

# PHOTON LOG

## GRAVEL PACK SURVEY

FILE NO. \_\_\_\_\_  
COMPANY OREGON NATURAL GAS CORP

WELL IU 33 C-3  
FIELD HIST  
COUNTY COLUMBIA STATE OR.

5" = 100'  
LOCATION: TWP 34N R3E S4  
100' SE CORNER OF SECTION 3

PERMITS: \_\_\_\_\_  
ELEV. 1027.1'  
LOC. MEAS. FROM KB 13.5' FT. ABOVE P.D.  
DRILLING MEAS. FROM KB OF 1027.1'

DATE 1/15/87  
SERIES ORDER 22821  
DEPTH-KILLER 2824  
DEPTH-LOGGERS 2824  
BOTTOM LOGGED INTERVAL 2824

TOP LOGGED INTERVAL 2824  
LOG NUMBER 12488  
SHAFT DIA. 8.0  
LENGTH LOGGED 8.0

LOG REC. TEMP. DEG. F 148  
LOG REC. TIME 8:44:41  
EQUIP. NO. / LOG. 84404

RECORDED BY HR. THOMAS  
WITNESSED BY \_\_\_\_\_

NO. BIT FROM TO  
15" 2519 2488

IN MAKING INTERPRETATIONS OF LOSS OUR EMPLOYEES WILL GIVE CUSTOMER THE BEST FIT OF THEIR BEST JUDGMENT, BUT SINCE ALL INTERPRETATIONS ARE BASED ON INFORMATION PROVIDED BY CUSTOMER, WE DO NOT GUARANTEE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE FOR DAMAGES OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

