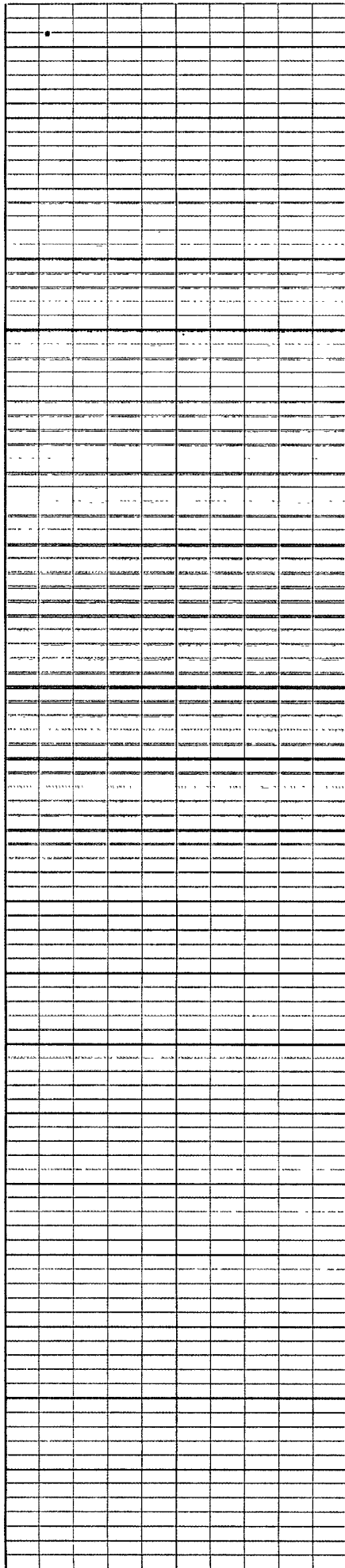
5850

5900

5950

6000



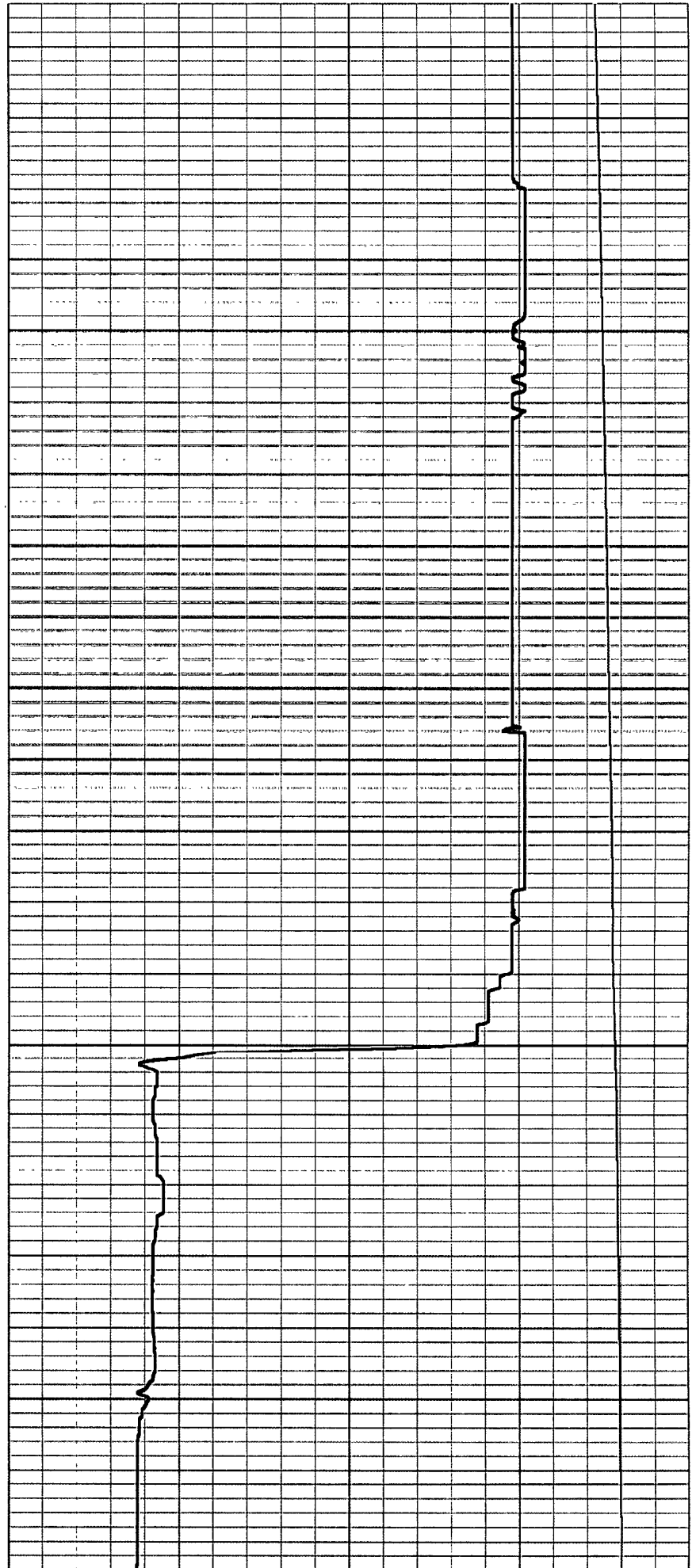


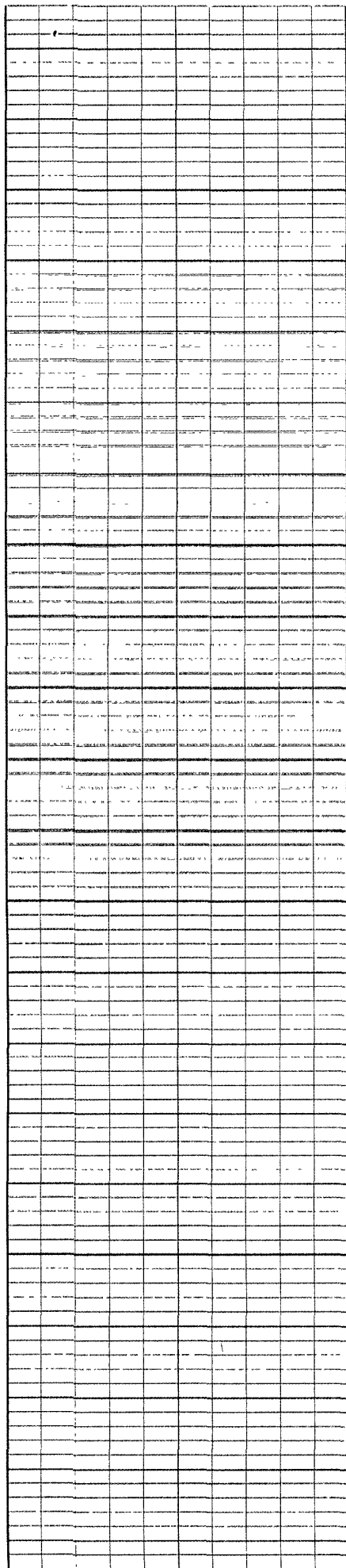
7150

7200

7250

7300



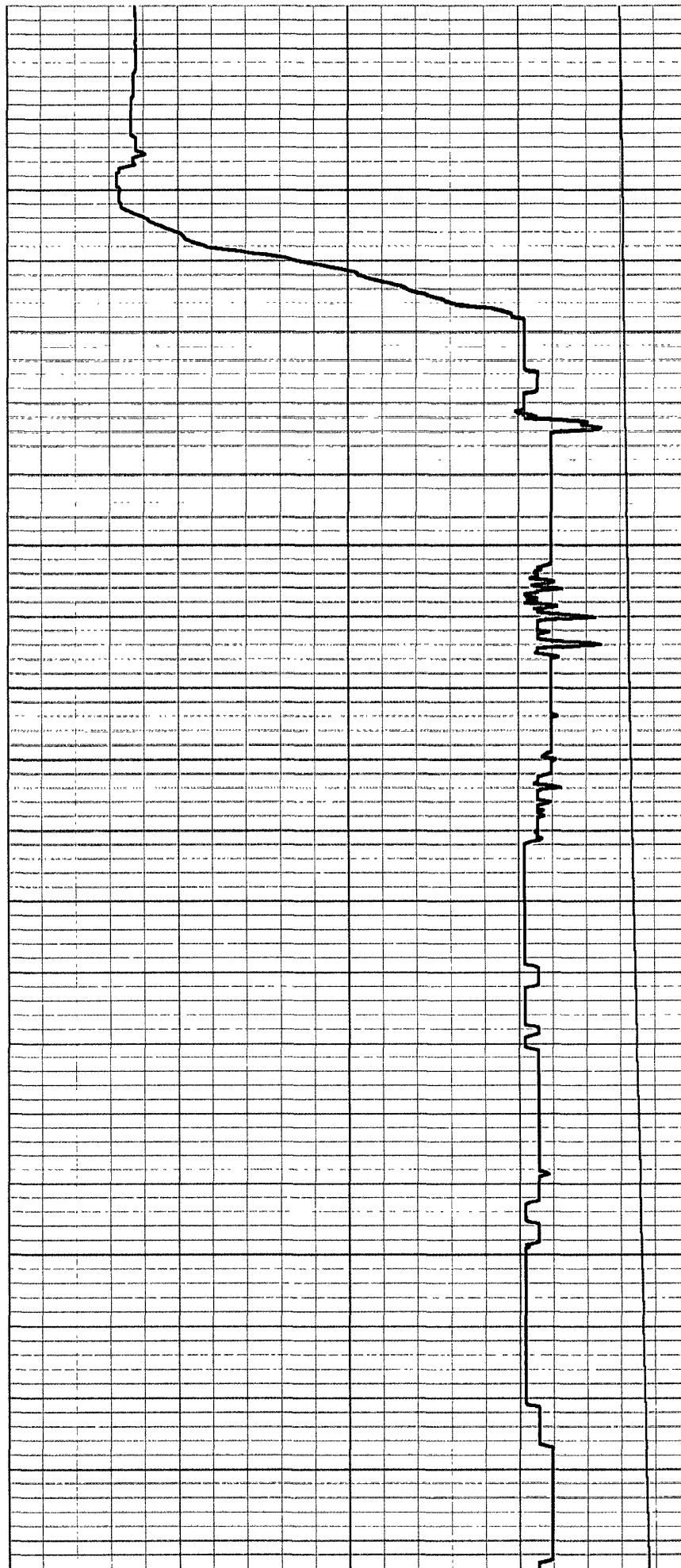


7350

7400

