

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

Form C-103  
May 27, 2004

RECEIVED  
OCT 02 2009  
HOBBSOCD

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

|                                                                                          |
|------------------------------------------------------------------------------------------|
| WELL API NO.<br>30-025-28064                                                             |
| 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No.<br>NM-14496                                                 |
| 7. Lease Name or Unit Agreement Name<br>Ling Federal                                     |
| 8. Well Number<br>1                                                                      |
| 9. OGRID Number<br>151416                                                                |
| 10. Pool name or Wildcat<br>Delaware Mountain Group SWD                                  |

|                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|
| Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>                                 |
| 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 _____                                  |

**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 G : 1980' feet from the North line and 1980' feet from the East line  
Section 31 Township 19S Range 34E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3629.6' GR

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

|                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NOTICE OF INTENTION TO:</b><br>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/><br>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/><br>PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/><br>OTHER: <input type="checkbox"/> | <b>SUBSEQUENT REPORT OF:</b><br>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/><br>COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/><br>CASING/CEMENT JOB <input type="checkbox"/><br>OTHER: Tracer Survey <input checked="" type="checkbox"/> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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 Ling Federal #1.

Please see attached survey.

Accepted for Record Only

KZ  
PETROLEUM ENGINEER  
OCT 05 2009

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: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
Conditions of Approval (if any): \_\_\_\_\_



# INJECTION PROFILE

Company FASKEN OIL & RANCH LTD  
Well LING FEDERAL #1  
Field -----  
County LEA  
State NEW MEXICO

|                                |                  |
|--------------------------------|------------------|
| Company FASKEN OIL & RANCH LTD |                  |
| Well LING FEDERAL #1           |                  |
| Field -----                    |                  |
| County LEA                     | State NEW MEXICO |
| Location: API #: 30-025-2864   |                  |
| 1980' FNL & 1980' FEL          |                  |
| SEC 31 TWP 19-S RGE 34-E       |                  |
| Permanent Datum G.L.           | Elevation -----  |
| Log Measured From K.B. APD22'  | K B 3652'        |
| Drilling Measured From K.B.    | D.F 3651'        |
|                                | G.L. 3629 6'     |
| Other Services                 |                  |
| CALIPER                        |                  |

|                        |           |                |
|------------------------|-----------|----------------|
| Date                   | 09/24/09  |                |
| Run Number             | ONE       |                |
| Depth Driller          | 13,691'   | ( PBTD 8300' ) |
| Depth Logger           | 8279'     |                |
| Bottom Logged Interval | 8579'     |                |
| Top Log Interval       | 5400'     |                |
| 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    |
|                   |     |      |           | 2 375"        |         | 0'   | 5630' |
|                   |     |      |           |               |         |      |       |
|                   |     |      |           |               |         |      |       |
|                   |     |      |           |               |         |      |       |
| Casing Record     |     | Size | Wgt/Ft    | Top           | Bottom  |      |       |
| Surface String    |     |      |           |               |         |      |       |
| Prot. String      |     |      |           |               |         |      |       |
| Production String |     | 5 5" | 17# & 20# | 0             | 13,690' |      |       |
| 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 ENERTECH 03/11/09

PERFORATIONS

PERFS: SEE COMMENTS  
IN 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 1605 B/D

PRESSURE 1400 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.

PERFS: 5682-5702, 5782-90, 6020-40, 6078-6102, 6188-6196, 6210-34, 6370-94, 6490-6502, 6626-40, 6744-52, 6874-90,  
7464-78, 7750-68, 7950-60, 7986-8006, 8010-20

THE TEMPERATURE AND TRACER INDICATE A POSSIBLE LOSS THROUGH AN UNPERFORATED INTERVAL FROM  
BETWEEN 6240-6254'.

100% CASING RATE- 1605 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)<br>1 3/8\"/>     | 1 89     | 1 38    | 5 00    |
| DET    | 5 00        |           | TRDET-PROBE1 (080769T)<br>1 3/8\"/> | 3 46     | 1 38    | 15 00   |

|                                                                                                                                                |       |  |                                                         |      |      |       |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------|--|---------------------------------------------------------|------|------|-------|
| DET#2                                                                                                                                          | 0 00  |  | TRDET #2 -Probe2 (080769B)<br>1 3/8" Probe Bottom Gamma | 3 46 | 1 38 | 15 00 |
|                                                                                                                                                |       |  |                                                         |      |      |       |
|                                                                                                                                                |       |  |                                                         |      |      |       |
|                                                                                                                                                |       |  |                                                         |      |      |       |
|                                                                                                                                                |       |  |                                                         |      |      |       |
| XCAL                                                                                                                                           | -3 93 |  | XYC-PROBE (PROBE01)<br>1 3/8" Probe Caliper             | 3 43 | 1 38 | 20.00 |
| YCAL                                                                                                                                           | -3 93 |  |                                                         |      |      |       |
|                                                                                                                                                |       |  |                                                         |      |      |       |
| TEMP                                                                                                                                           | -5 18 |  | TEMP-Probe (080510)<br>Probe 1 3/8" Temp                | 1 00 | 1 38 | 4 00  |
| <div>Dataset: ling1 db LING/1/TRACER3/pass17</div> <div>Total Length: 16.29 ft</div> <div>Total Weight: 69.00 lb</div> <div>O D: 1 38 in</div> |       |  |                                                         |      |      |       |

Company:

Well:

File: C:\Warrior\Data\ling1.db

Dataset: LING/1/TRACER3/\_tracer/\_shottabl\_/1

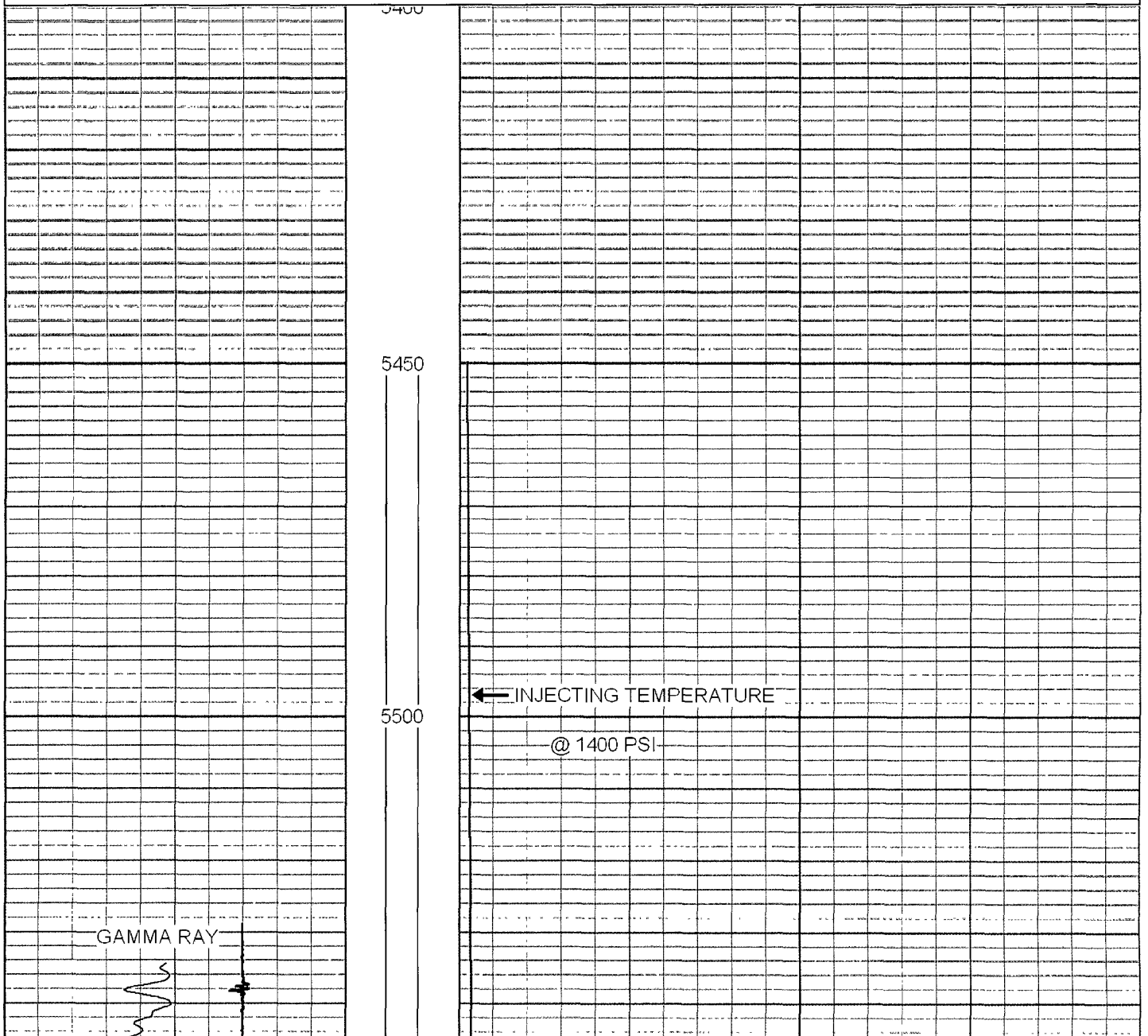
## TRACER RESULTS

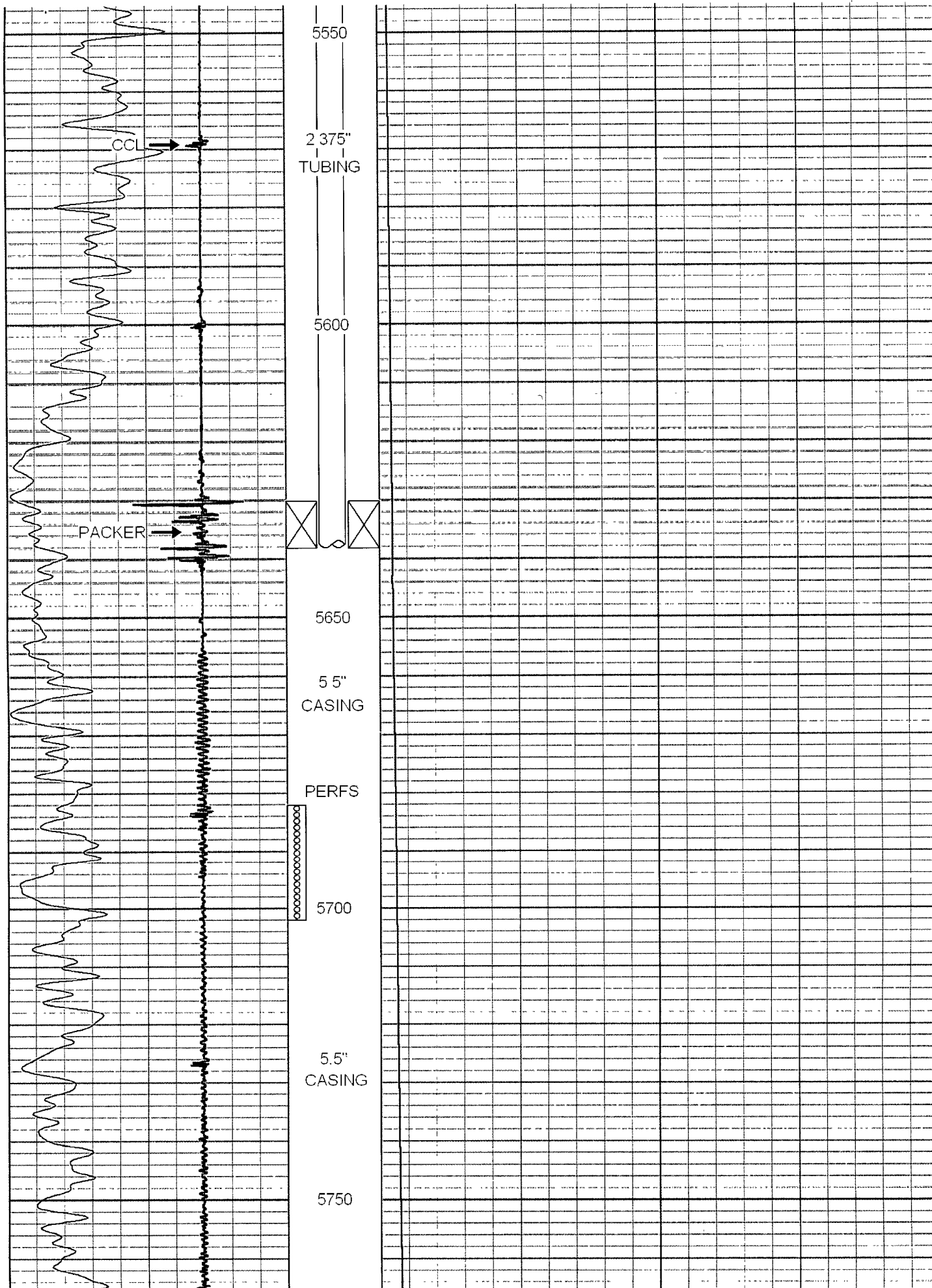
| #  | Depth (ft) | Time     | Integration | Flow (%) | Delta (%) | Comment |
|----|------------|----------|-------------|----------|-----------|---------|
| 1  | 5670.00    | 14:23:16 | 1605.00     | 100.00   |           |         |
| 2  | 5699.00    | 14:23:20 | 1605.00     | 100.00   | 0.00      |         |
| 3  | 5735.00    | 14:23:28 | 1605.00     | 100.00   | 0.00      |         |
| 4  | 5769.00    | 14:23:38 | 1605.00     | 100.00   | 0.00      |         |
| 5  | 5798.00    | 14:23:44 | 484.00      | 30.16    | 69.84     |         |
| 6  | 5823.00    | 14:23:48 | 484.00      | 30.16    | 0.00      |         |
| 7  | 5843.00    | 14:23:54 | 484.00      | 30.16    | 0.00      |         |
| 8  | 5882.00    | 14:23:58 | 484.00      | 30.16    | 0.00      |         |
| 9  | 5912.00    | 14:24:03 | 484.00      | 30.16    | 0.00      |         |
| 10 | 5938.00    | 14:24:09 | 484.00      | 30.16    | 0.00      |         |
| 11 | 5970.00    | 14:24:16 | 484.00      | 30.16    | 0.00      |         |
| 12 | 6000.00    | 14:24:27 | 484.00      | 30.16    | 0.00      |         |
| 13 | 6028.00    | 14:24:33 | 484.00      | 30.16    | 0.00      |         |
| 14 | 6074.00    | 14:24:41 | 484.00      | 30.16    | 0.00      |         |
| 15 | 6108.00    | 14:24:49 | 484.00      | 30.16    | 0.00      |         |
| 16 | 6144.00    | 14:24:55 | 484.00      | 30.16    | 0.00      |         |
| 17 | 6170.00    | 14:24:59 | 484.00      | 30.16    | 0.00      |         |
| 18 | 6206.00    | 14:25:06 | 484.00      | 30.16    | 0.00      |         |

