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MAR 10 1980

Welex

5"=100'

INDUCTION • ELECTRIC LOG

COMPANY OREGON NATURAL GAS DEVELOPMENT CORP.
WELL CROWN ZELLERBACH NO.1
FIELD TILLAMOOK AREA
County TILLAMOOK State ORE.

COMPANY OREGON NATURAL GAS CEVELOPMENT CORP.
WELL CROWN ZELLERBACH NO.1
FIELD TILLAMOOK AREA
COUNTY TILLAMOOK STATE OREGON

Location
1714' SOUTH & 2059' EAST OF THE NORTHWEST CORNER OF:
Sec. 13 Twp. 2S Rge. 10W

Other Services:
C/AVL
DIP
SWC

Permanent Datum G.L. Elev. 199.7
Log Measured From K.B. OR 10.8 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 210.5
D.F.
G.L. 199.7

Date	1-6-80			
Run No.	ONE			
Depth—Driller	6158			
Depth—Welex	6149			
Btm. Log Inter.	6143			
Top Log Inter.	666			
Casing—Driller	8 5/8 @ 667	@	@	@
Casing—Welex	666			
Bit Size	7 7/8			
Type Fluid in Hole	LIGNOSULF			
Dens. I Visc.	79 I 51	I	I	I
pH I Fluid Loss	10.5 I 3.8 ml	I ml	I ml	I ml
Source of Sample	CIRCULATED			
R_m @ Meas. Temp.	2.88 @ 38 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.57 @ 38 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	3.06 @ 38 °F	@ °F	@ °F	@ °F
Source R_{mf} R_{mc}	MEASURED	I	I	I
R_m @ BHT	0.76 @ 143 °F	@ °F	@ °F	@ °F
Time Since Circ.	3 1/2 HRS.			
Max. Rec. Temp.	143 °F @ BHT.	°F @	°F @	°F @
Equip. I Location	9430 I WOODLAND	I	I	I
Recorded By	DOVE			
Witnessed By	McBURNIE, CLARE.			

Fold Here

Service Ticket No 048984 Remarks:

Change in Mud Type or Additional Samples

Date | Sample No.	I	I
Depth—Driller		
Type Fluid in Hole		
Dens. | Visc.	I	I
ph | Fluid Loss	I ml	I
Source of Sample		
R_m @ Meas. Temp.	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F
Source: R_{mf} | R_{mc}	I	I
R_m @ BHT	0.76 @ 143 °F	@ °F
R_{mf} BHT	0.68 @ 143 °F	@ °F
R_{mc} BHT	0.81 @ 143 °F	@ °F

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

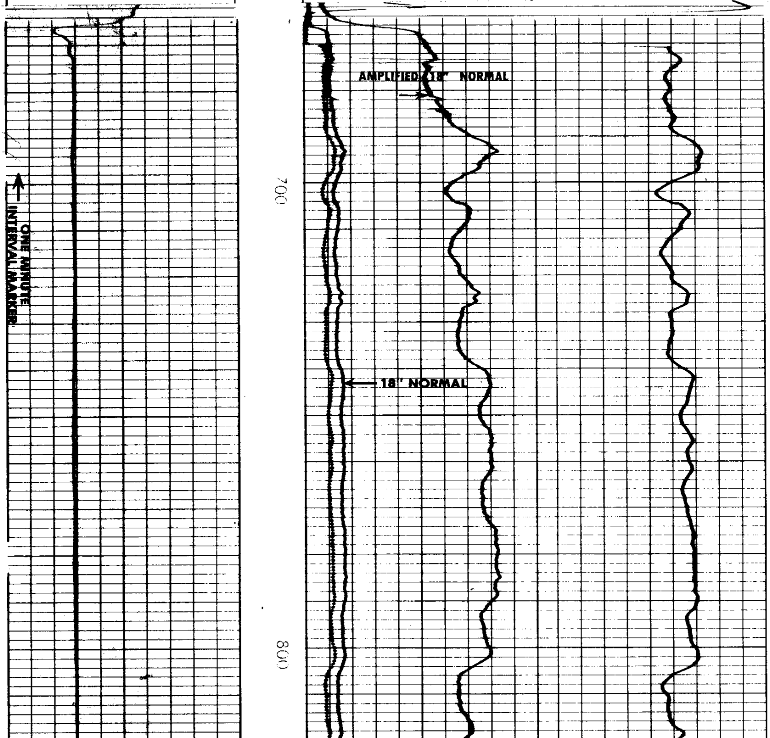
EQUIPMENT DATA

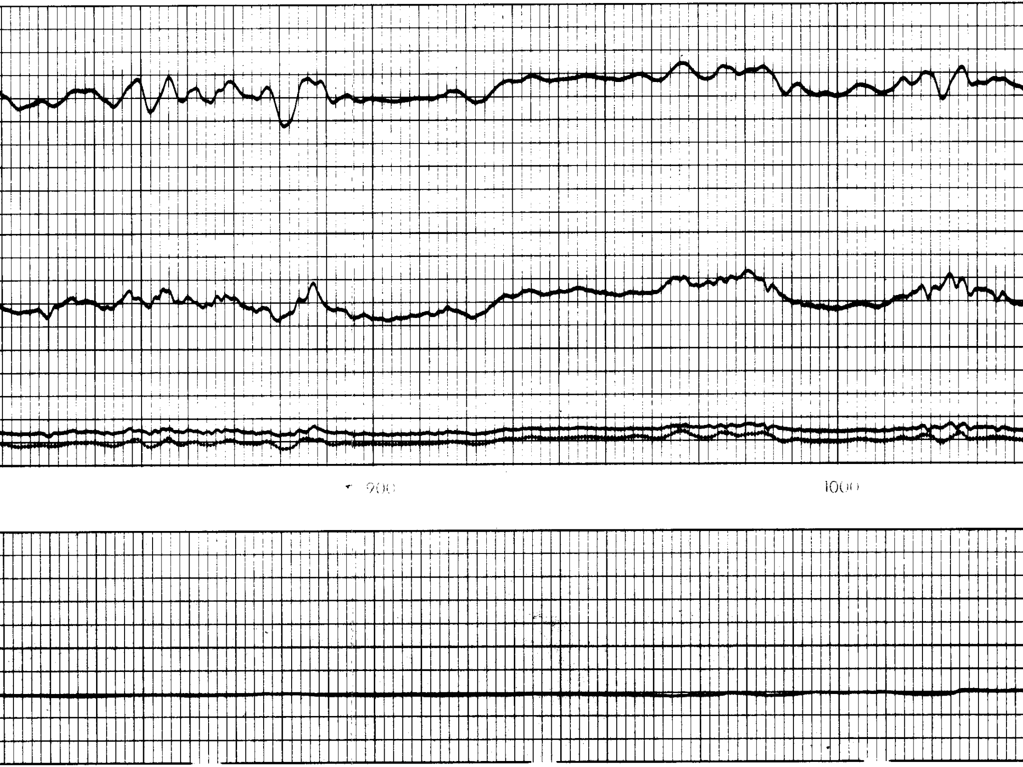
Run No.	Tool Type and No.	Pad Type	Tool Position	Other
ONE	IEL-11242		S.0.1 1/2	

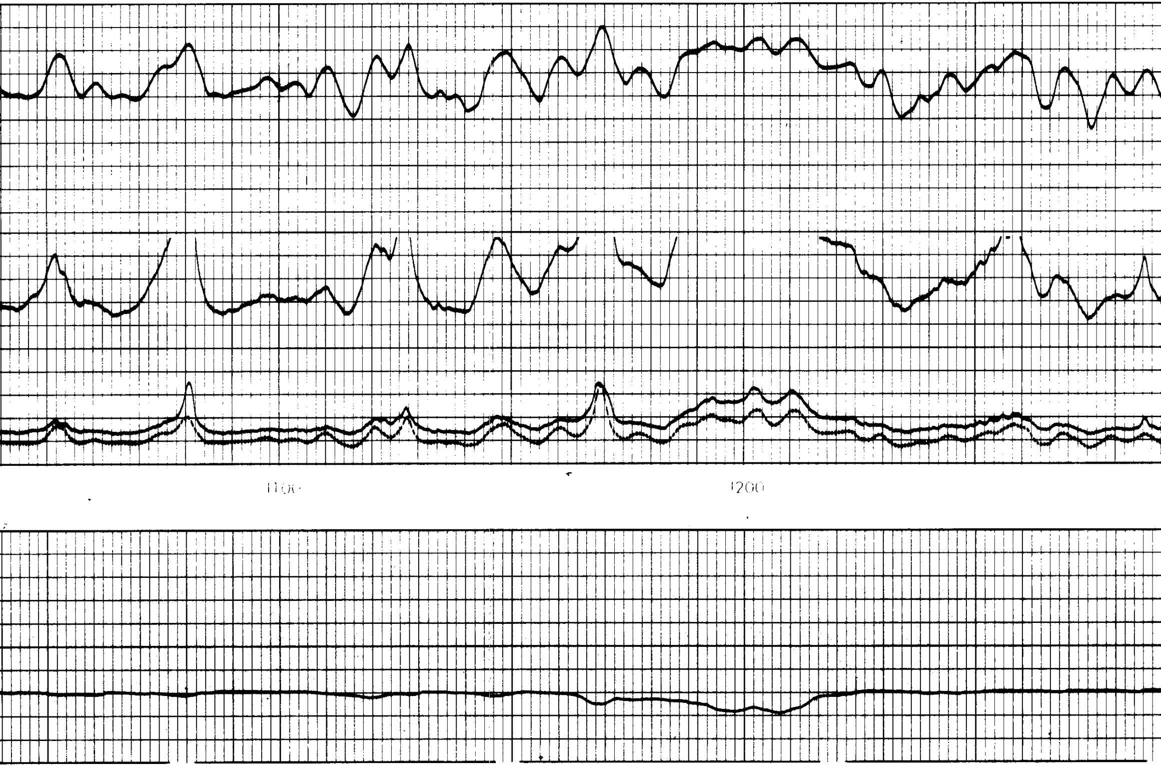
Welex does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions, or recommendations agrees that Welex is not responsible, except where due to gross negligence or wilful misconduct, for any loss, damages, or expenses resulting from the use thereof.

