CC 12

APR 23 1980

Schlumberger

DUAL INDUCTION-SFL

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY NO. 12

FIELD MIST-NEHALEM BASIN

COUNTY COLUMBIA STATE OREGON

LOCATION				Other Services:
39' SOUTH & 209' EAST OF THE NORTHWEST CORNER OF:				HDT BHC 5"
API SERIAL NO.	SEC. 14	TWP 6N	RANGE 5W	

COUNTY COLUMBIA
FIELD MIST-NEHALEM BASIN
LOCATION 14-6N-5W
WELL COLUMBIA COUNTY #12
COMPANY REICHHOLD ENERGY

Permanent Datum: GL ; Elev.: 797.65
Log Measured From KB10.8 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 808.45
D.F. --
G.L. 797.65

Date	3-3-80			
Run No.	ONE			
Depth—Driller	3160			
Depth—Logger (Schl.)	3159			
Btm. Log Interval	3153			
Top Log Interval	398			
Casing—Driller	7" @ 399	@	@	@
Casing—Logger	398			
Bit Size	6¼"			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	86 | 54			
pH | Fluid Loss	9.6 | 7 ml	ml	ml	ml
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	1.73 @ 60 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.29 @ 48 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.44 @ 48 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M			
Rm @ BHT	128 @ 98 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	0100			
TIME Logger on Bottom	0500			
Max. Rec. Temp.	98 °F	°F	°F	°F
Equip. | Location	8126 | SAC			
Recorded By	FINNELL			
Witnessed By Mr.	BRUER			

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

Run No.	ONE			
Service Order No.	123939			
Fluid Level	FULL			
Speed F.P.M.	--			
Salinity ppm. cl	--			
EQUIPMENT DATA				
Panel	--			
Cartridge	18			
Sonde	100			
Memorizer Panel	--			
Centralizer Type	--			
Stand-off - Inches	--			
G.R. Panel	--			
CALIBRATION DATA				
SBR	1.0			
ILD Sonde Error	9.84			
ILM Sonde Error	3.27			
S.E. Set In Hole - Depth	--			
S.E. Corr. - Hole Size	--			
G.R. Background	--			
G.R. Source	--			
T.C. - Cal.	--			
LOGGING DATA				
SBR	1.0			
ILD Sonde Error Log	9.84			
ILM Sonde Error Log	3.27			
G.R. Scale per 100 Div.	--			
G.R. - T.C. Log	--			

SCALE CHANGES

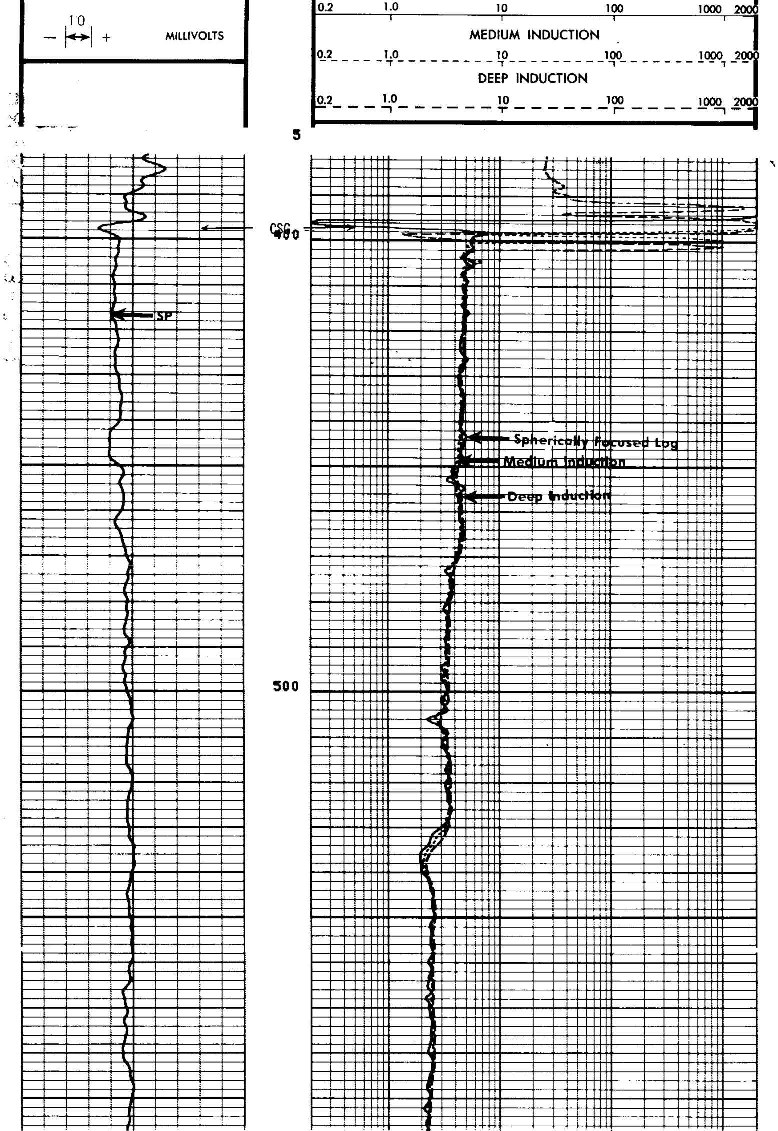
Type Log	DEPTH	Scale Up Hole	Scale Down Hole