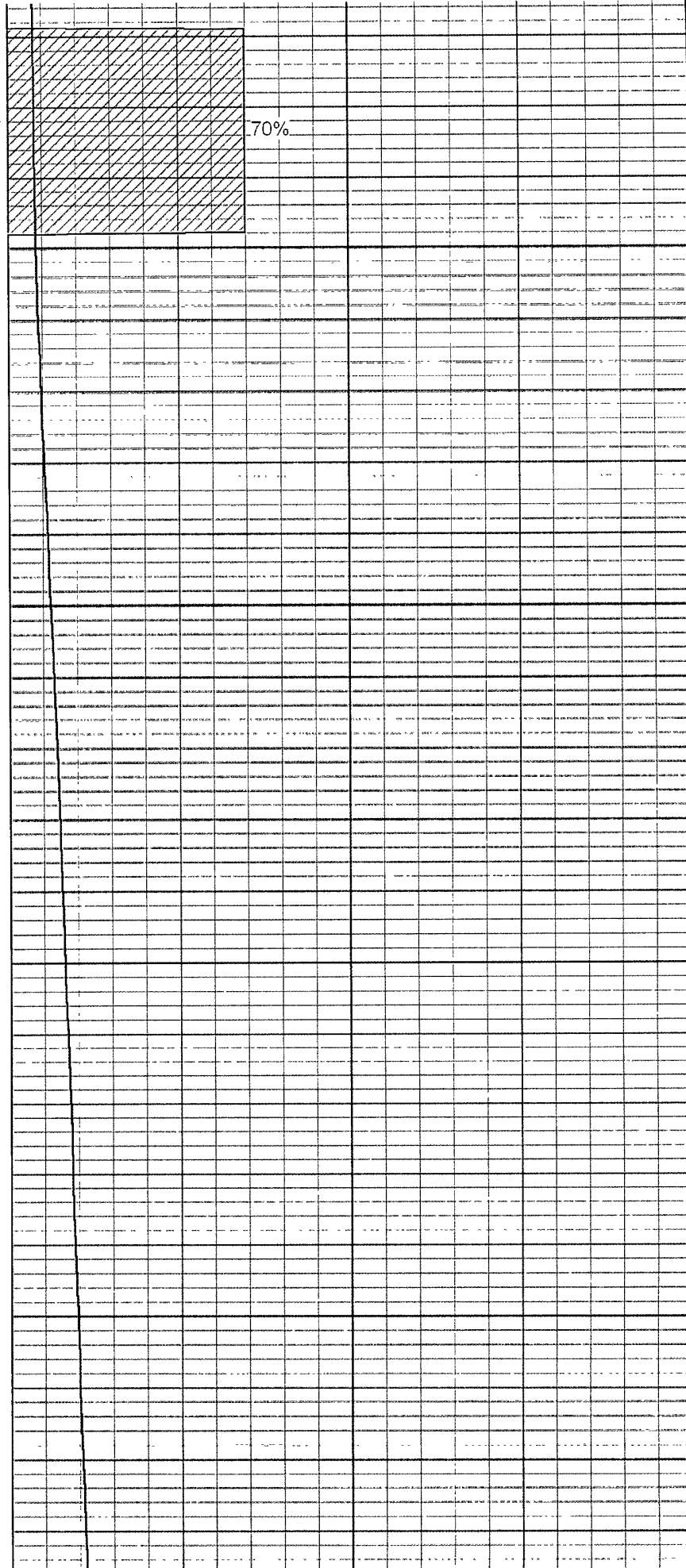
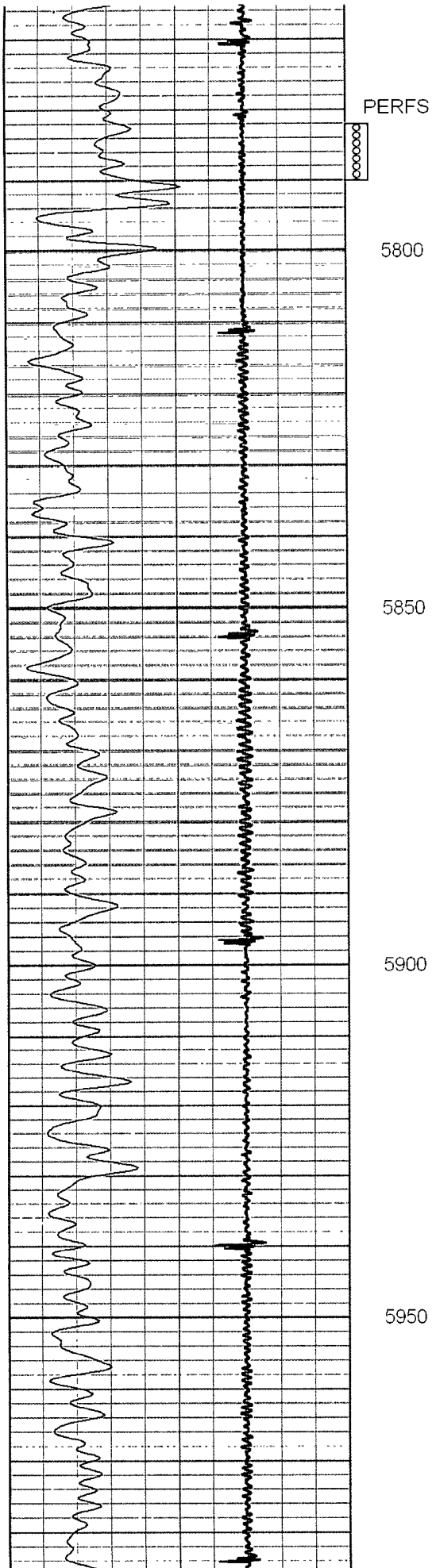
|    |         |          |        |       |       |  |
|----|---------|----------|--------|-------|-------|--|
| 19 | 6240.00 | 14:25:15 | 245.00 | 15.26 | 14.89 |  |
| 20 | 6254.00 | 14:25:24 | 100.00 | 6.23  | 9.03  |  |
| 21 | 6274.00 | 14:25:36 | 100.00 | 6.23  | 0.00  |  |
| 22 | 7875.00 | 14:25:44 | 100.00 | 6.23  | 0.00  |  |
| 23 | 7914.00 | 14:25:53 | 100.00 | 6.23  | 0.00  |  |
| 24 | 7942.00 | 14:25:58 | 100.00 | 6.23  | 0.00  |  |
| 25 | 7974.00 | 14:26:03 | 100.00 | 6.23  | 0.00  |  |
| 26 | 8003.00 | 14:26:08 | 68.00  | 4.24  | 1.99  |  |
| 27 | 8020.00 | 14:26:13 | 0.00   | 0.00  | 4.24  |  |

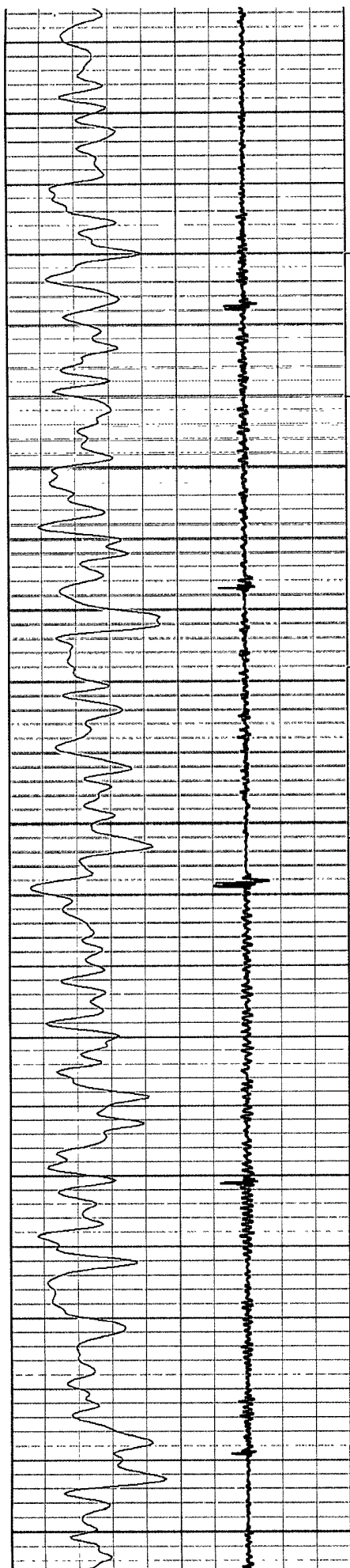
Database File: ling1 db  
Dataset Pathname: LING/1/TRACER3/\_compos5\_  
Presentation Format: trocomp  
Dataset Creation: Thu Sep 24 15 20 51 2009  
Charted by: Depth in Feet scaled 1:240

|    |                  |    |                           |                              |     |
|----|------------------|----|---------------------------|------------------------------|-----|
| -7 | CCL              | 3  | % LOSS VELOCITY OF TRACER |                              |     |
| 0  | GAMMA RAY (GAPI) | 25 | 0                         | (%)                          | 100 |
|    |                  |    | 83                        | INJECTING TEMPERATURE (degF) |     |
|    |                  |    | 133                       |                              |     |