7450

7500



7550

7600

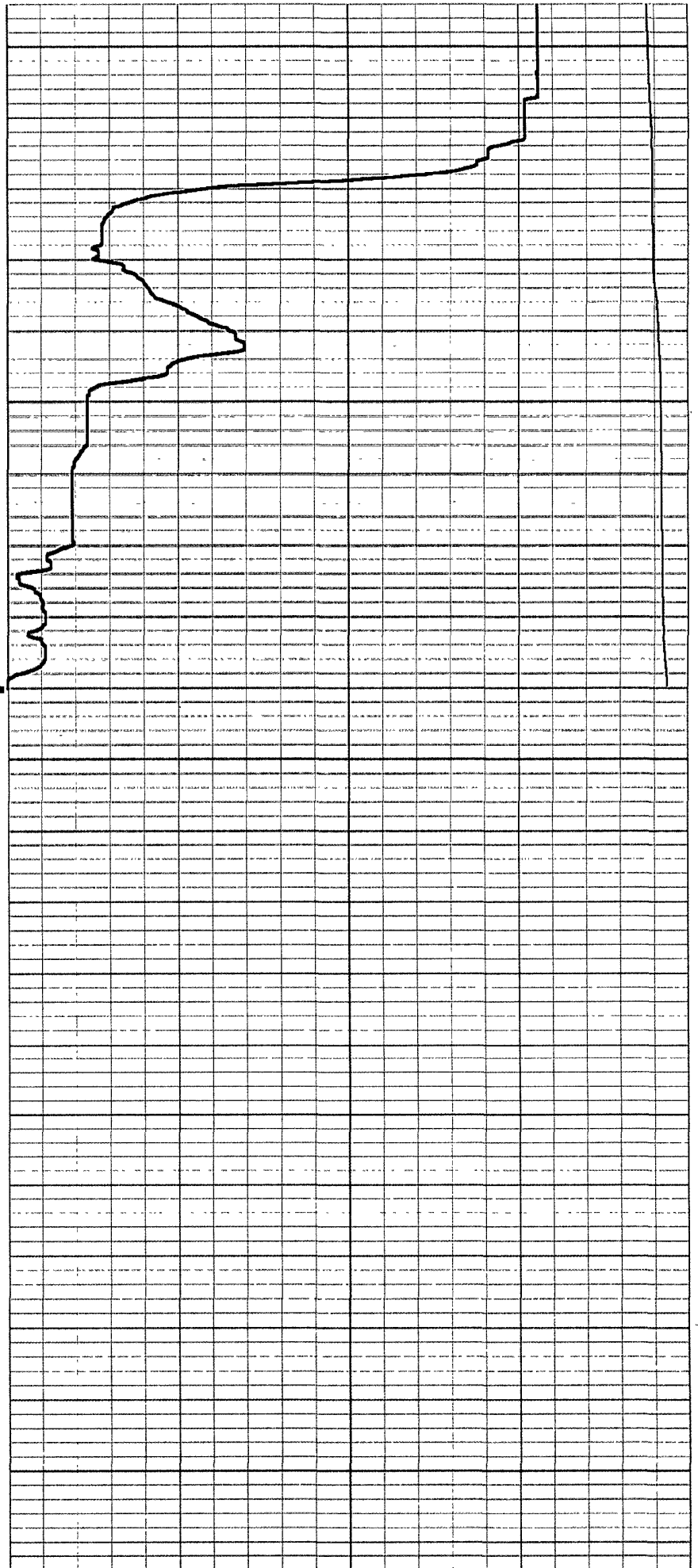
7650

FILL

7700

FILL

7750



FILL

7800

FILL

7850

FILL

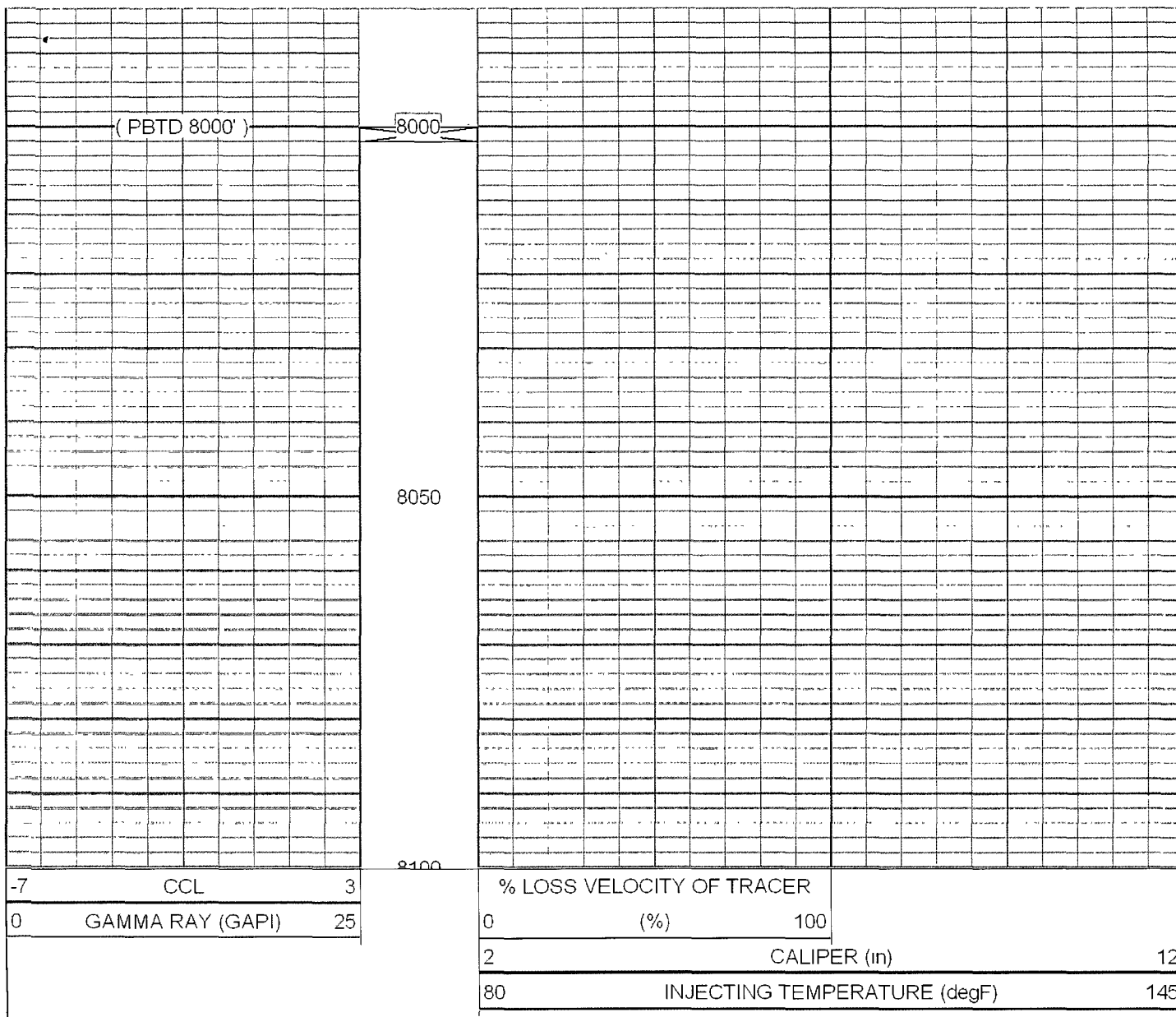
7900

FILL

7950

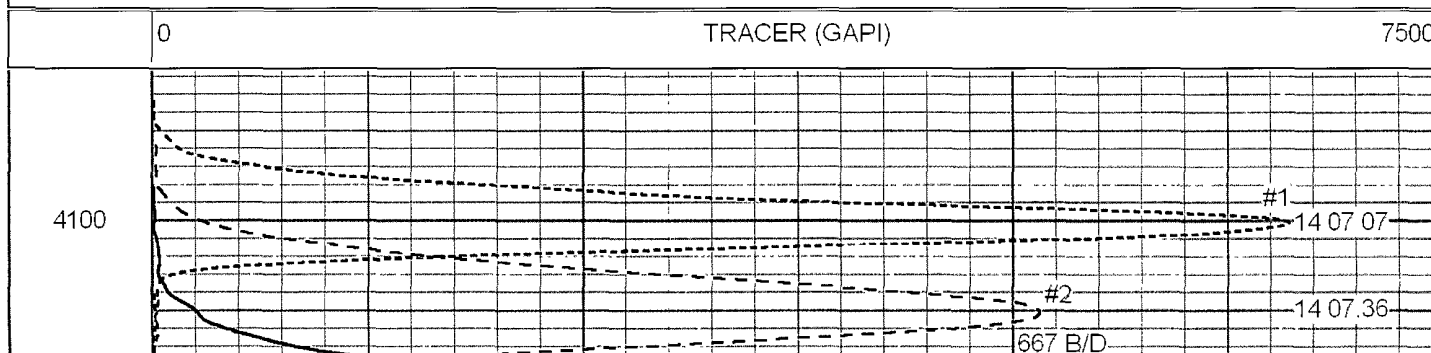
FILL

-DEPTH DRILLER 10,800'-



TRACER

Database File: avalon1.db
 Dataset Pathname: AVALON/1/TRACER/_profile3_
 Presentation Format: trcprof
 Dataset Creation: Wed Sep 23 14 48:49 2009
 Charted by: Depth in Feet scaled 1 240

