ATLAS WIRELINE SERVICES

ACOUSTIC CEMENT BOND LOG

VDL NEUTRON

FILE NO.

API NO.

5" = 100'

COMPANY OREGON NATURAL GAS CORP

WELL IW 33D-3

FIELD MIST

COUNTY COLUMBIA STATE OREGON

LOCATION:
1013' S & 1653' W OF
THE E 1/4 CORNER OF

SEC3 TWP6N RGE5W

OTHER SERVICES
NONE

PERMANENT DATUM GL ELEV. 1078.3
LOGGING MEASURED FROM KB 11.4' FT. ABOVE P.D.
DRILLING MEASURED FROM KB

ELEVATIONS
KB 1089.7'
DF
GL 1078.3'

DATE	6/10/88	
RUN	1	
SERVICE ORDER	158837	
DEPTH-DRILLER	2635	
DEPTH-LOGGER	2627'	
BOTTOM LOGGED INTERVAL	2620'	
TOP LOGGED INTERVAL	100'	
TYPE FLUID IN HOLE	GEL/DRISPAC	
SALINITY PPM CL.	--	
DENSITY LB/GAL.	9.8	
LEVEL	FULL	
MAX. REC. TEMP. DEG. F	105	
OPR. RIG TIME	2 HRS	
EQUIP. NO. / LOC.	HL 6406 | SAC	
RECORDED BY	B. WELCH	
WITNESSED BY	MR. THOMAS	

BOREHOLE RECORD

NO.	BIT	FROM	TO

FOLD HERE

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASURMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

Western Atlas International
A Litton/Dresser Company

ATLAS WIRELINE SERVICES

CASING RECORD

SIZE	WGT	FROM	TO
13 3/8"		SURF	566'
8 5/8"	32	SURF	2635'

REMARKS RUN (1)

NEUTRON ABOVE 1200' QUESTIONABLE WHEN NEUTRON SHIFTS TOWARD DEPTH TRACK.

EQUIPMENT DATA

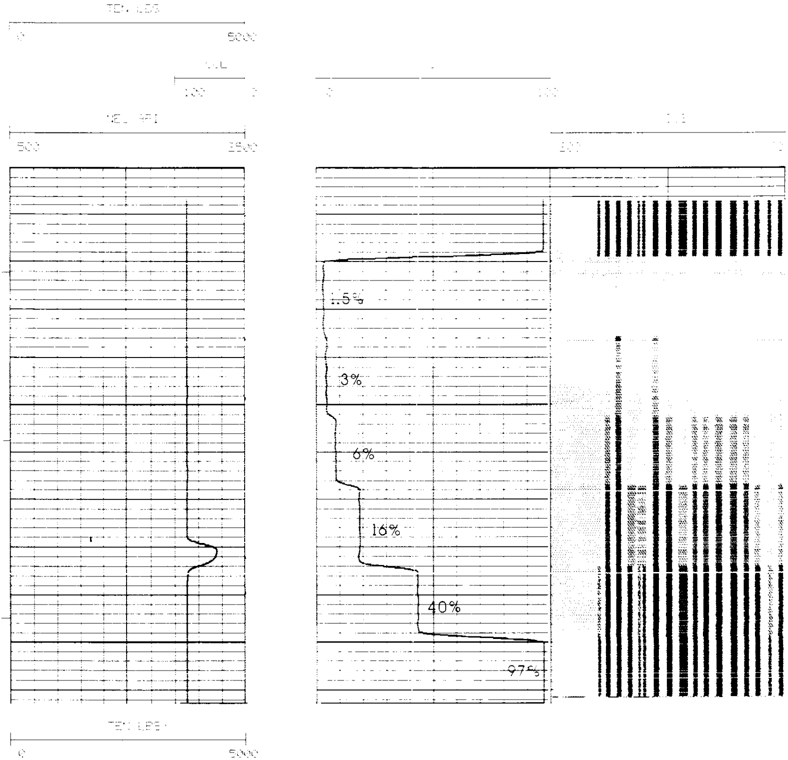
RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	CBL	72822	1417	CENT
1	1	NEU	74448	2404	CENT
1	1	CCL		2318	

COMPANY: [illegible] NATURAL GAS [illegible] RUN: 1

WELL NAME: [illegible] TRIP: 1

SERVICE: [illegible] FILE: 2 DATE: [illegible] TIME: 19:39:48

POSITION: [illegible] MODE: RECORD



```
                 CCL                              CBL
               100    0                        0                          100

          NEU(API)
  800                     1500                                                      200
```

```
     CURVE DELAYS

CURVE    DELAY  UNITS
-----    -----  -----

 NEU      19.6  FT,IN
 CCL      15.0  FT,IN
 SRT         0  FT,IN
 MICS        0  FT,IN
 CBL         0  FT,IN
```