6000

PERFS

6050

5.5"  
CASING

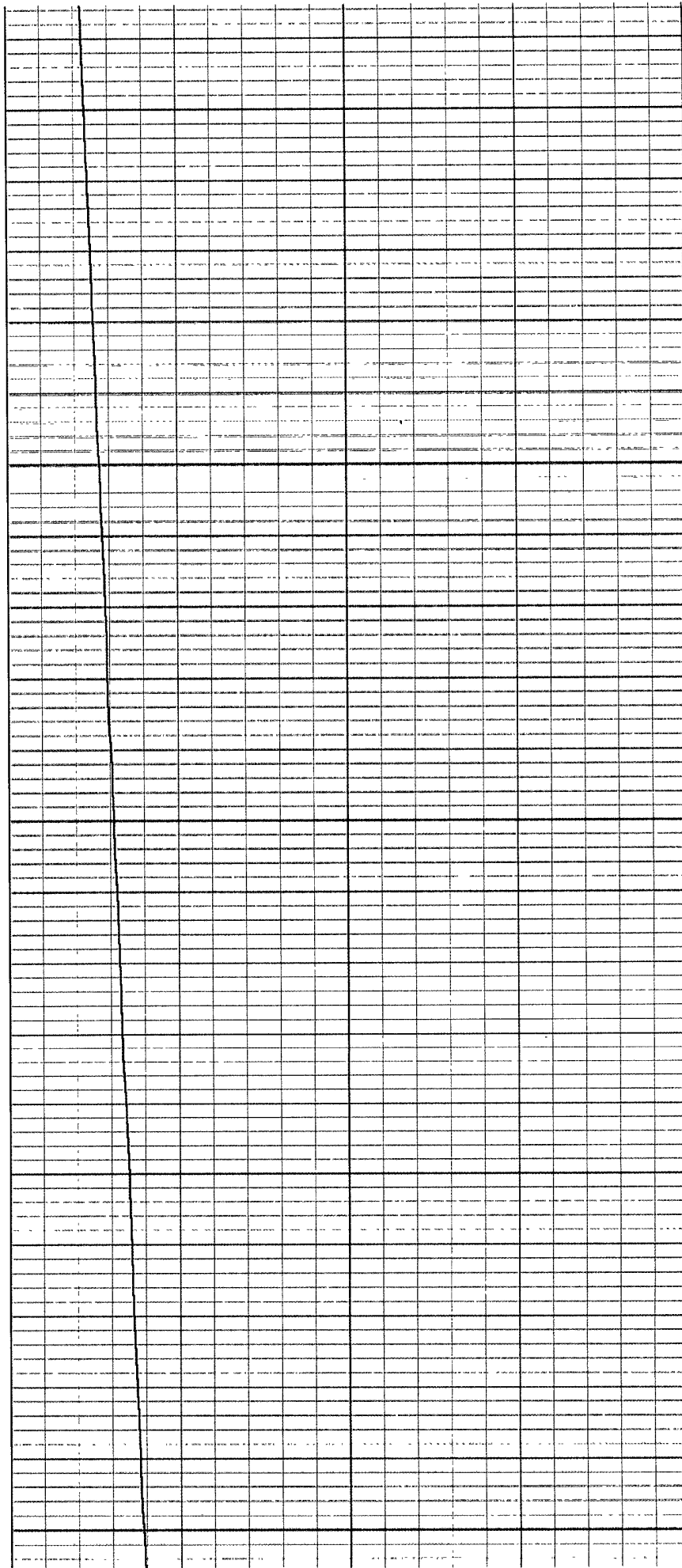
PERFS

6100

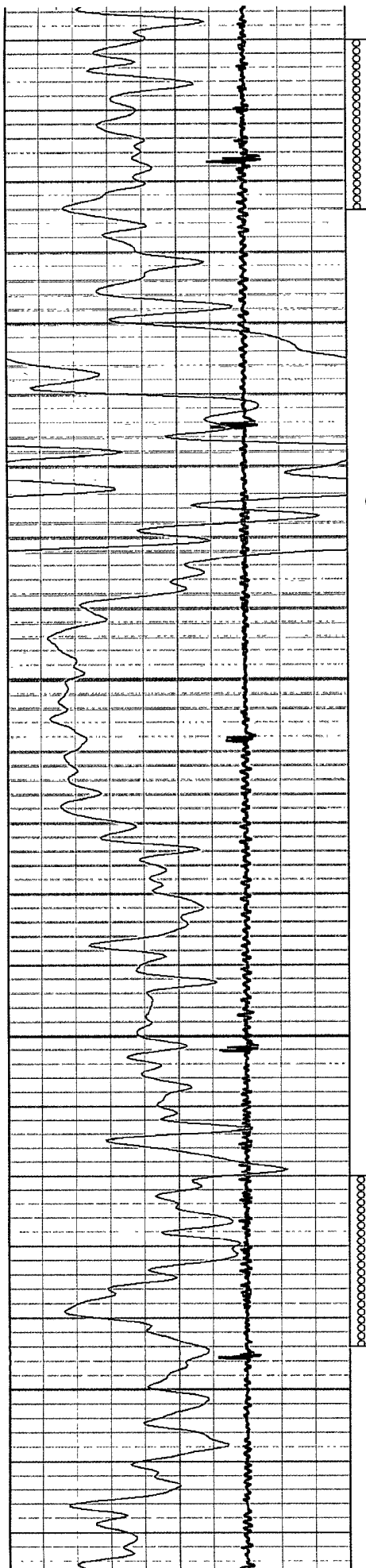
6150

PERFS

6200







6250

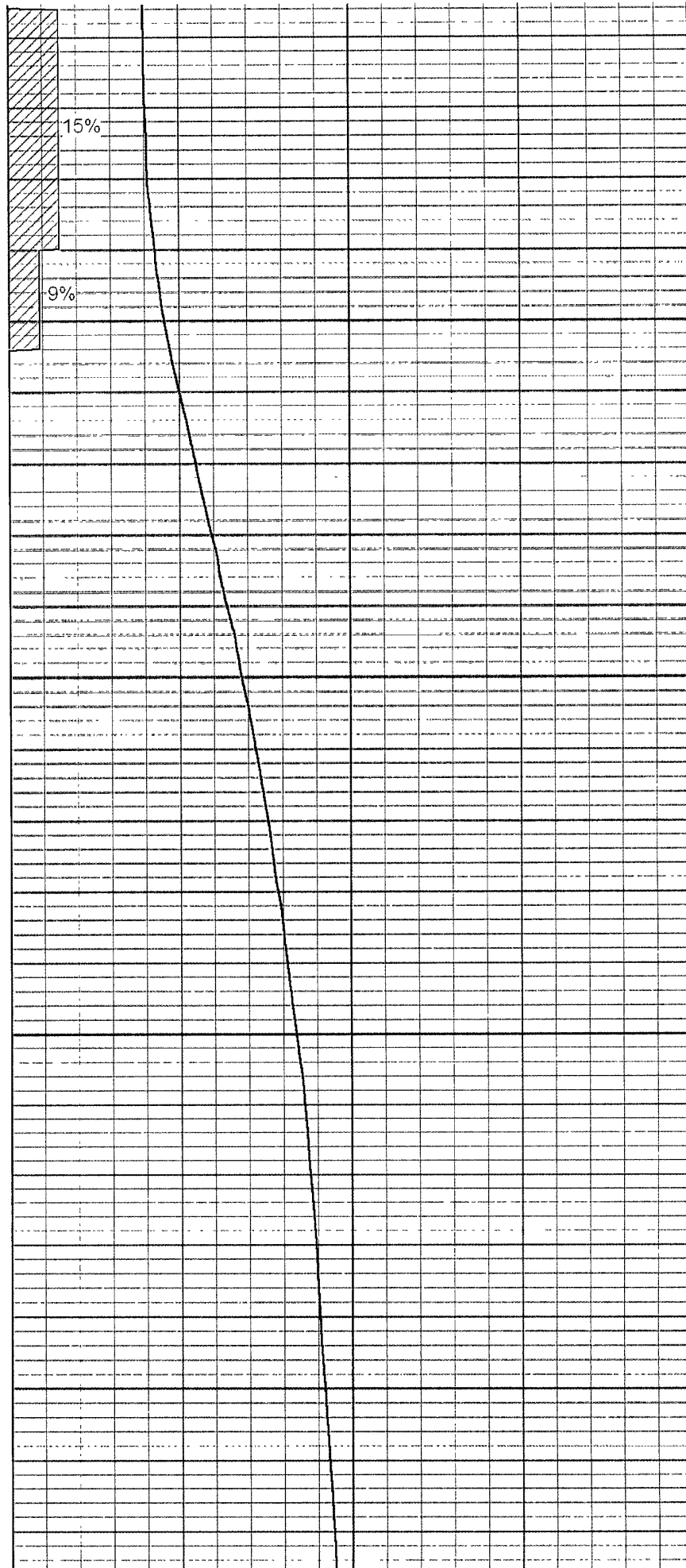
5.5\" CASING

6300

6350

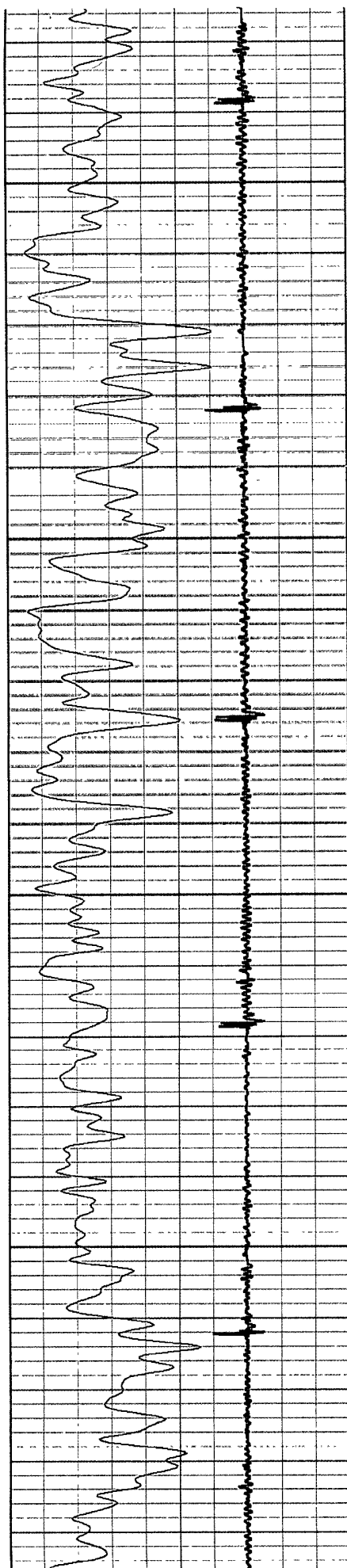
PERFS

6400



15%

9%



6450

55"  