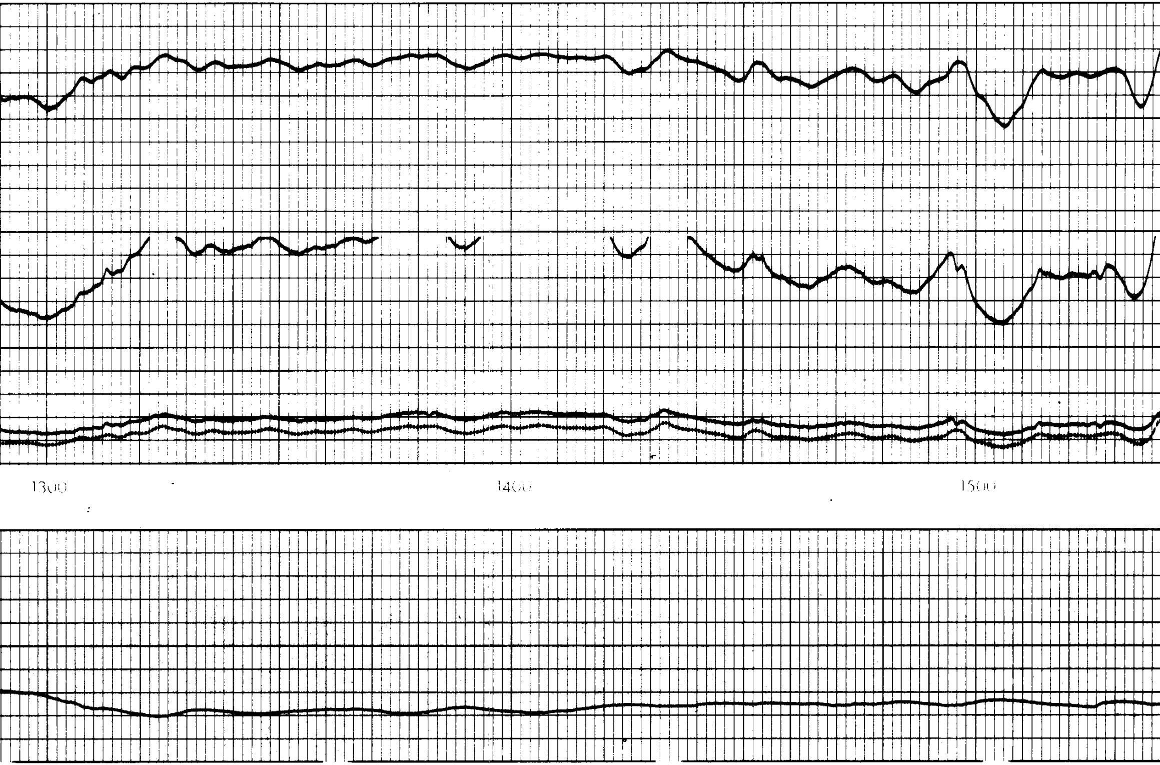
5" = 100'

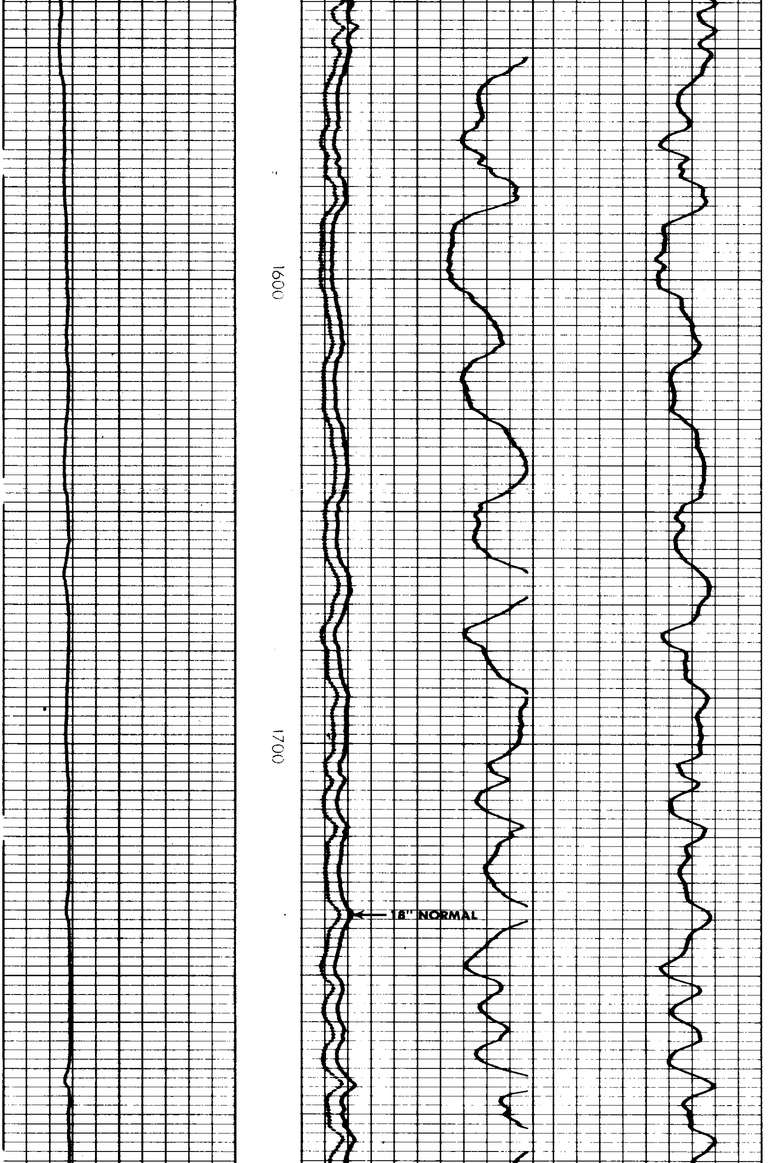
POTENTIAL MILLIVOLTS	RESISTIVITY OHMS M^2/M			CONDUCTIVITY M MHOS/M		
– → 10 ← +	0	18" Normal	30	1000	Induction	0
	0	0.S.	300	2000	0.S.	1000
Rmf______ at ______ °F.	0	18" AMPL NORMAL	6			
	0	Induction	30			
	0	0.S.	300			

