AUG 20 1980

Schlumberger

# BOREHOLE COMPENSATED SONIC LOG

COUNTY COLUMBIA
FIELD MIST NEHALEM BASIN
LOCATION 34-7N-5W WBM
WELL REICHHOLD ADAM NO. 24-34
COMPANY REICHHOLD ENERGY

COMPANY REICHHOLD ENERGY CORPORATION

WELL REICHHOLD ADAM NO. 24-34

FIELD MIST NEHALEM BASIN

COUNTY COLUMBIA STATE OREGON

LOCATION 634'NORTH & 382'WEST FROM THE SOUTHEAST CORNER OF:

| API SERIAL NO. | SEC. | TWP | RANGE |
|---|---|---|---|
| | 34 | 7N | 5W WBM |

Other Services:
DI-SFL
HDT

Permanent Datum: GL ; Elev.: 1128.94
Log Measured From KB 10.50 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 1139.44
D.F. --
G.L. 1128.94

| | | | | |
|---|---|---|---|---|
| Date | 7-2-80 | | | |
| Run No. | ONE | | | |
| Depth—Driller | 3377 | | | |
| Depth—Logger (Schl.) | 3374 | | | |
| Btm. Log Interval | 3359 | | | |
| Top Log Interval | 525 | | | |
| Casing—Driller | 7" @ 525 | @ | @ | @ |
| Casing—Logger | 525 | | | |
| Bit Size | $6\frac{1}{4}$" | | | |
| Type Fluid in Hole | LIGNOSULFONATE | | | |
| Dens. \| Visc. | 77 \| 45 | | | |
| pH \| Fluid Loss | 10.5 \| 6.0 ml | ml | ml | ml |
| Source of Sample | CIRCULATION | | | |
| Rm @ Meas. Temp. | 2.31 @ 74 °F | @ °F | @ °F | @ °F |
| Rmf @ Meas. Temp. | 2.90 @ 55 °F | @ °F | @ °F | @ °F |
| Rmc @ Meas. Temp. | 2.90 @ 62 °F | @ °F | @ °F | @ °F |
| Source: Rmf \| Rmc | M \| M | | | |
| Rm @ BHT | 1.82 @ 94 °F | @ °F | @ °F | @ °F |
| TIME Circulation Stopped | 2300 7/1 | | | |
| TIME Logger on Bottom | 0800 | | | |
| Max. Rec. Temp. | 94 °F | °F | °F | °F |
| Equip. \| Location | 8128 \| SAC | | | |
| Recorded By | LANGFORD | | | |
| Witnessed By | BRUER | | | |

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

| | | | | |
|---|---|---|---|---|
| Run No. | ONE | | | |
| Service Order No. | 123899 | | | |
| Fluid Level | FULL | | | |
| | | | | |
| | | | | |

## EQUIPMENT DATA

| | | | | |
|---|---|---|---|---|
| Sonic Panel No. | 443 | | | |
| Sonic Cart No. | 1321 | | | |
| Sonic Sonde No. | 375 | | | |
| Mem. Panel No. | CSU | | | |
| G.R. Cart. No. | -- | | | |
| G.R. Panel No. | -- | | | |
| Caliper No. | 1243 | | | |
| TTR No. | -- | | | |
| Centralizers: No. | NONE | | | |
| Type | -- | | | |
| Standoffs: No. | 1 | | | |
| Type | FIN | | | |
| Time Const.-Sec. | -- | | | |
| Speed - F.P.M. | 40 | | | |
| | | | | |
| | | | | |

## CALIBRATION DATA

| | | | | | |
|---|---|---|---|---|---|
| GR | BKG. CPS | -- | | | |
| | Source CPS | -- | | | |
| | Tc Sec | -- | | | |
| | | | | | |
| | | | | | |

## SCALE CHANGES

| Type Log | Depth | Scale Up Hole | Scale Down Hole |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

## LOGGING DATA

| Porosity Selectors | | | | Depth | |
|---|---|---|---|---|---|
| $\Delta t_m$ | $\Delta t_f$ | Cp | Ø Scale | From | To |
| 55.6 | 189 | 100 | | 525 | 3374 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

## REMARKS

$$\text{Velocity (ft/sec)} = \frac{1,000,000}{\text{Interval Transit Time (microseconds per foot)}}$$

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 interpretations, 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 as set out in our current Price Schedule.

**CALIPER** DIAM. IN INCHES

6" 16"