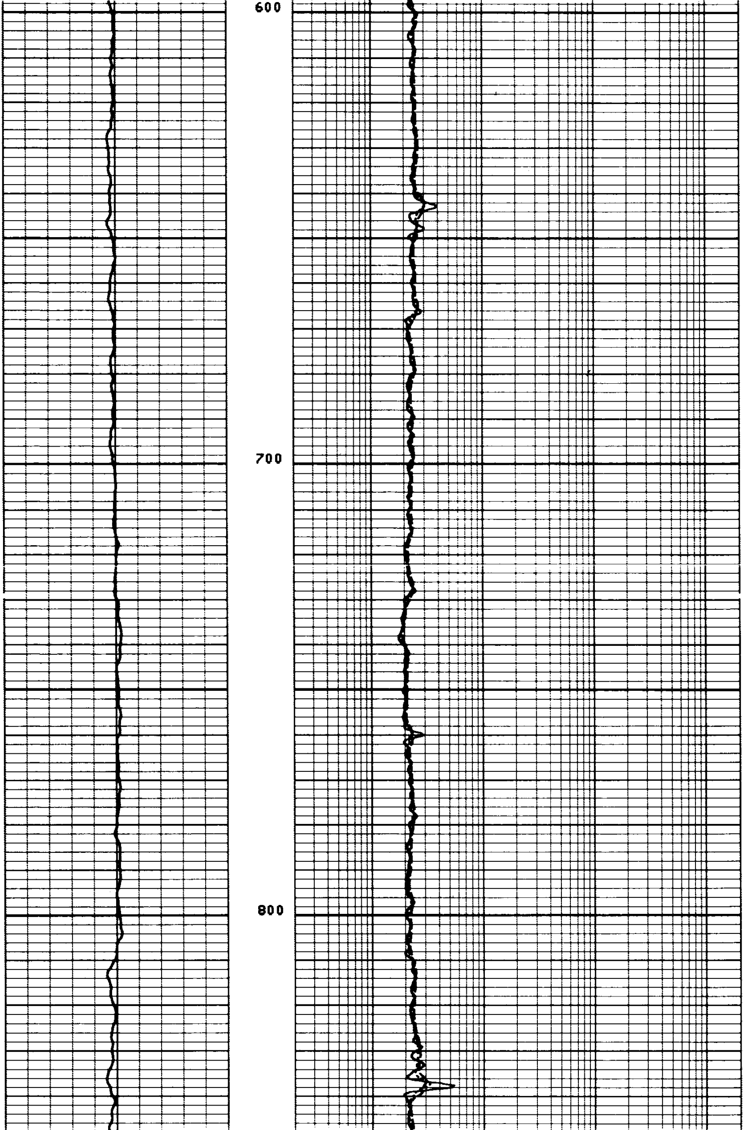
REMARKS

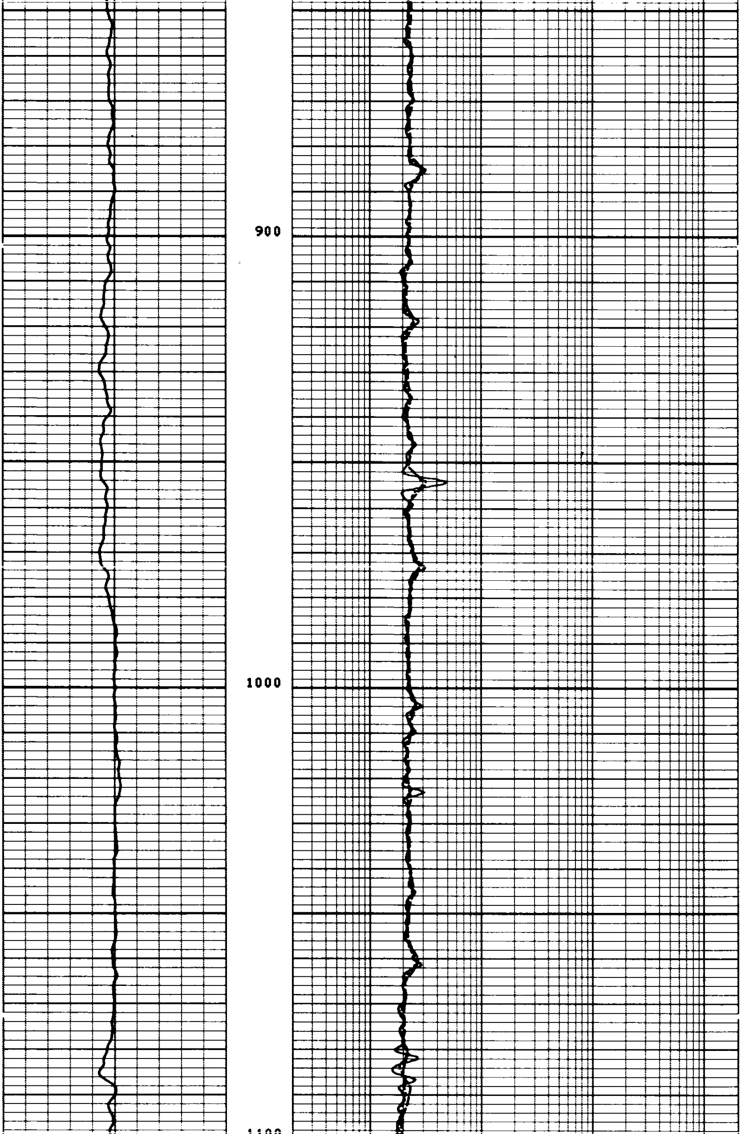
SFL READING HIGH FROM 3000' TO 3085 AND 3120 TO TD.