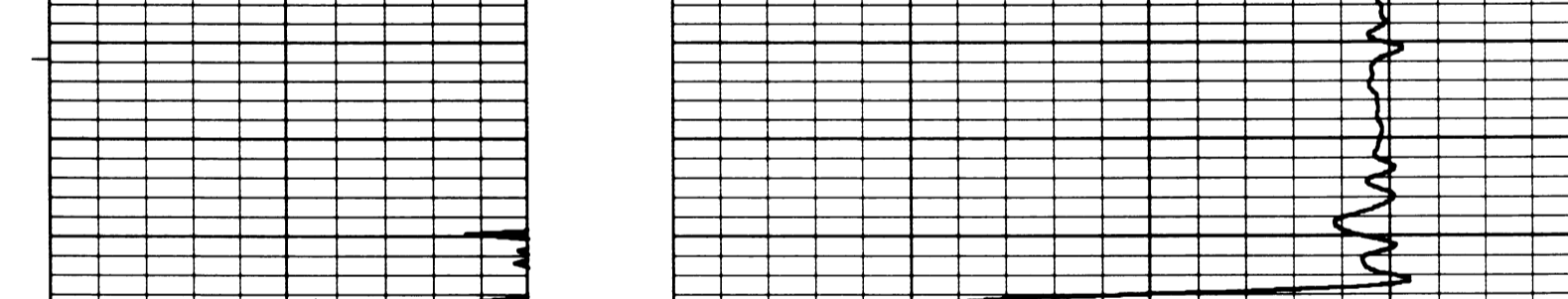
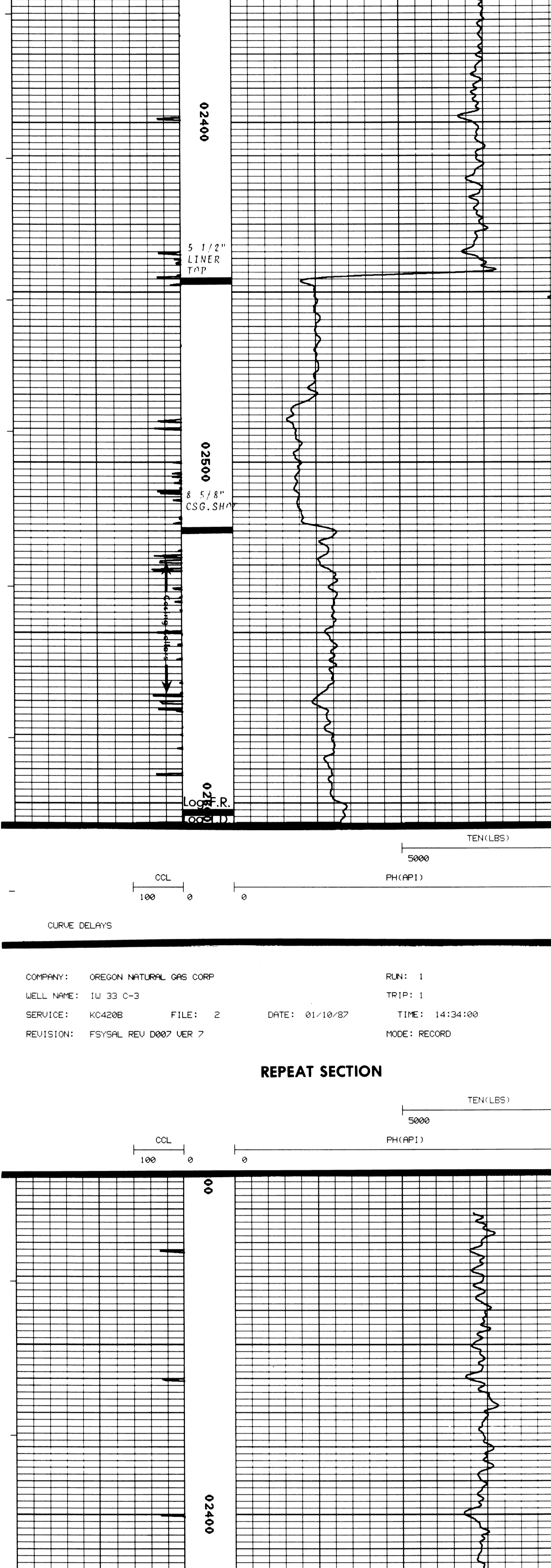
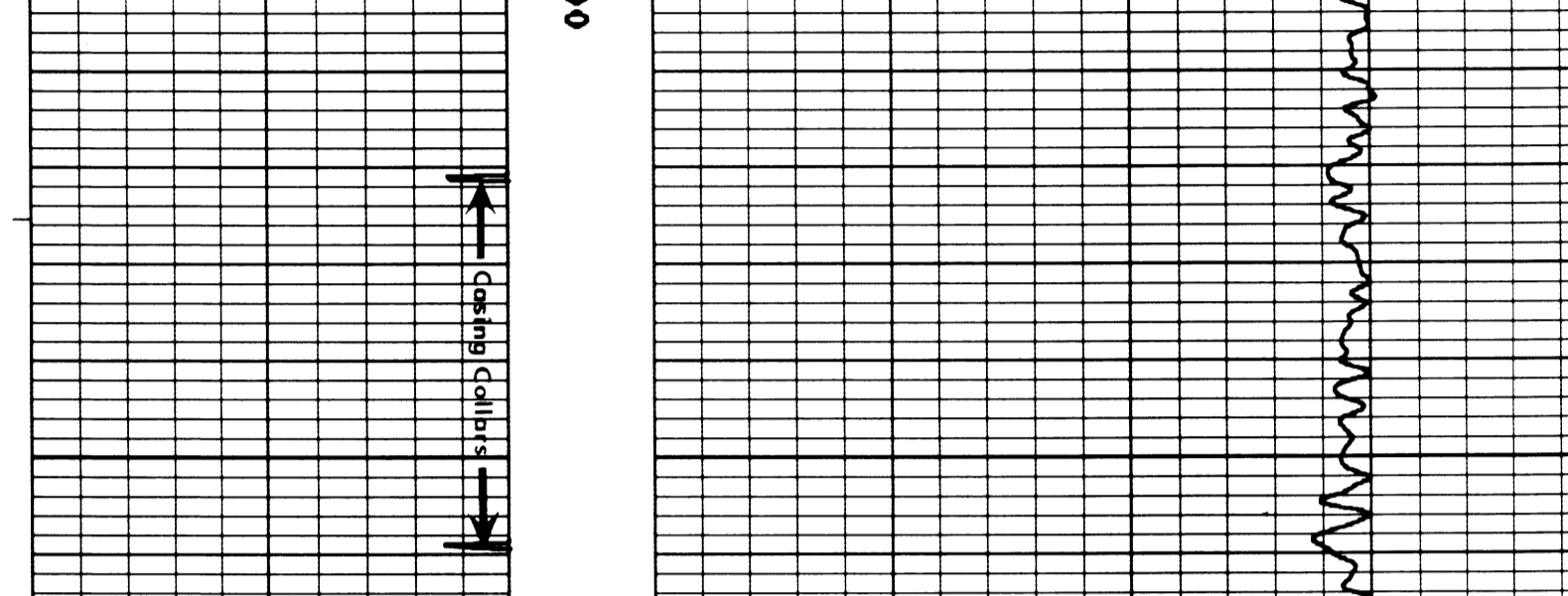
| RUN | TRIP | TOOL | SERIAL NO. | SERIES NO. | POSITION |
|-----|------|------|------------|------------|----------|
| 1   | 1    | PH   | 47515      | 1305       | CENT     |
| 1   | 1    | CCL  | 35189      | 2318       | CENT     |