**SPONTANEOUS-POTENTIAL**

− |←10→| + MILLIVOLTS

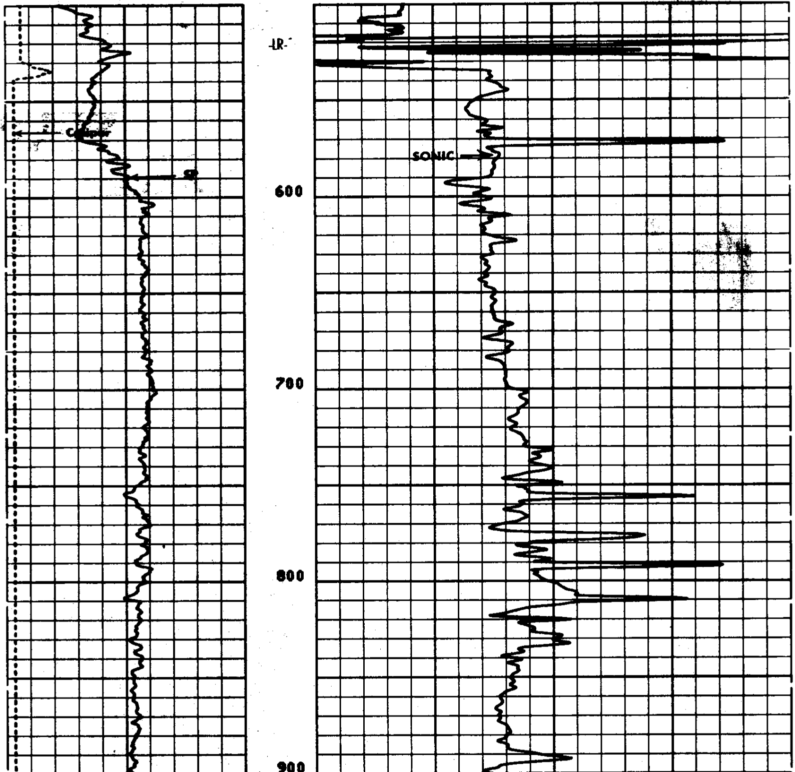
DEPTH

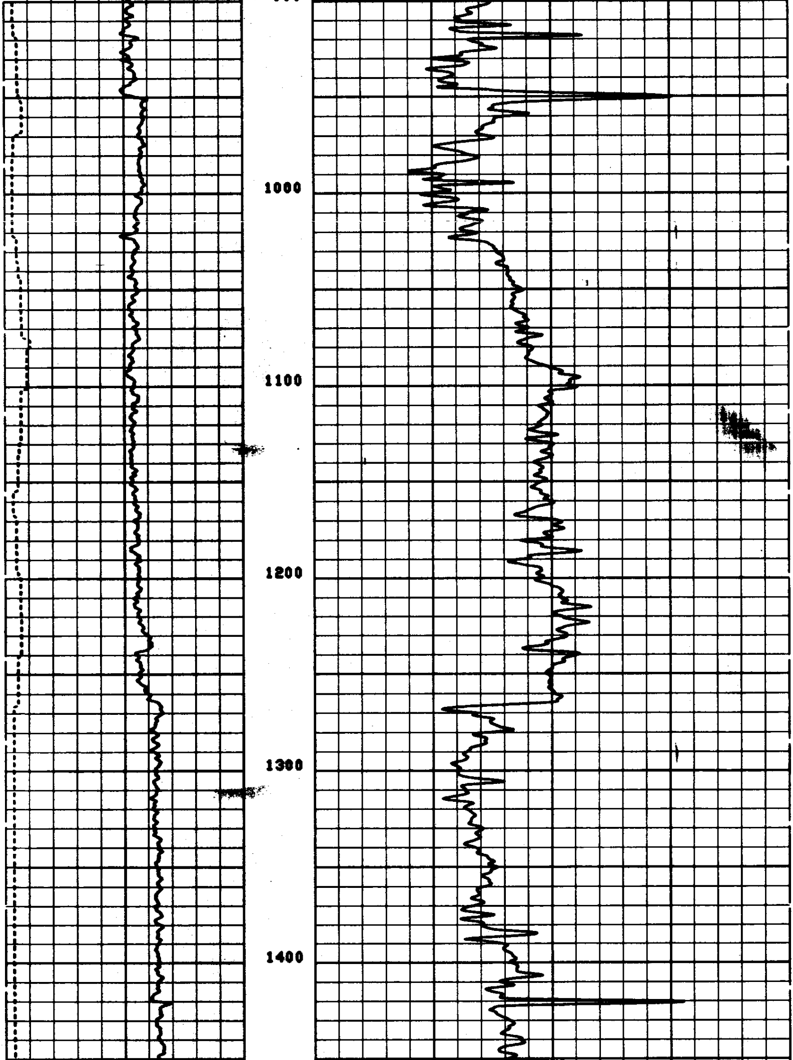
**INTERVAL TRANSIT TIME** MICROSECONDS PER FOOT T 3' R₁ 2' R₂