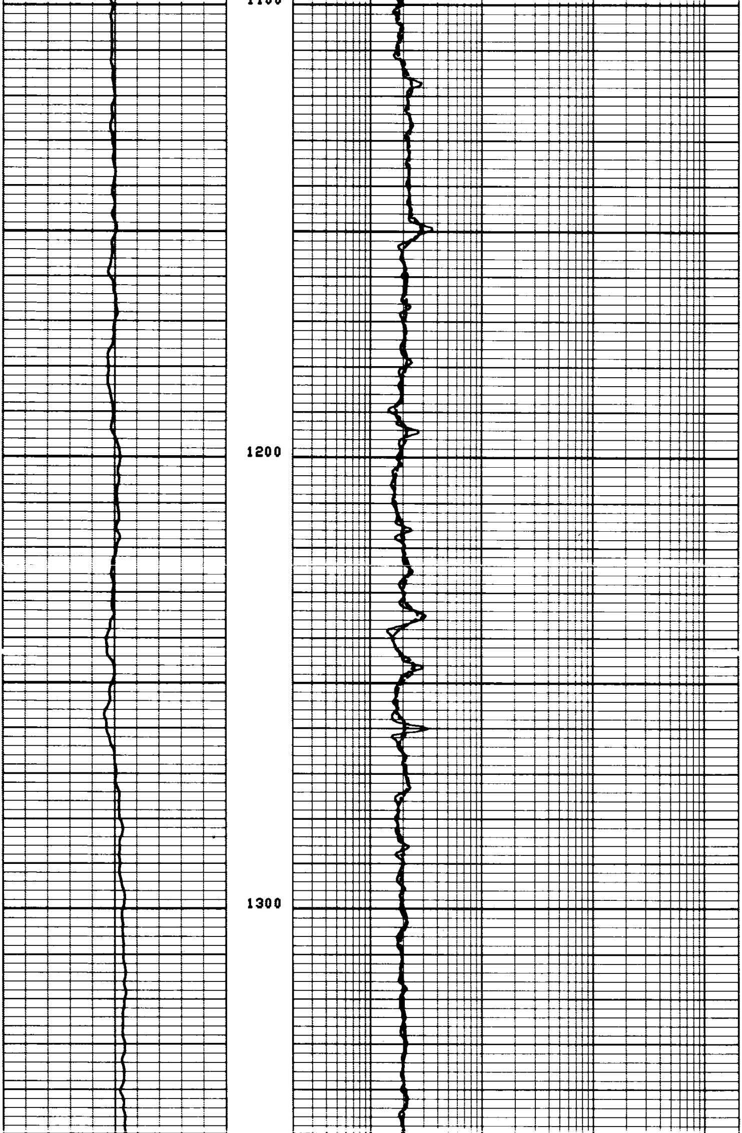
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