CASING

PERFS

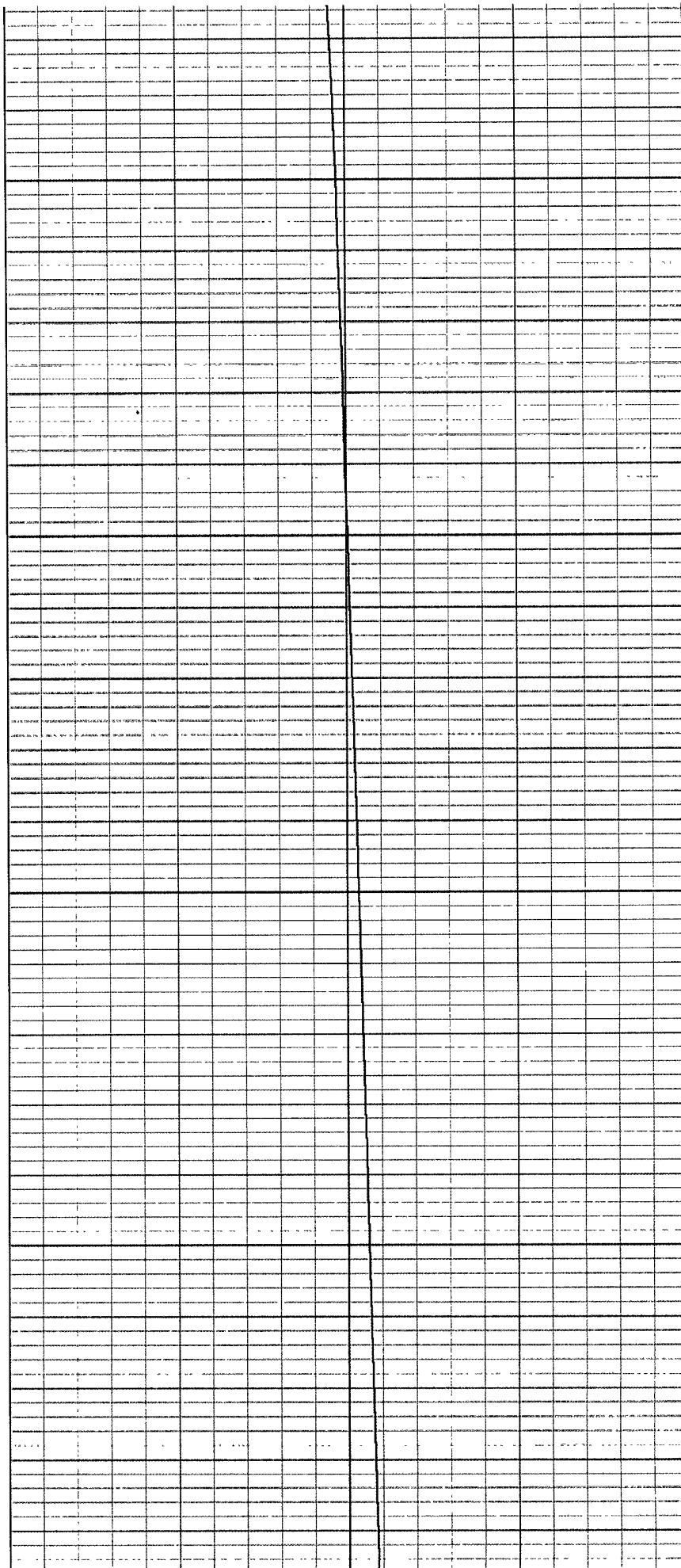
6500

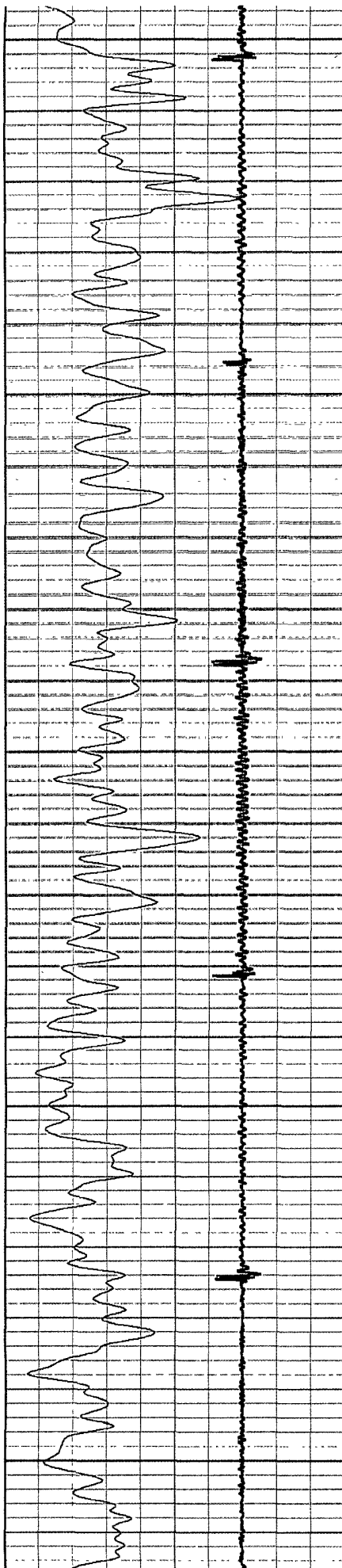
6550

55"  
CASING

6600

PERFS





6650

6700

5 5"  
CASING

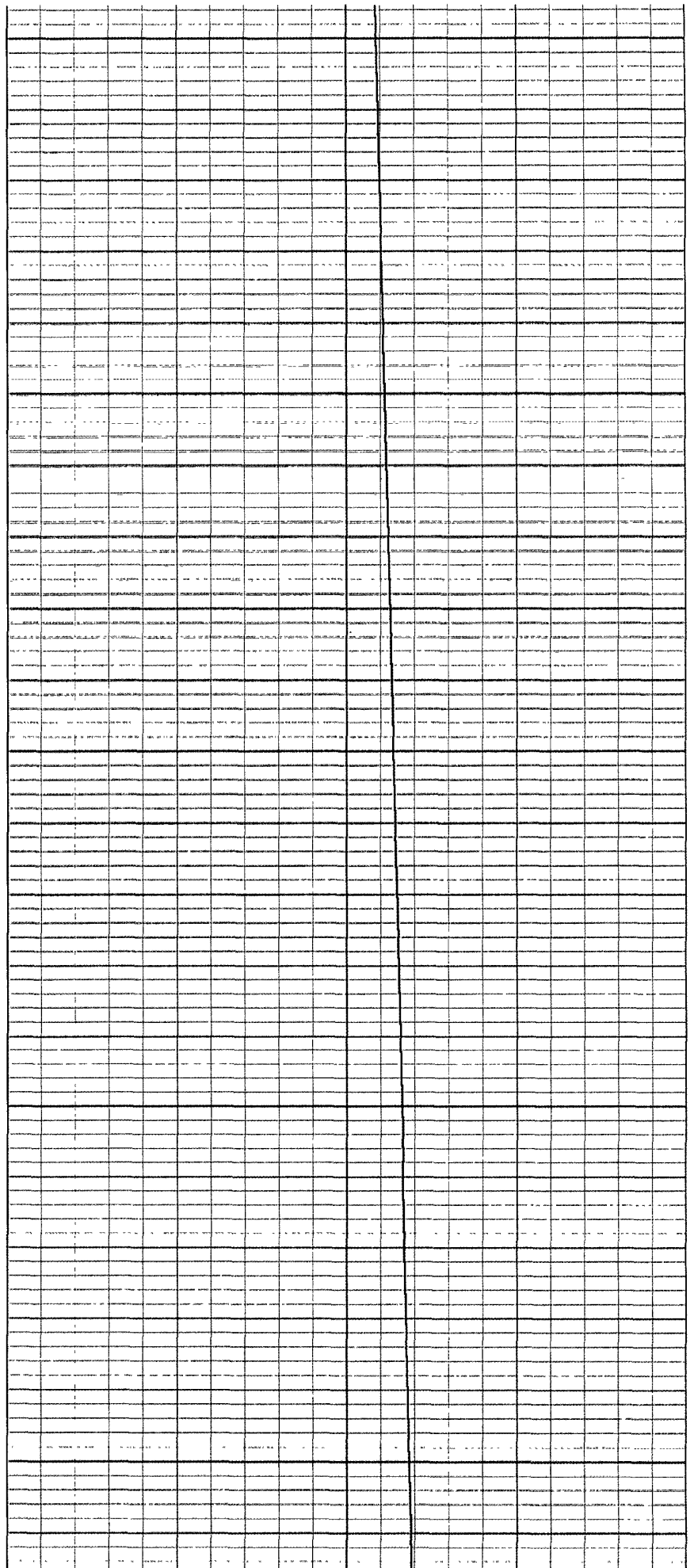
PERFS

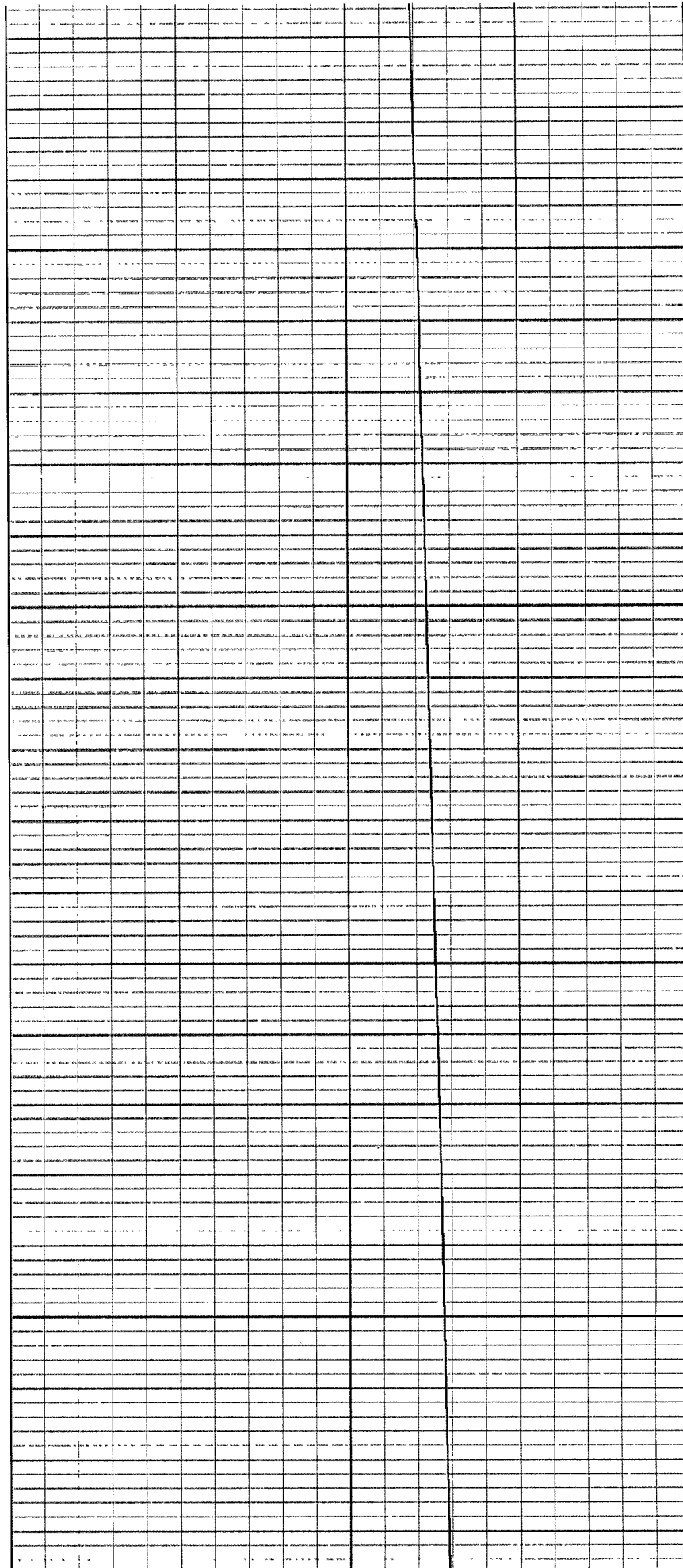
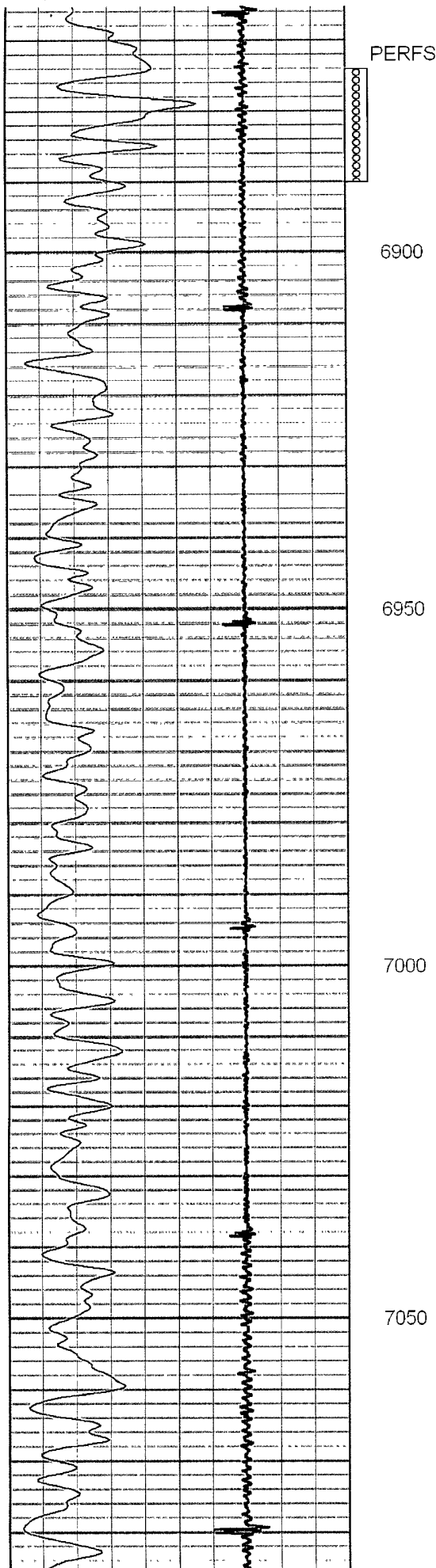
6750