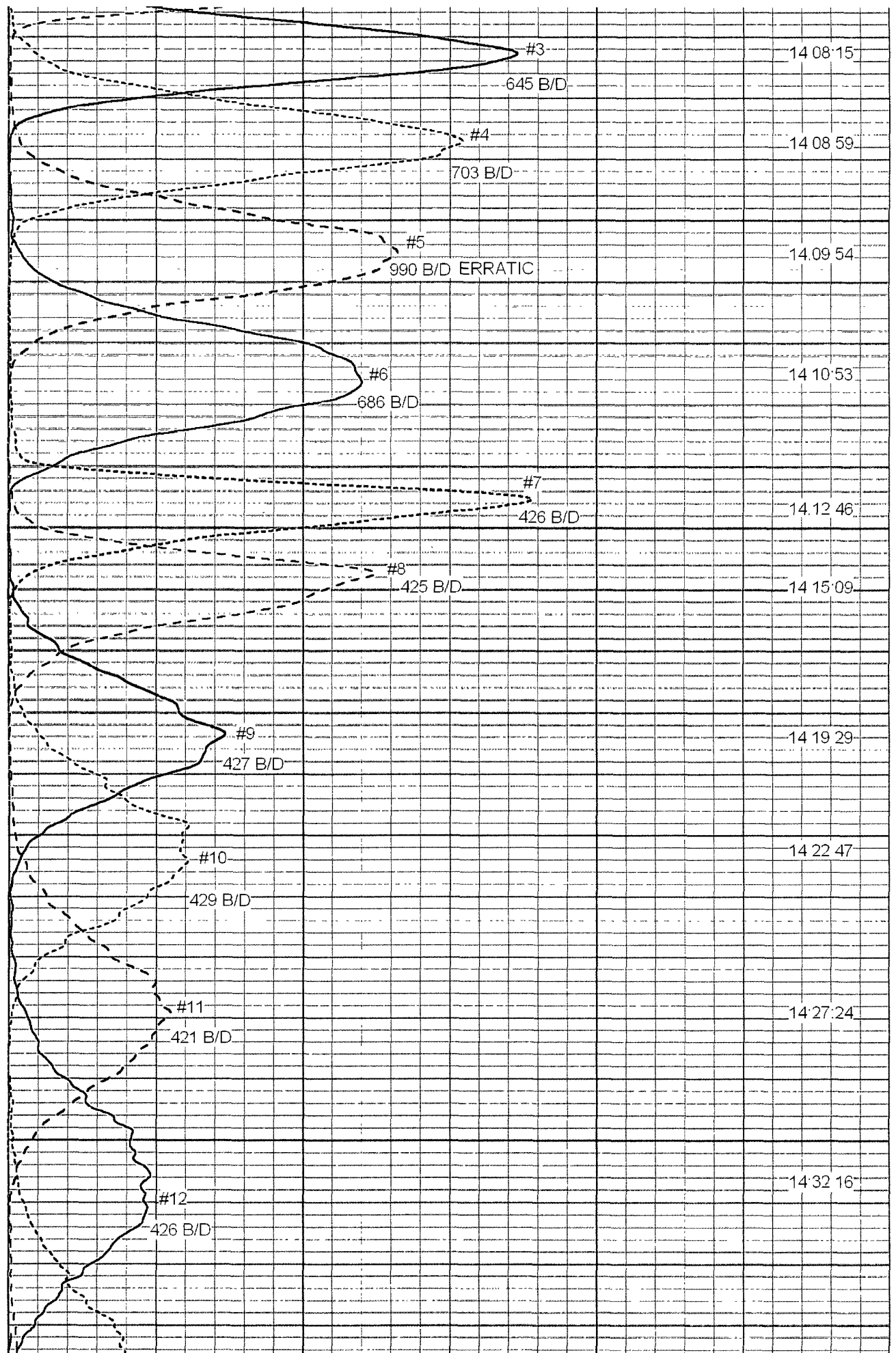


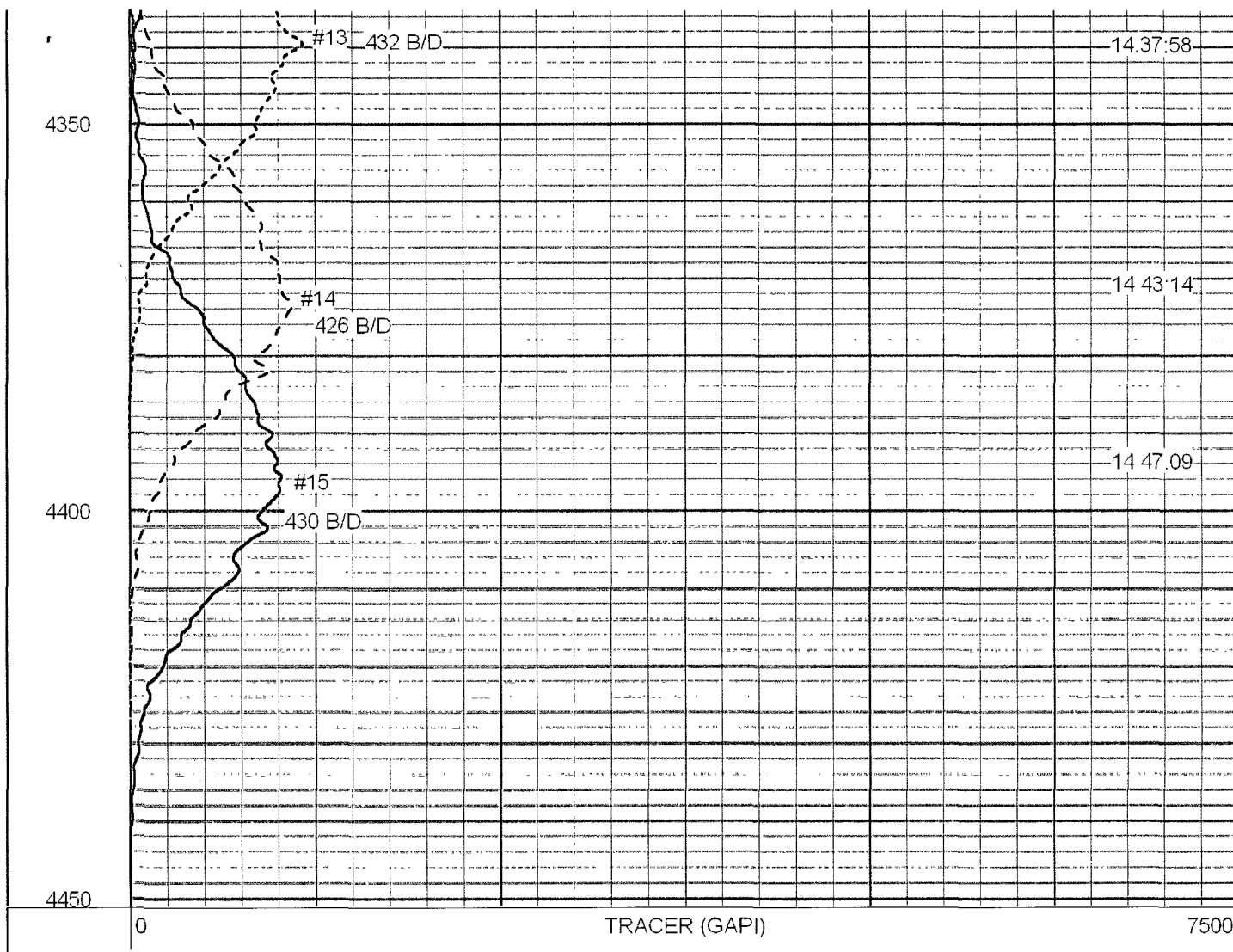
4150

4200

4250

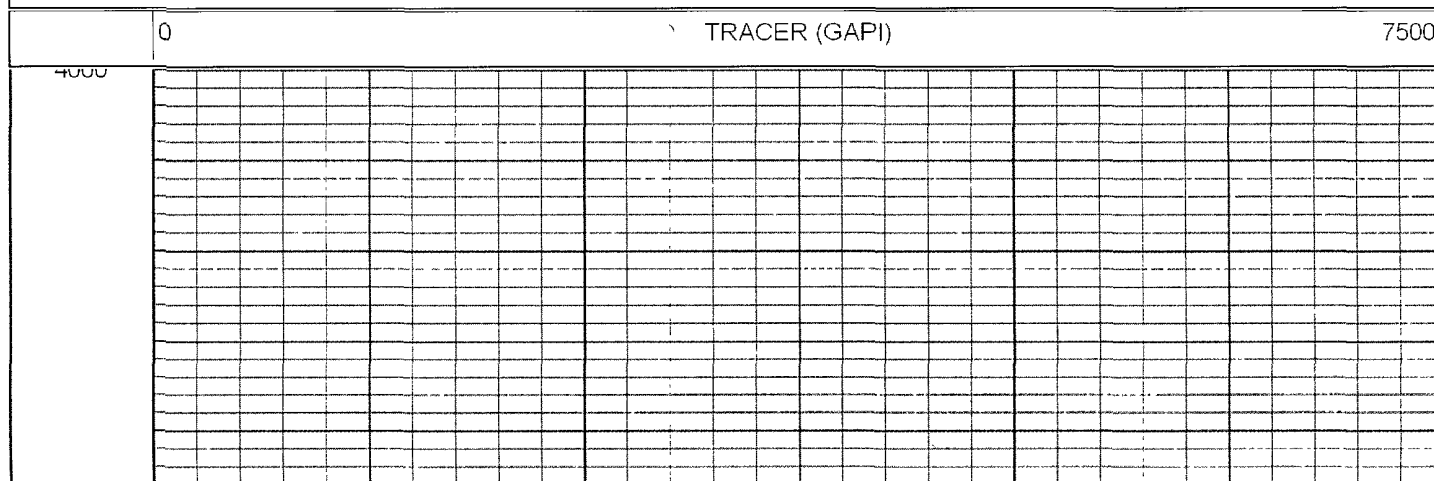
4300





CHANNEL UP CHECK

Database File: avalon1 db
 Dataset Pathname: AVALON/1/CHANUP/_profile1_
 Presentation Format: trcprof
 Dataset Creation: Wed Sep 23 15 03.33 2009
 Charted by: Depth in Feet scaled 1:240