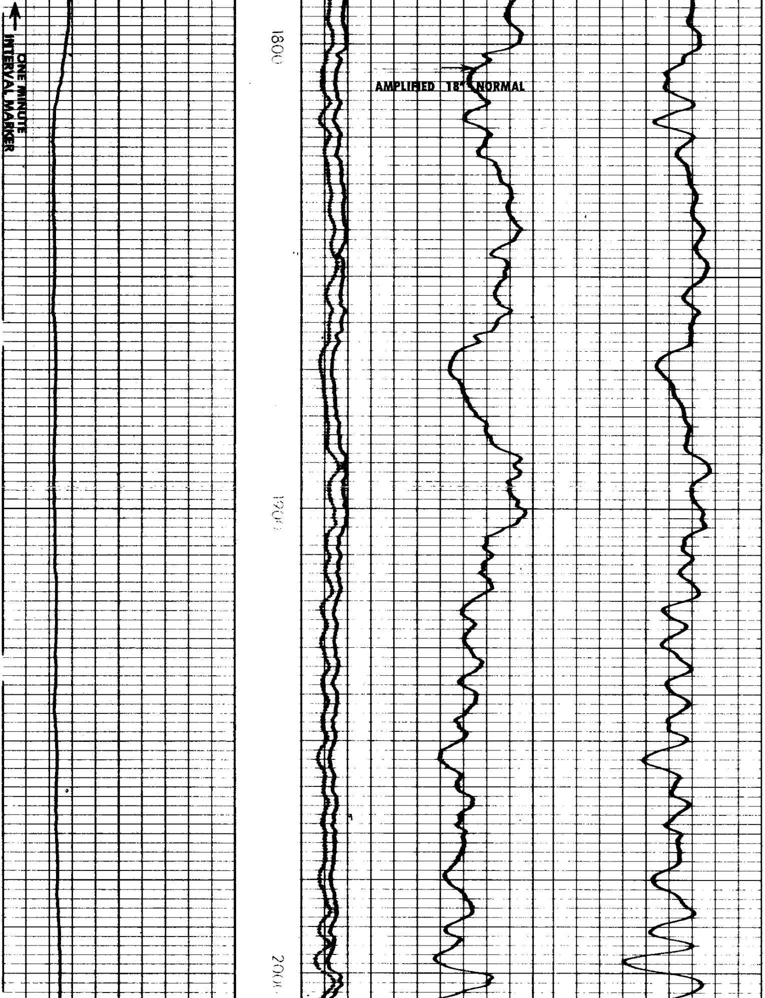


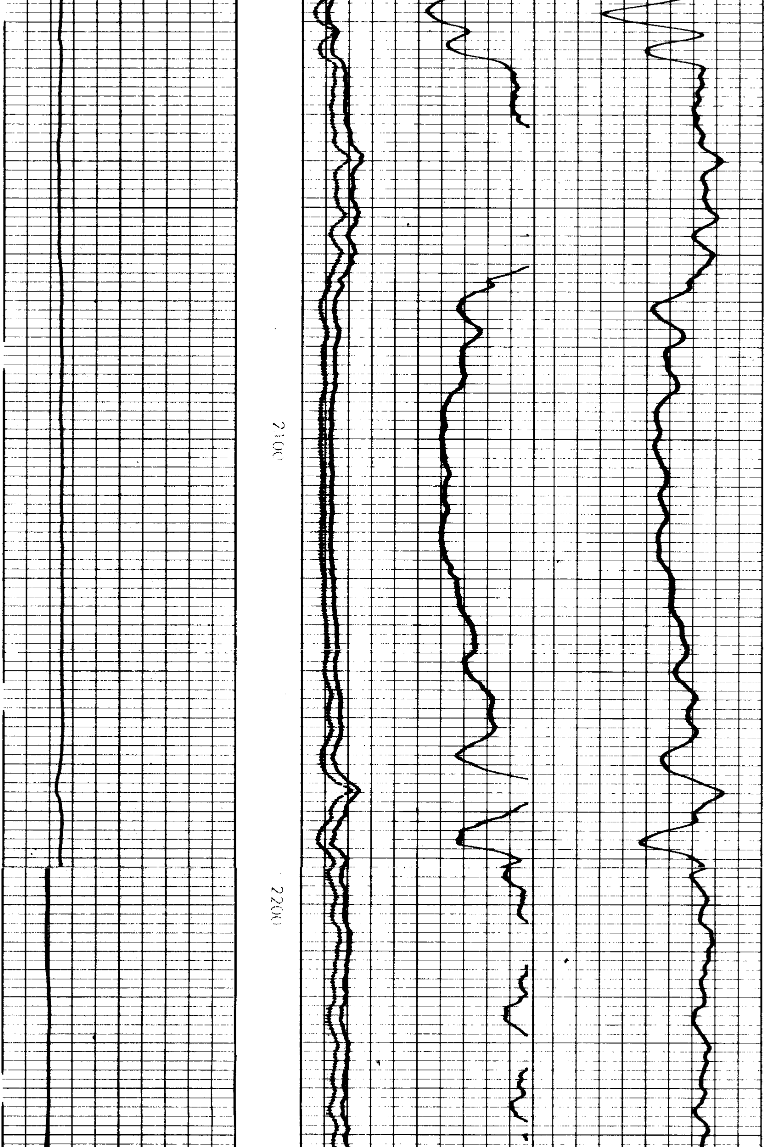


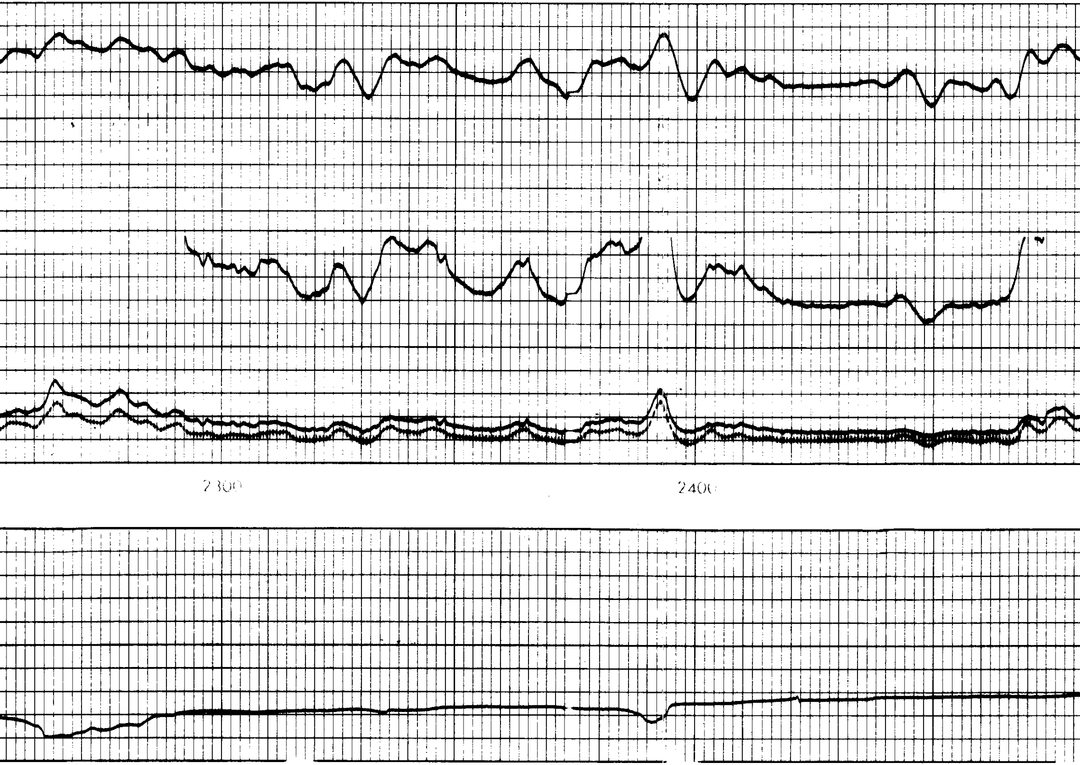


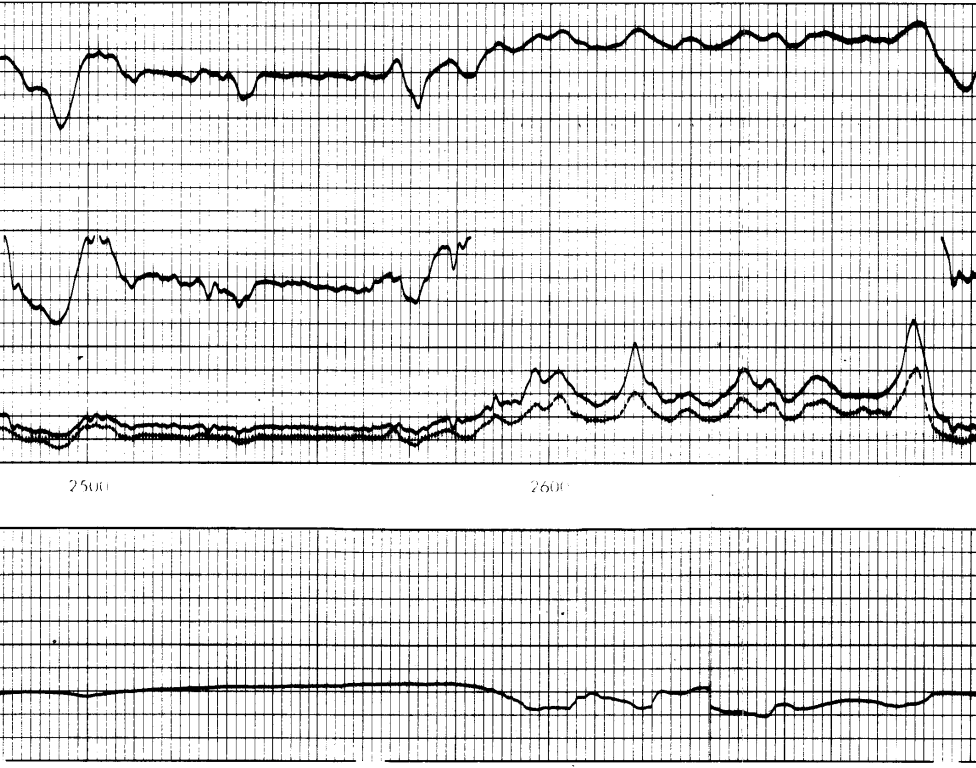


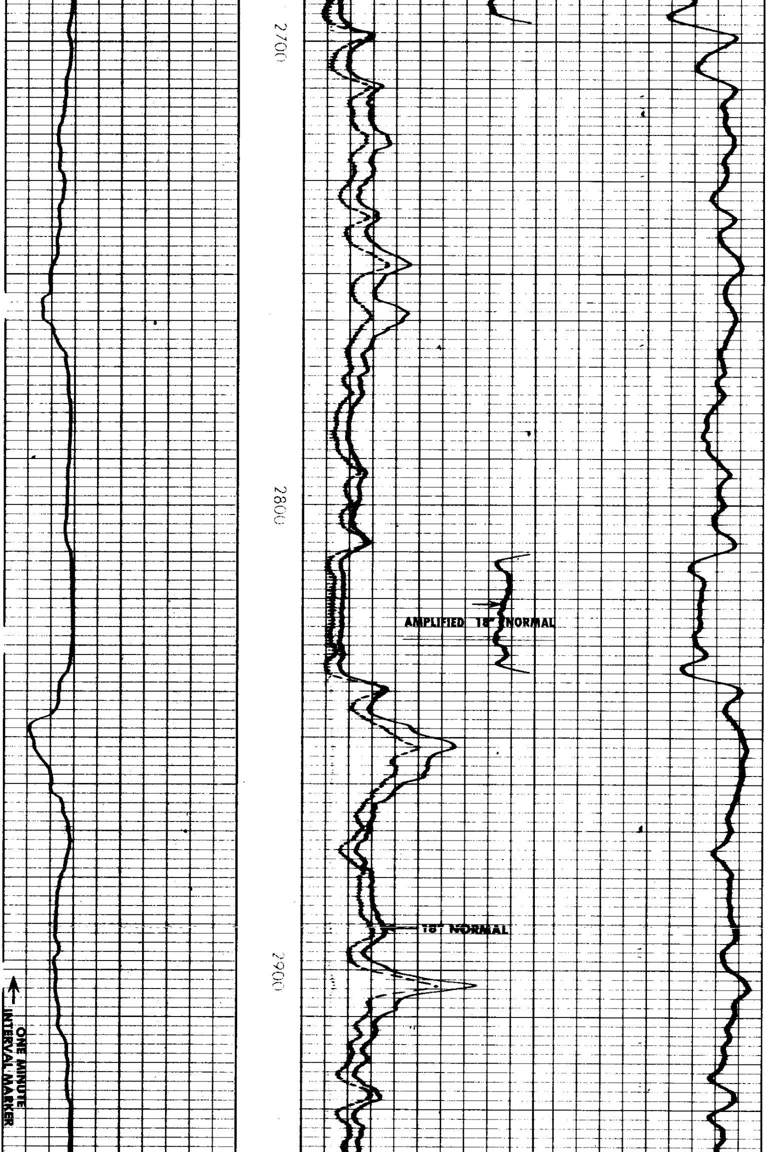


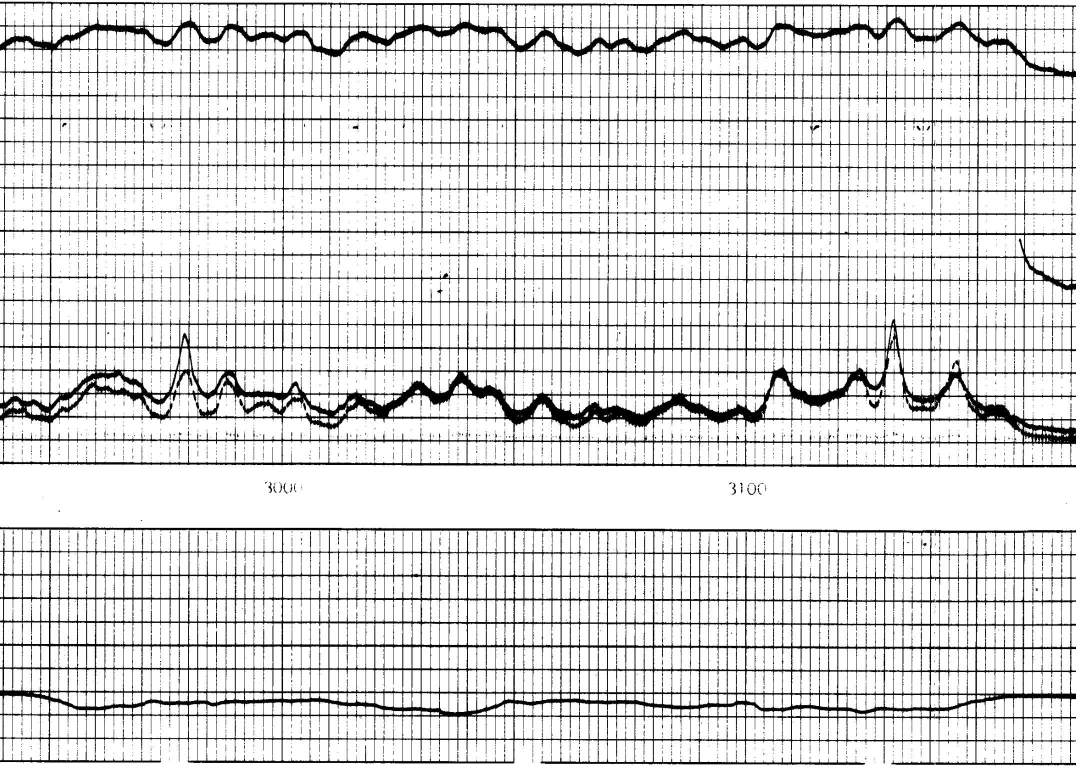


