Schlumberger

DUAL INDUCTION-SFL
WITH LINEAR CORRELATION LOG

COUNTY COLUMBIA
FIELD MIST NEHALEM BASIN
LOCATION 13-6N-5W
WELL WHITE 33-13
COMPANY REICHHOLD ENERGY

COMPANY REICHHOLD ENERGY CORPORATION
WELL WHITE 33-13
FIELD MIST NEHALEM BASIN
COUNTY COLUMBIA **STATE** OREGON

LOCATION 1800'NORTH & 1700'WEST FROM THE SOUTHEAST CORNER OF:

Other Services:
BHC
HDT

API SERIAL NO.	SEC.	TWP	RANGE
	13	6N	5W

Permanent Datum: GL ; Elev.: 555.68
Log Measured From KB 10.5 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 566.18
D.F. --
G.L. 555.68

RECEIVED-PTLD
JUL 1 1980
DEPT OF GEOLOGY & MINERAL INDUS

Date	5-17-80			
Run No.	ONE			
Depth—Driller	2708			
Depth—Logger (Schl.)	2705			
Btm. Log Interval	2699			
Top Log Interval	406			
Casing—Driller	7" @ 407	@	@	@
Casing—Logger	406			
Bit Size	6¼"			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	74 | 45			
pH | Fluid Loss	10.5 | 8 ml	ml	ml	ml
Source of Sample	CIRCULATION			
Rm @ Meas. Temp.	1.90 @ 70°F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.32 @ 64°F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.30 @ 80°F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M			
Rm @ BHT	1.04 @ 93 °F	@ °F	@ °F	@ °F
TIME: Circulation Stopped	0615 5/17			
TIME: Logger on Bottom	0830 5/17			
Max. Rec. Temp.	93 °F	°F	°F	°F
Equip. | Location	7763 | SAC			
Recorded By	ANDERSEN			
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.	123995			
Fluid Level	FULL			
Salinity ppm. cl	--			
Speed F.P.M.	100			

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

EQUIPMENT DATA

Panel No.	435			
Cartridge No.	215			
Sonde No.	195			
Mem. Panel No.	293			
G.R. Panel No.	--			
G.R. Cart No.	--			
Tape Recorder - (TTR)	1940			
Depth Encoder - (DRE)	2733			
Pressure Wheel - (CPM)	--			
Type Centralizers	--			
Stand Off - Inches	0			

REMARKS

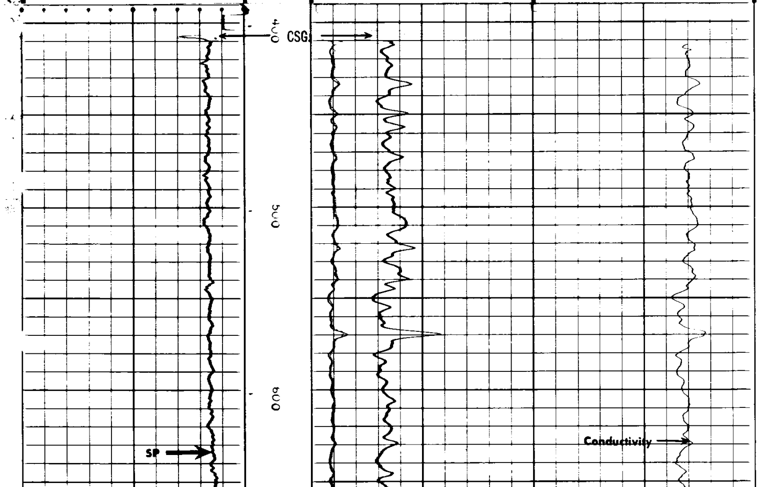
CALIBRATION DATA

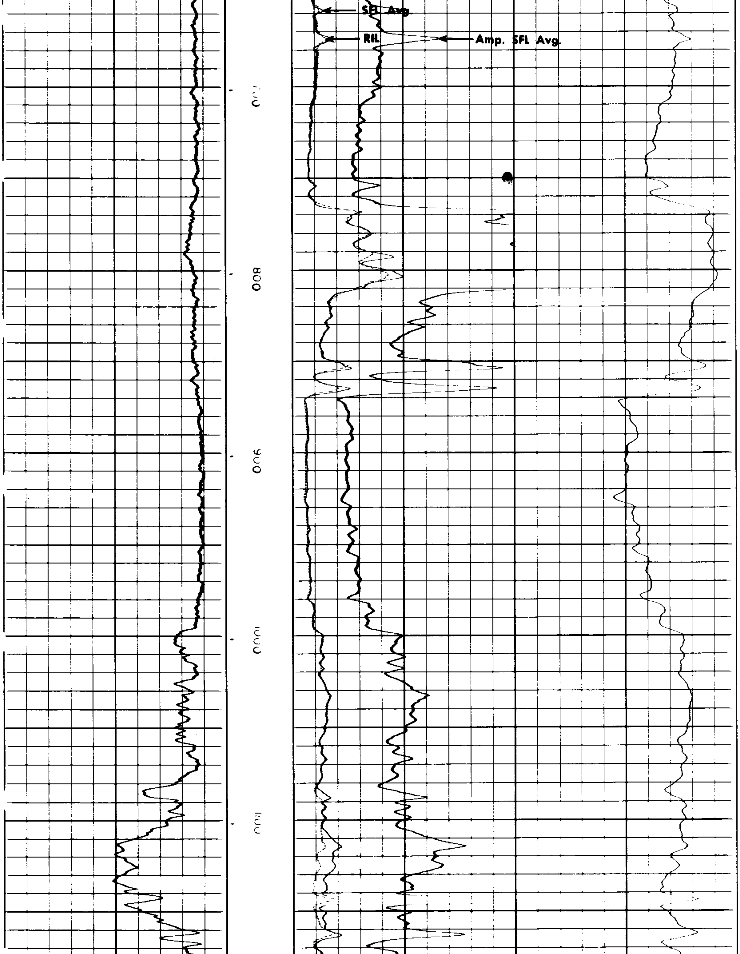
SBR	1.0			
Sonde Error - ILM	4.08			
Sonde Error - ILD	5.25			
G.R. BKG. - CPS.	--			
G.R. Source - CPS.	--			
S.E. Set In Hole - Depth	--			
S.E. Corr. - Hole Size	---			