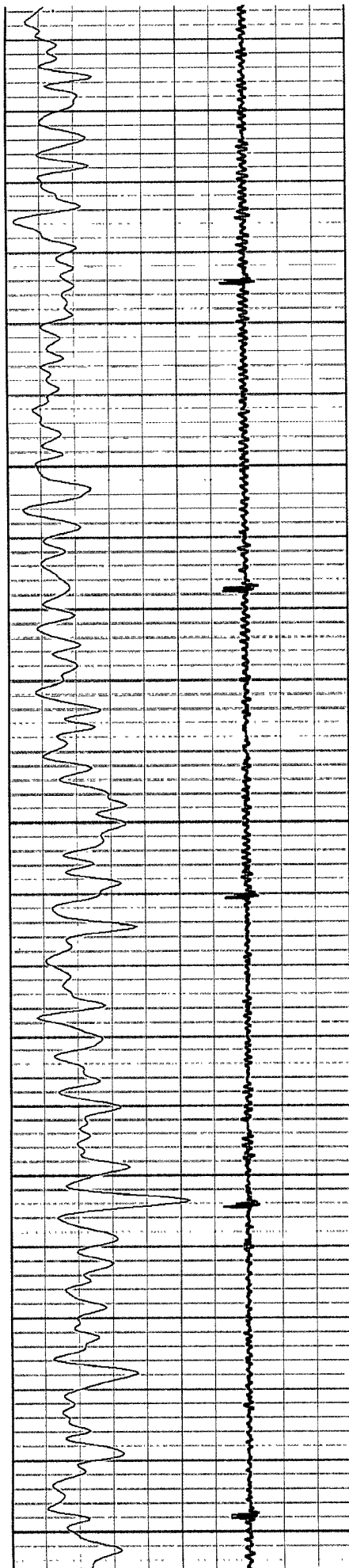
6800

5 5"  
CASING

6850







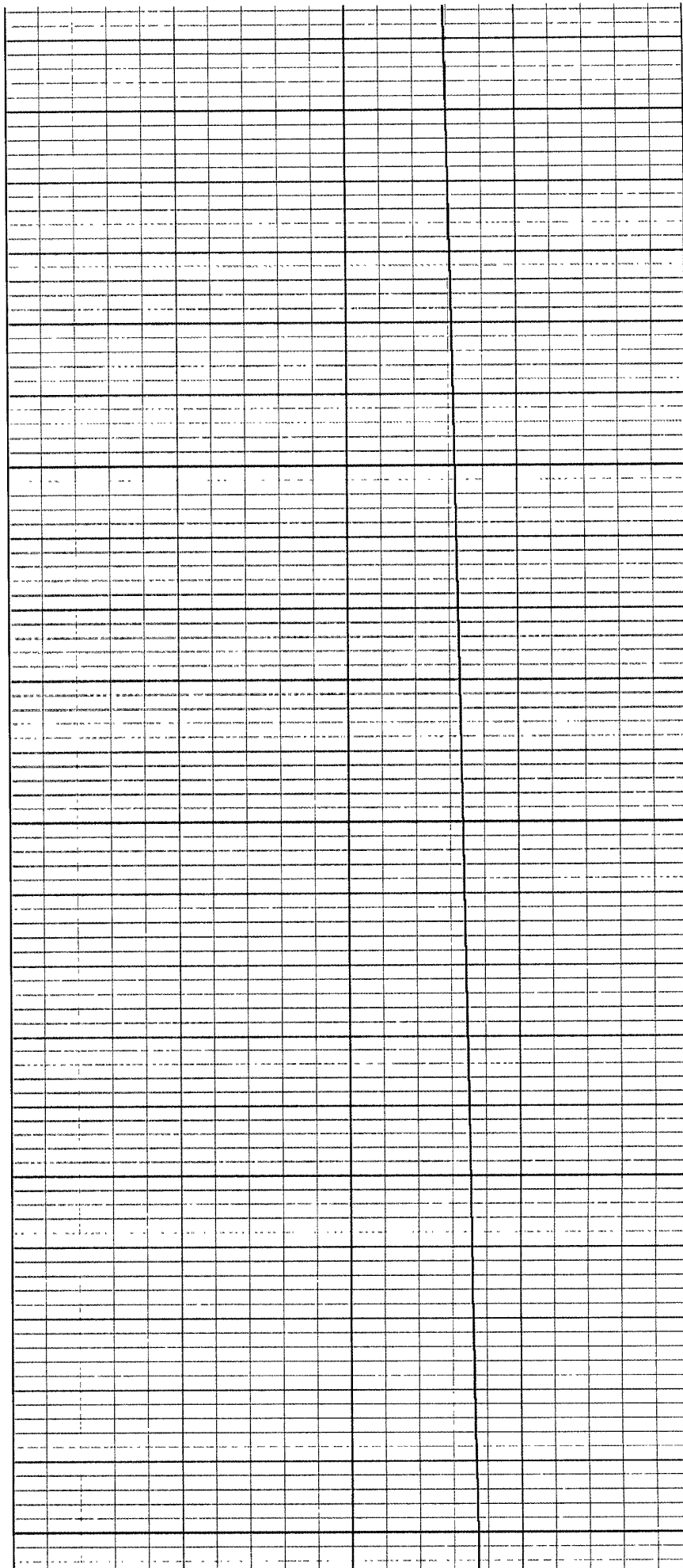
7100

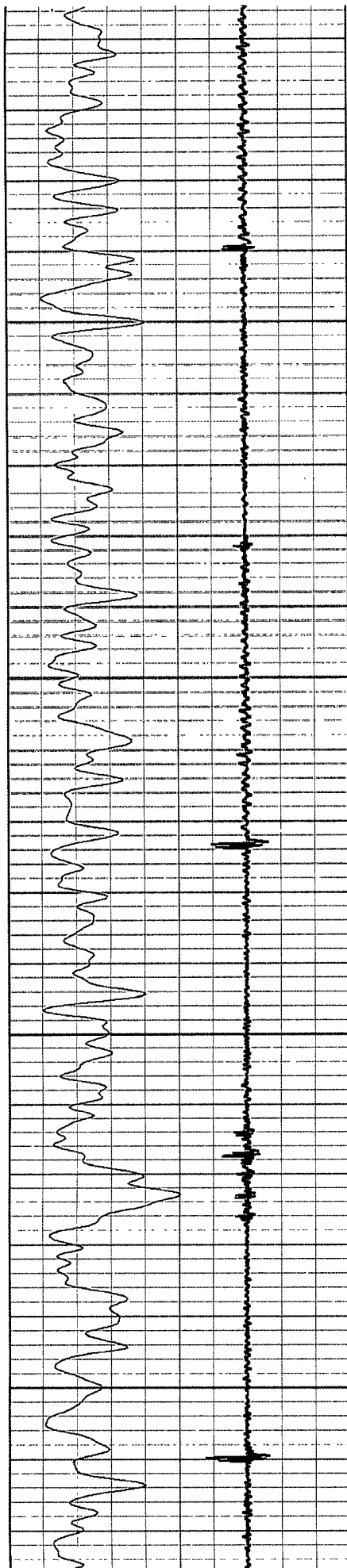
7150

7200

7250

7300





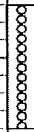
7350

7400

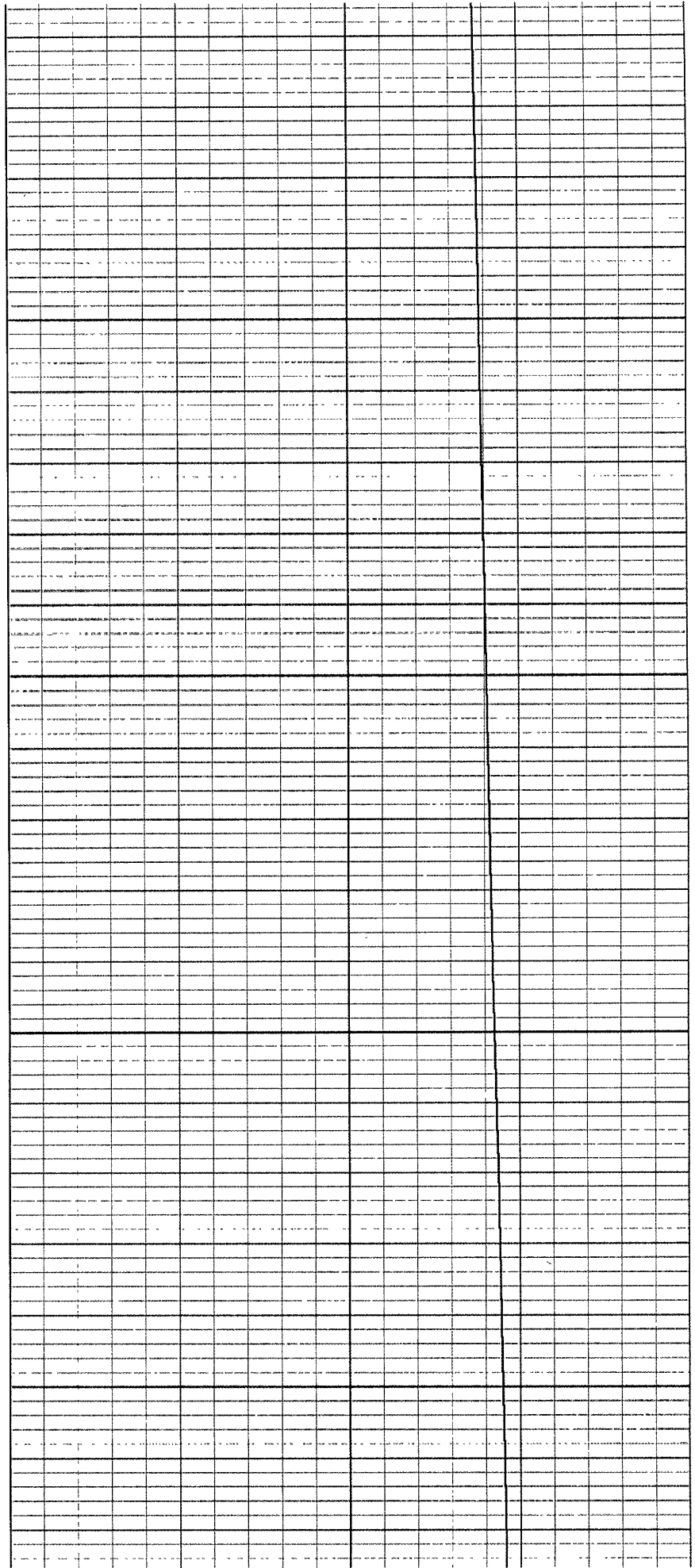
5 5"  
CASING

7450

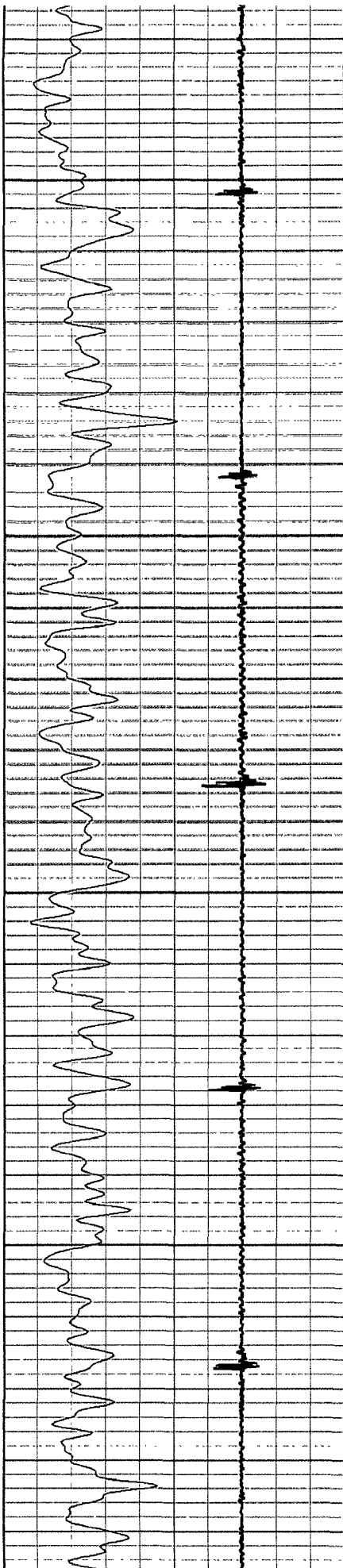
PERFS



7500







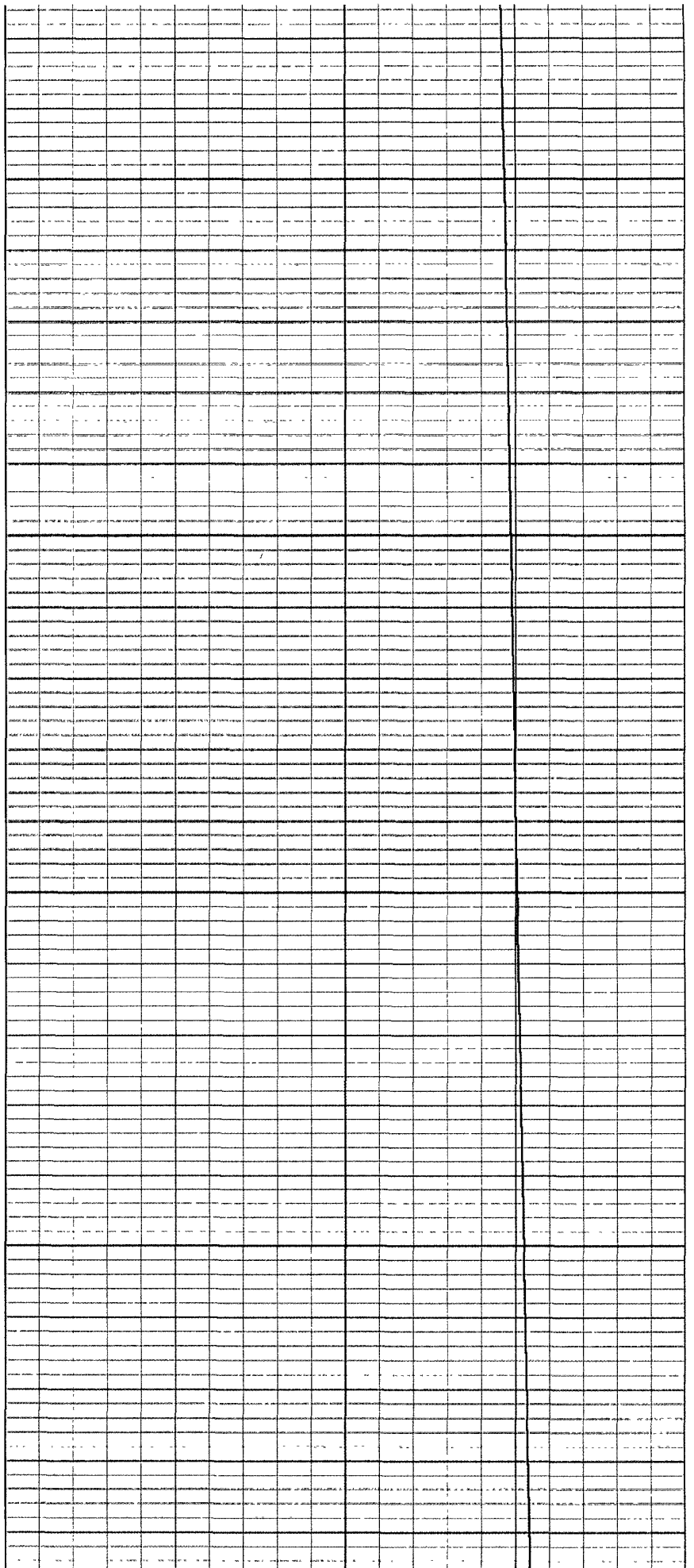