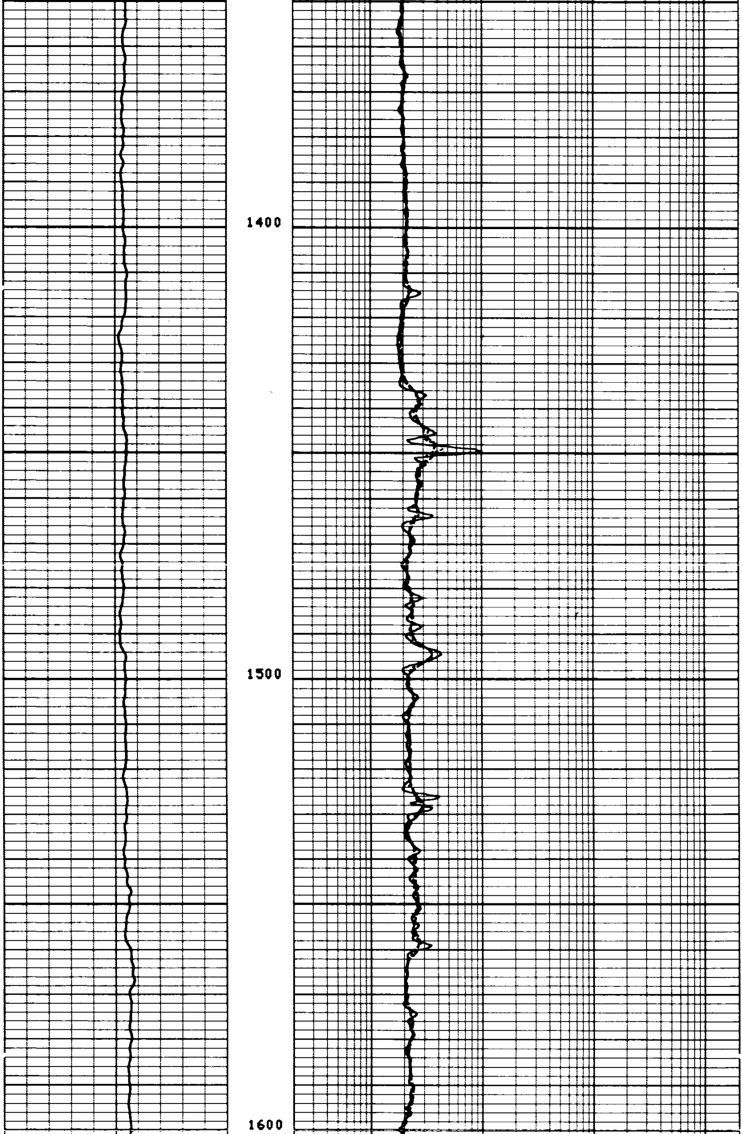
SPONTANEOUS-POTENTIAL		RESISTIVITY OHMS. M^2/M SPHERICALLY FOCUSED LOG

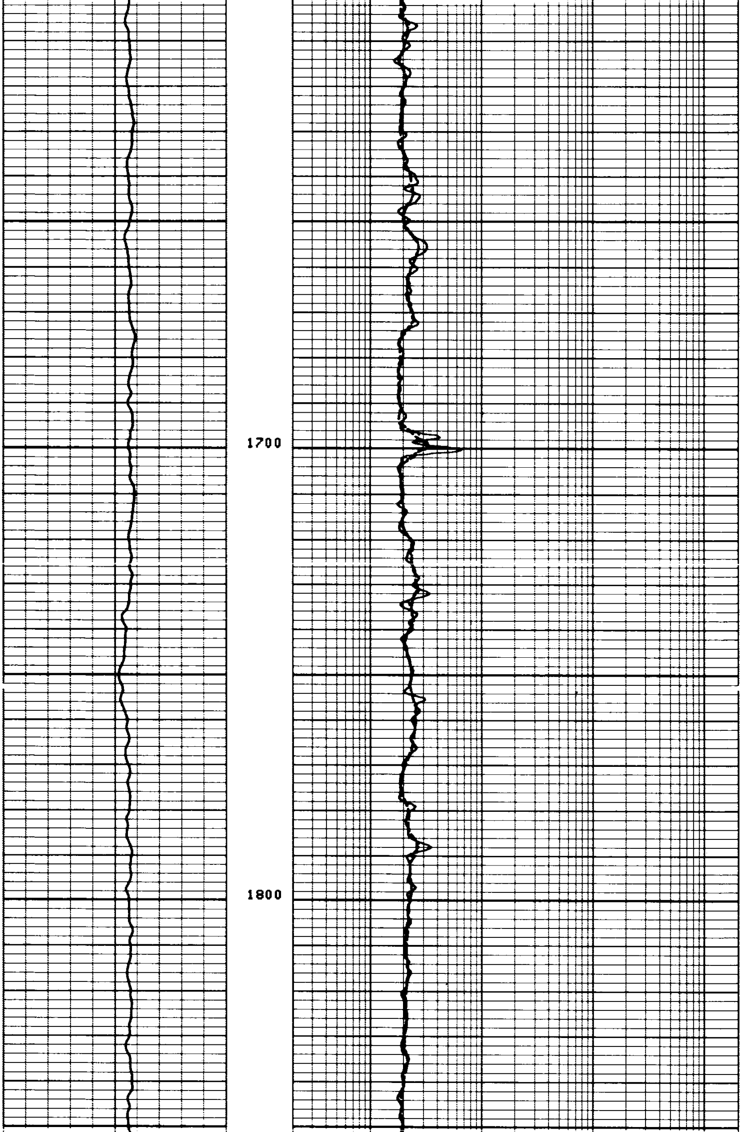


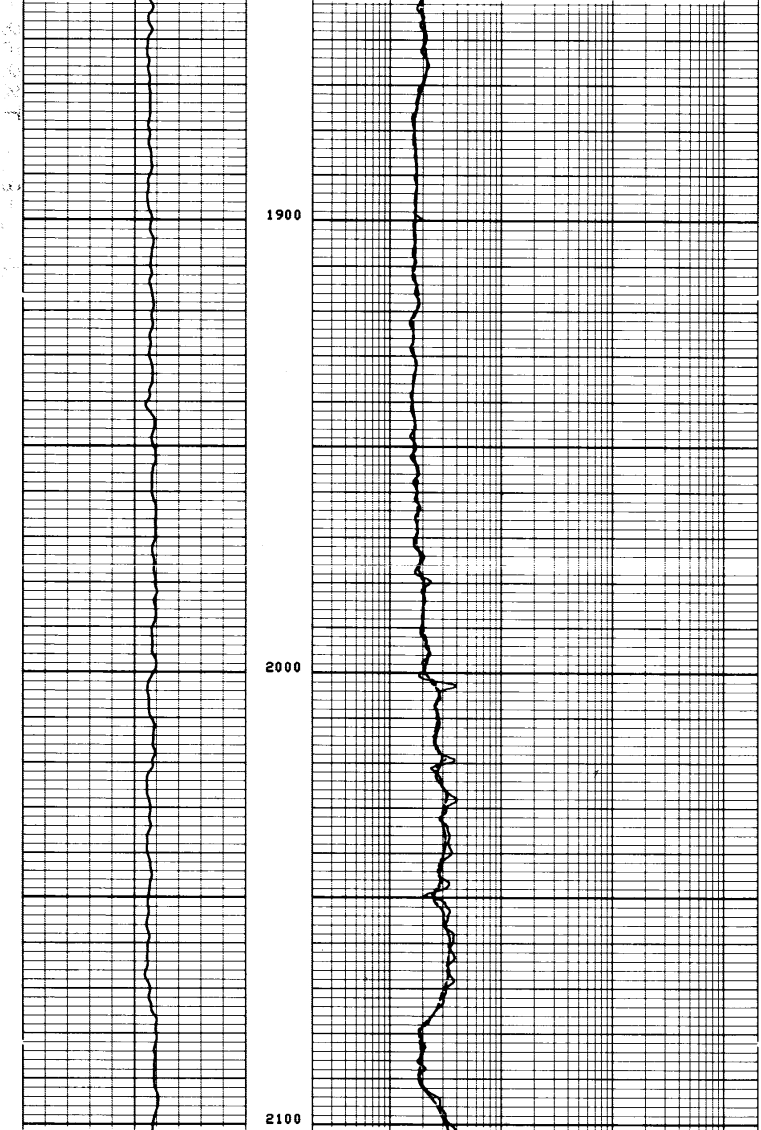


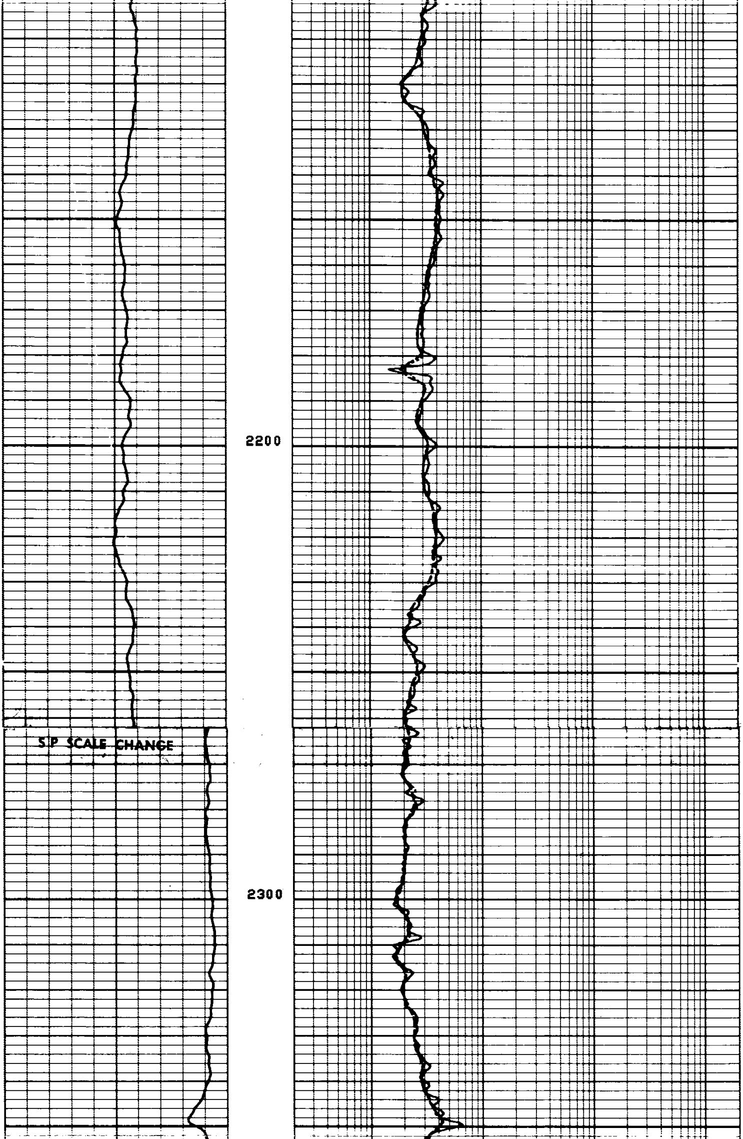


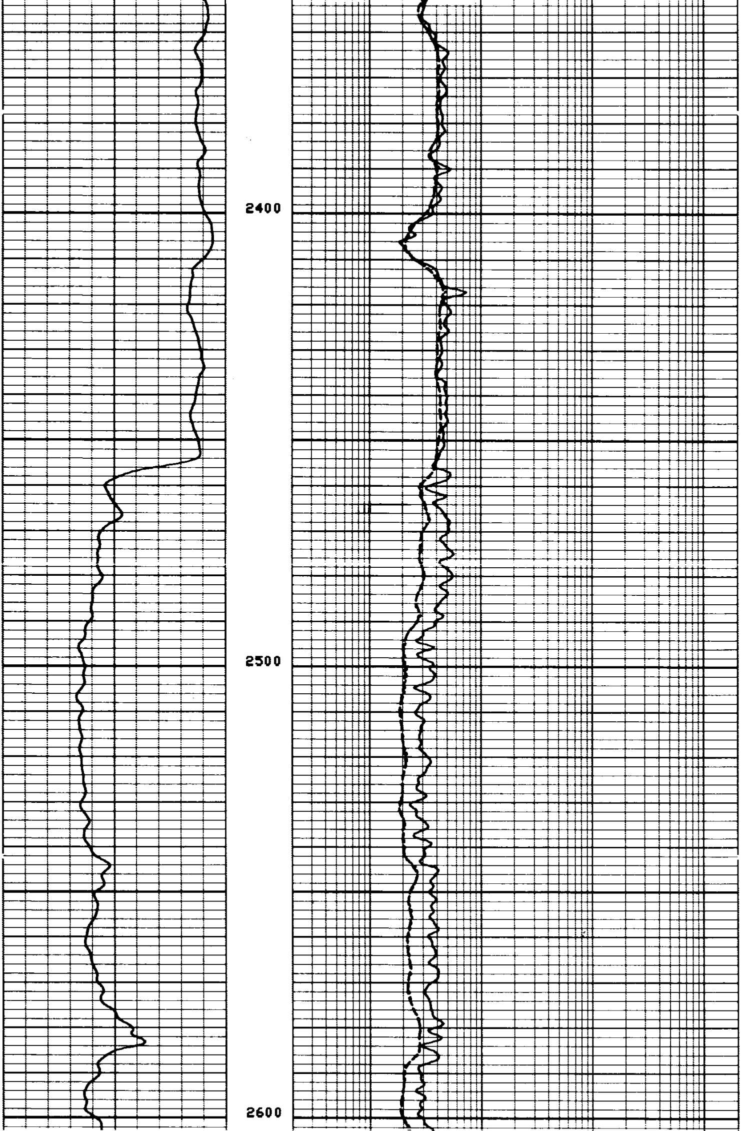


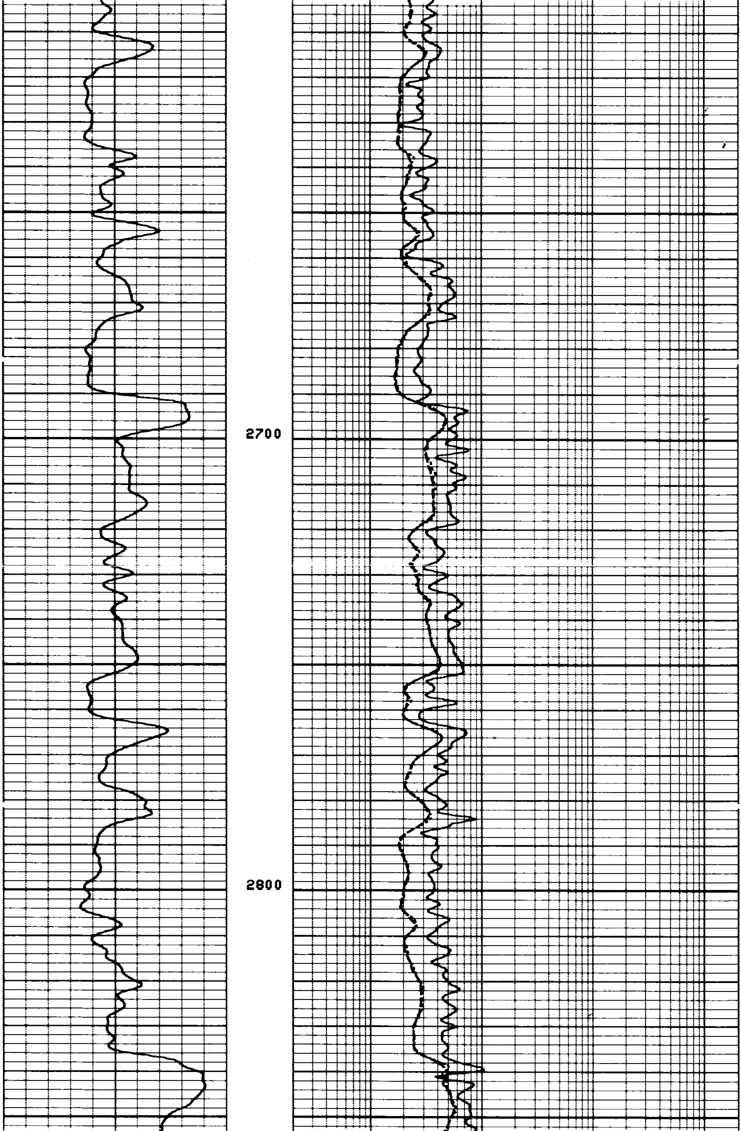


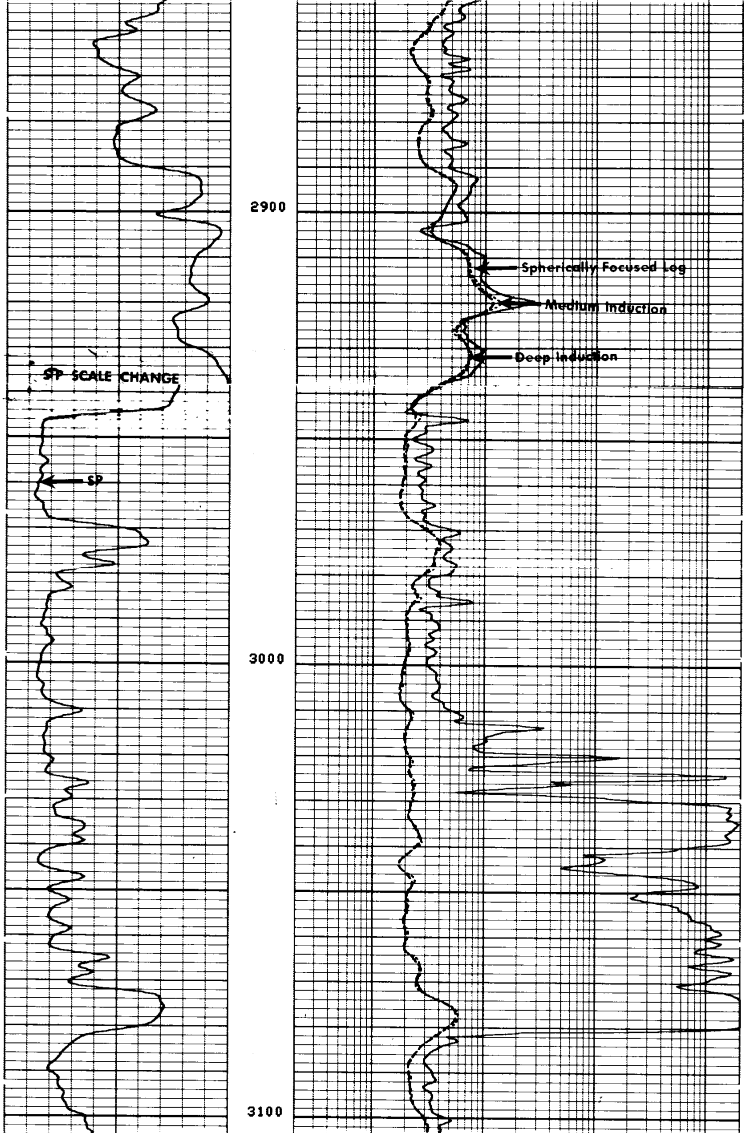


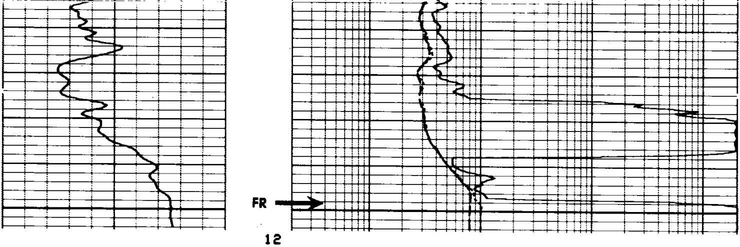






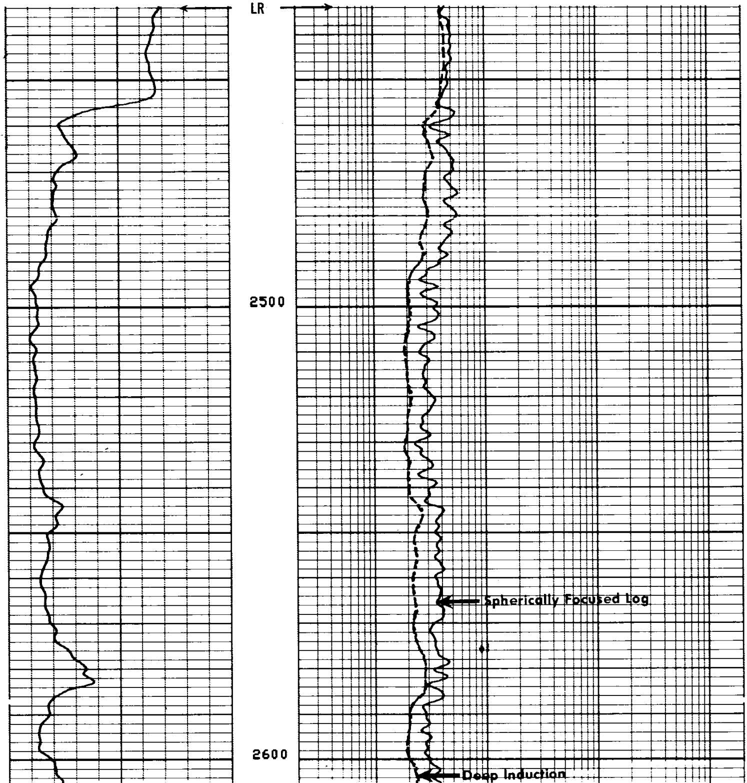


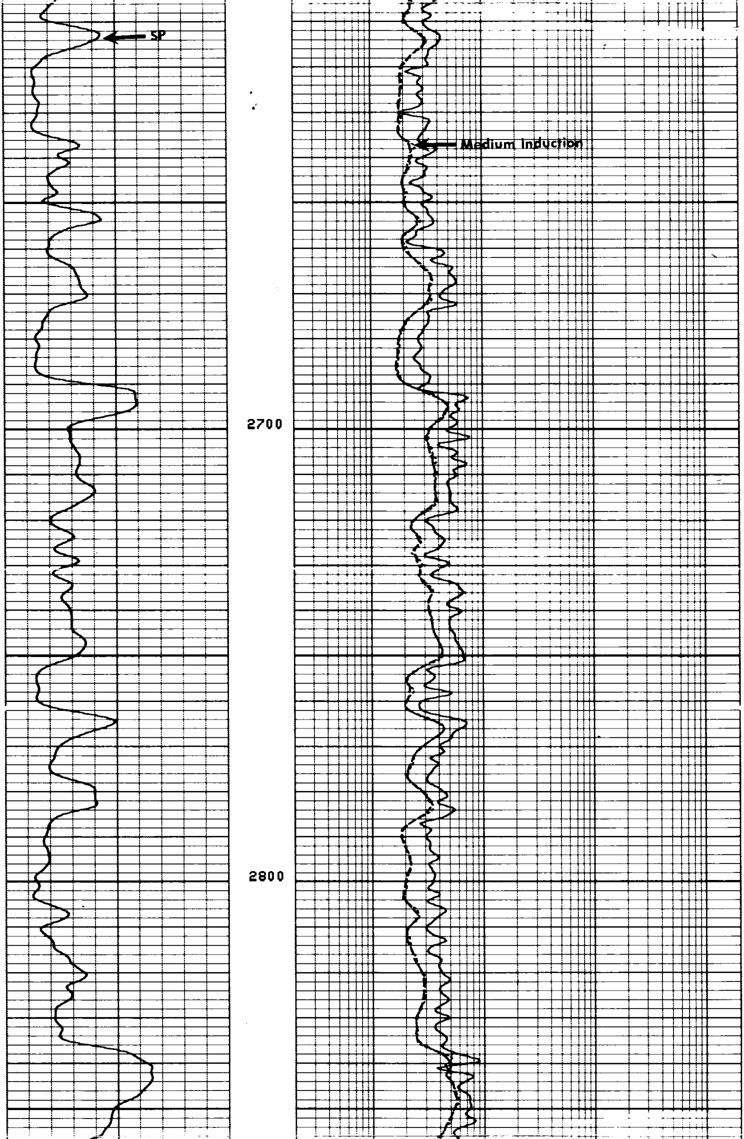


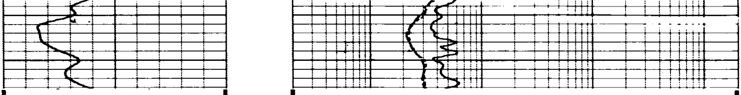


REPEAT SECTION

15







RESISTIVITY OHMS. M²/M