REMARKS RUN ( 1 )

| RUN | TRIP | TOOL | SERIAL NO. | SERIES NO. | POSITION |
|-----|------|------|------------|------------|----------|
| 1   | 1    | PH   | 47515      | 1305       | CENT     |
| 1   | 1    | CCL  | 35189      | 2318       | CENT     |

COMPANY: OREGON NATURAL GAS CORP  
WELL NAME: IU 33 C-3  
SERVICE: KC4208 FILE: 3 DATE: 01/10/87  
REVISION: FSYSL REV D007 VER 7

RUN: 1  
TRIP: 1  
TIME: 14:46:49  
MODE: RECORD

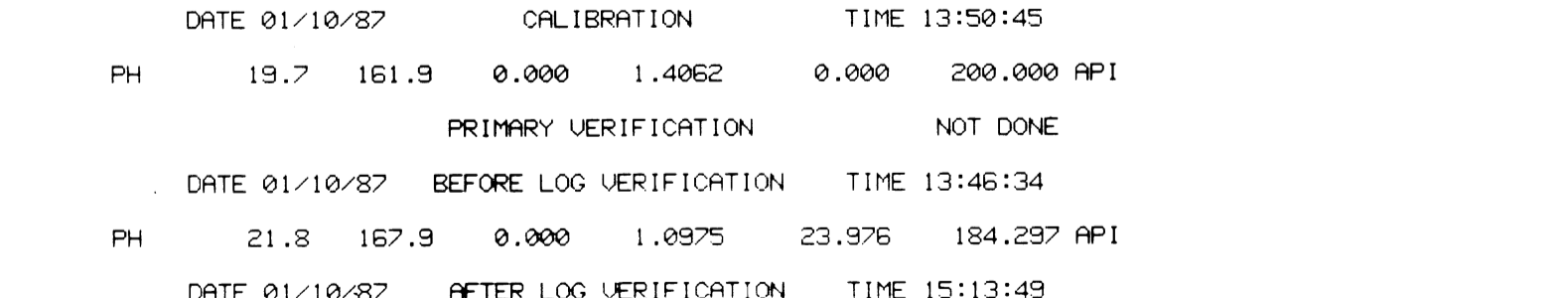
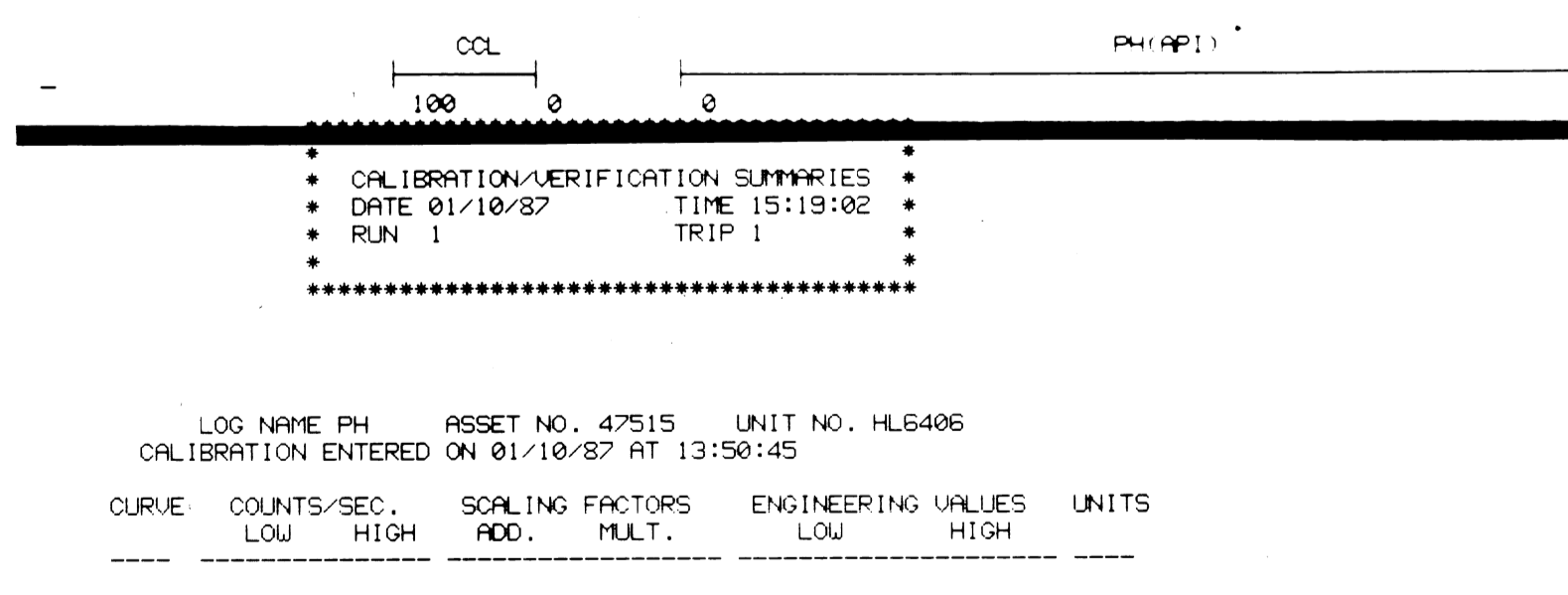
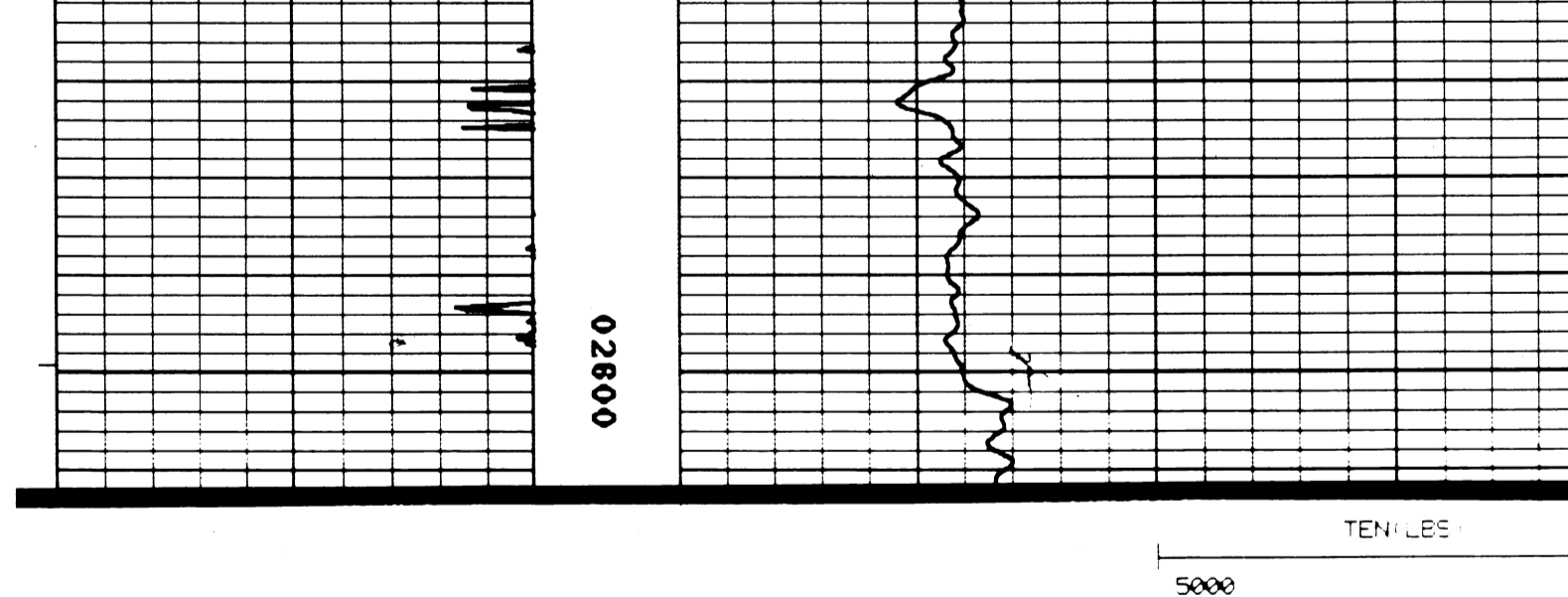