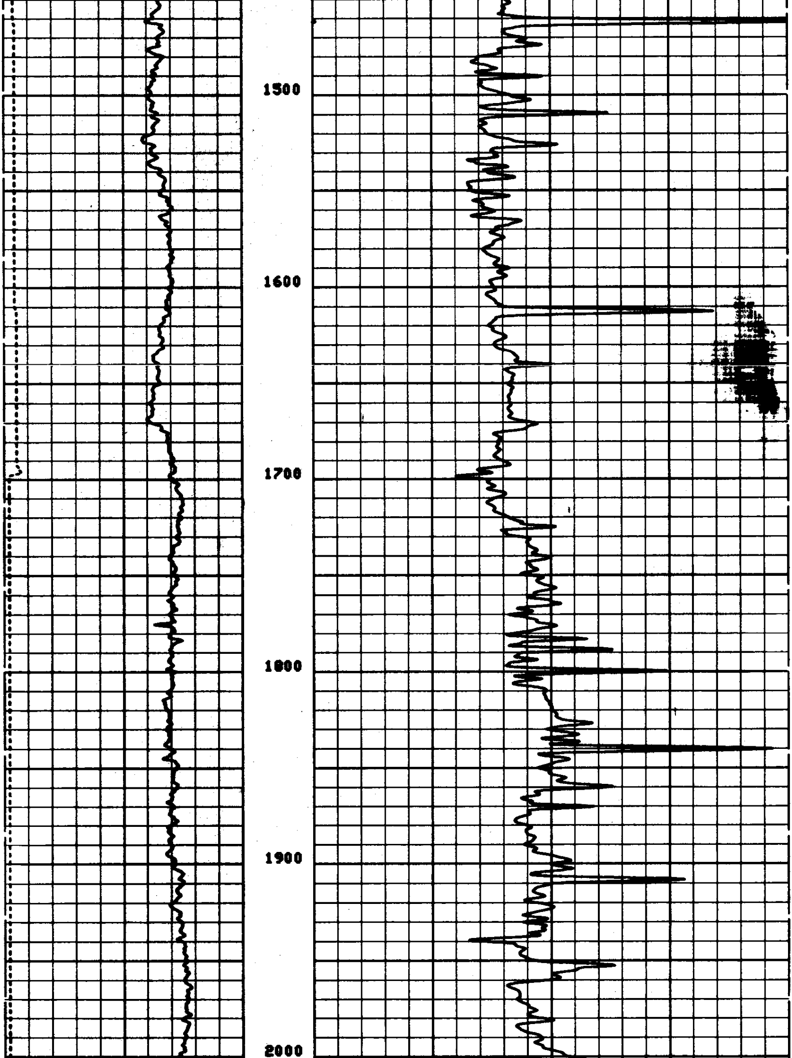
175 125 75

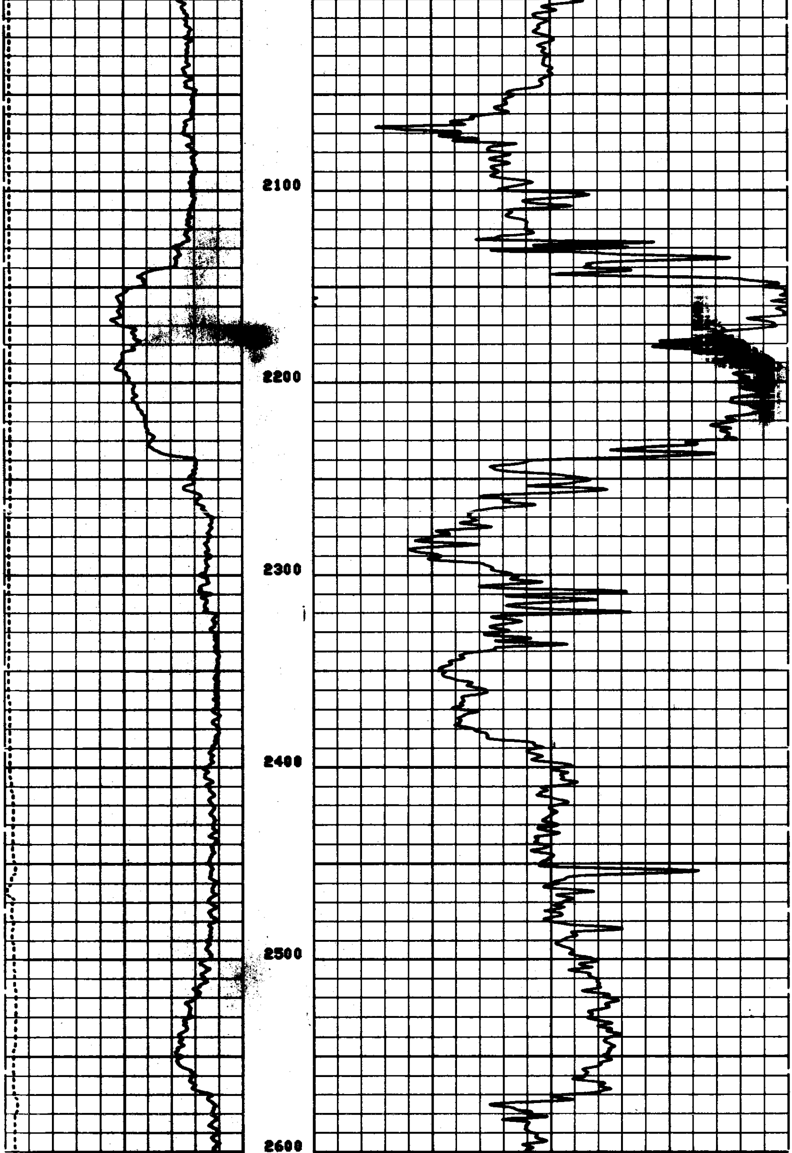
16

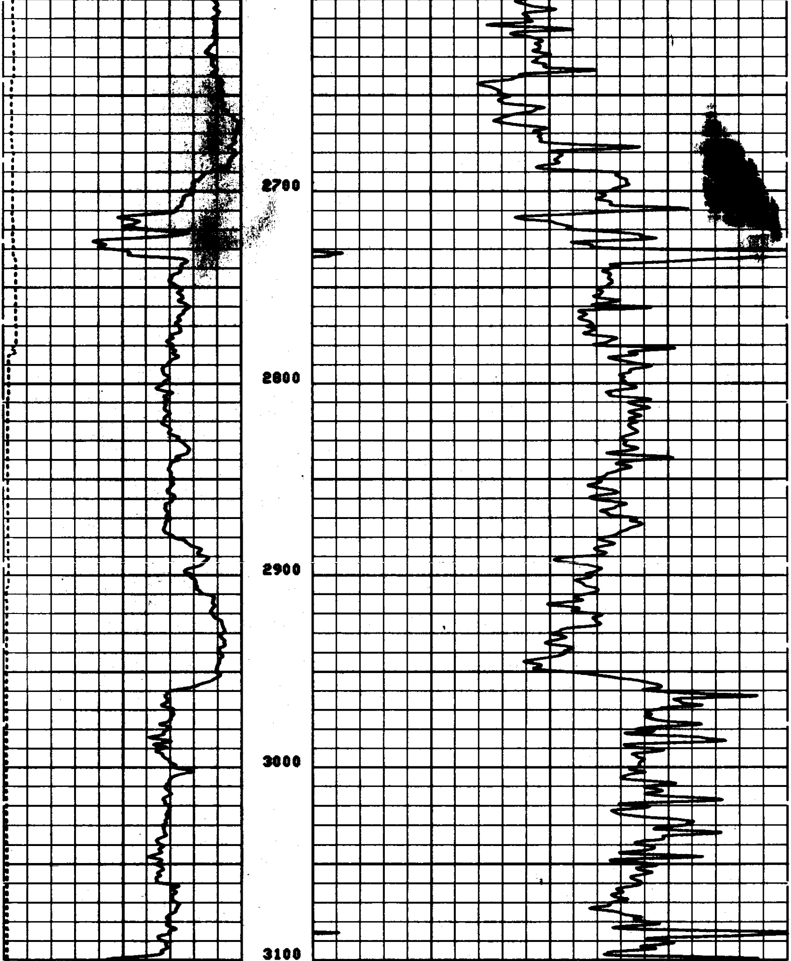
16

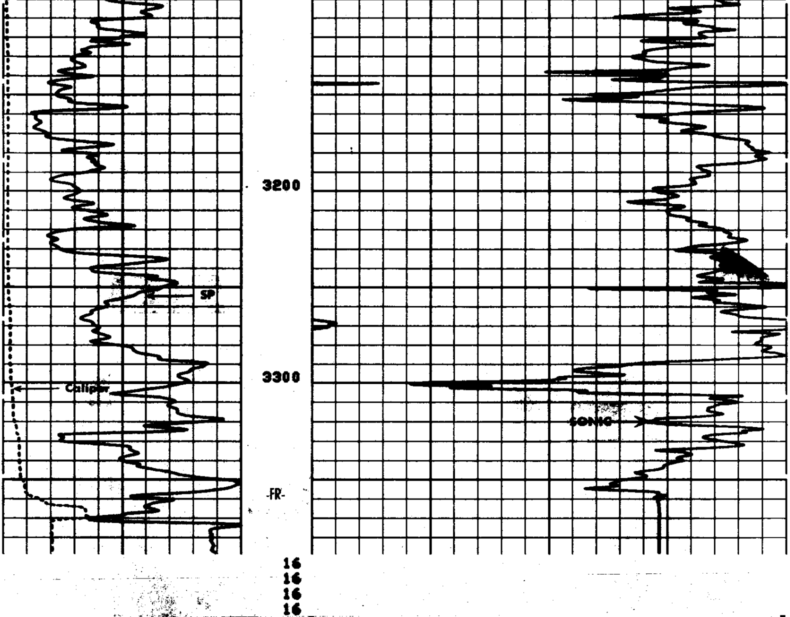












7-21-80

**SPONTANEOUS-POTENTIAL**

— 10 + MILLIVOLTS

**CALIPER** DIAM. IN INCHES

6" 16"

DEPTH

**INTERVAL TRANSIT TIME** MICROSECONDS PER FOOT T 3' $R_1$ 2' $R_2$

175 125 75

COMPANY REICHHOLD ENERGY CORPORATION

WELL REICHHOLD ADAM NO. 24-34

FIELD MIST NEHALEM BASIN

COUNTY COLUMBIA STATE OREGON

SCHL. FR 3359

SCHL. TD 3374

DRLR. TD 3377

Elev: KB 1139.44

DF --

GL 1128.94

# DETAIL LOG

5" = 100'

**CALIPER** DIAM. IN INCHES

6" 16"