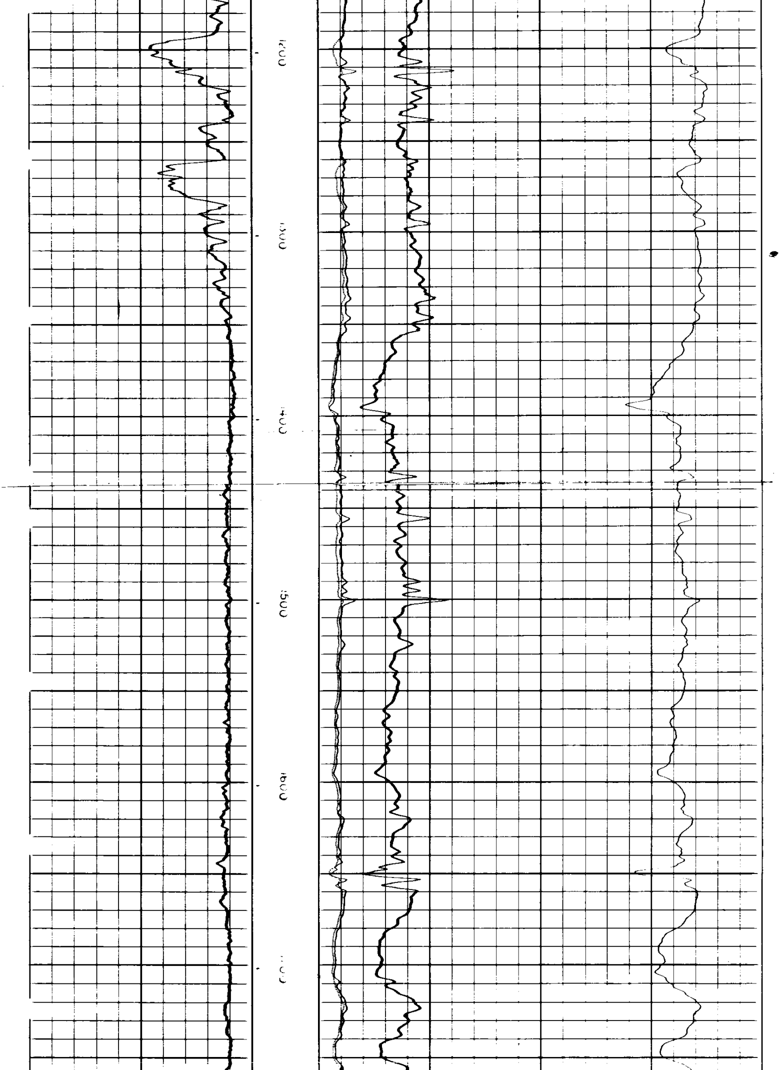
LOGGING DATA				
SBR	1.0			
Sonde Error Log - ILM	4.08			
Sonde Error Log - ILD	5.25			
G.R. Scale per 100 Div.	--			
G.R. - T.C. Log	--			
	°F	°F	°F	°F
	°F	°F	°F	°F
	°F	°F	°F	°F

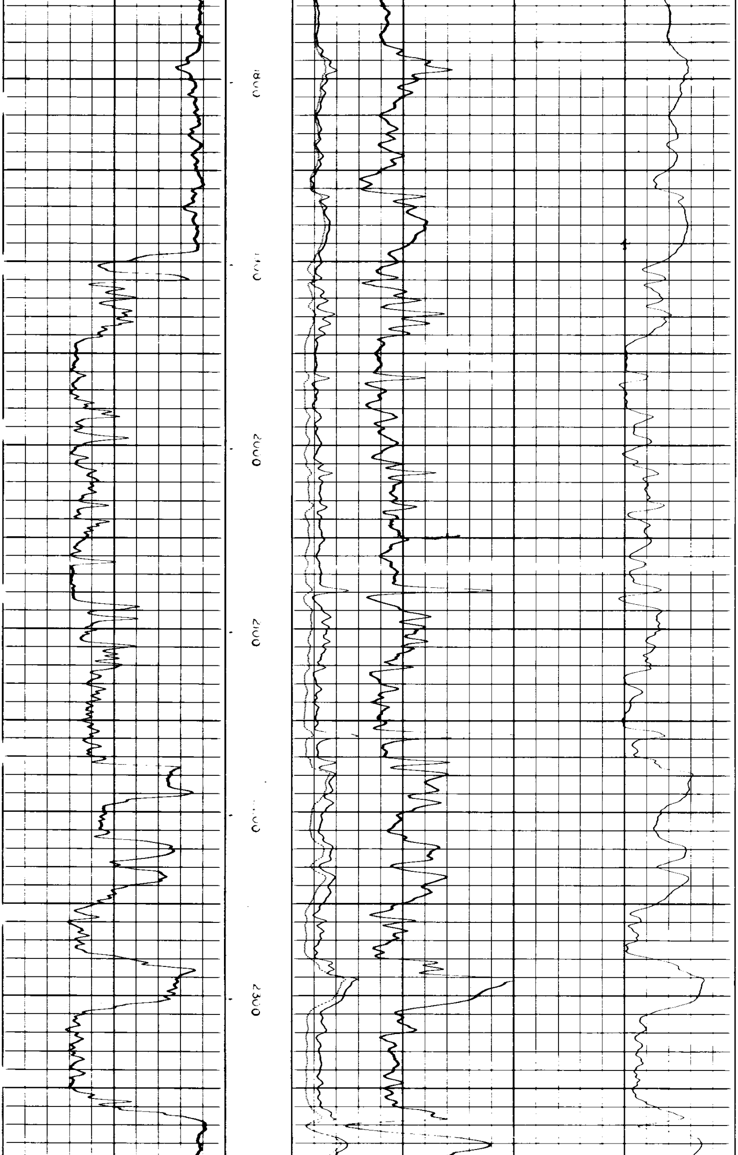
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