7550

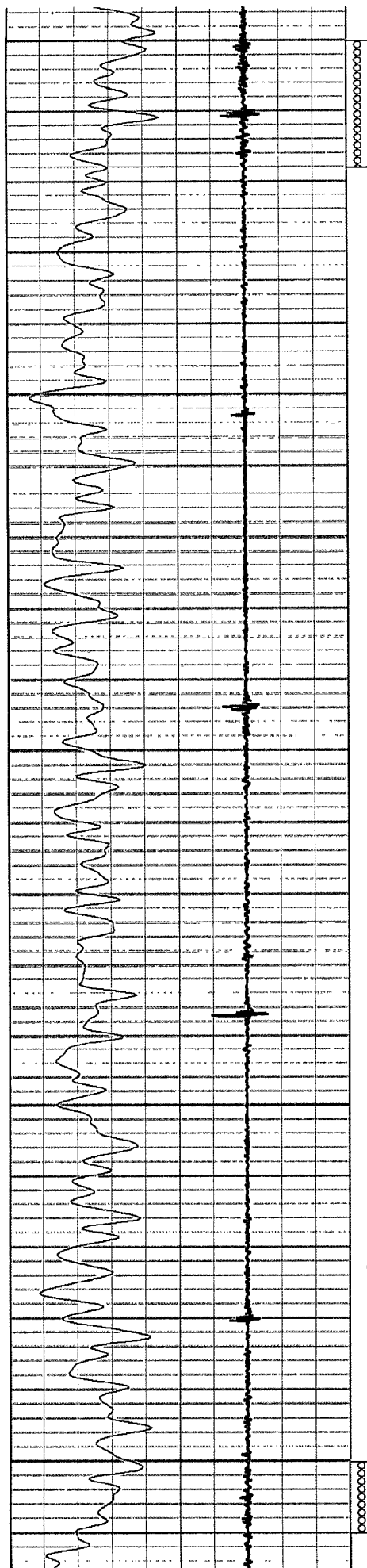
7600

7650

7700

5 5"  
CASING





PERFS  
7750

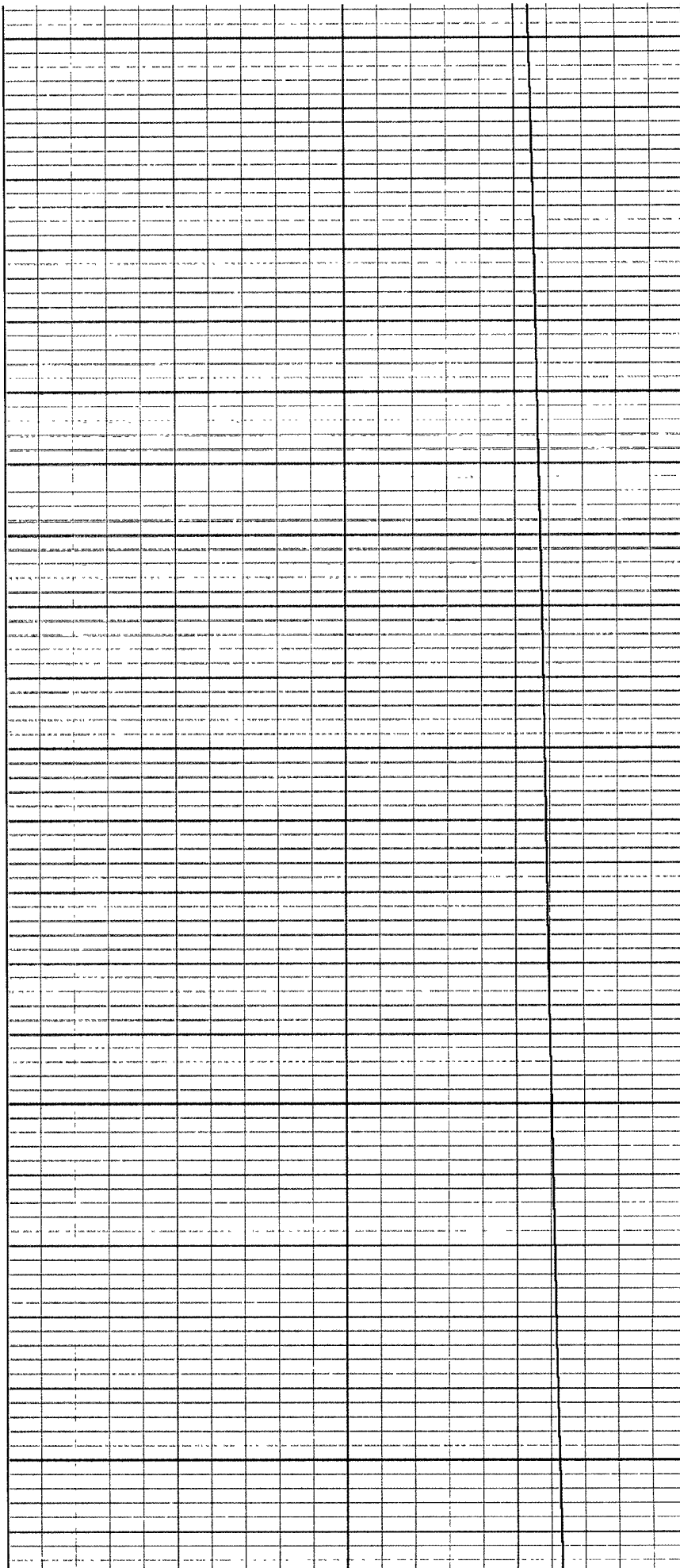
7800

7850

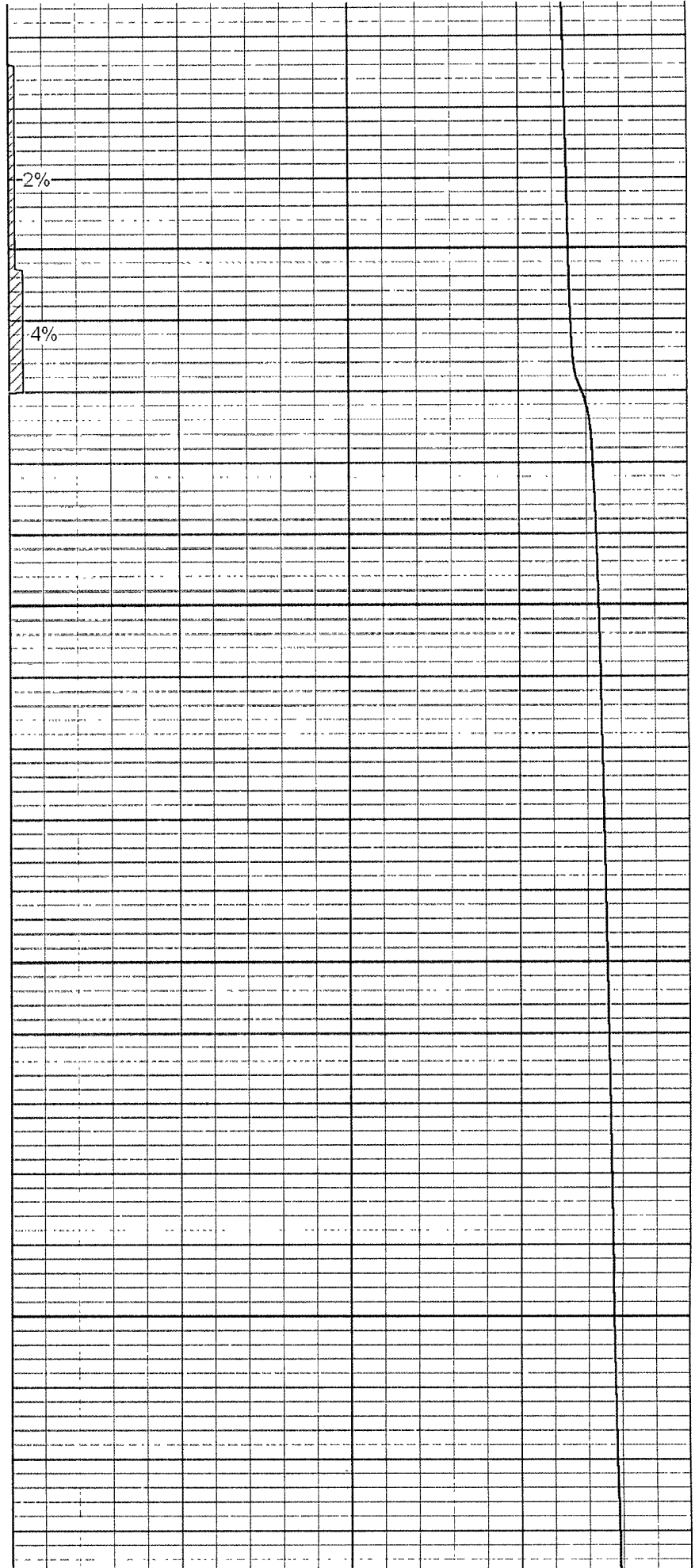
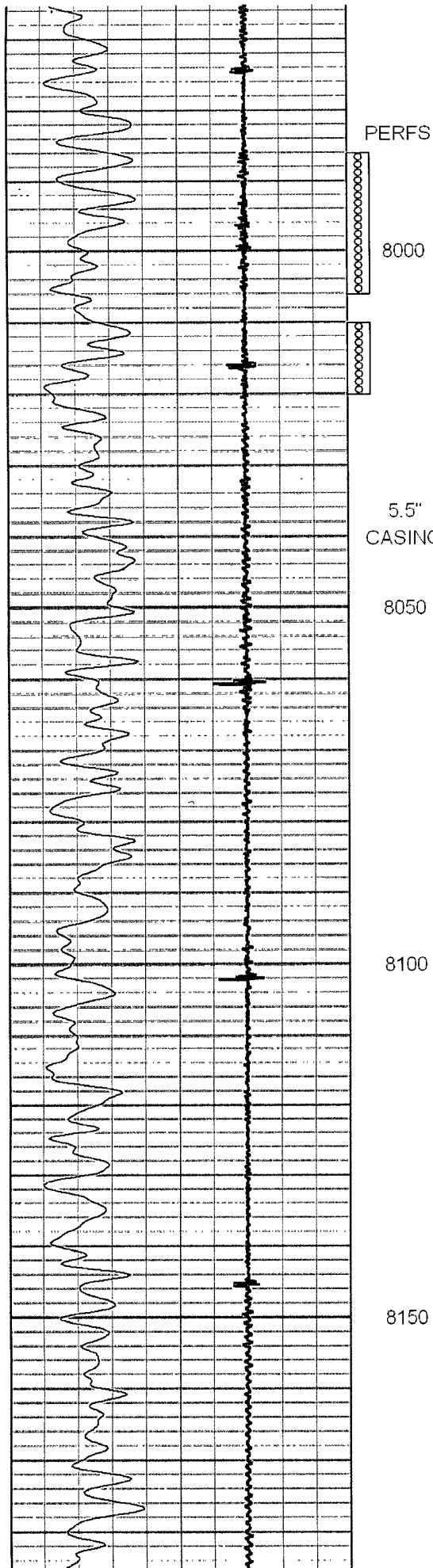
7900

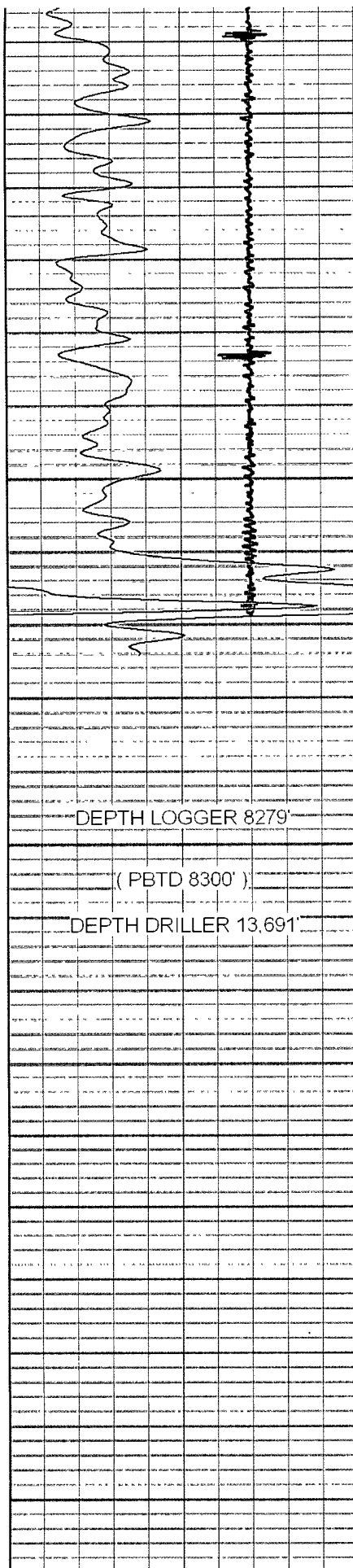
5.5"  
CASING

PERFS  
7950









8200

8250

FILL

8300

8350

8400

DEPTH LOGGER 8279'