DEPTH

**INTERVAL TRANSIT TIME** MICROSECONDS PER FOOT T 3' R1 2' R2

175 125 75

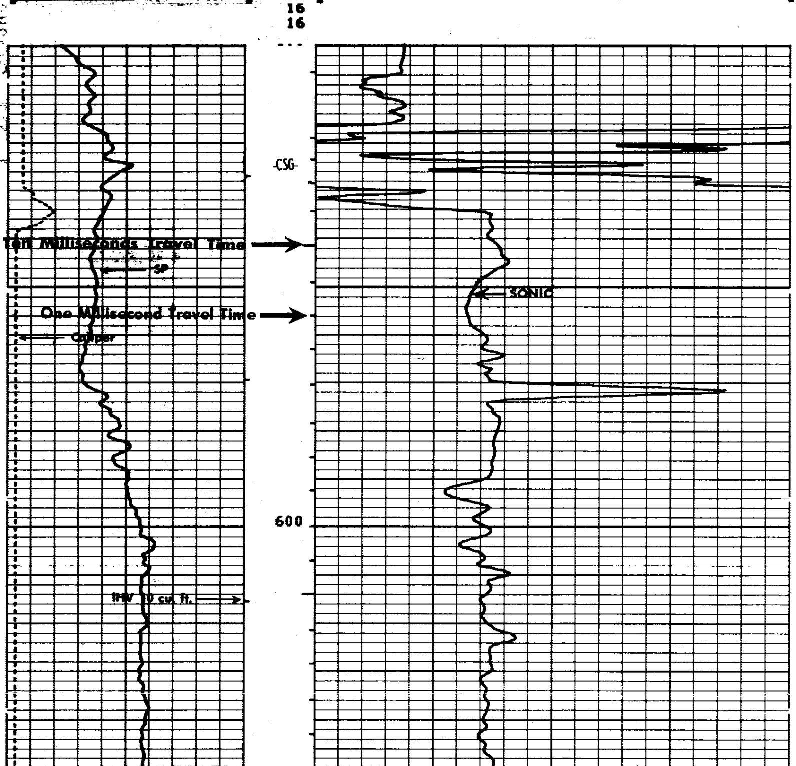
INTEGRATED TRAVEL TIME

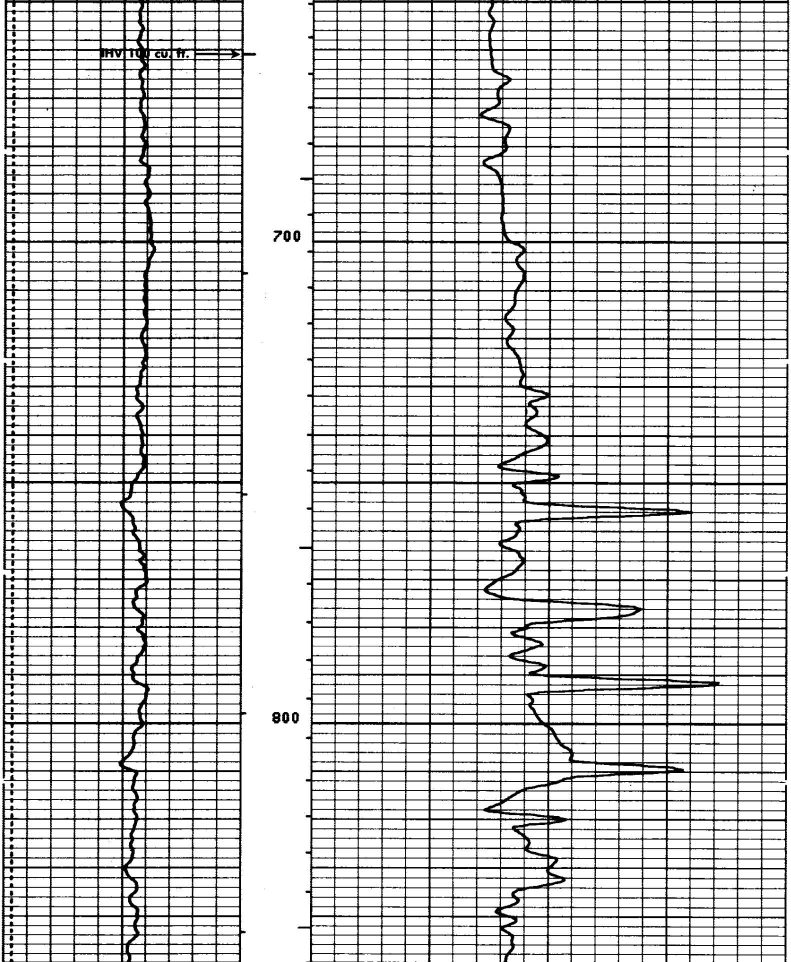
**SPONTANEOUS-POTENTIAL**

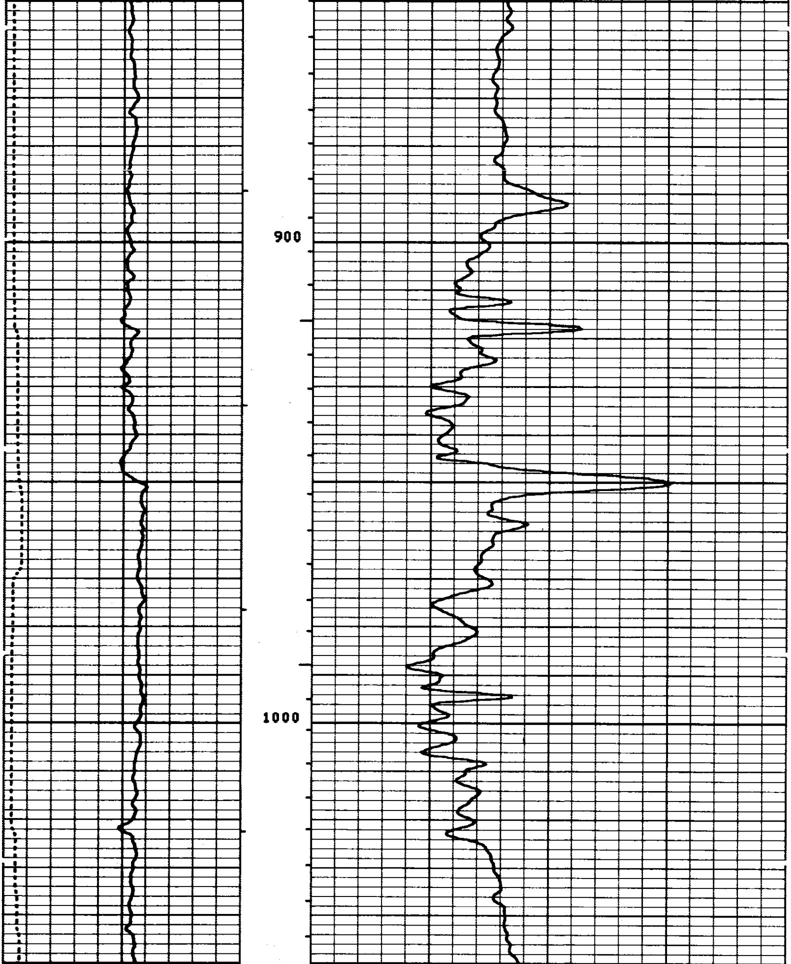
10

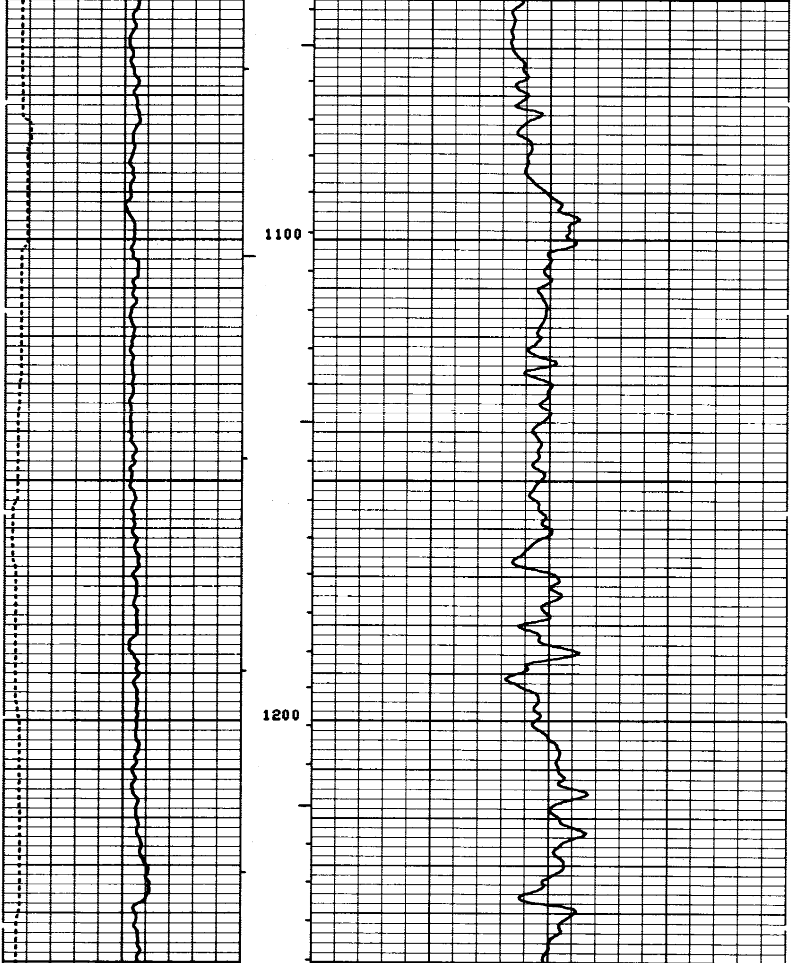
— + MILLIVOLTS

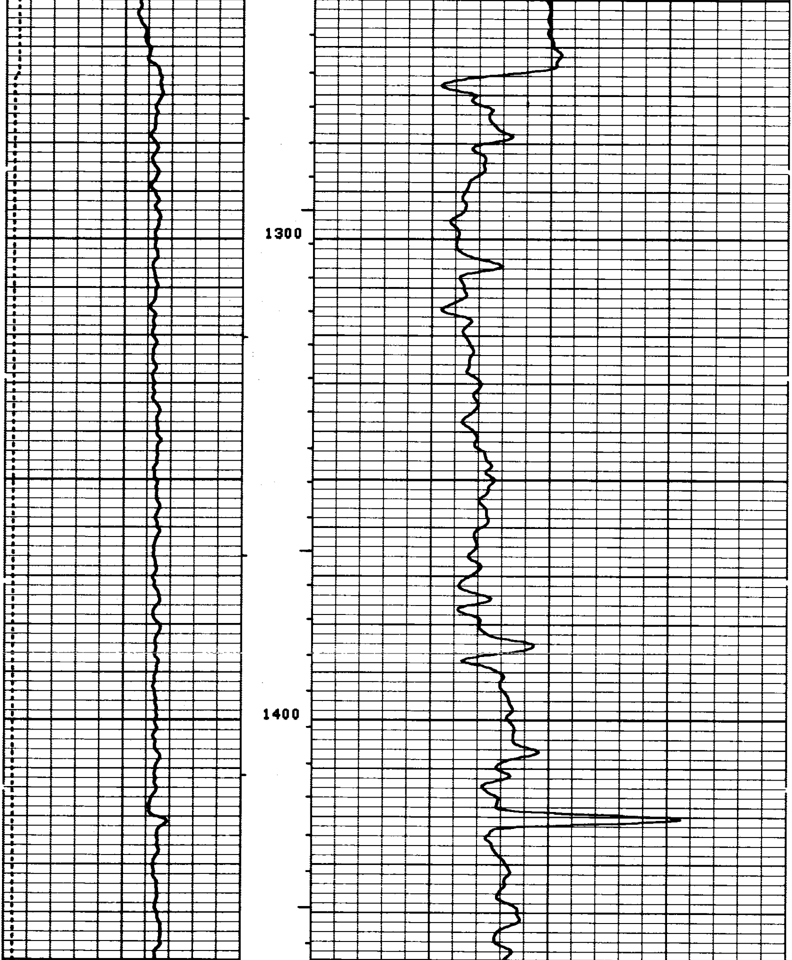
7-21-80 SMI 126899

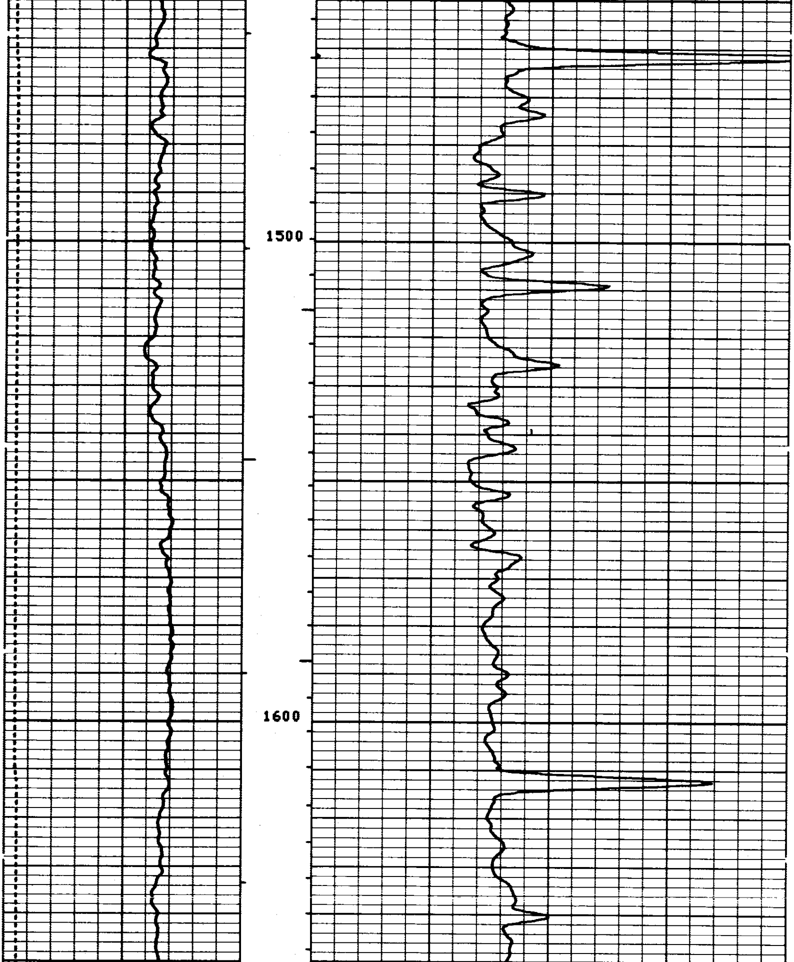