SPHERICALLY FOCUSED LOG
0.2 1.0 10 100 1000 2000

MEDIUM INDUCTION
0.2 1.0 10 100 1000 2000

DEEP INDUCTION
0.2 1.0 10 100 1000 2000

SPONTANEOUS-POTENTIAL

− |10| + MILLIVOLTS

DEPTH

CALIBRATION RECORD

```
                    BEFORE SURVEY CALIBRATION SUMMARY


   PERFORMED:      80/03/03
   PROGRAM FILE:   IS      (VERSION     14.4    79/ 6/ 1)


 DITD                ELECTRONICS CALIBRATION SUMMARY

              MEASURED                        CALIBRATED
            ZERO     PLUS                  ZERO       PLUS          UNITS
    ILD      3.8    583.5                   0.0      499.8           MM/M
    ILM      3.8    648.2                   0.0      499.9           MM/M
    SFL     -1.8    537.5                   0.0      499.9           MM/M

 ILM  SONDE ERROR CORRECTION :         3.2   MM/M
 ILD  SONDE ERROR CORRECTION :         9.8   MM/M
                             4
                             4


                    AFTER SURVEY TOOL CHECK SUMMARY


   PERFORMED:      80/03/03
   PROGRAM FILE:   IS      (VERSION     14.4    79/ 6/ 1)


 DITD                        TOOL  CHECK

                      ZERO                            PLUS
              BEFORE         AFTER            BEFORE       AFTER      UNITS