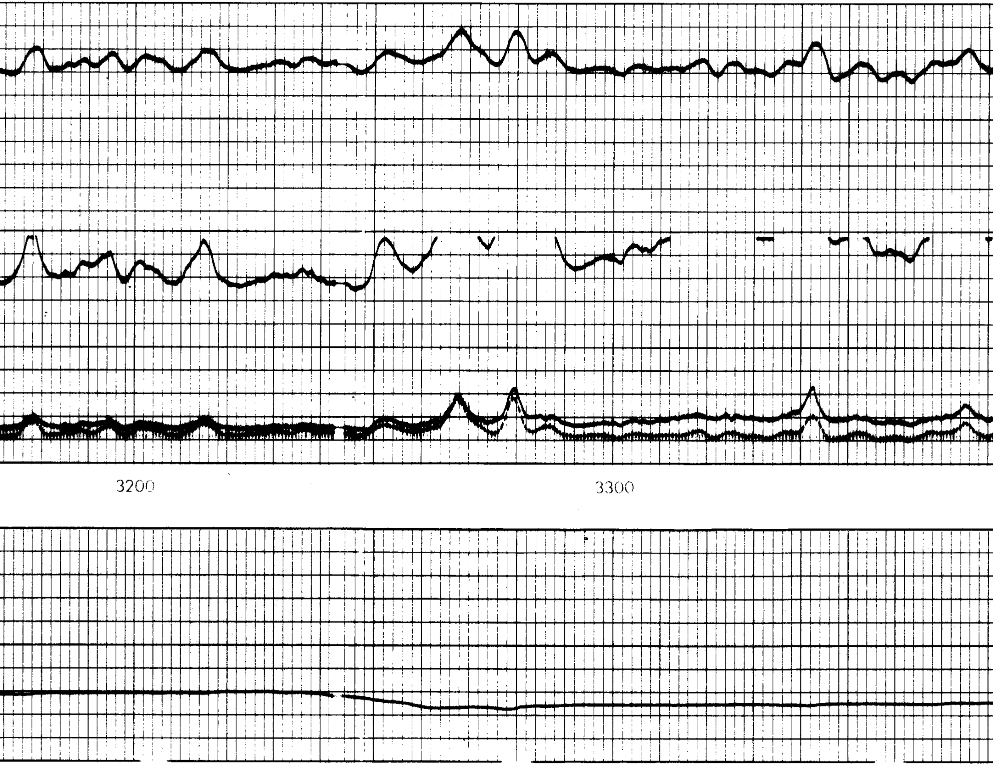


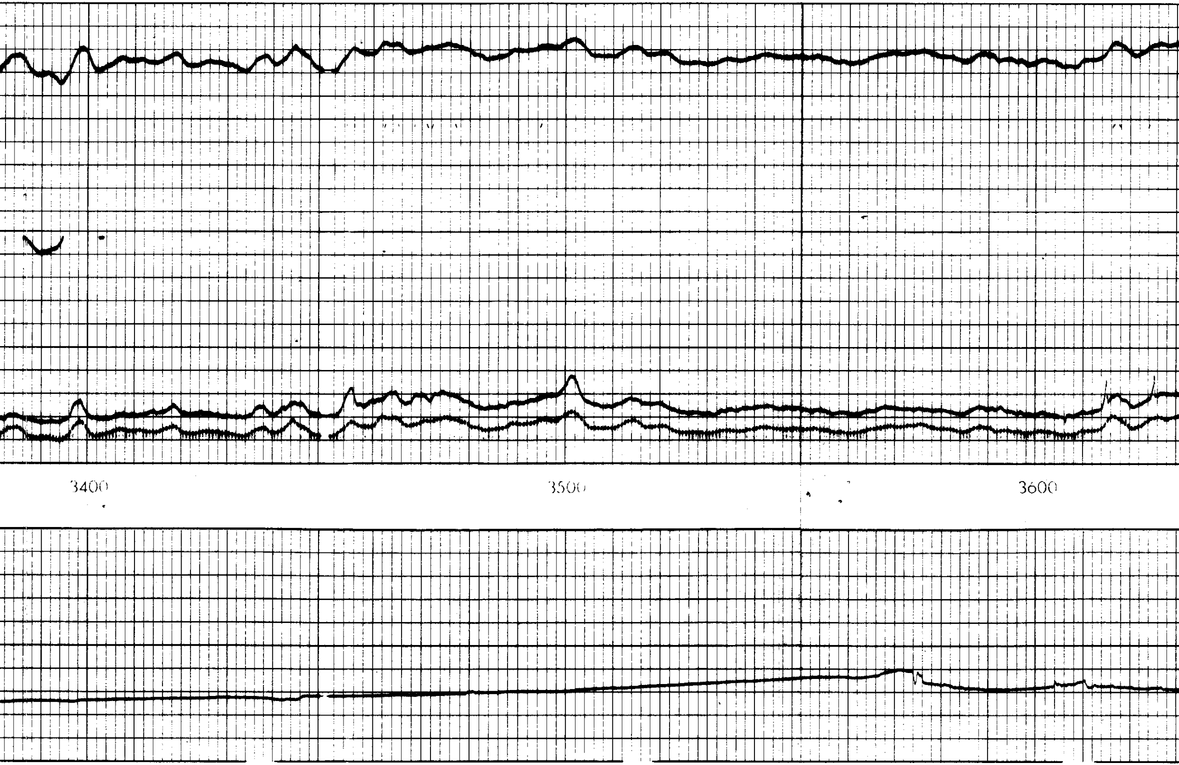


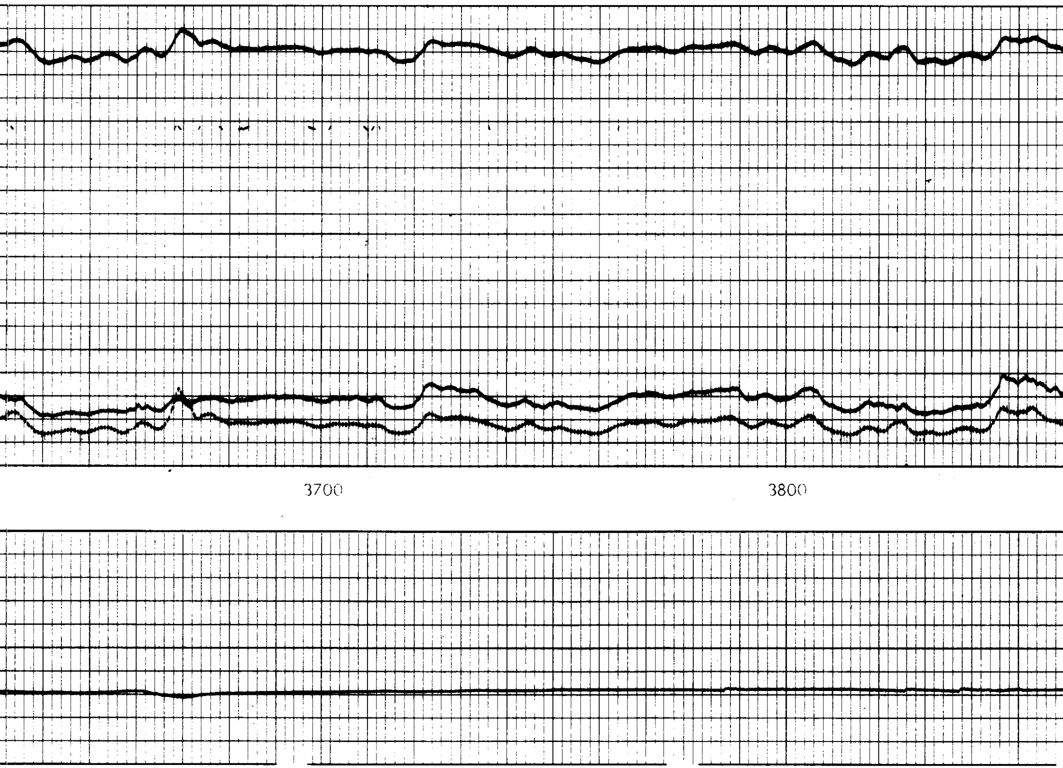


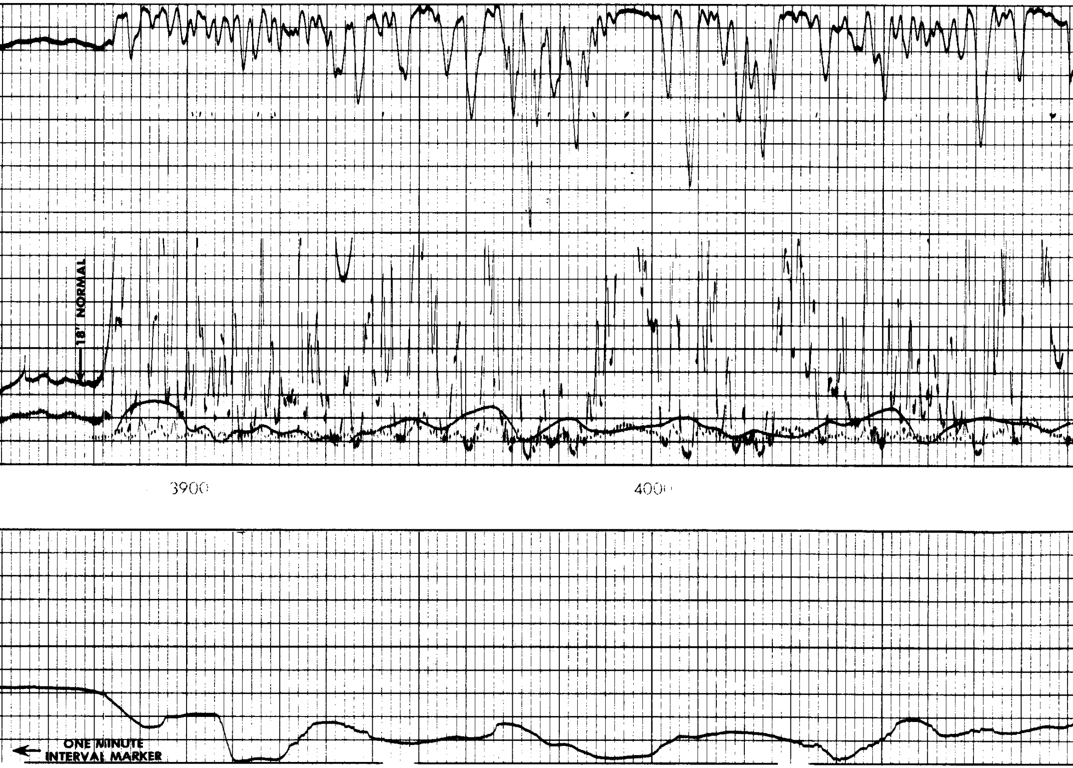


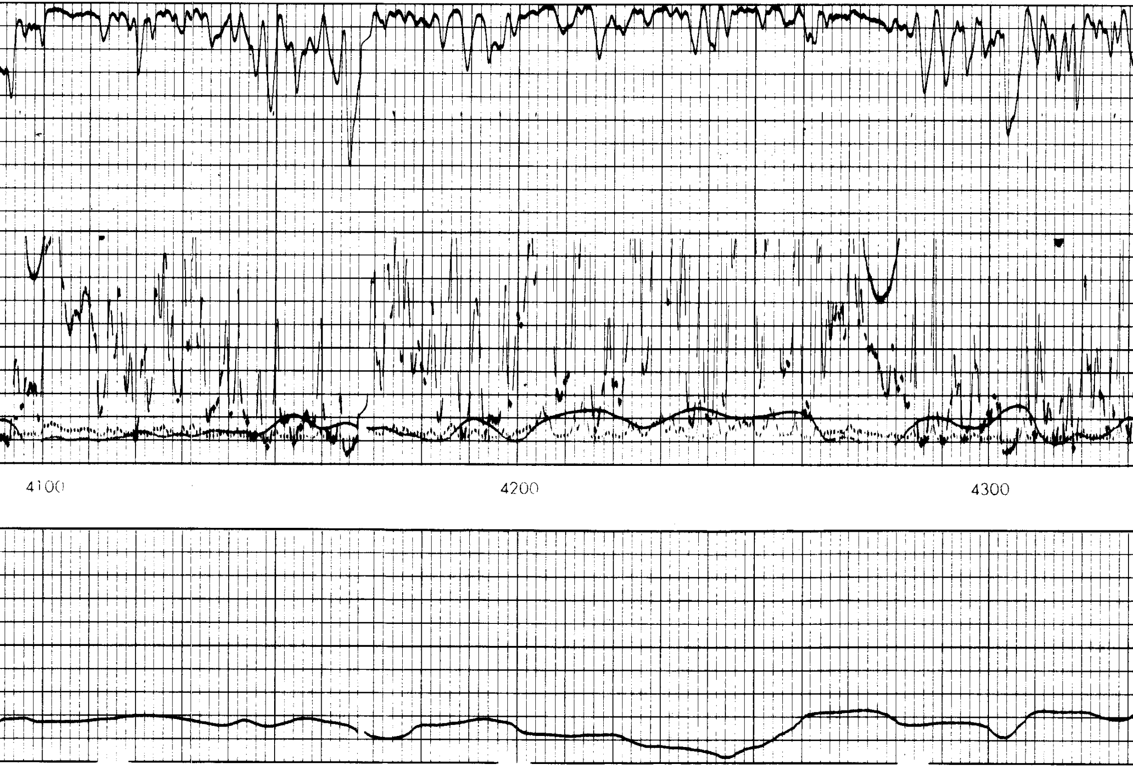


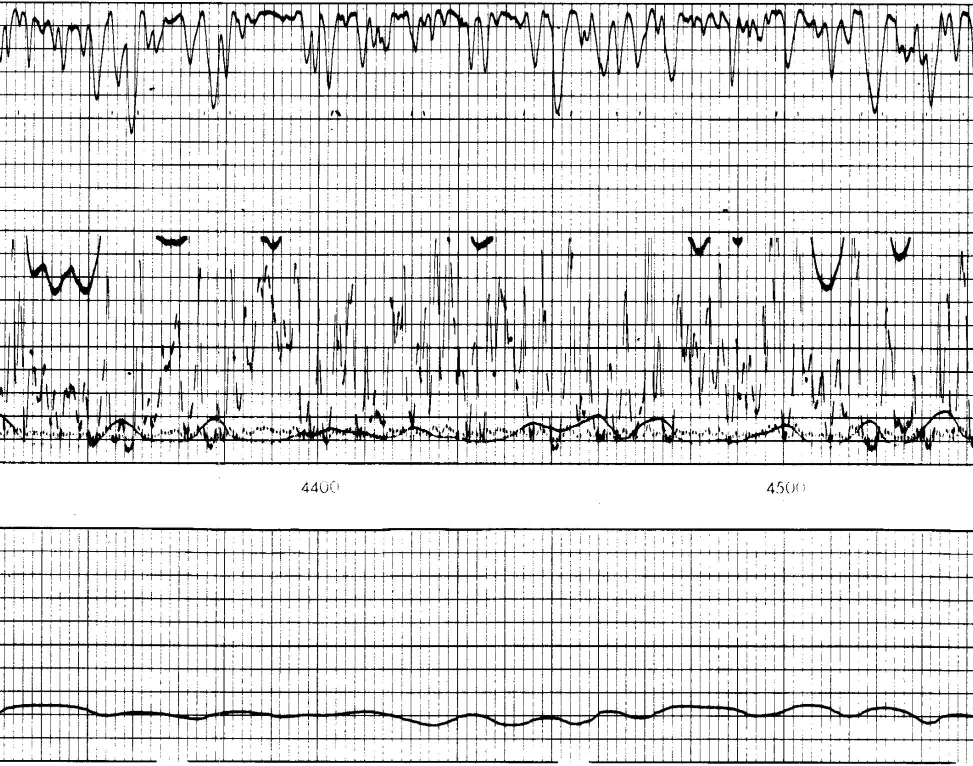


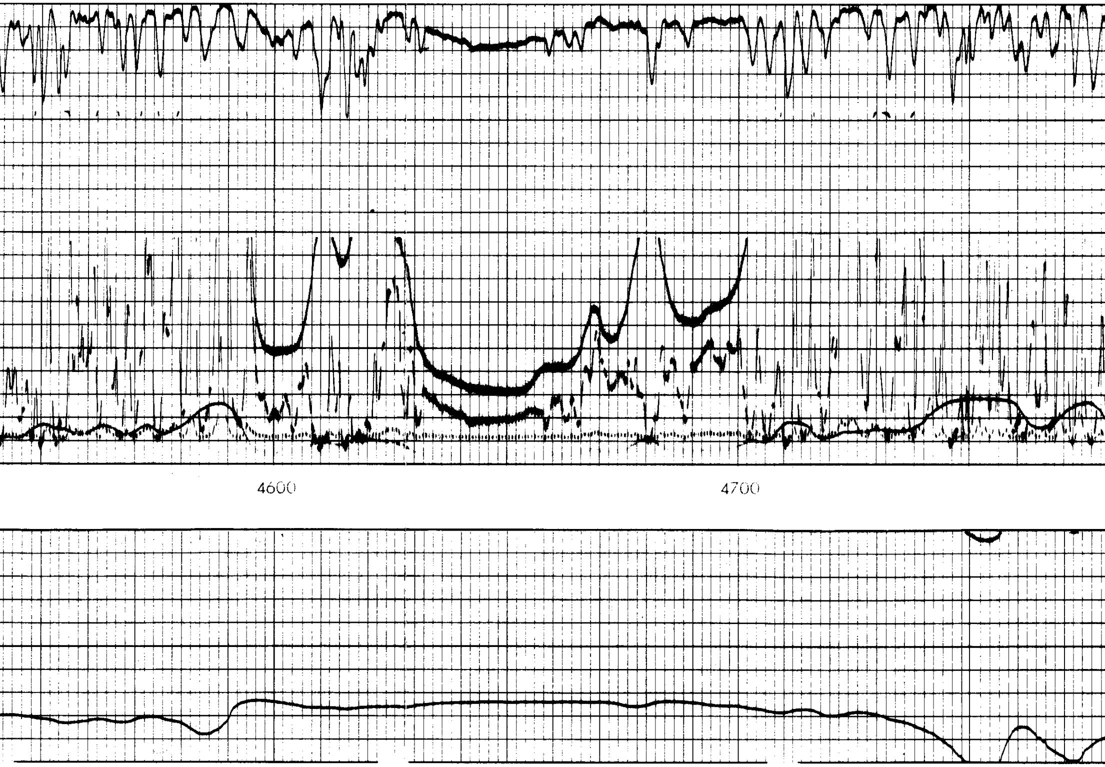