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                PARAMETERS

              *** NONE ***
          DISPLAY SCALE CHANGES

              *** NONE ***
```

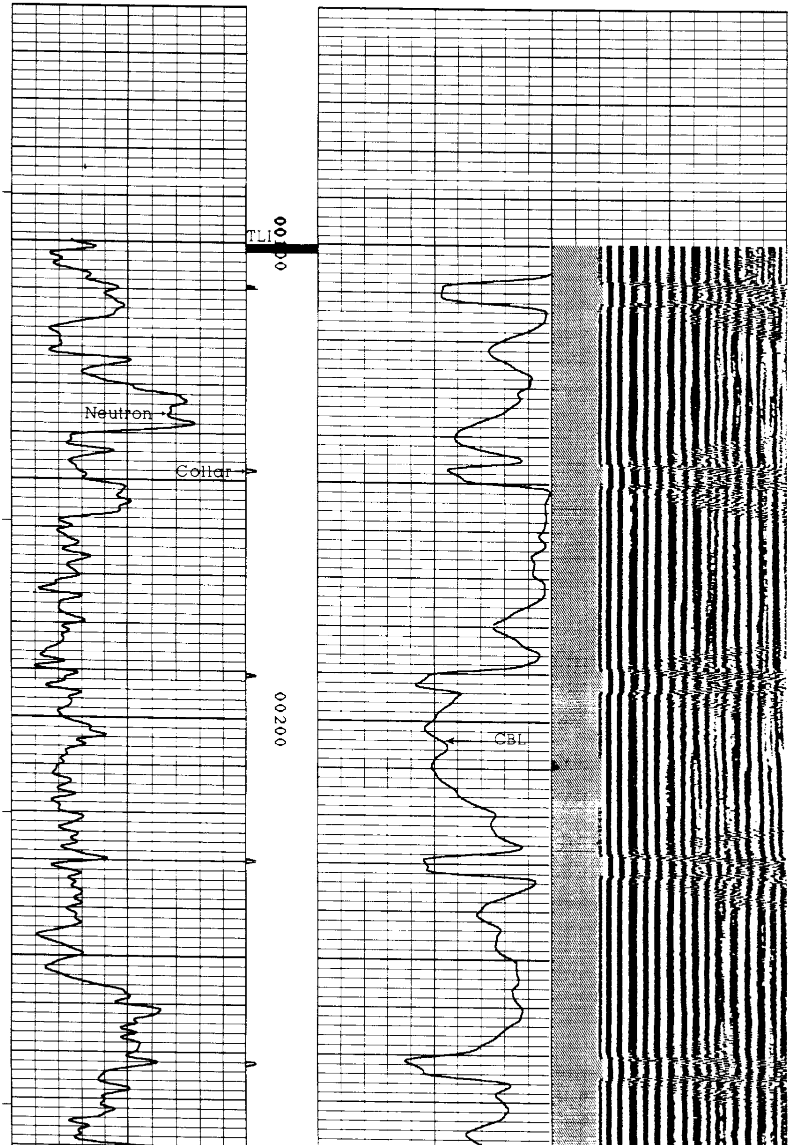
```
COMPANY :    OREGON NATURAL GAS CORP                                   RUN:  1

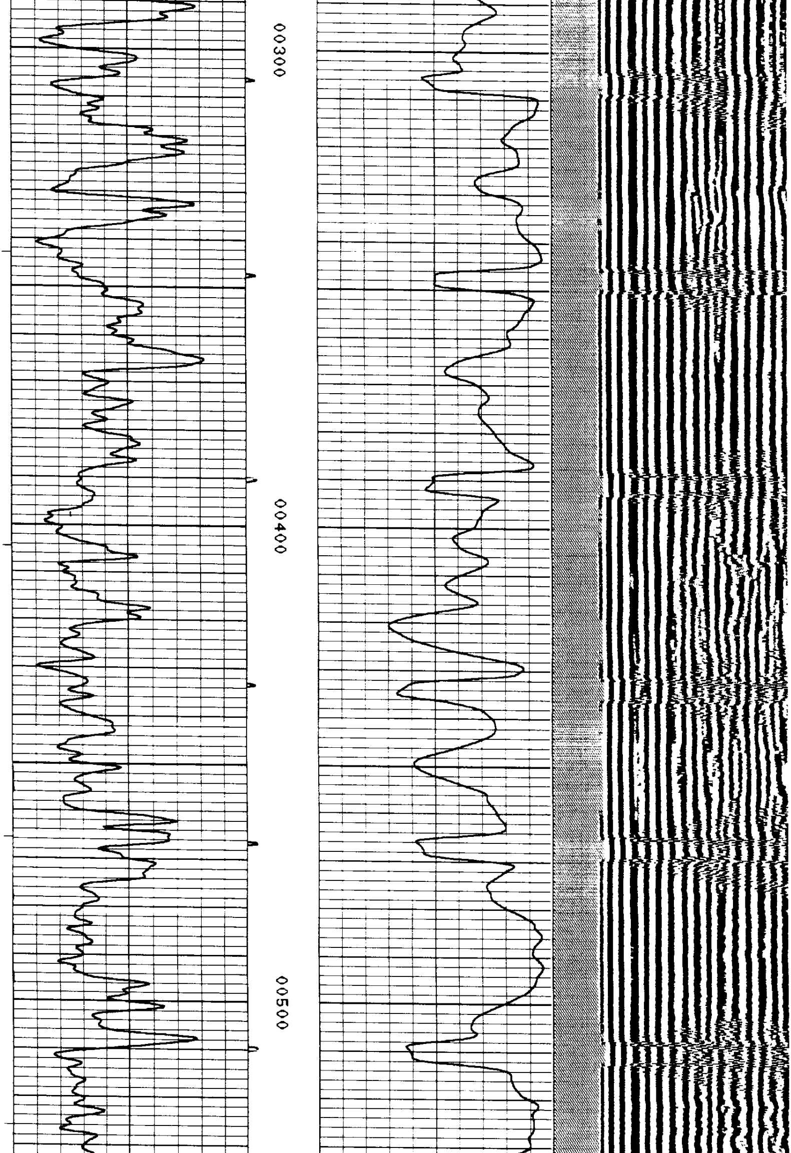
WELL NAME:   IW 33D-3                                                  TRIP: 1