    ILD         0.0          -0.1             499.8        494.8      MM/M
    ILM         0.0          -0.1             499.9        491.2      MM/M
    SFL         0.0          -0.0             499.9        496.7      MM/M

 ILM  SONDE ERROR CORRECTION :         3.2   MM/M
 ILD  SONDE ERROR CORRECTION :         9.8   MM/M
                            17
                            17

                    SHOP SUMMARY


   PERFORMED:      80/02/10
   PROGRAM FILE:   SHOP    (VERSION     14.4    79/09/05)


 DITD                 ELECTRONICS CALIBRATION SUMMARY

                ELECTRONICS CALIBRATION          SONDE
              MEASURED           CALIBRATED       ERROR     TEST
            ZERO     PLUS      ZERO       PLUS    CORR.     LOOP      UNITS
    ILD      3.0    602.8      0.0       499.8    9.84      589.0     MM/M
    ILM      2.4    637.9      0.0       499.9    3.27      623.5     MM/M

                          (IS:18    , IC:100    )
```

CALIBRATION RECORD

COMPANY REICHHOLD ENERGY CORPORATION
WELL COLUMBIA COUNTY NO. 12
FIELD MIST-NEHALEM BASIN
COUNTY COLUMBIA STATE OREGON

SCHL. FR 3153
SCHL. TD 3159
DRLR. TD 3160

Elev: KB 808.4
DF --
GL 797.65