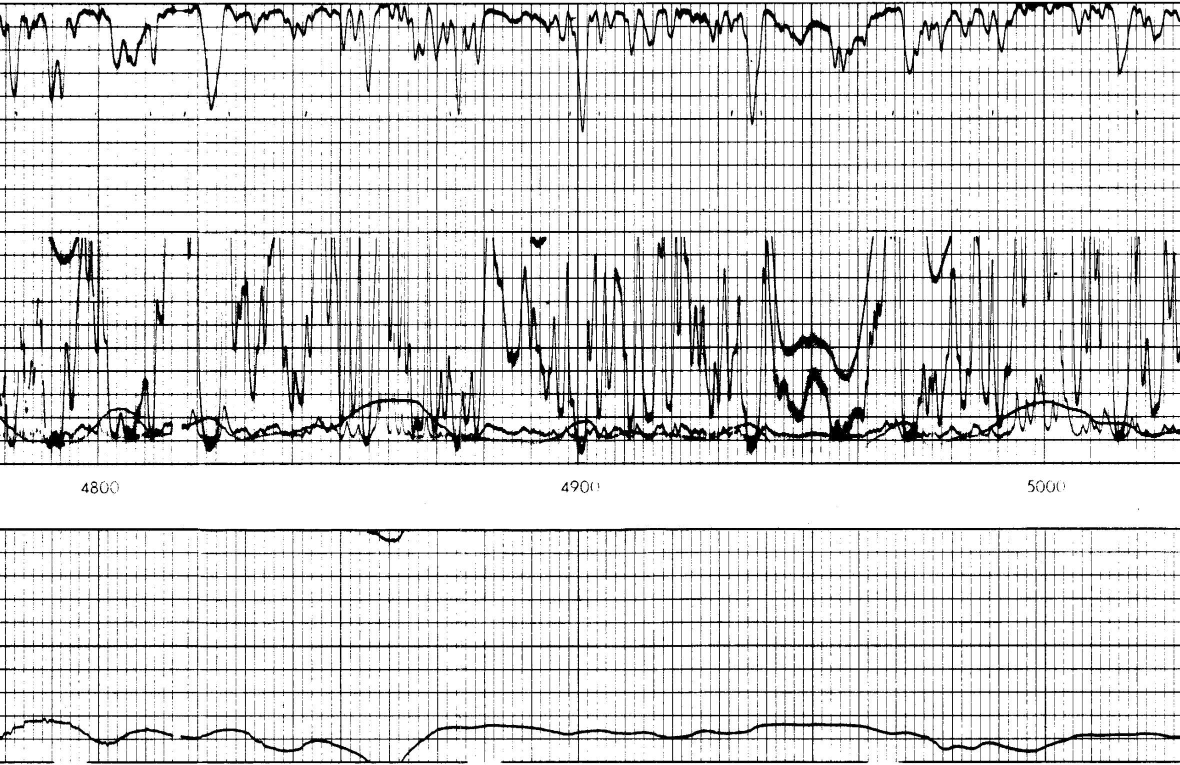


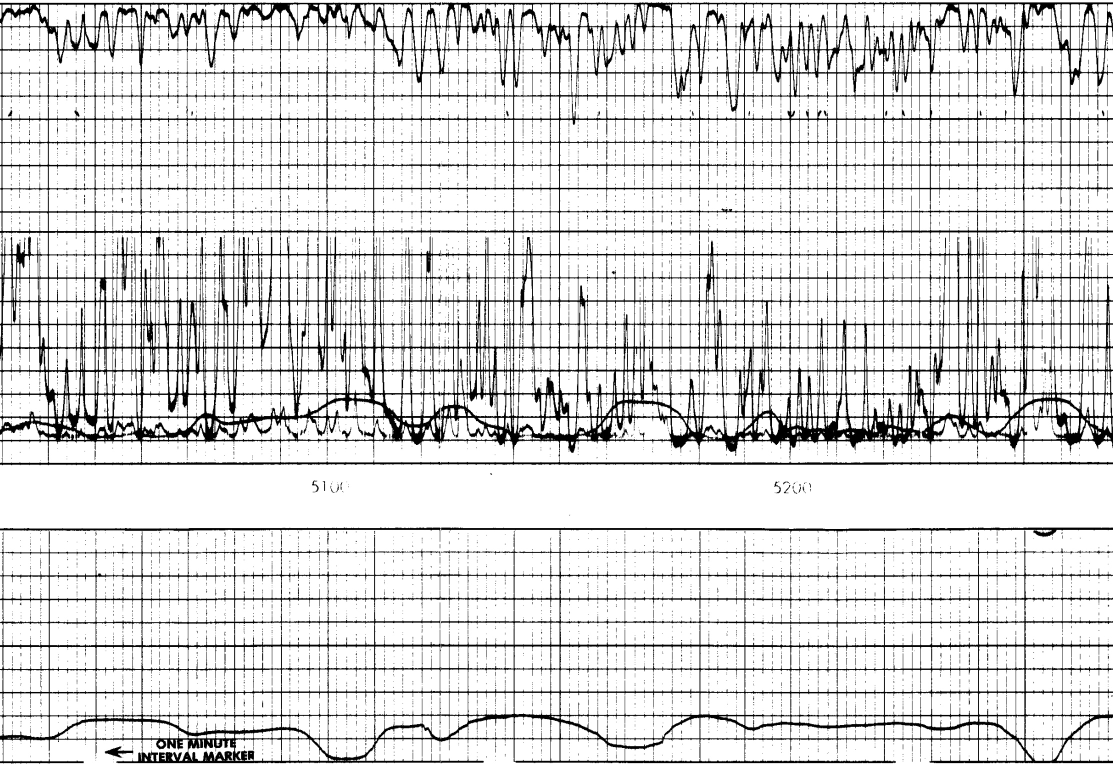


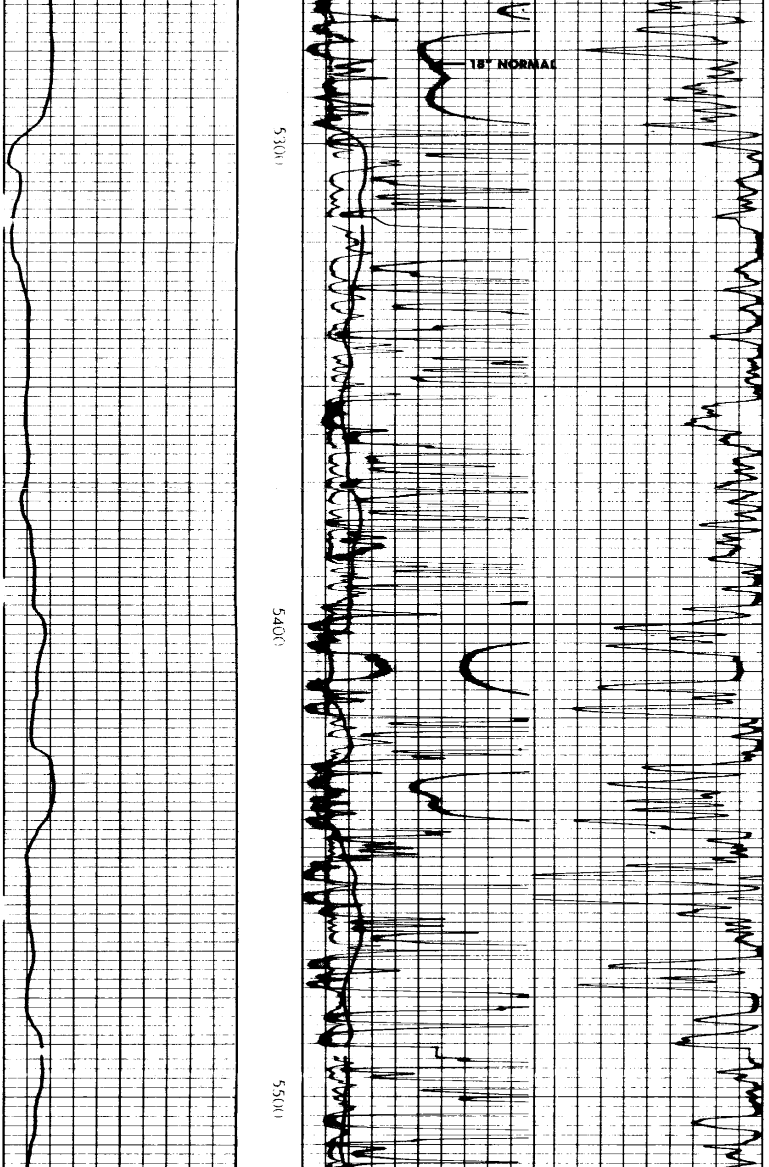


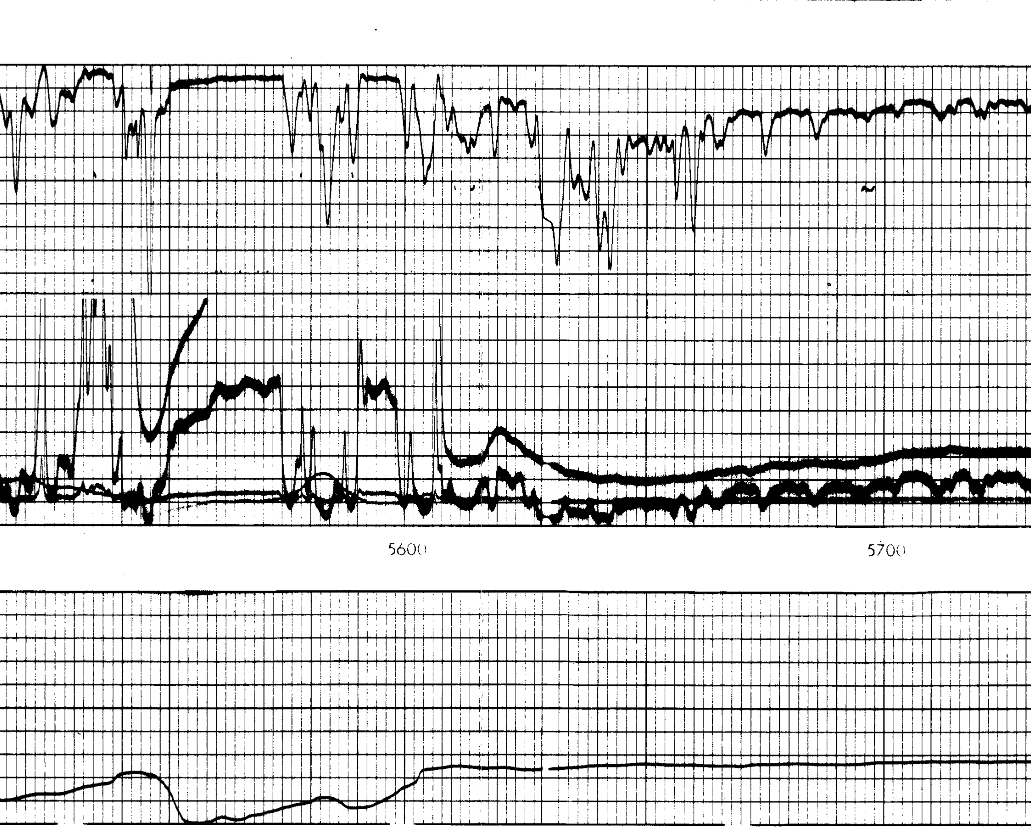


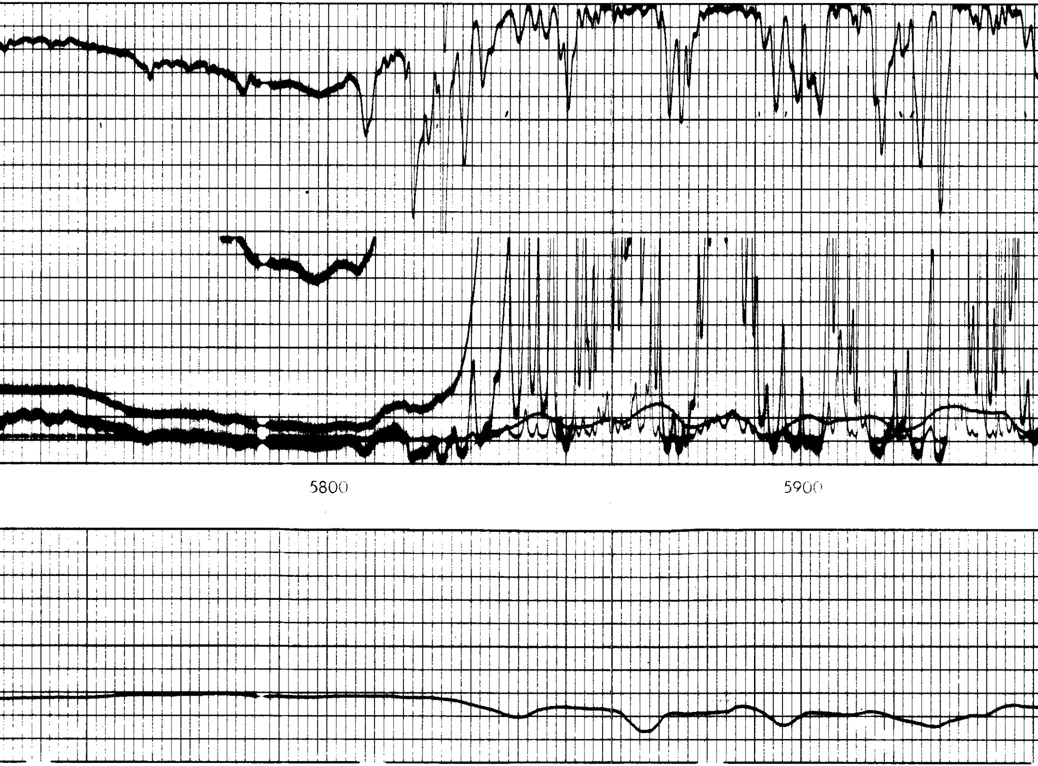


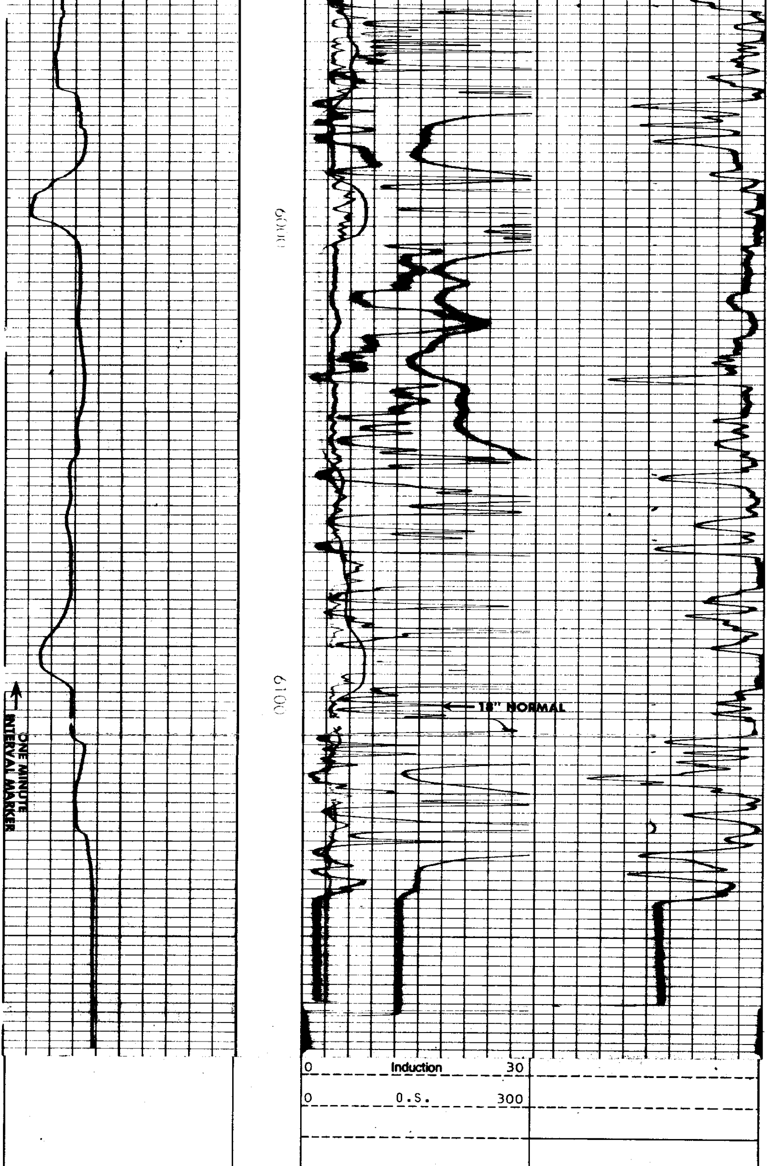