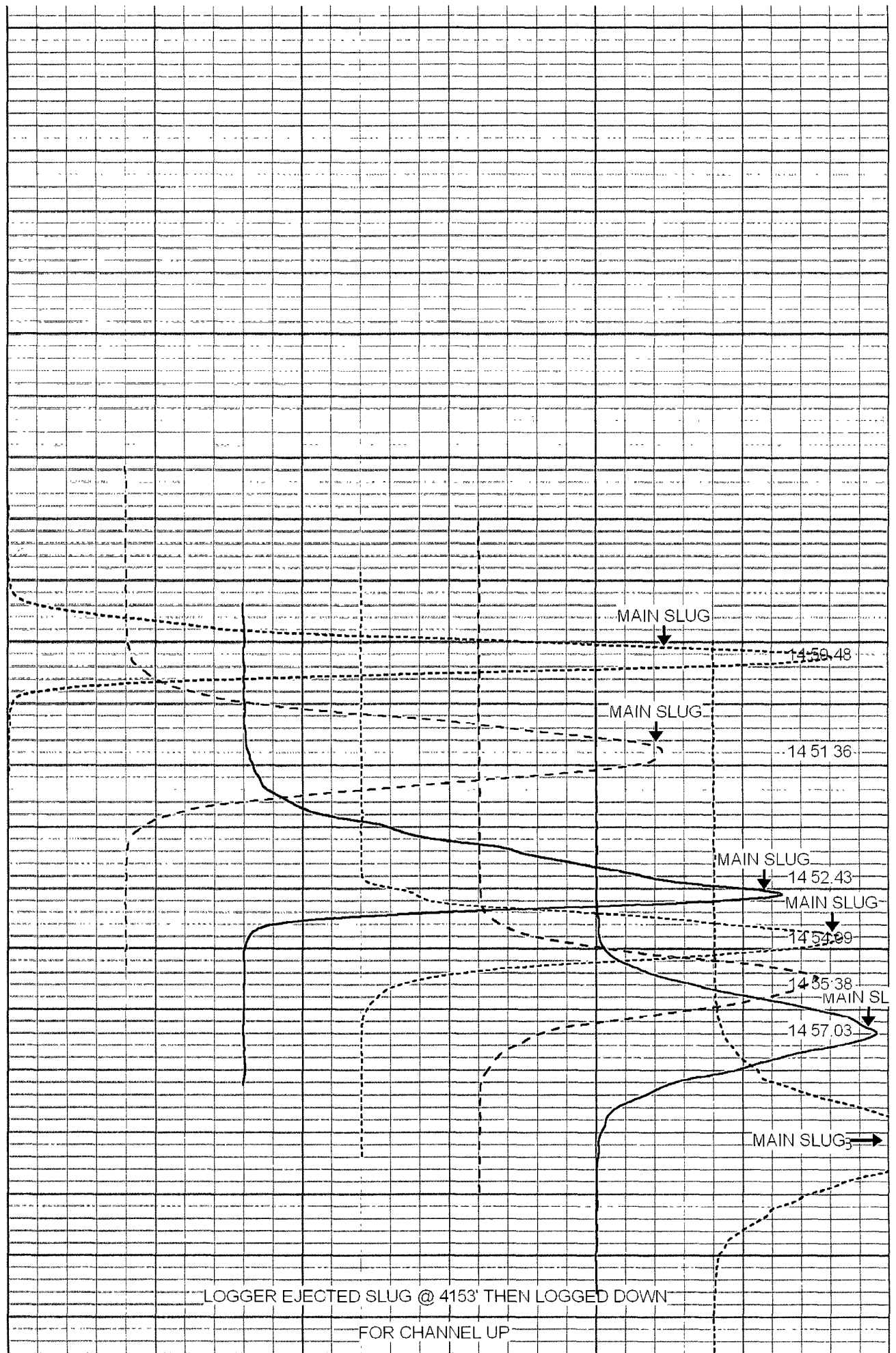
4050

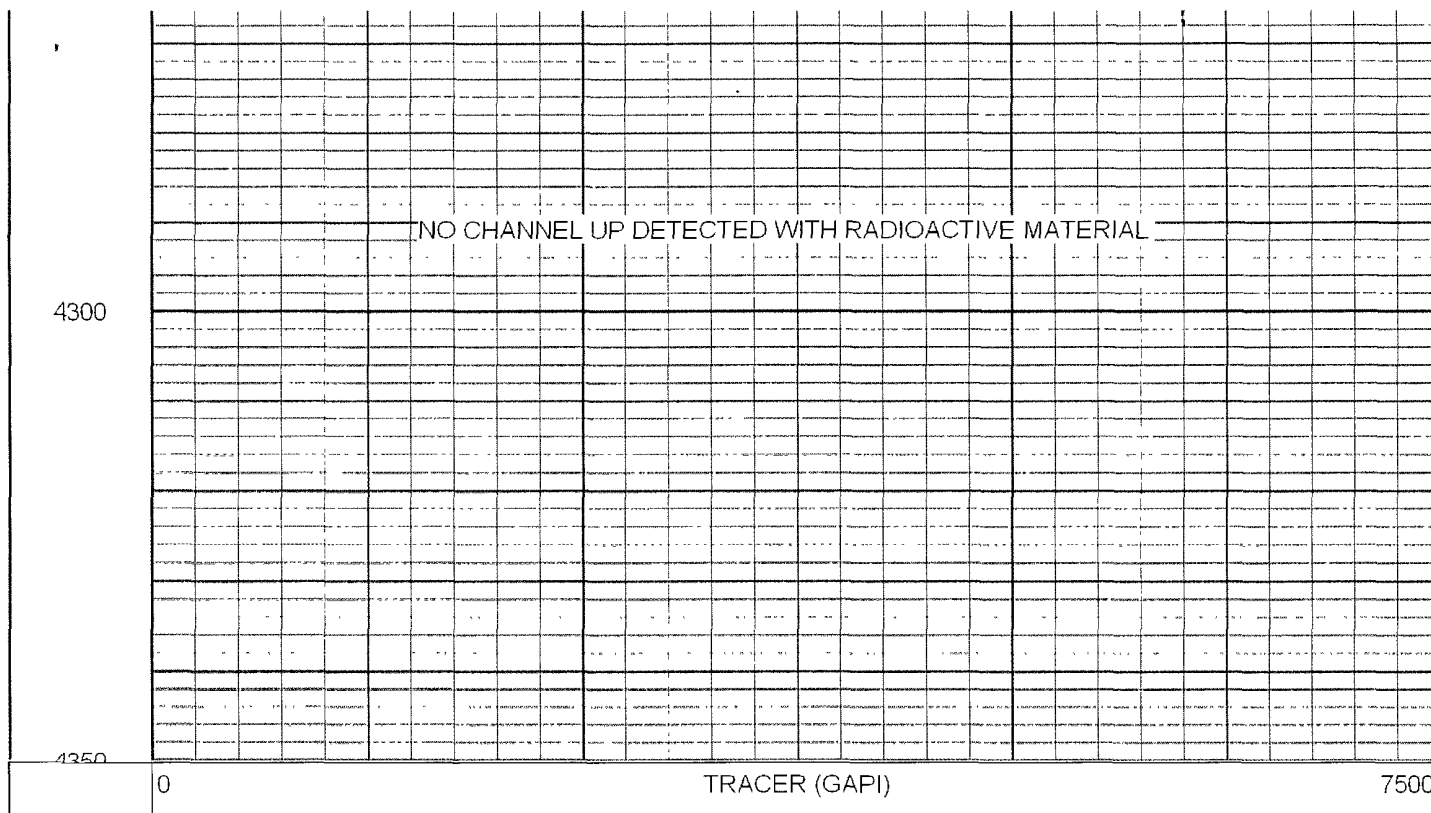
4100

4150

4200

4250

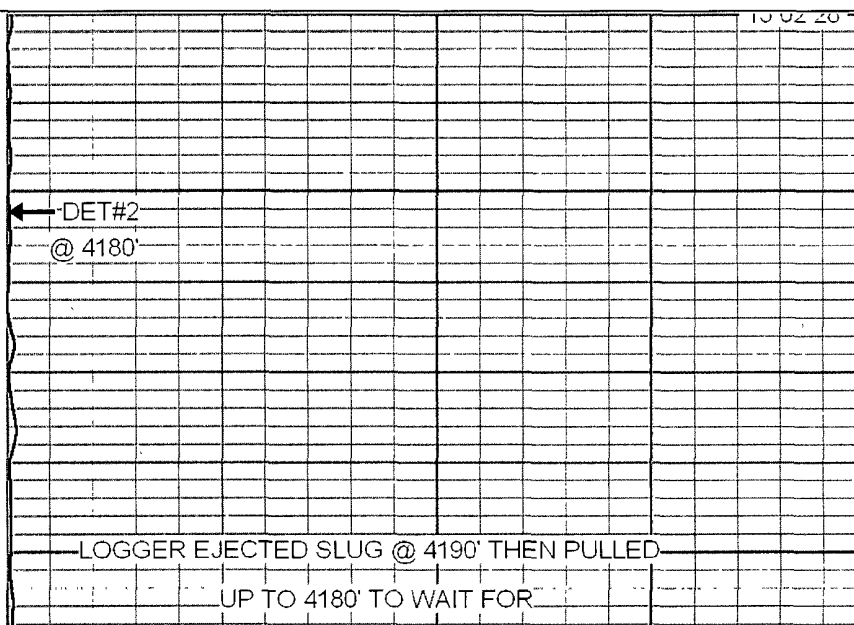
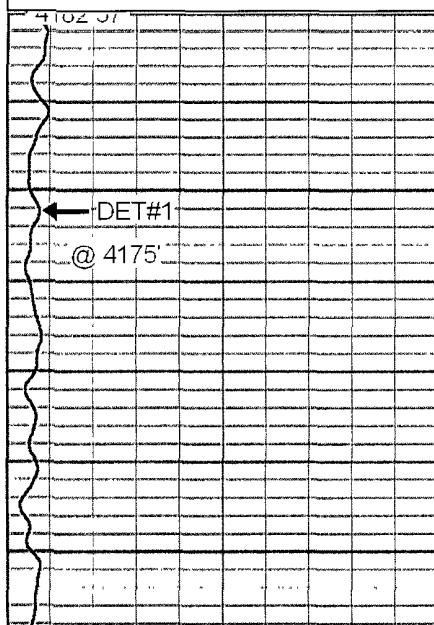




STATIONARY CHANNEL UP CHECK

Database File: avalon1.db
 Dataset Pathname: AVALON/1/CHANUP2/pass1