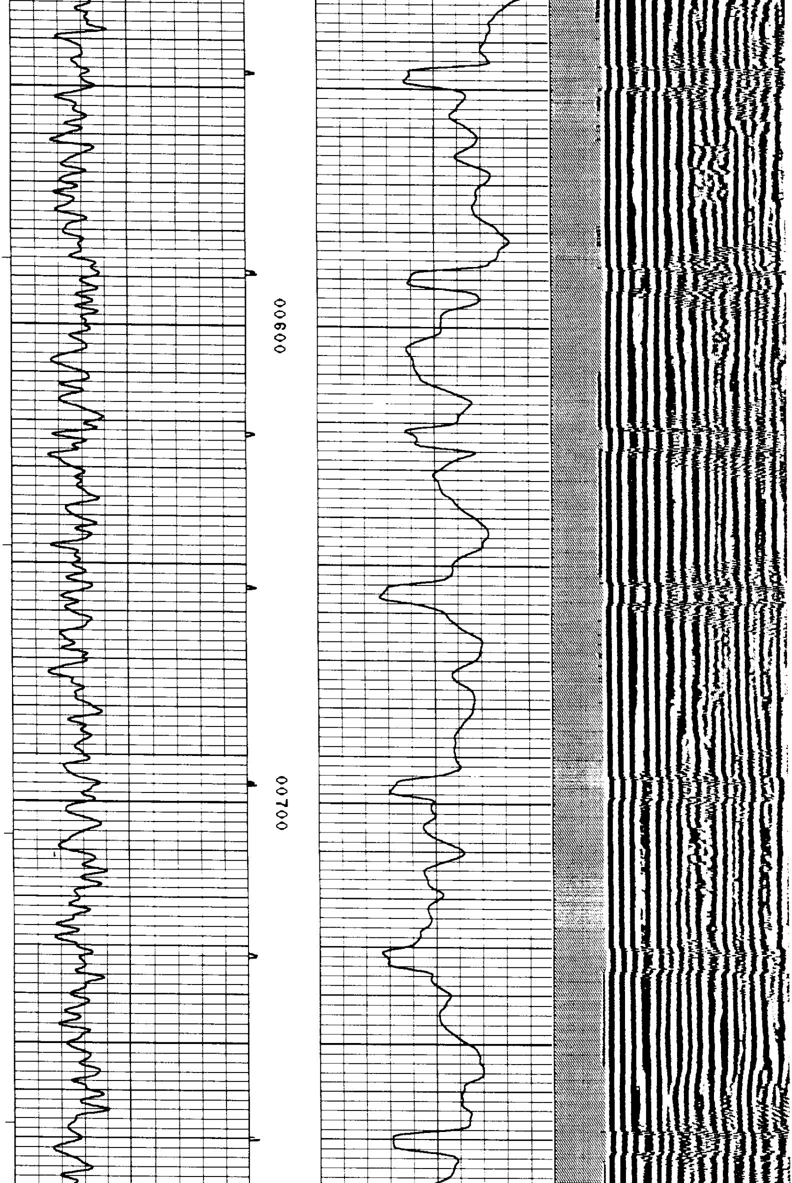
SERVICE:     KC342M          FILE:   7          DATE:  06/10/88         TIME:  20:28:55