( PBT D 8300' )

DEPTH DRILLER 13.691'

-7

CCL

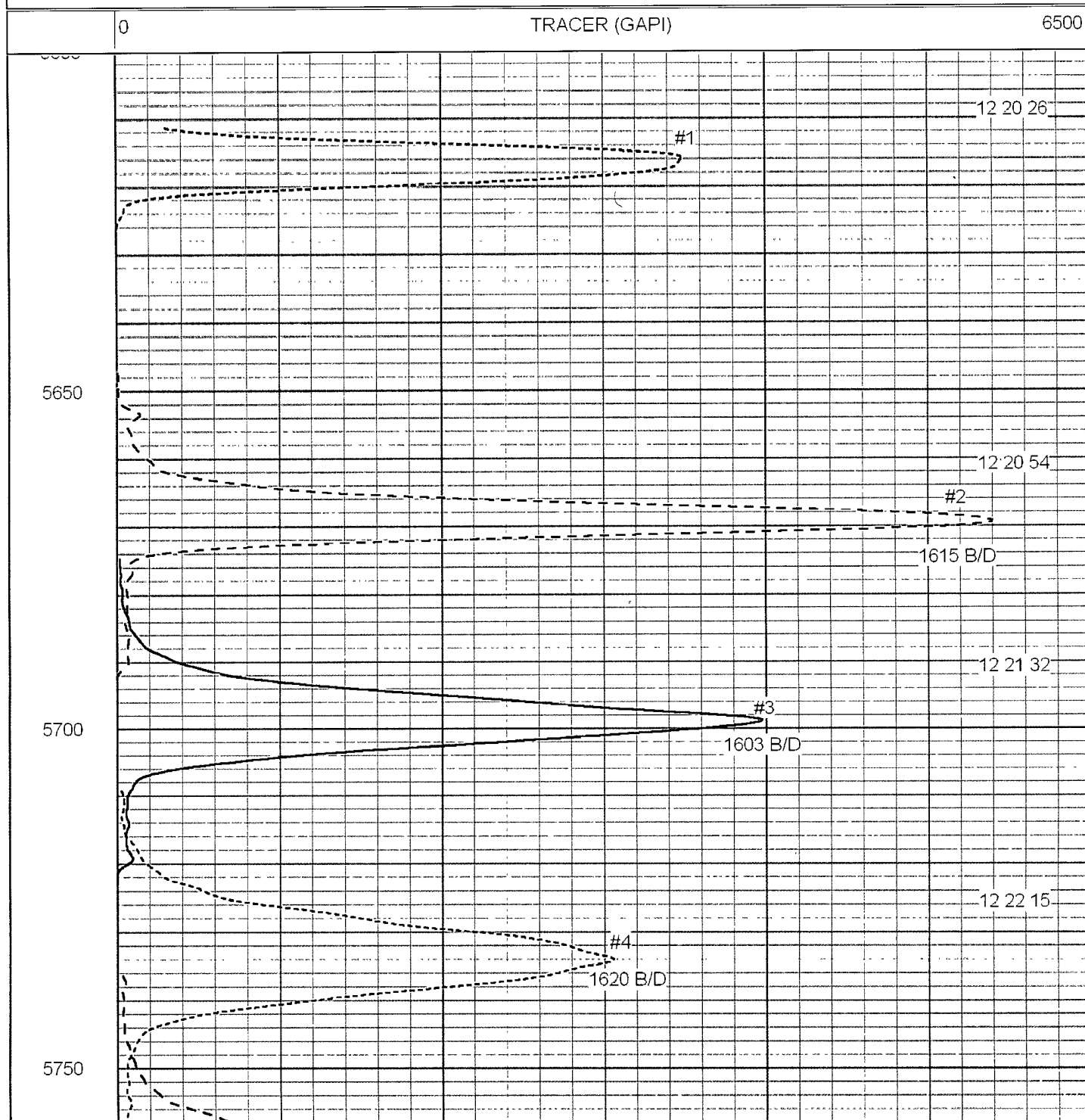
3

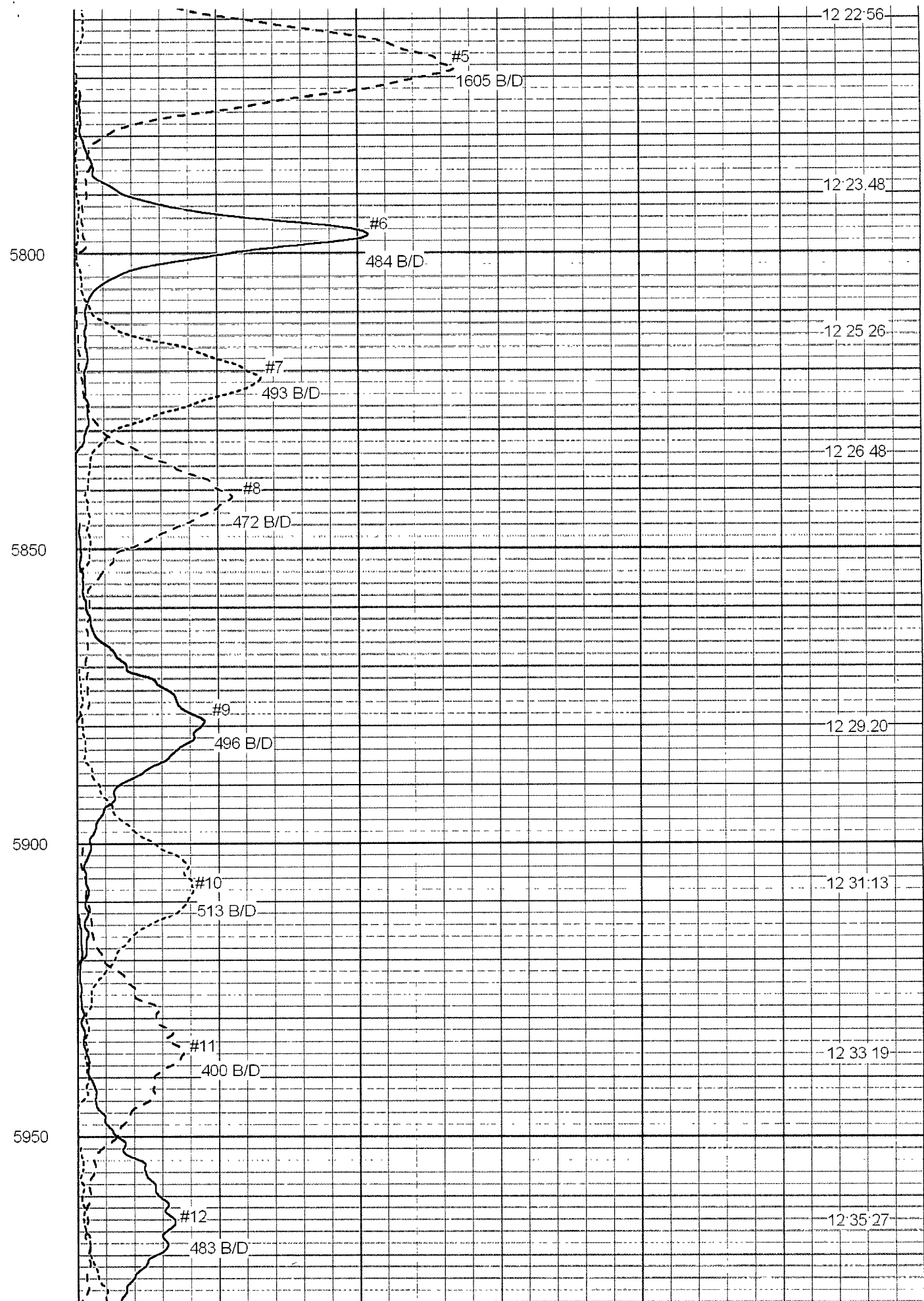
% LOSS VELOCITY OF TRACER



## TRACER

Database File ling1 db  
Dataset Pathname LING/1/TRACER/\_profile2\_  
Presentation Format trcprof  
Dataset Creation Thu Sep 24 13:11:51 2009  
Charted by Depth in Feet scaled 1 240





6000

#13

418 B/D

12 37 46

6050

#14

417 B/D

12 39 56

6100

#15

389 B/D

12 43 45

6150

#16

379 B/D

12 46 39

#17

365 B/D

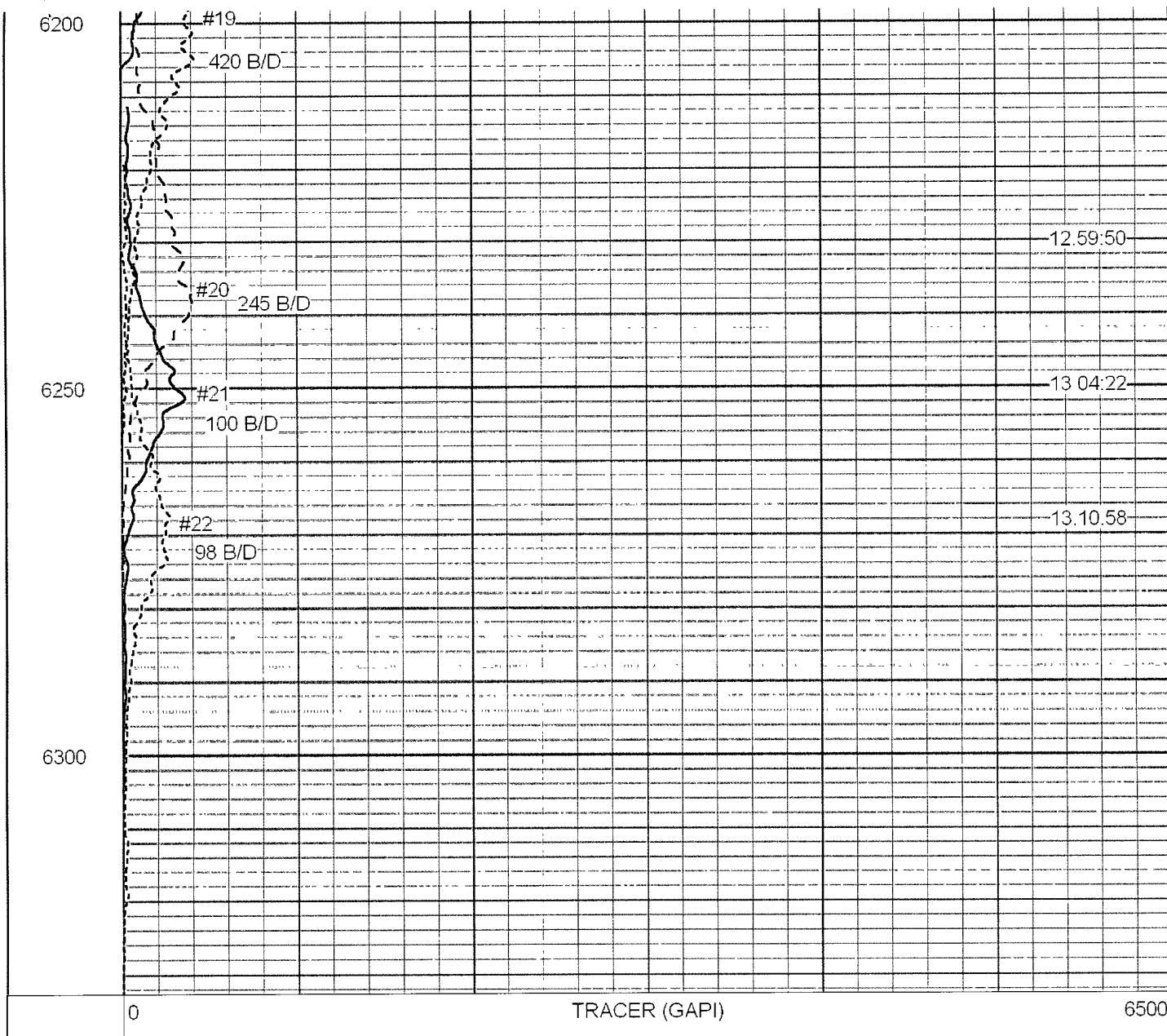
12 49 50

#18

305 B/D

12 52 35

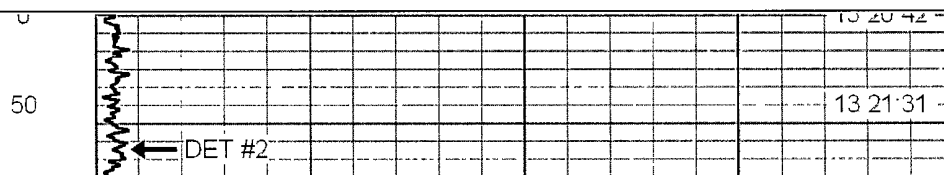
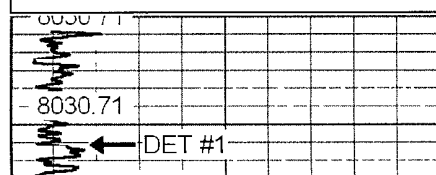
12 55 21