 Presentation Format: tracer
 Dataset Creation: Wed Sep 23 15 02 27 2009 by Log Std Casedhole 07122
 Charted by: Time scaled 360"/hour

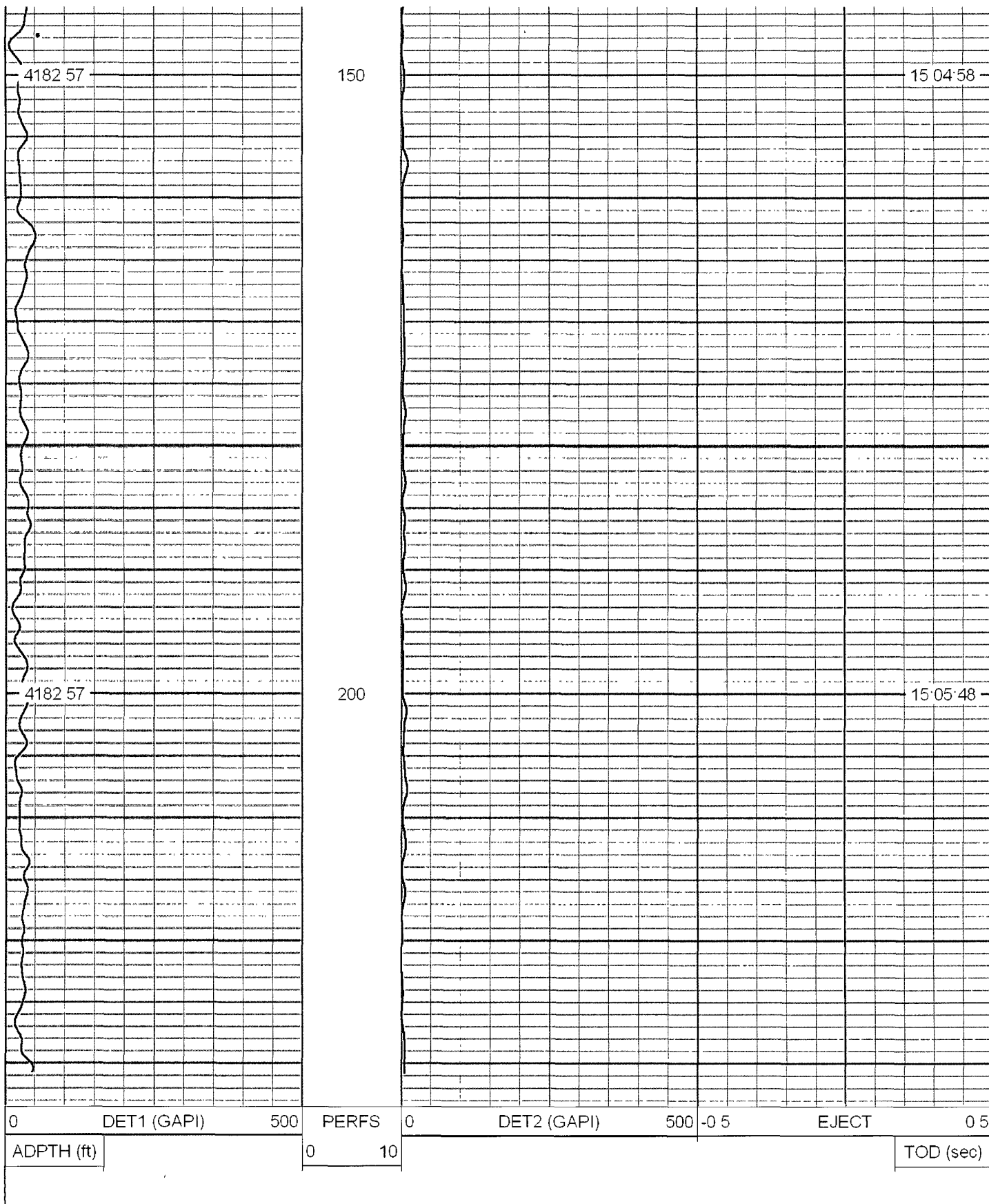
0	DET1 (GAPI)	500	PERFS	0	DET2 (GAPI)	500	-0.5	EJECT	0.5	
ADPTH (ft)			0 10						TOD (sec)	