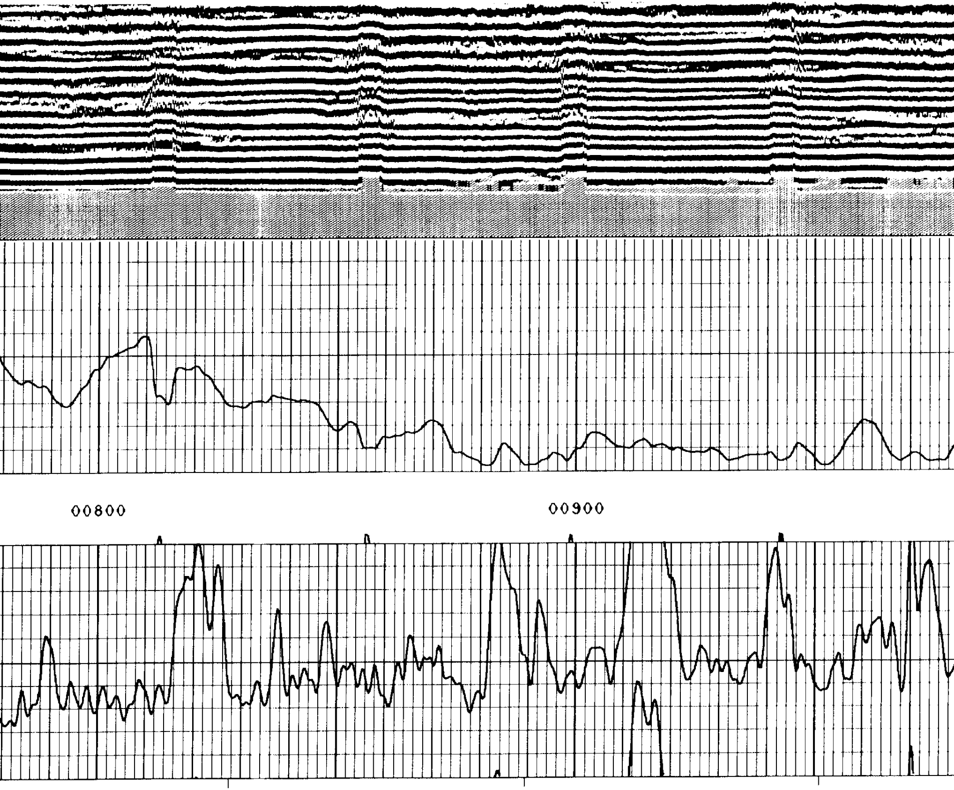
REVISION:    FSYSAL REV D007 VER 7                                     MODE: RECORD
```

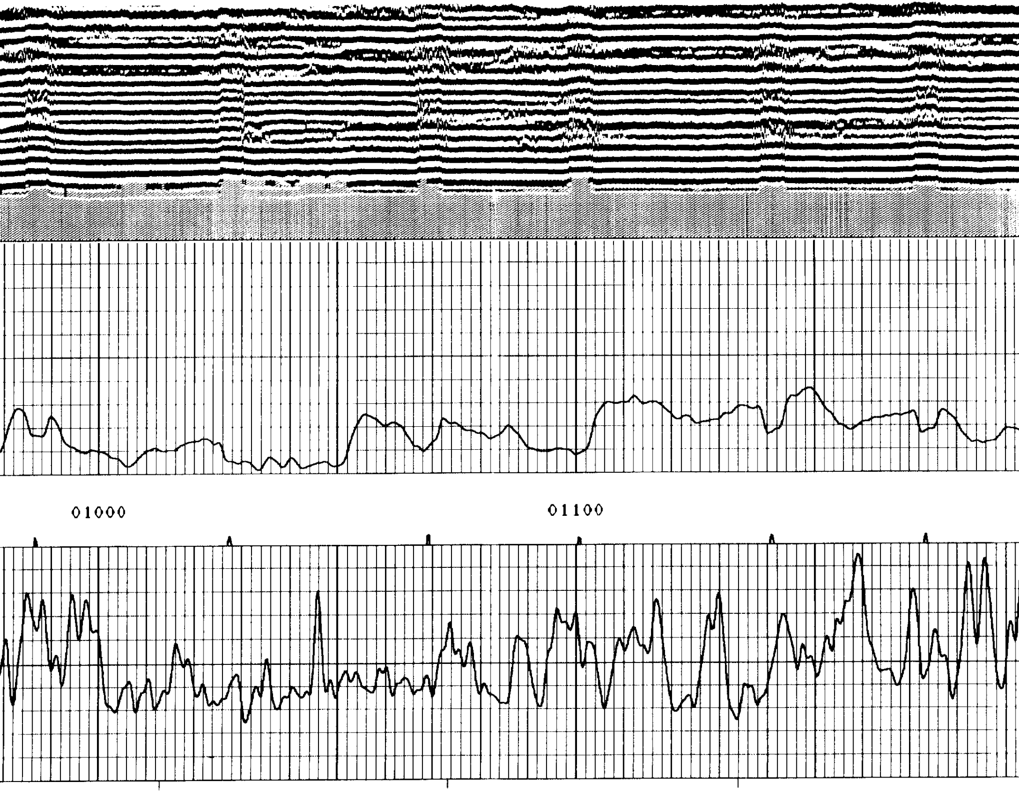
```
           TEN(LBS)