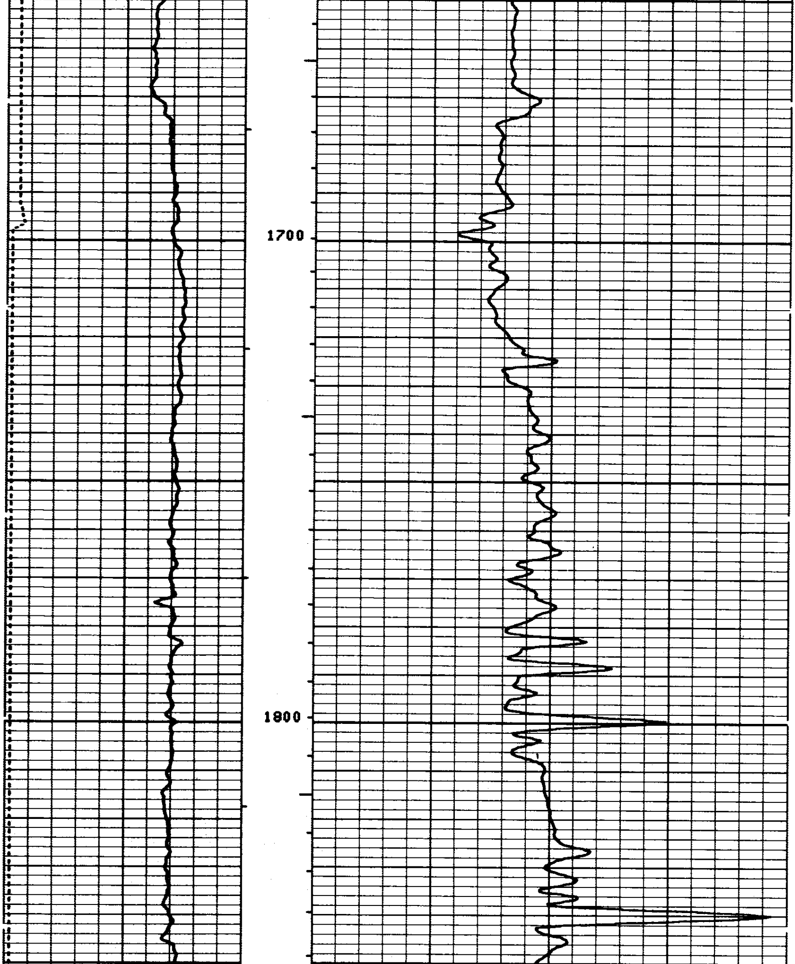


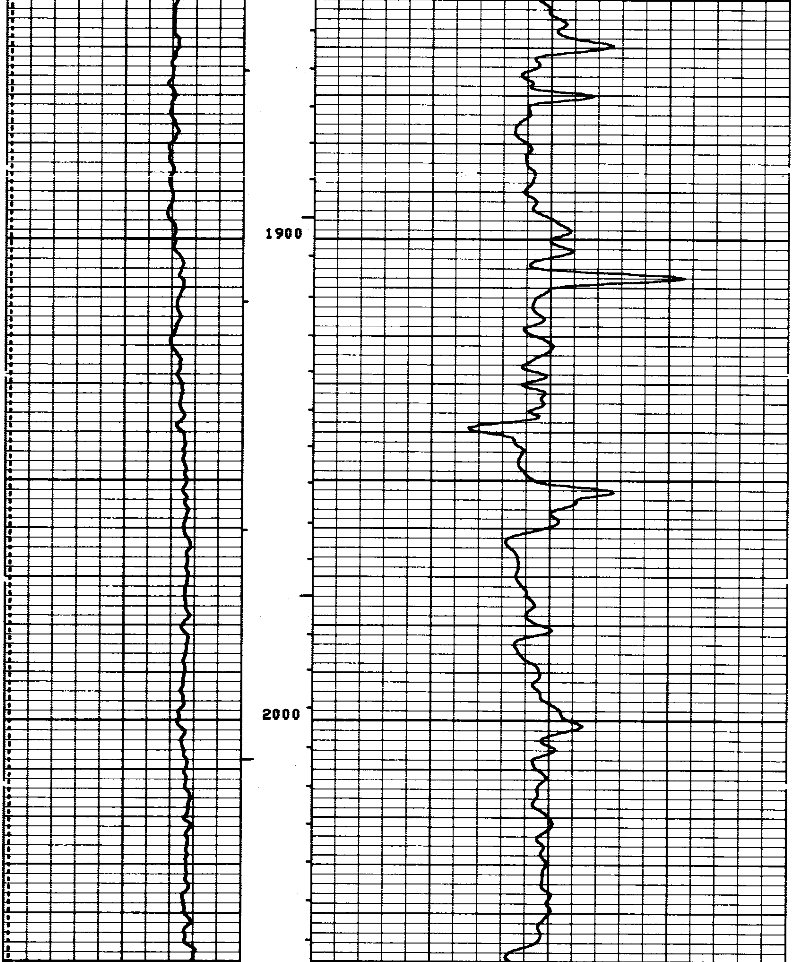


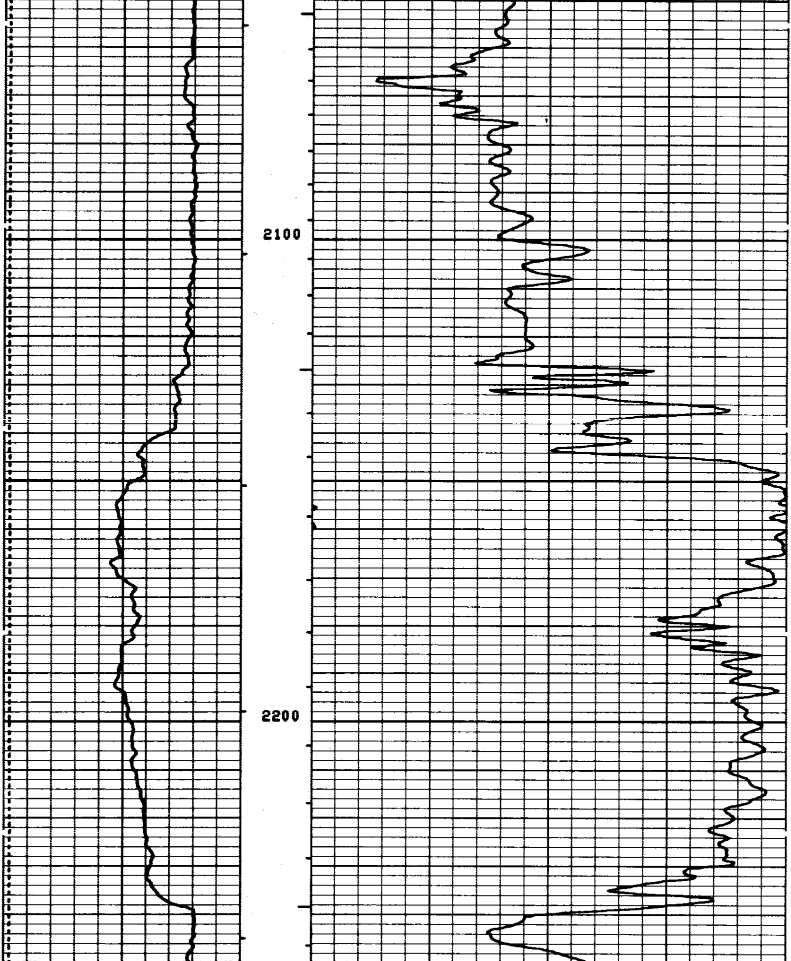


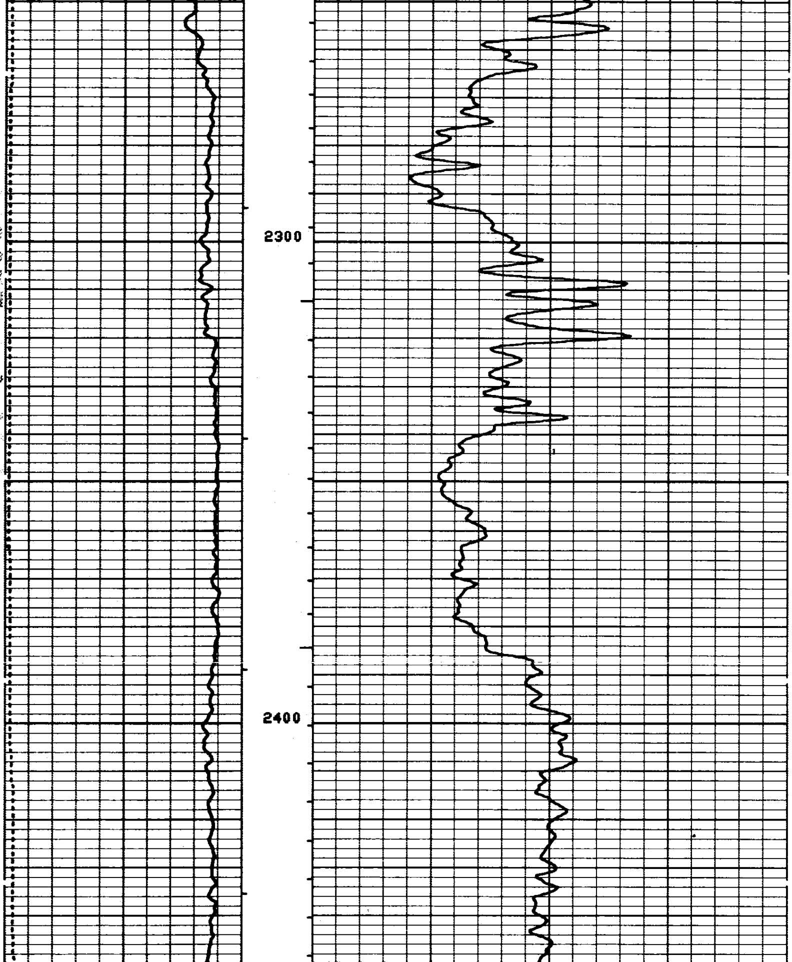


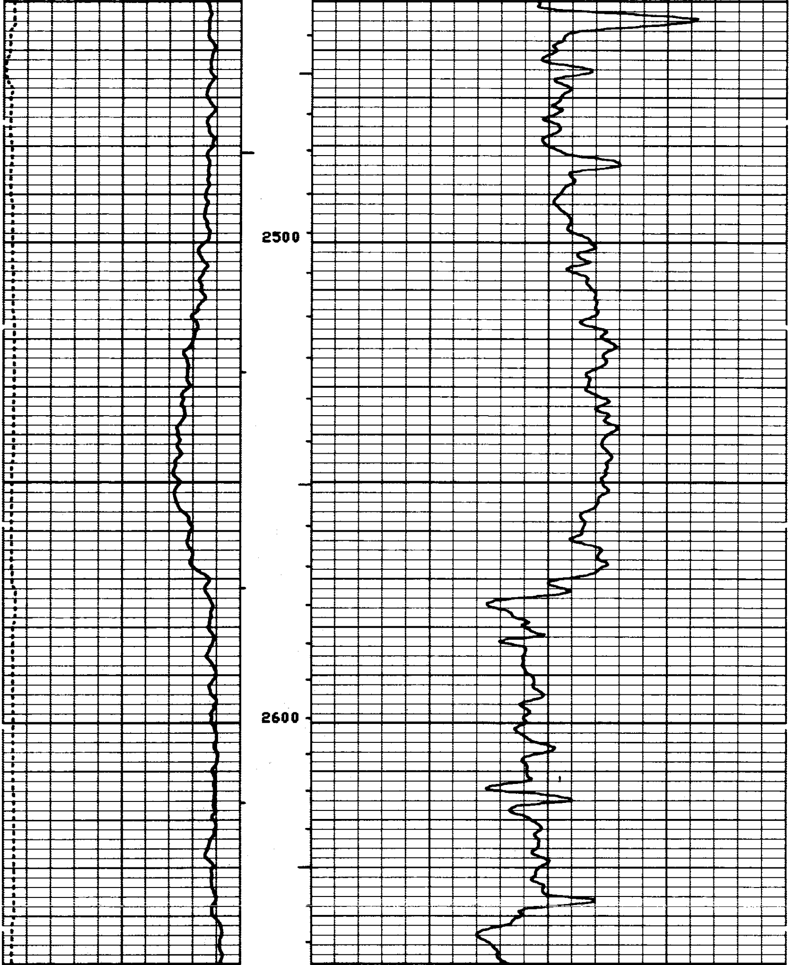


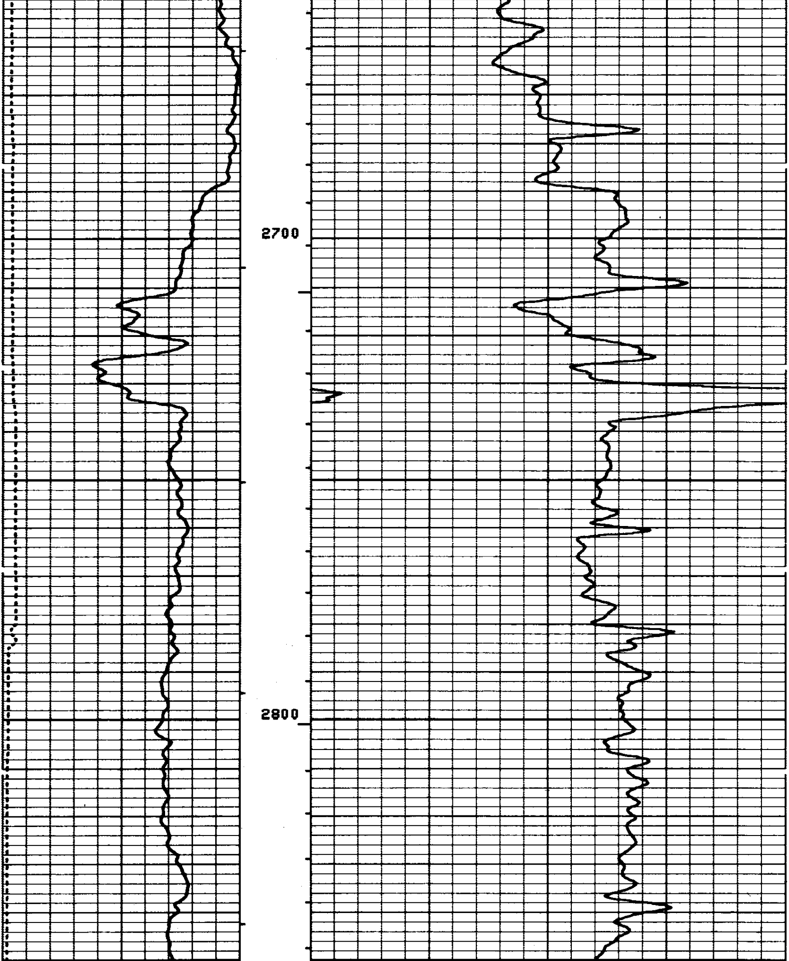


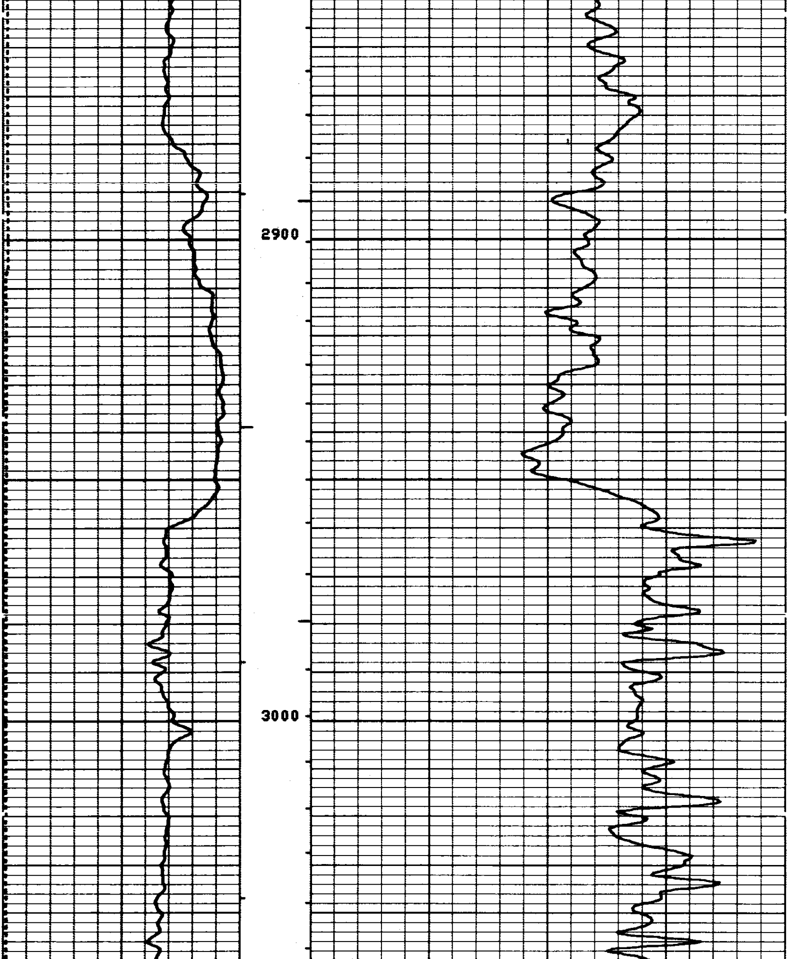


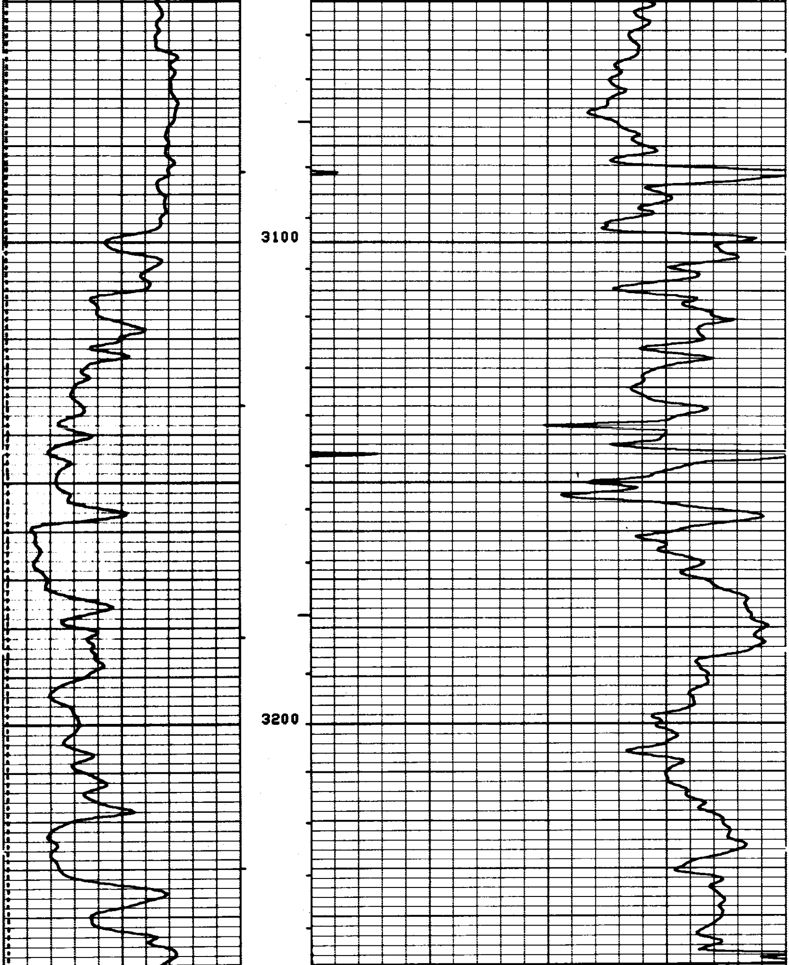


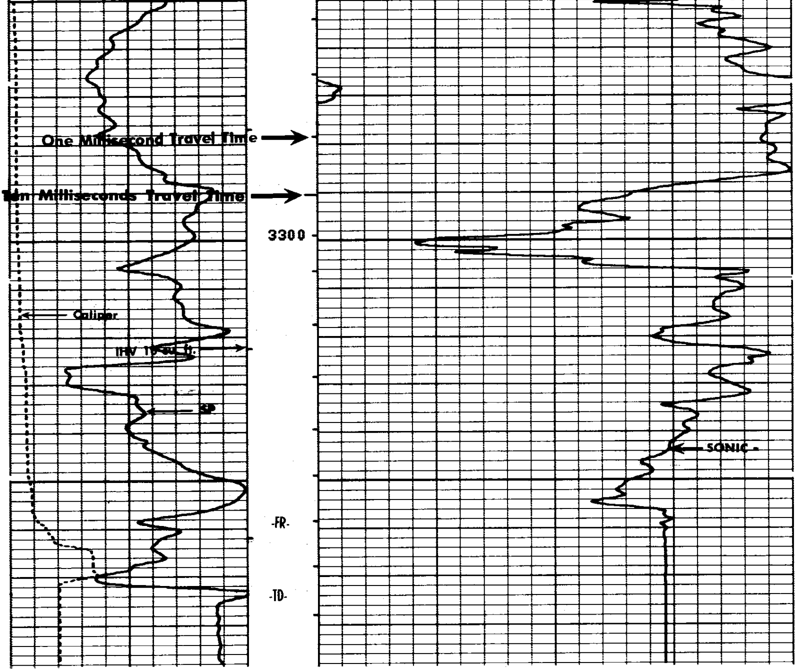