15 03 18

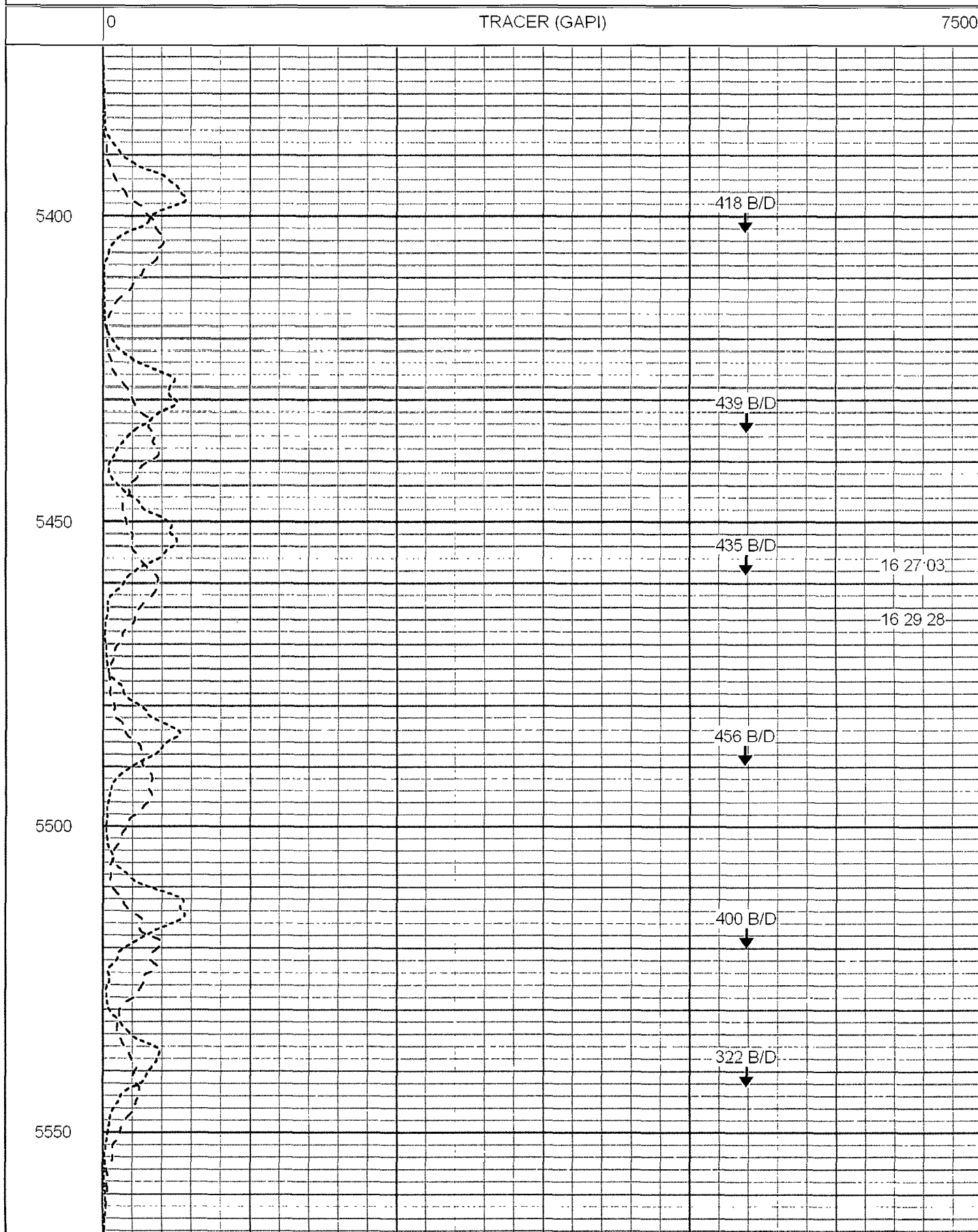
NO CHANNEL UP DETECTED WITH
RADIOACTIVE MATERIAL

15 04 08



EJECTED SLUGS DRAG ON DEPTH

Database File. avalon1 db
Dataset Pathname. AVALON/1/SLUGS2/_profile1_
Presentation Format trcprof
Dataset Creation Wed Sep 23 16 30:21 2009
Charted by: Depth in Feet scaled 1:240