 0                        5000
                            CCL                CBL %
                           0100    0                          100
           NEU(API)                                                           MICS
 1300                     2100                                 200                        1200
```

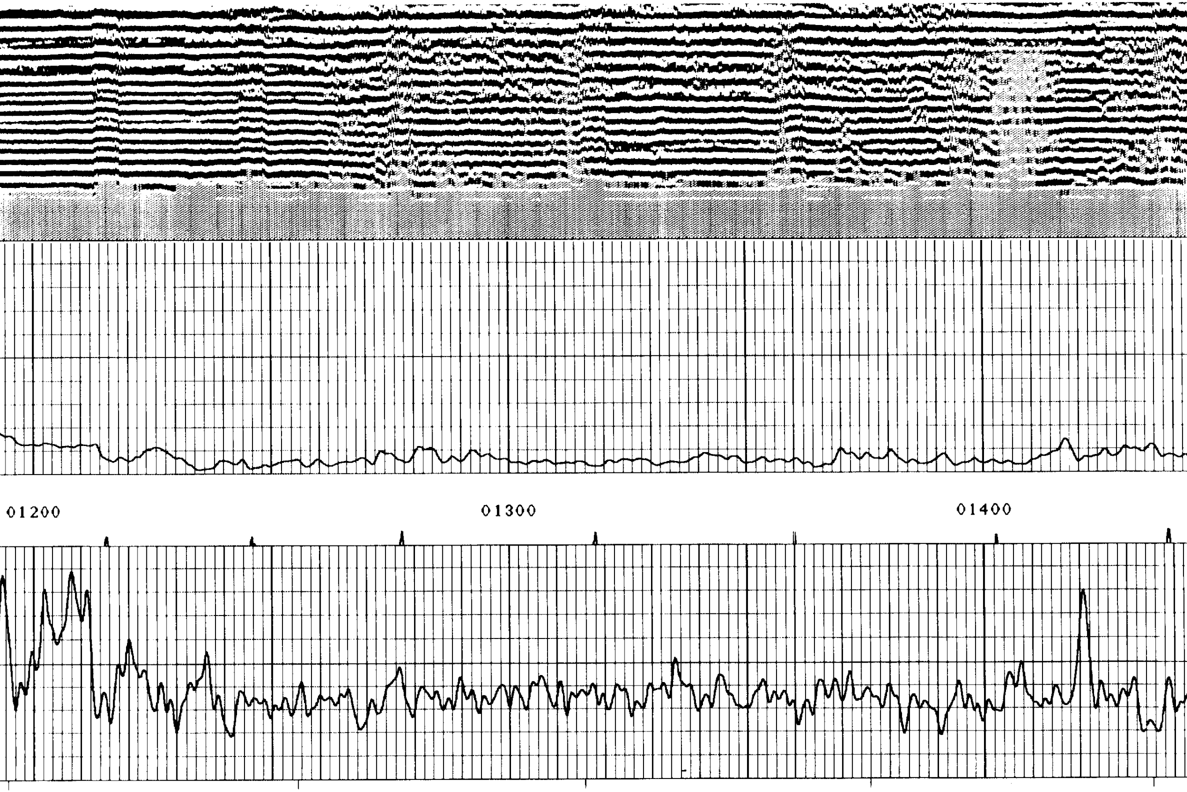


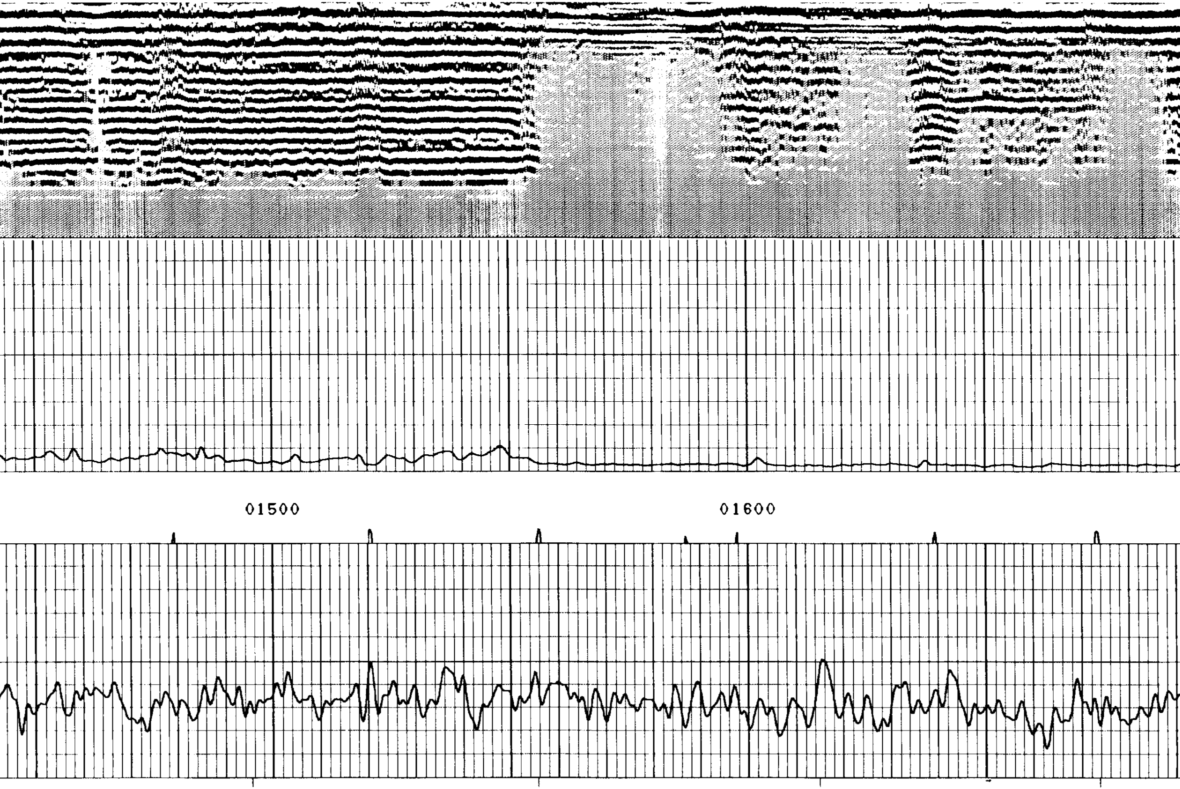