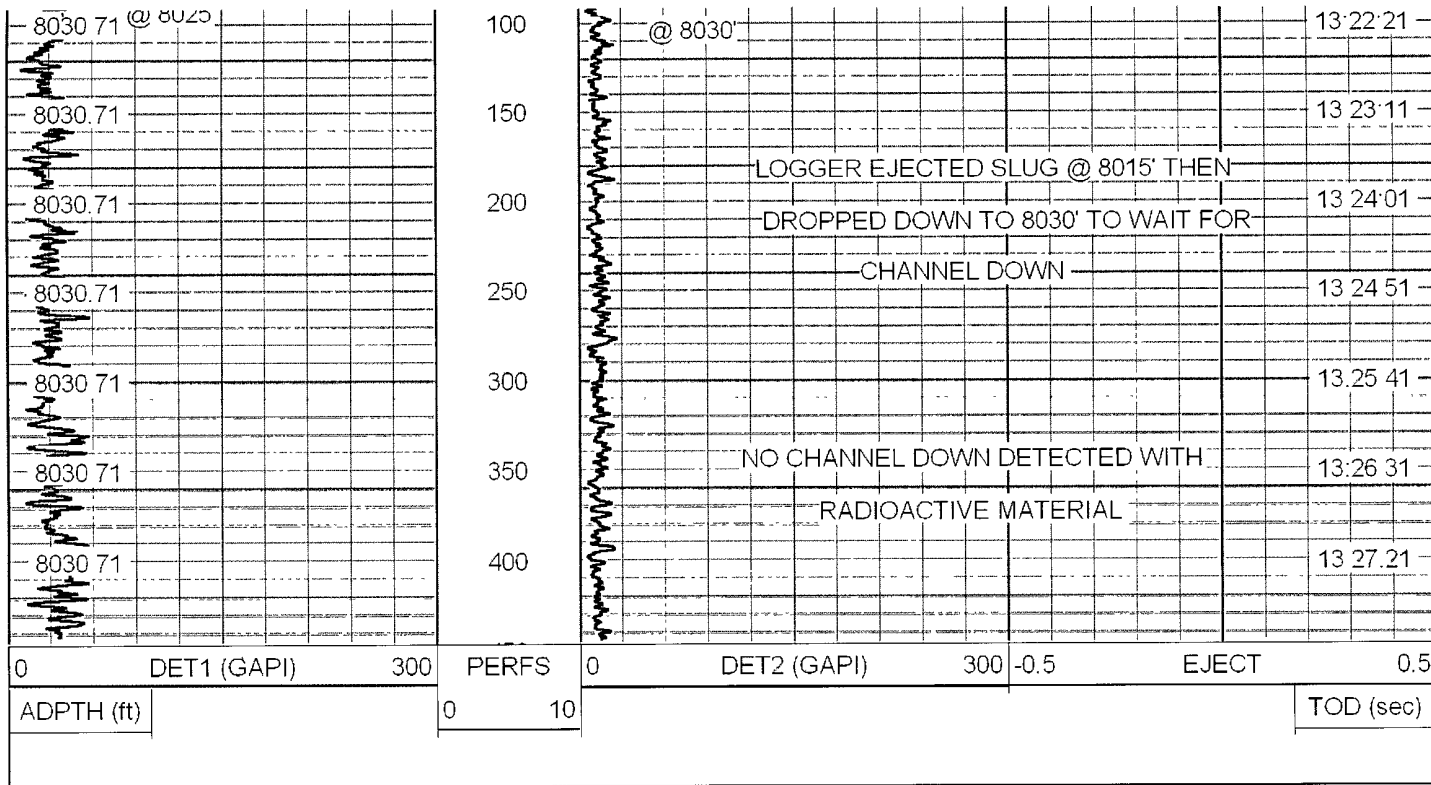


## CHANNEL DOWN CHECK

Database File ling1 db  
 Dataset Pathname: LING/1/CHANDWN/pass1  
 Presentation Format tracer  
 Dataset Creation: Thu Sep 24 13:20:42 2009 by Log Std Casedhole 07122  
 Charted by Time scaled 36"/hour

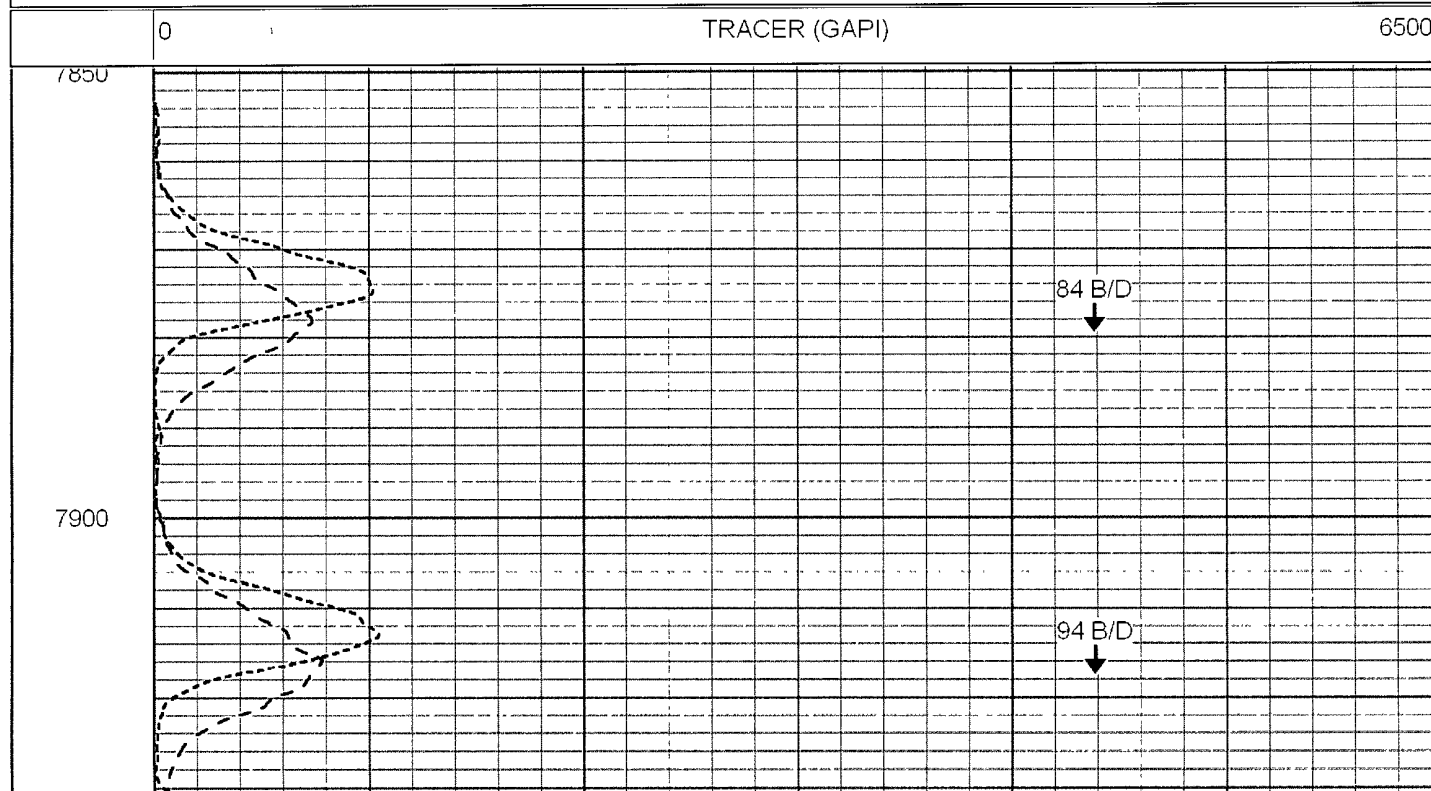
|            |             |     |       |   |             |     |      |       |           |
|------------|-------------|-----|-------|---|-------------|-----|------|-------|-----------|
| 0          | DET1 (GAPI) | 300 | PERFS | 0 | DET2 (GAPI) | 300 | -0.5 | EJECT | 0.5       |
| ADPTH (ft) |             |     | 0 10  |   |             |     |      |       | TOD (sec) |





## EJECTED SLUGS DRAG ON DEPTH

Database File ling1 db  
 Dataset Pathname: LING/1/SLUGS/\_profile3\_  
 Presentation Format troprof  
 Dataset Creation Thu Sep 24 13 47 05 2009  
 Charted by Depth in Feet scaled 1 240





7950

94 B/D



13 43.24

13.46 09

92 B/D



8000

68 B/D



← NOFLOW

13 38.18

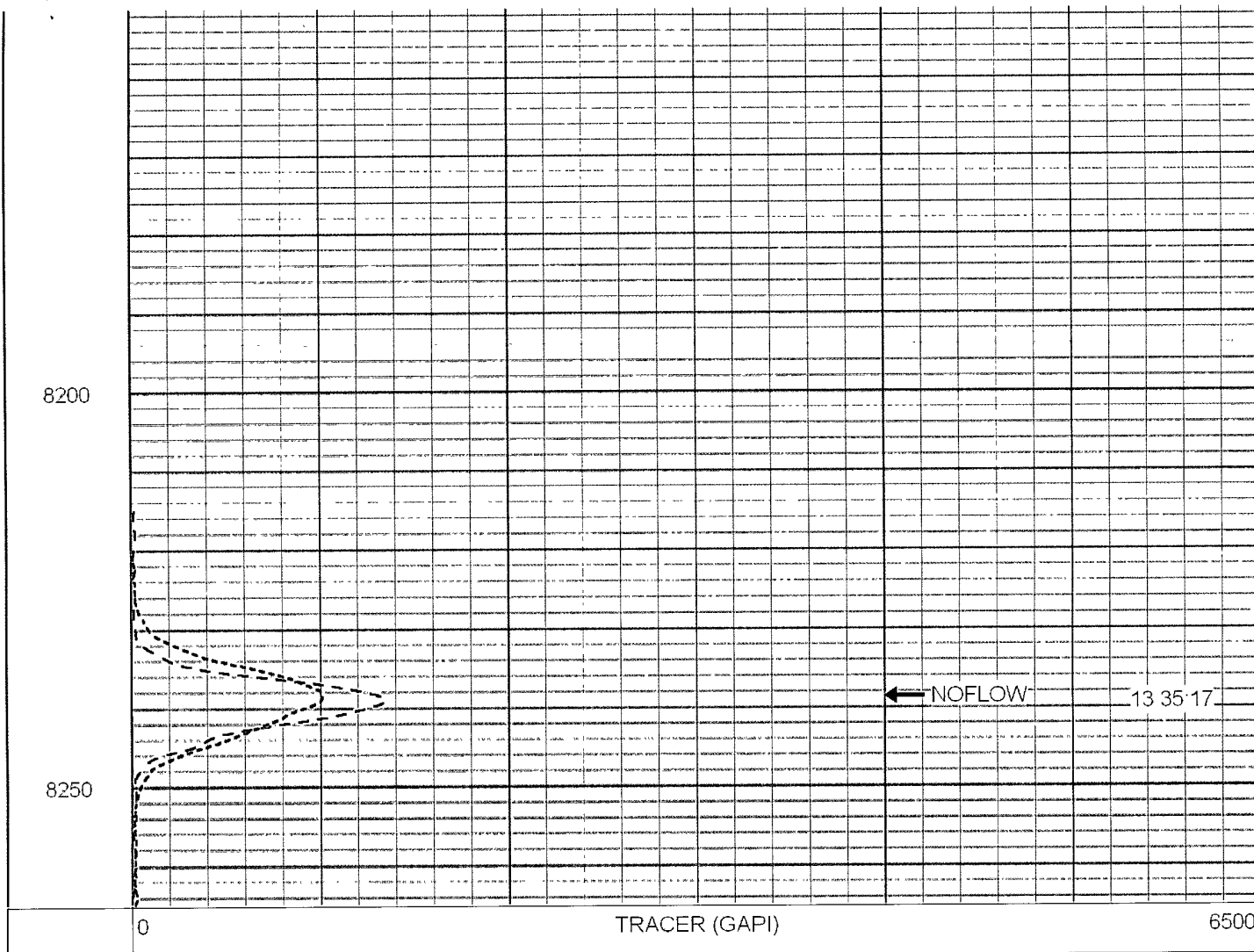
8050

← NOFLOW

13 36 00

8100

8150



## CHANNEL UP CHECK

Database File ling1.db  
 Dataset Pathname LING/1/CHANUP/pass1  
 Presentation Format tracer  
 Dataset Creation Thu Sep 24 13 59 40 2009 by Log Std Casedhole 07122  
 Charted by Time scaled 36"/hour

|            |             |     |       |   |             |     |      |       |           |
|------------|-------------|-----|-------|---|-------------|-----|------|-------|-----------|
| 0          | DET1 (GAPI) | 300 | PERFS | 0 | DET2 (GAPI) | 300 | -0.5 | EJECT | 0.5       |
| ADPTH (ft) |             | 0   | 10    |   |             |     |      |       | TOD (sec) |