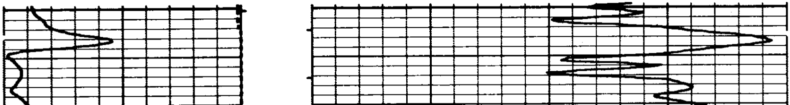


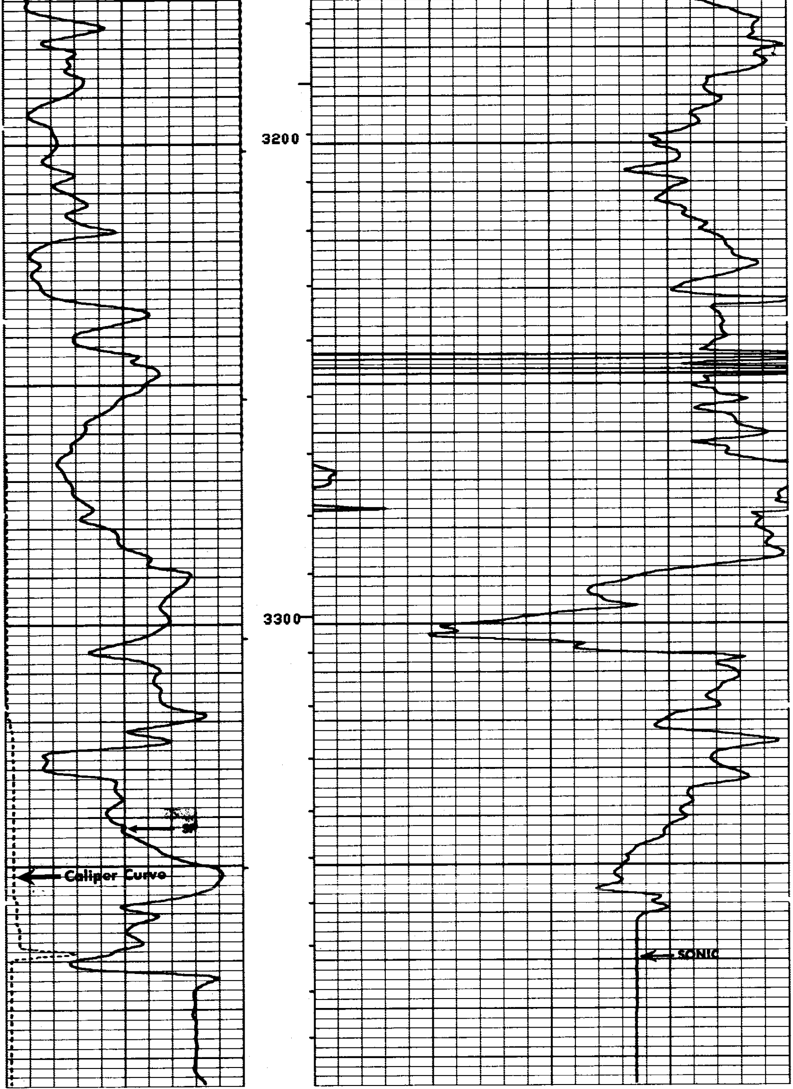


16
16
16

**REPEAT SECTION**

15
15
15





**SPONTANEOUS-POTENTIAL**

10

– |↔| + MILLIVOLTS

↑ INTEGRATED TRAVEL TIME

**CALIPER** DIAM. IN INCHES

6" 16"

DEPTH

**INTERVAL TRANSIT TIME** MICROSECONDS PER FOOT T3' R₁ 2' R₂

175 125 75

## CALIBRATION RECORD

```
                          14
                          14
                          14
                          14
                          14


               BEFORE SURVEY CALIBRATION SUMMARY


     PERFORMED:     80/07/02
     PROGRAM FILE:  IS      (VERSION    16.4    79/11/20)


   VCDD               CALIPER CALIBRATION SUMMARY

              MEASURED                  CALIBRATED
            SMALL   LARGE             SMALL     LARGE        UNITS
     CALI    7.1    12.0               8.0      12.0          IN
                          14
                          14
                          14
```

## CALIBRATION RECORD

| | | | |
|---|---|---|---|
| COMPANY | REICHHOLD ENERGY CORPORATION | SCHL. FR | 3359 |
| | | SCHL. TD | 3374 |
| WELL | REICHHOLD ADAM NO. 24-34 | DRLR TD | 3377 |
| FIELD | MIST NEHALEM BASIN | Elev: KB | 1139.44 |
| | | DF | -- |
| COUNTY | COLUMBIA STATE OREGON | GL | 1128.94 |