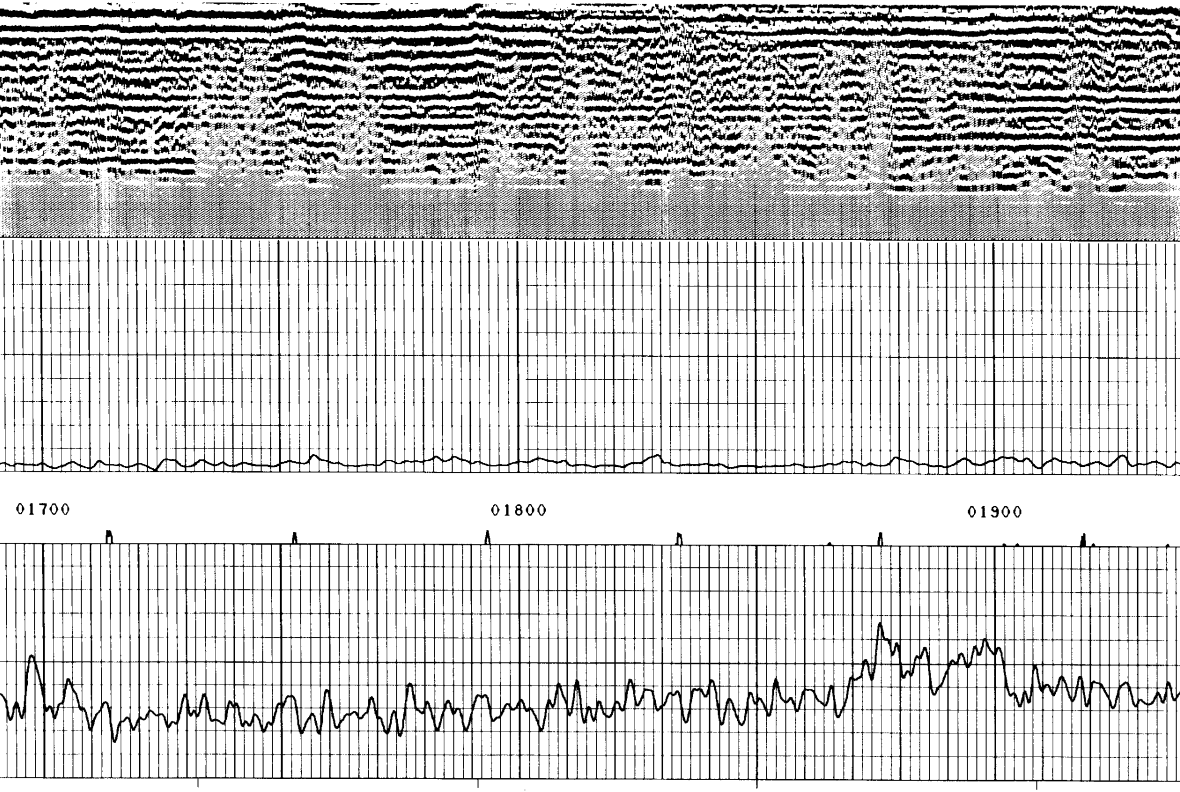


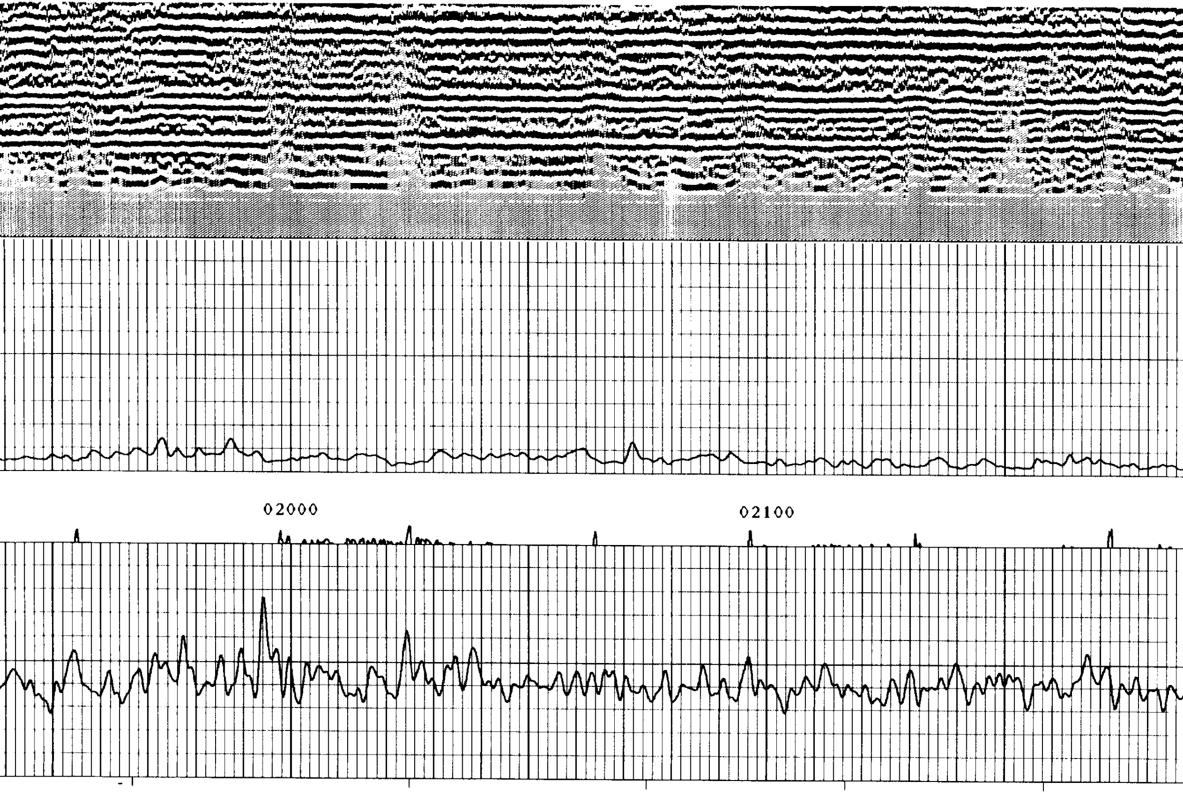


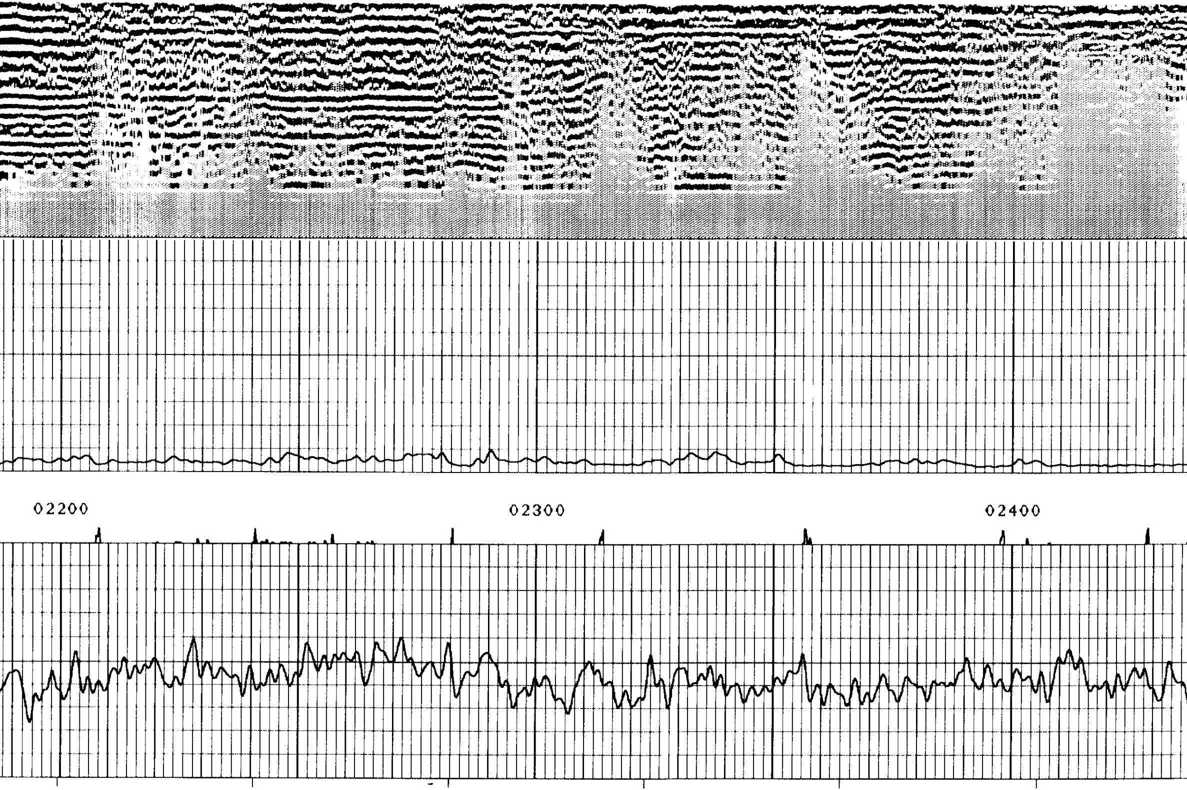


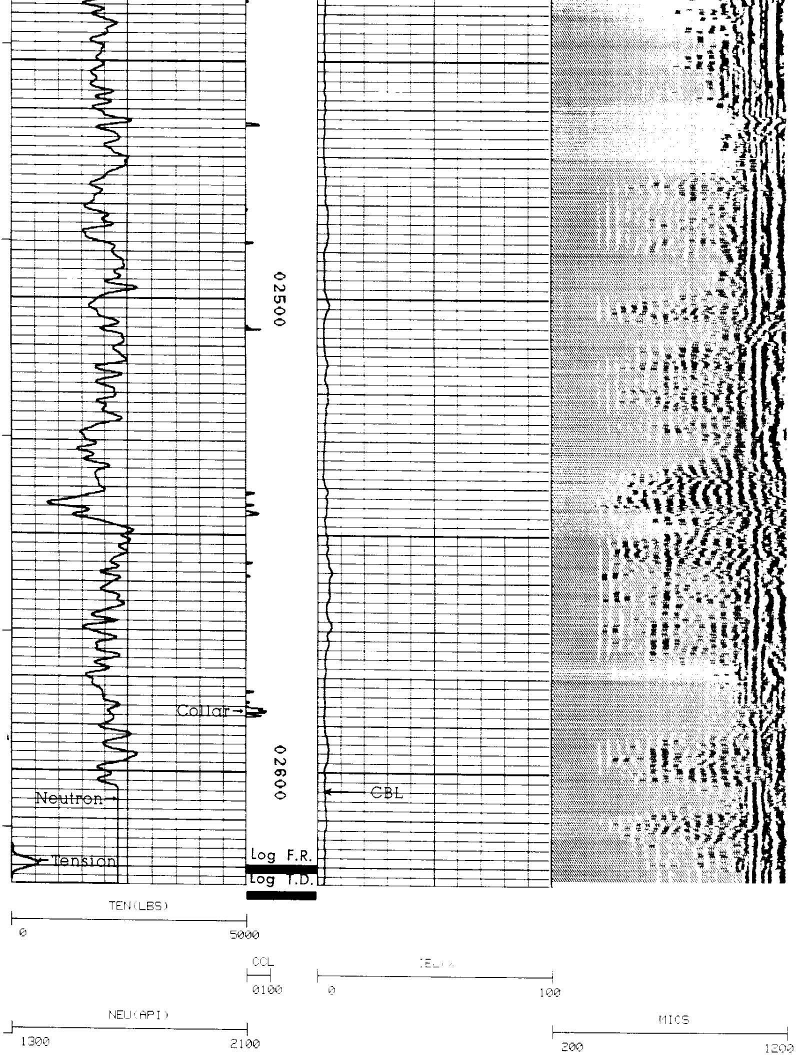












CURVE DELAYS