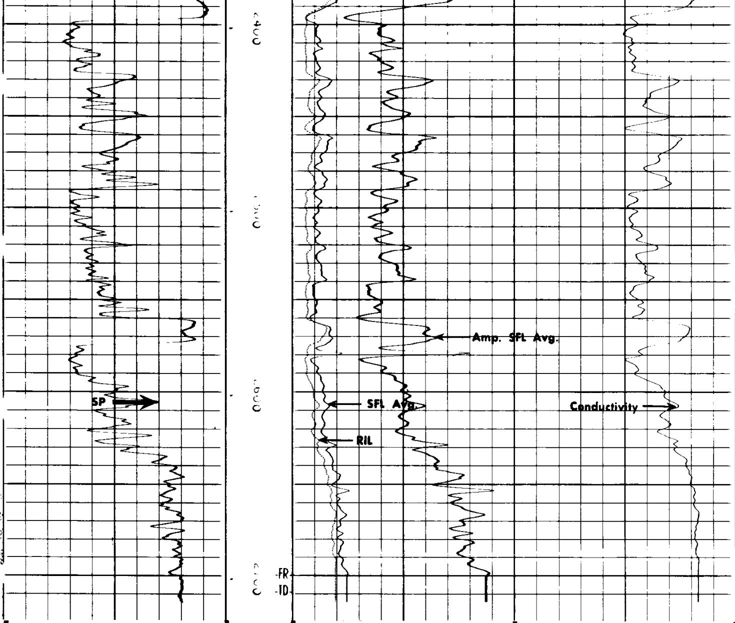
SPONTANEOUS POTENTIAL	DEPTH	RESISTIVITY OHMS. M²/M	CONDUCTIVITY MILLIMHOS/M
– 10 + MILLIVOLTS		DEEP INDUCTION R_{ILD} 0 30 0 300 SPHERICALLY FOCUSED LOG R_{SFL} 0 30 0 300 AMP. SPHERICALLY FOCUSED LOG 0 6	DEEP INDUCTION 1000 0