CURVE DELAYS

COMPANY: OREGON NATURAL GAS CORP  
WELL NAME: IU 33 C-3  
SERVICE: KC4208 FILE: 2 DATE: 01/10/87  
REVISION: FSYSL REV D007 VER 7

RUN: 1  
TRIP: 1  
TIME: 14:34:00  
MODE: RECORD

### REPEAT SECTION



- CALIBRATION/VERIFICATION SUMMARIES
- DATE 01/10/87 TIME 15:18:02
- RUN 1 TRIP 1

LOG NAME PH ASSET NO. 47515 UNIT NO. HL6406  
CALIBRATION ENTERED ON 01/10/87 AT 13:58:45

| CURVE | COUNTS/SEC. | LOW   | HIGH  | SCALING FACTORS | ADD.  | MULT.   | ENGINEERING VALUES | LOW | HIGH | UNITS |
|-------|-------------|-------|-------|-----------------|-------|---------|--------------------|-----|------|-------|
| PH    | 19.7        | 161.9 | 0.000 | 1.4062          | 0.000 | 200.000 | API                |     |      |       |

DATE 01/10/87 CALIBRATION TIME 13:50:45  
PRIMARY VERIFICATION NOT DONE

DATE 01/10/87 BEFORE LOG VERIFICATION TIME 13:46:34  
PH 21.8 167.9 0.000 1.0975 23.976 184.297 API

DATE 01/10/87 AFTER LOG VERIFICATION TIME 15:13:49  
PH 21.4 159.6 0.000 1.4062 30.070 224.446 API