```
CURVE   DELAY  UNITS
-----   -----  -----

 NEU     19,8  FT,IN
 CCL     15,0  FT,IN
 SRT        0  FT,IN
 MICS       0  FT,IN
 CBL        0  FT,IN
```

```
        PARAMETERS

      *** NONE ***
  DISPLAY SCALE CHANGES

      *** NONE ***
```

```
COMPANY:    OREGON NATURAL GAS CORP                        RUN:  1

WELL NAME:  IW 33D-3                                       TRIP: 1

SERVICE:    KC342M        FILE:   6       DATE:  06/10/88    TIME:  20:17:43

REVISION:   FSYSAL REV D007 VER 7
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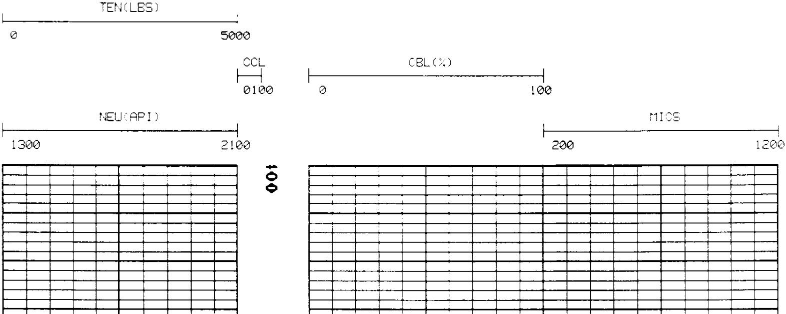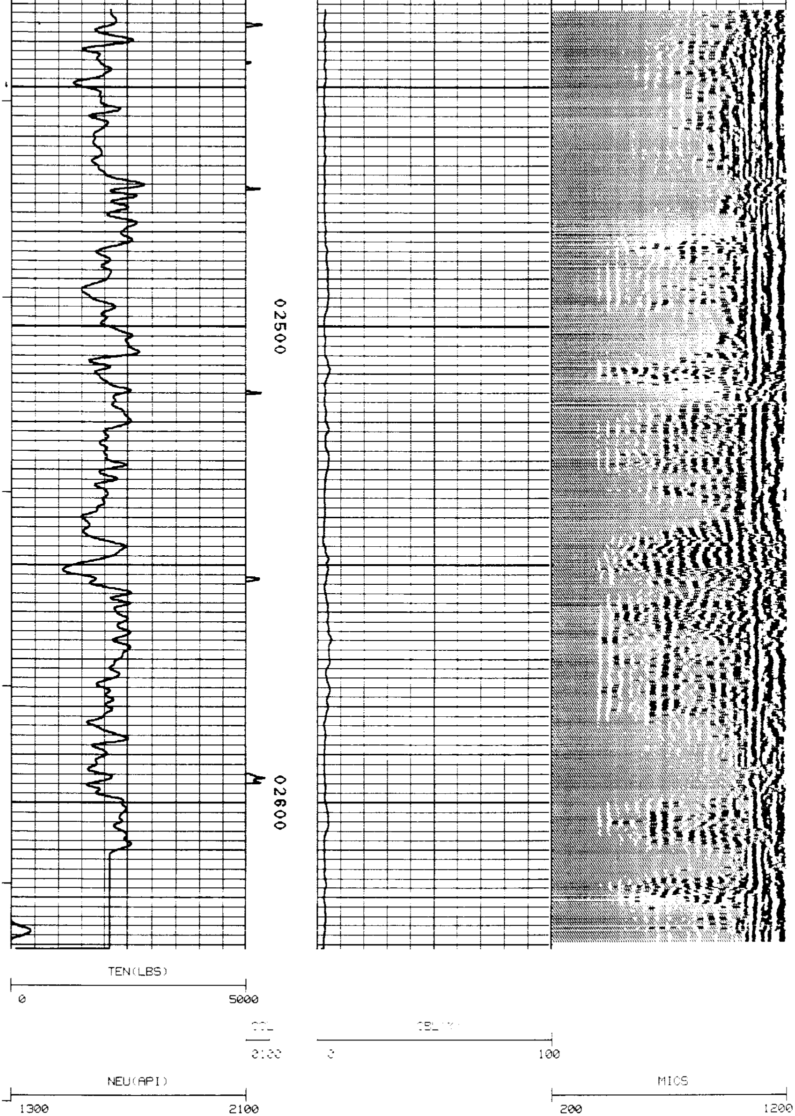REPEAT SECTION MODE: RECORD