SPONTANEOUS-POTENTIAL

— |←10→| + MILLIVOLTS

DEPTH

RESISTIVITY OHMS. M²/M

DEEP INDUCTION

R_{ILD}

0 - - - - - - - - - - 30

0 - - - - - - - - - - 300

SPHERICALLY FOCUSED LOG

R_{SFL}

0 30

0 300

AMP. SPHERICALLY FOCUSED LOG

0 6

CONDUCTIVITY MILLIMHOS/M

DEEP INDUCTION

1000 0

COMPANY REICHHOLD ENERGY CORPORATION

WELL WHITE 33-13

FIELD MIST NEHALEM BASIN

COUNTY COLUMBIA STATE OREGON

SCHL. FR 2699

SCHL. TD 2705

DRLR. TD 2708

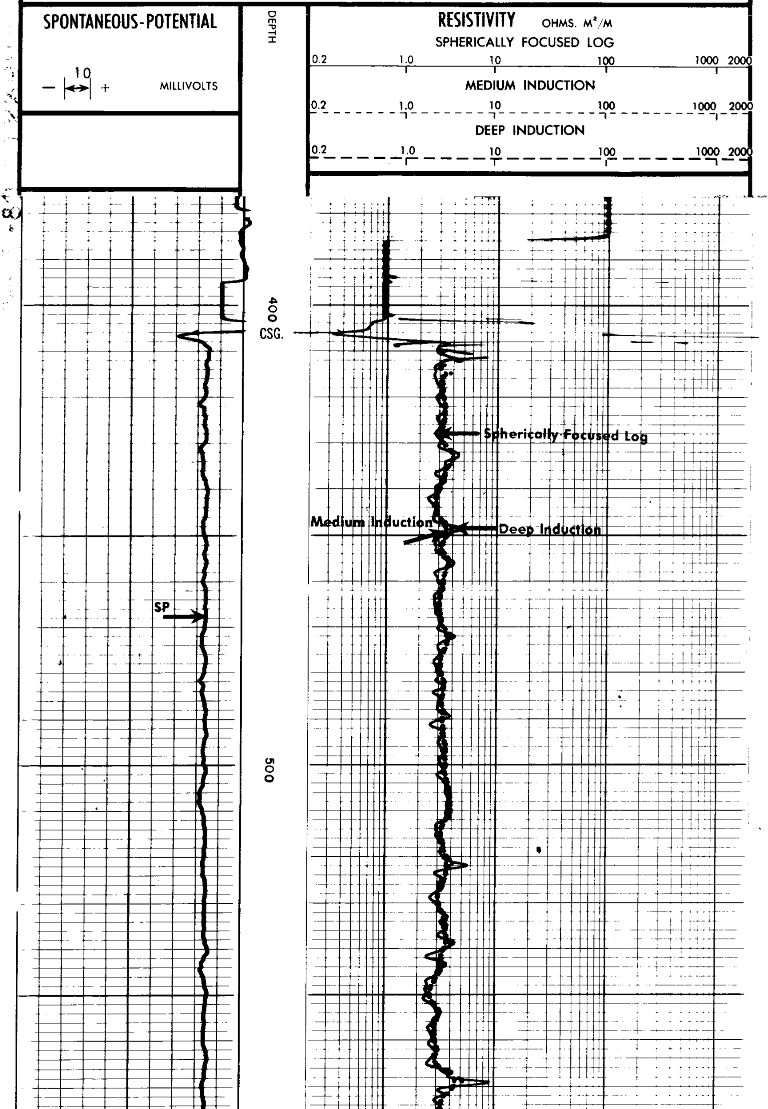
Elev: KB 566.18

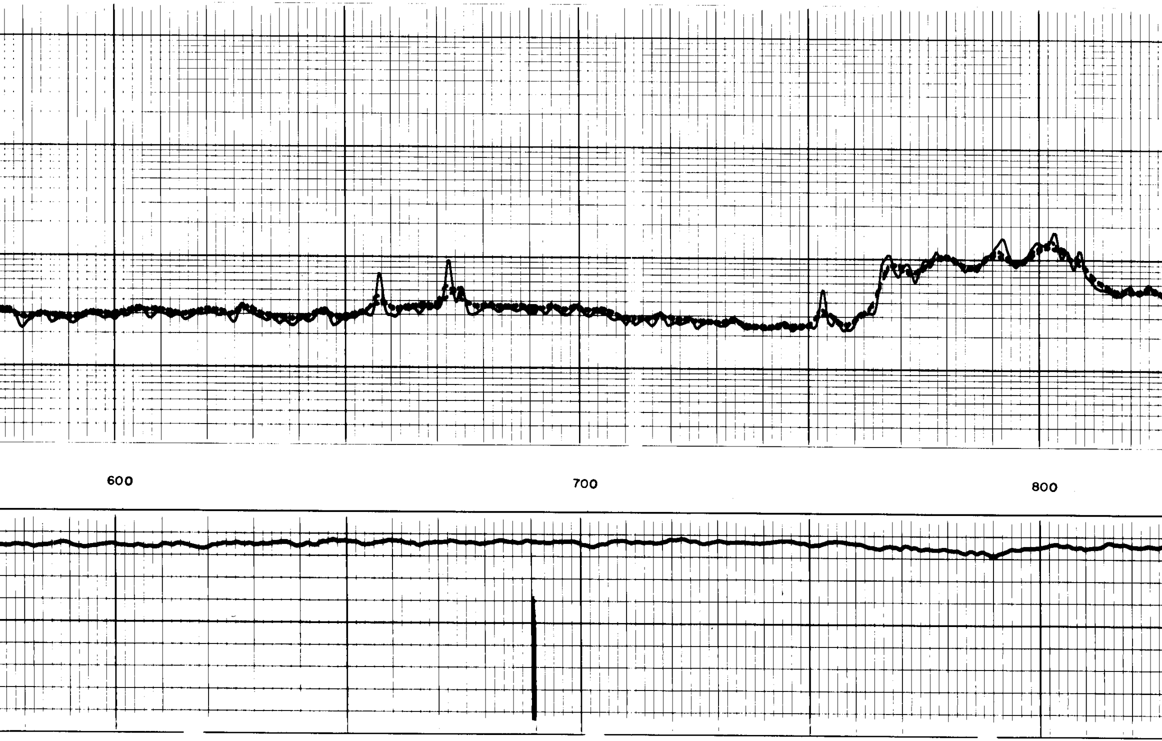
DF --

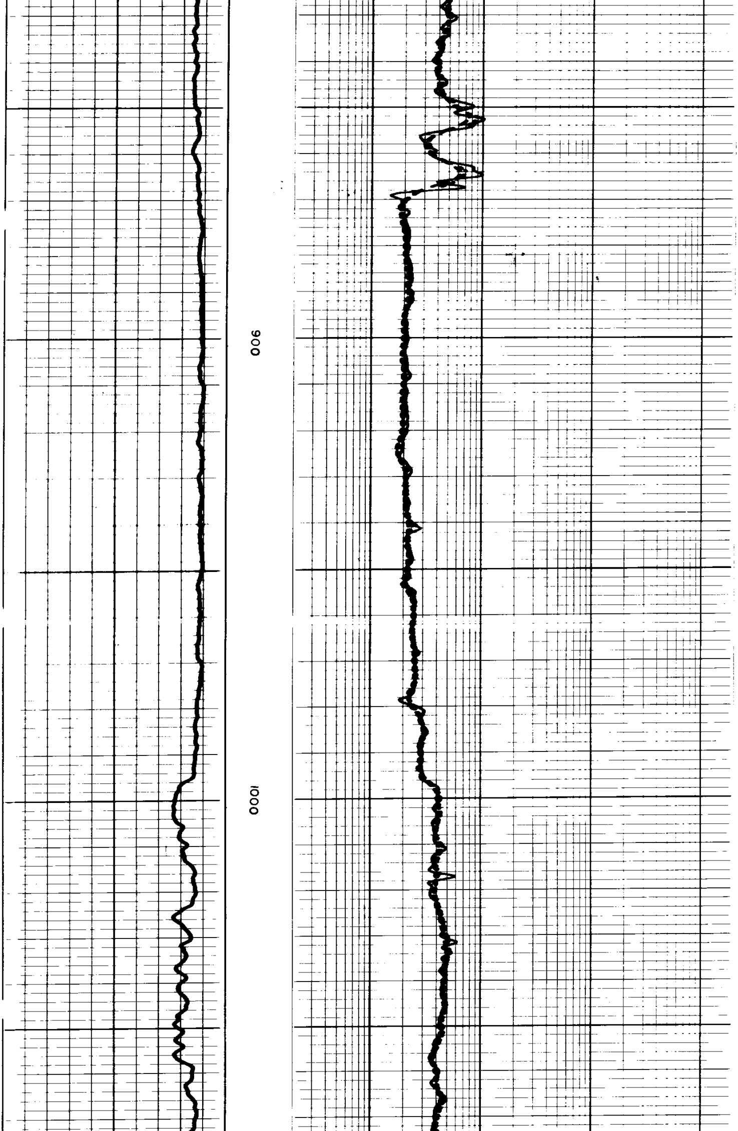
GL 555.68

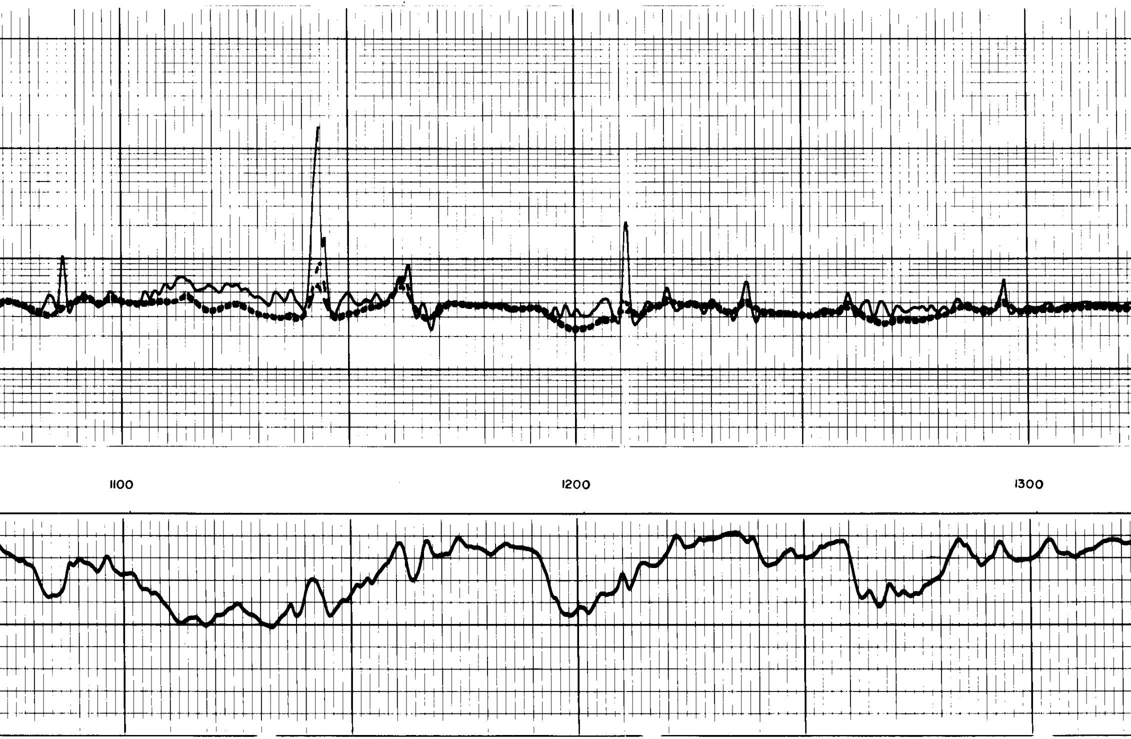
DETAIL LOG

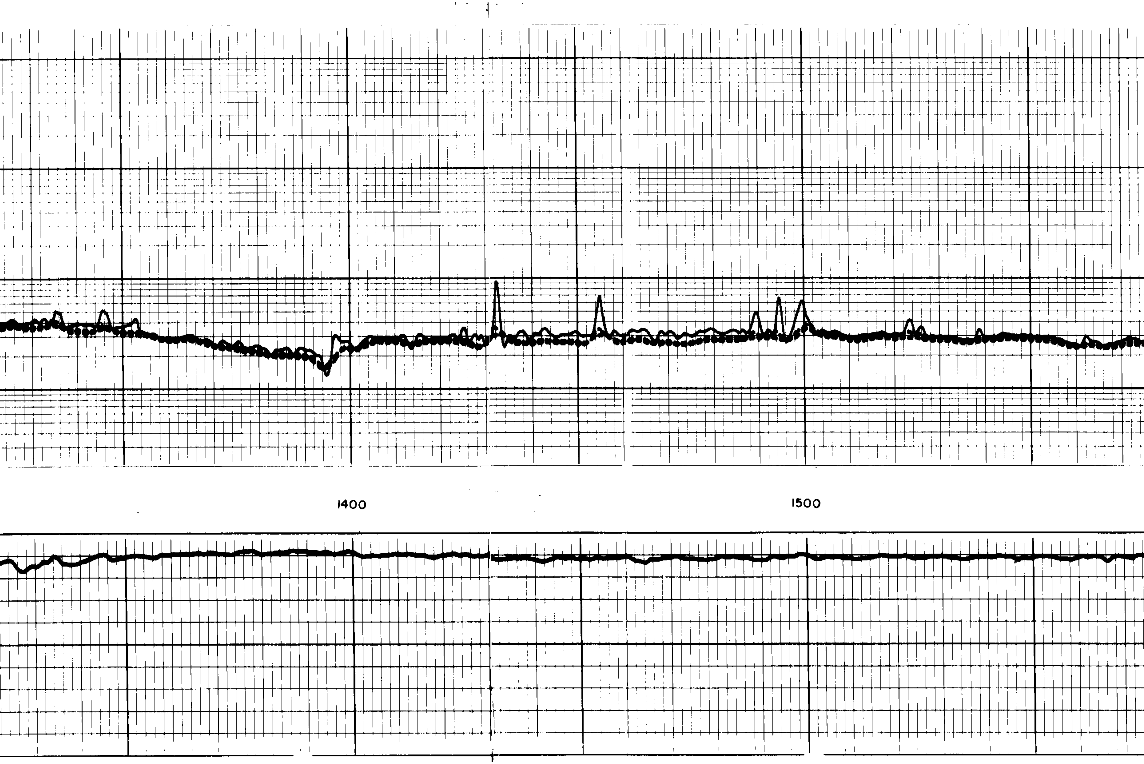
5″ 100′

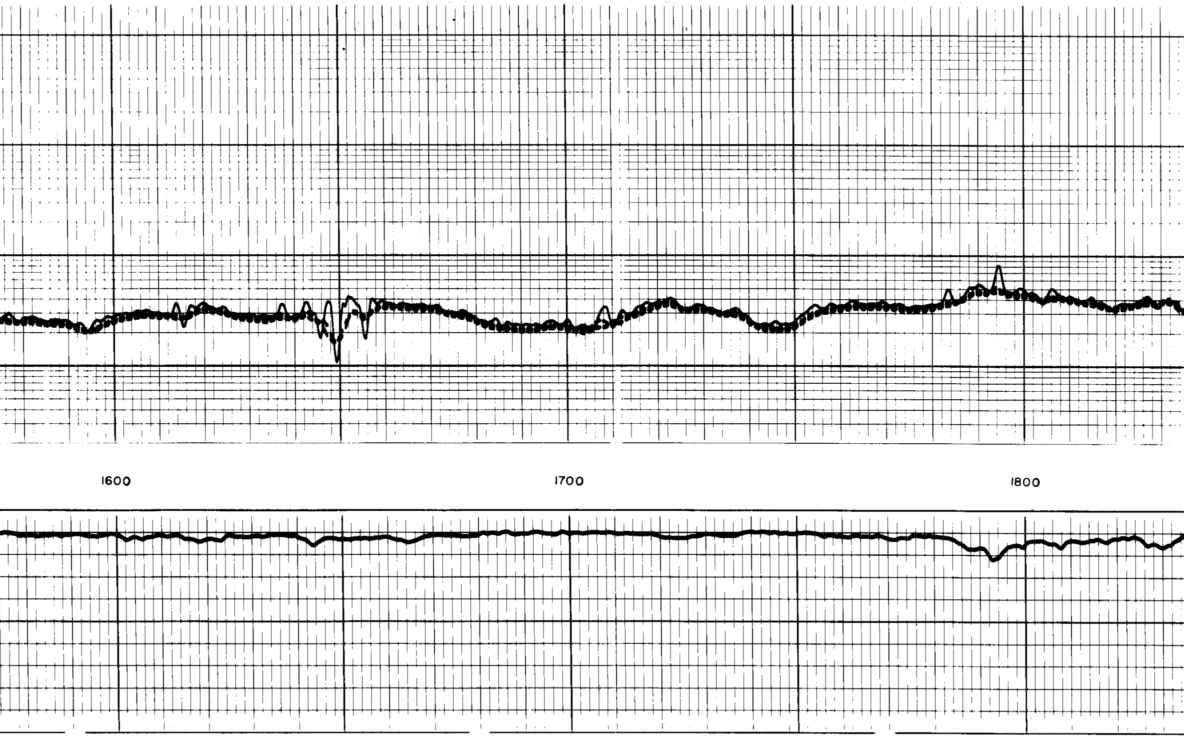


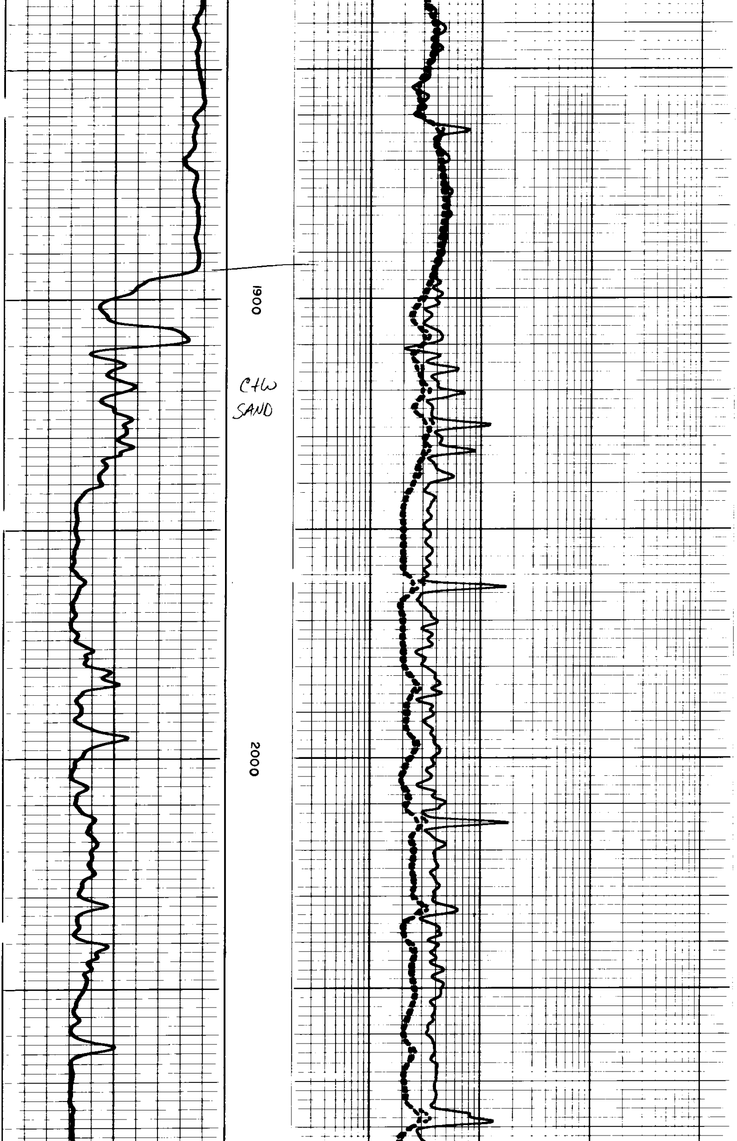