Rmf 0.68 at 143 °F.

– → 10 ← +

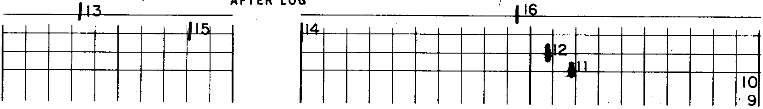
POTENTIAL MILLIVOLTS

0	18" Normal	30			
0	O.S.	300	1000	Induction	0
0	18" AMPL NORMAL	6	2000	O.S.	1000
RESISTIVITY OHMS M²/M			**CONDUCTIVITY M MHOS/M**		

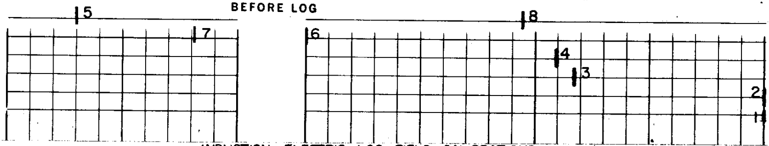
OREGON NATURAL GAS DEVELOPMENT CORPORATION
CROWN ZELLERBACH NO.1
TILLAMOOK AREA
TILLAMOOK COUNTY, OREGON

T.D. LOGGED 6143
T.D. DRILLER 6158
T.D. WELEX 6149
ELEV: KB 210.5 GL 199.7

AFTER LOG



BEFORE LOG



INDUCTION ELECTRIC LOG FIELD CALIBRATIONS

1. RECORDER ZERO — COND
2. LOW REF. — ZERO CALIB.
3. HIGH REF. — INTERNAL CALIB. — BASE OUT
4. HIGH REF + BASE – INTERNAL CAL. BASE IN

9. RECORDER ZERO — COND.
10. LOW REF. — ZERO CALIB.
11. HIGH REF. – INTERNAL CALIB. – BASE OUT
12. HIGH REF. + BASE – INTERNAL CAL. BASE IN