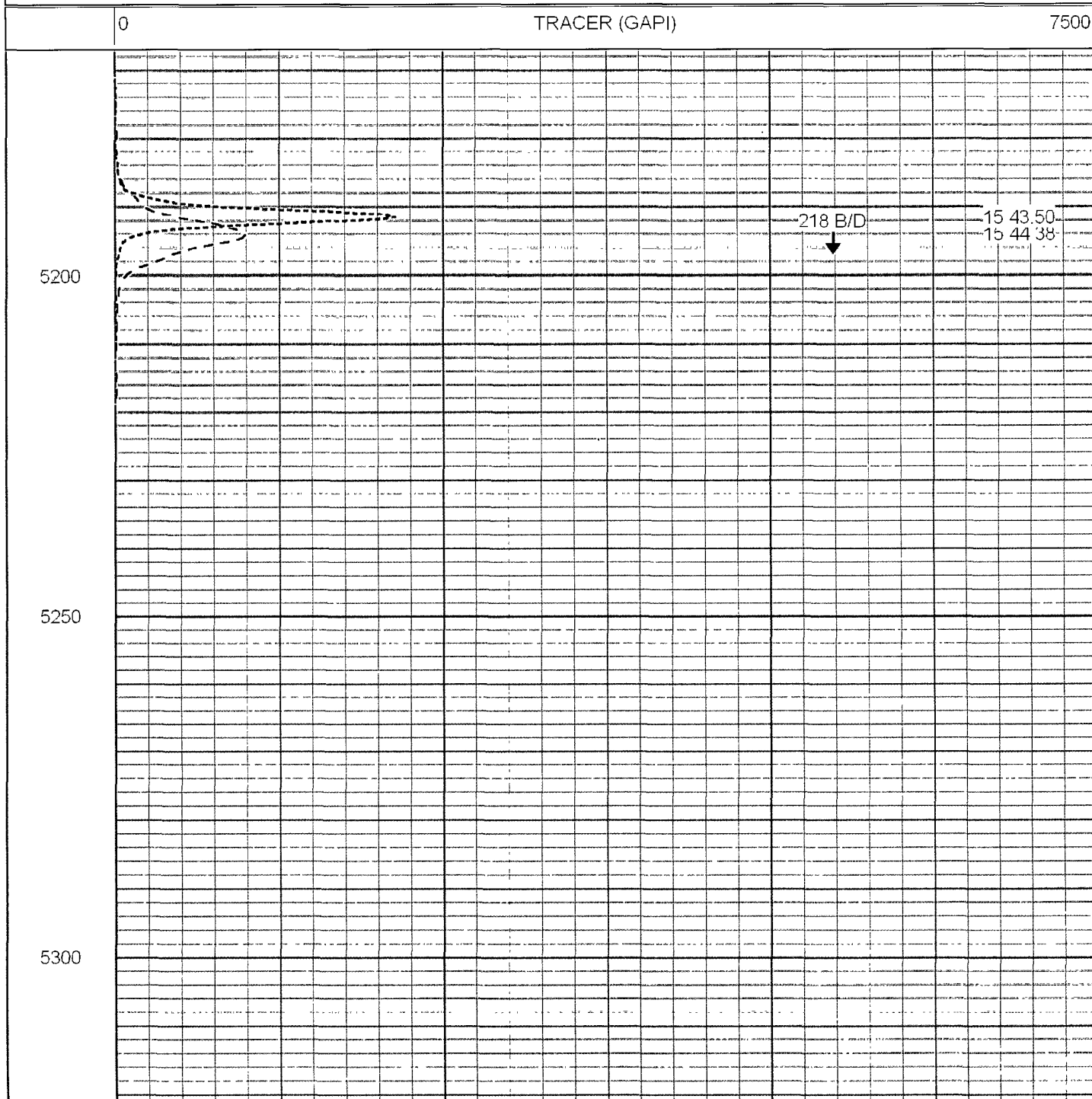


0	TRACER (GAPI)	7500
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EJECTED SLUGS DRAG ON DEPTH

Database File: avalon1 db
 Dataset Pathname: AVALON/1/SLUGS/_profile9_
 Presentation Format: trcprof
 Dataset Creation: Wed Sep 23 16:11:50 2009
 Charted by: Depth in Feet scaled 1 240



5350

5400

5450

5500

5550

5600

5650

5700

5750

212 B/D

15 48.12
15 49.46

214 B/D

212 B/D

16.11.02
16.06.45

← NOFLOW

5800

← NOFLOW

5850

← NOFLOW

15:58:55

5900

5950

6000

6050

6100

6150

6200



6250

6300

6350

6400

6450

6500

6550

6600

6650

6700

6750

6800

6850

6900

6950

7000

7050

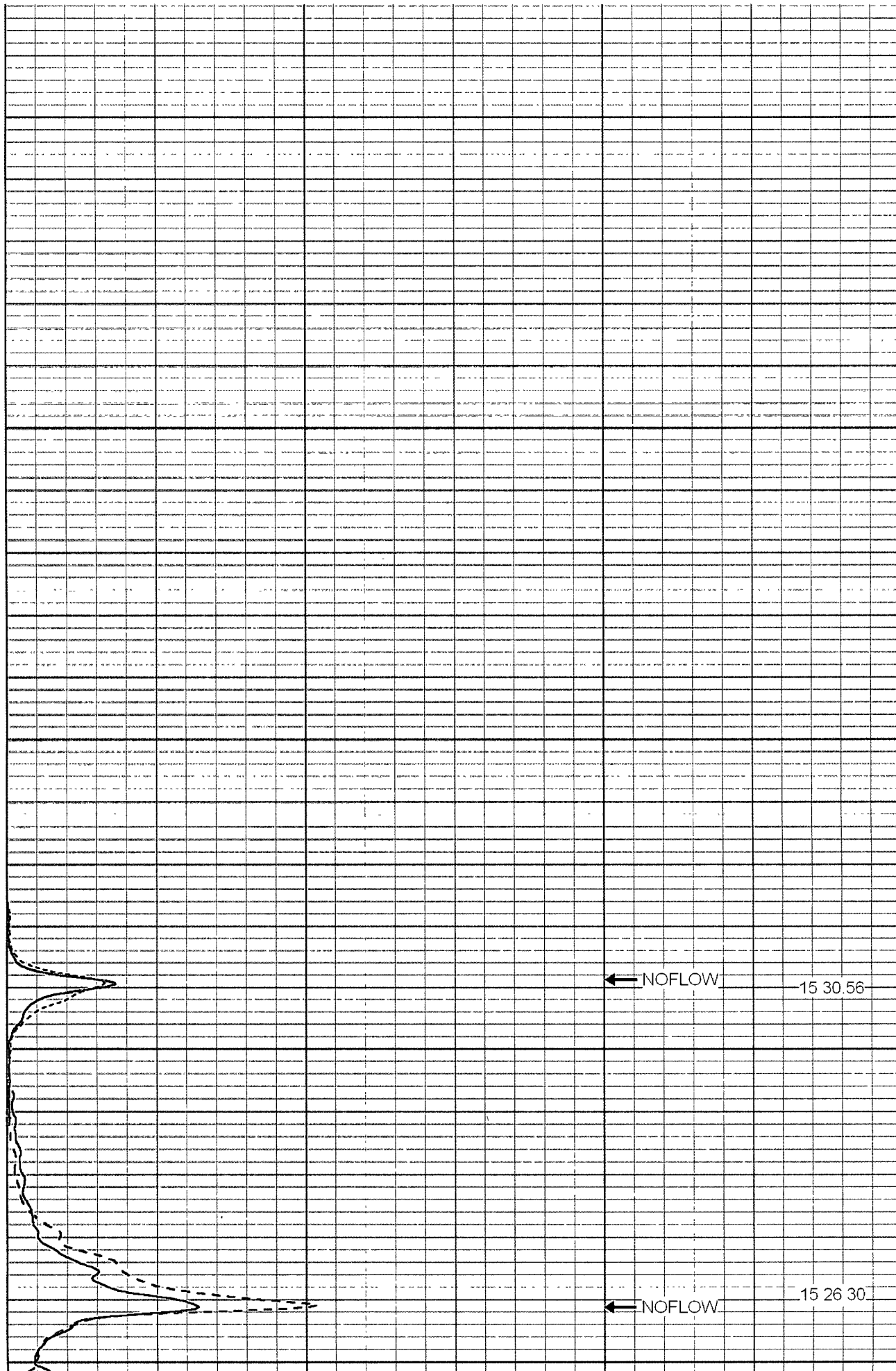
7100

7150

7200

7250

7300



7350

7400

7450

7500

← NOFLOW

15.24 36

← NOFLOW

15 20.54