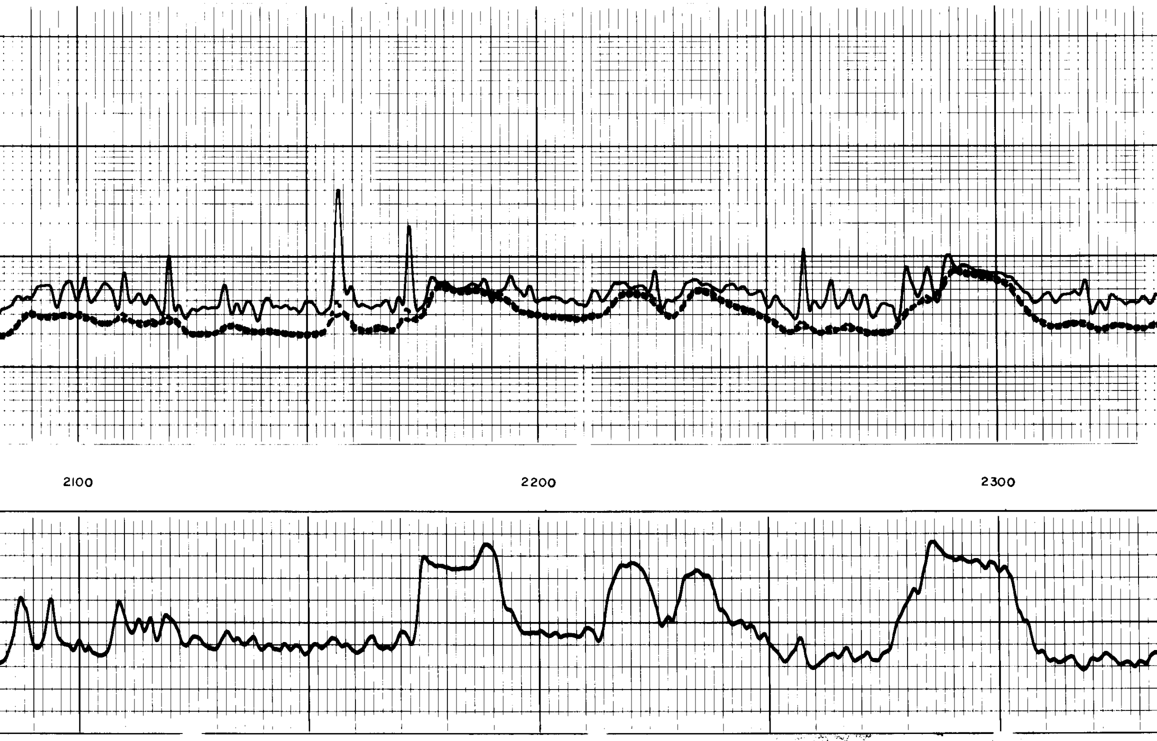


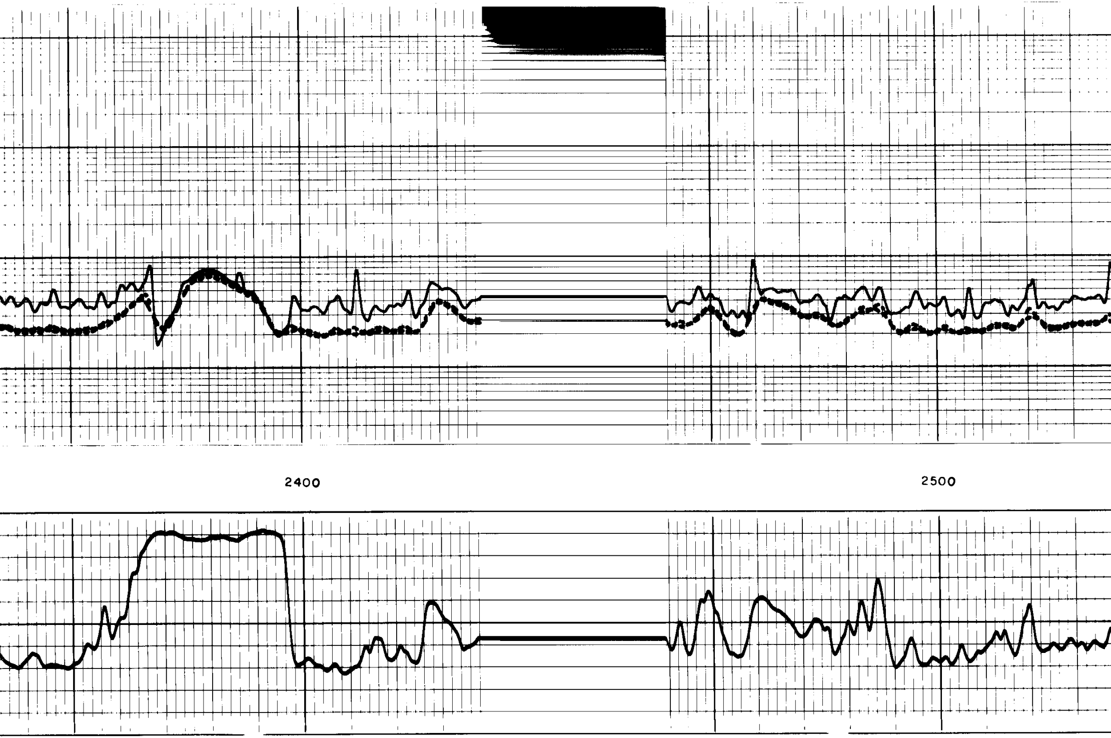


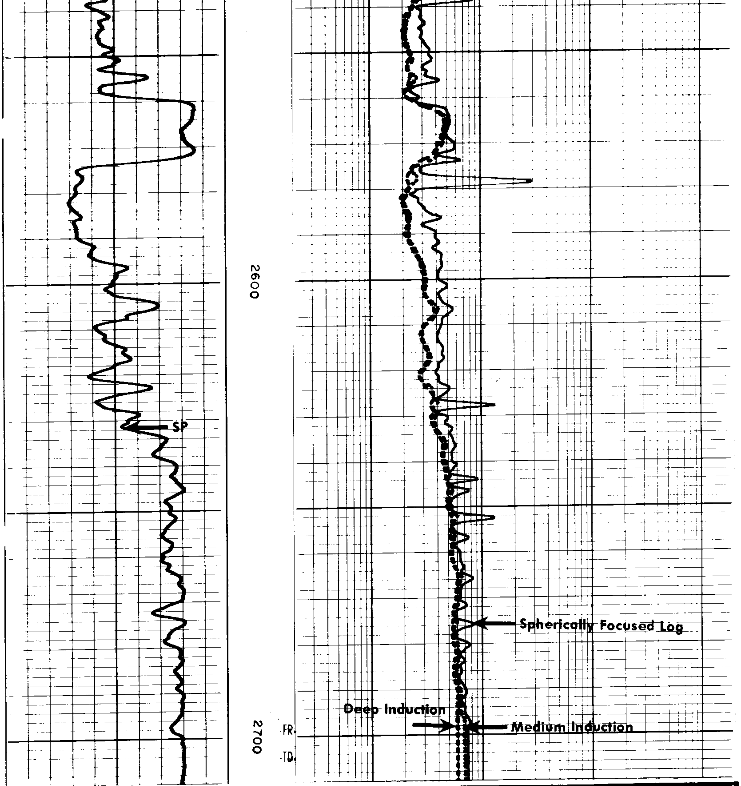




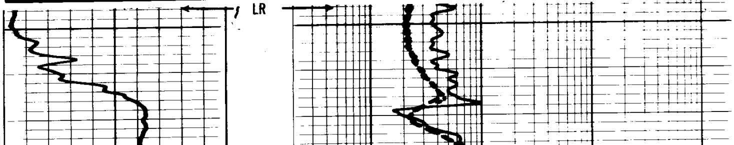


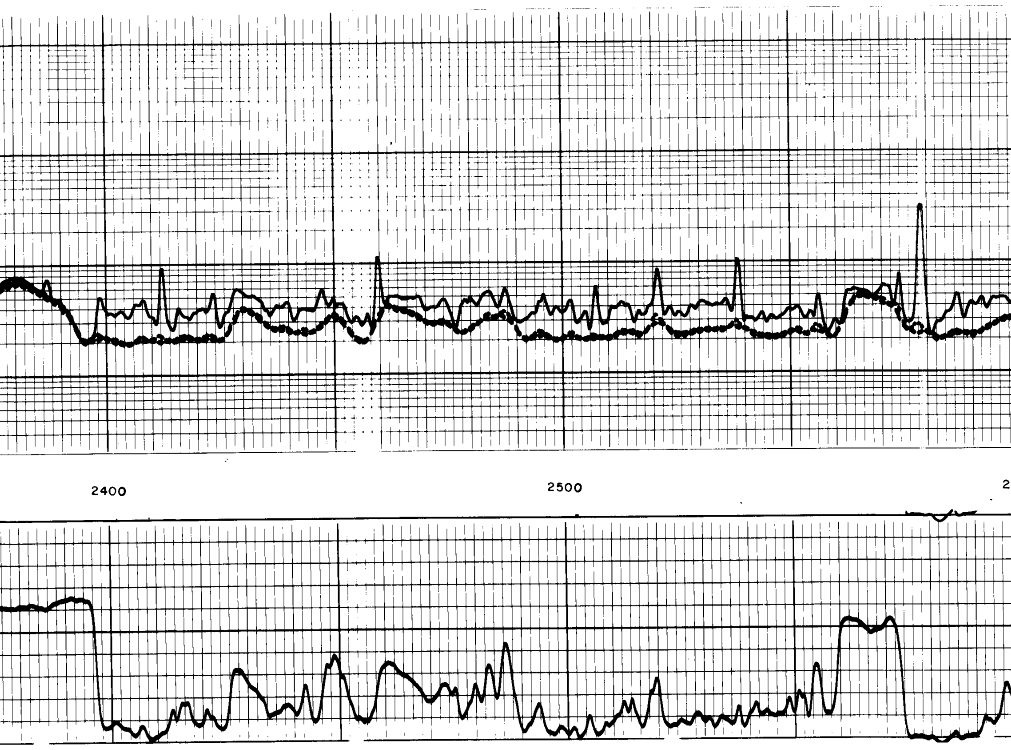


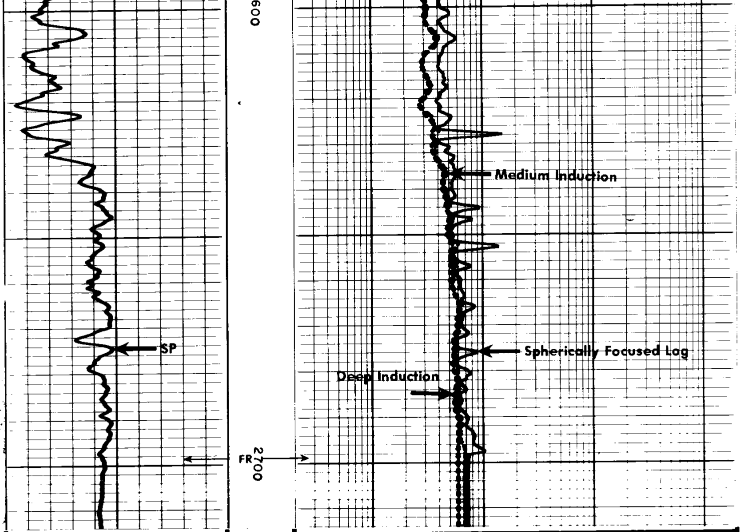




REPEAT SECTION







RESISTIVITY OHMS. M^2/M

SPHERICALLY FOCUSED LOG

0.2 1.0 10 100 1000 2000

MEDIUM INDUCTION

0.2 1.0 10 100 1000 2000

DEEP INDUCTION

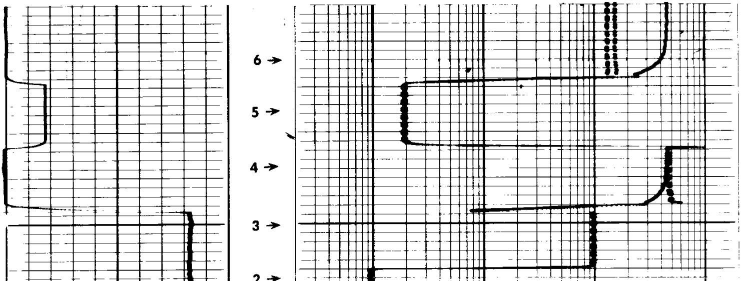
0.2 1.0 10 100 1000 2000

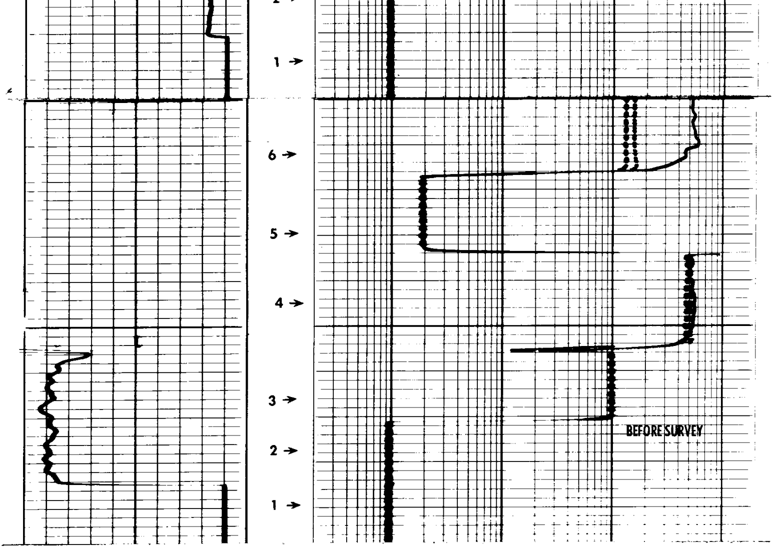
SPONTANEOUS-POTENTIAL

— |←10→| + MILLIVOLTS

DEPTH

CALIBRATION RECORD





```
                  SHOP SUMMARY


   PERFORMED:        80/05/05
   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    3.9     568.1       0.0       499.8   5.25       554.7     MM/M
     ILM    2.8     542.4       0.0       499.9   4.09       521.5     MM/M

                        (IS:195   , IC:217   )
```

CALIBRATION RECORD

COMPANY REICHHOLD ENERGY CORPORATION

WELL WHITE 33-13

FIELD MIST NEHALEM BASIN

COUNTY COLUMBIA STATE OREGON

SCHL. FR 2699

SCHL. TD 2705

DRLR. TD 2708

Elev: KB 566.18

DF --

GL 555.68

SWS-2517