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MAR 10 1980

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Welex
2"=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 DEVELOPMENT 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	LIGNO-SULF			
Dens. | Visc.	79 | 51	|	|	|
pH | Fluid Loss	10.5 | 3.8ml	| ml	| ml	| 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	|	|	|
R_m @ BHT	0.76 @143°F	@ °F	@ °F	@ °F
Time Since Circ.	3 1/2 HOURS			
Max. Rec. Temp.	143°F@ BHT	°F @	°F @	°F @
Equip. | Location	9430 | WDLND	|	|	|
Recorded By	DOVE			
Witnessed By	McBURNIE, CLARE			

Fold Here

Service Ticket No 048984 Remarks:

Change in Mud Type or Additional Samples

Date | Sample No.	|	|
Depth—Driller		
Type Fluid in Hole		
Dens. | Visc.	|	|
ph | Fluid Loss	| ml	|
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}	|	|
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

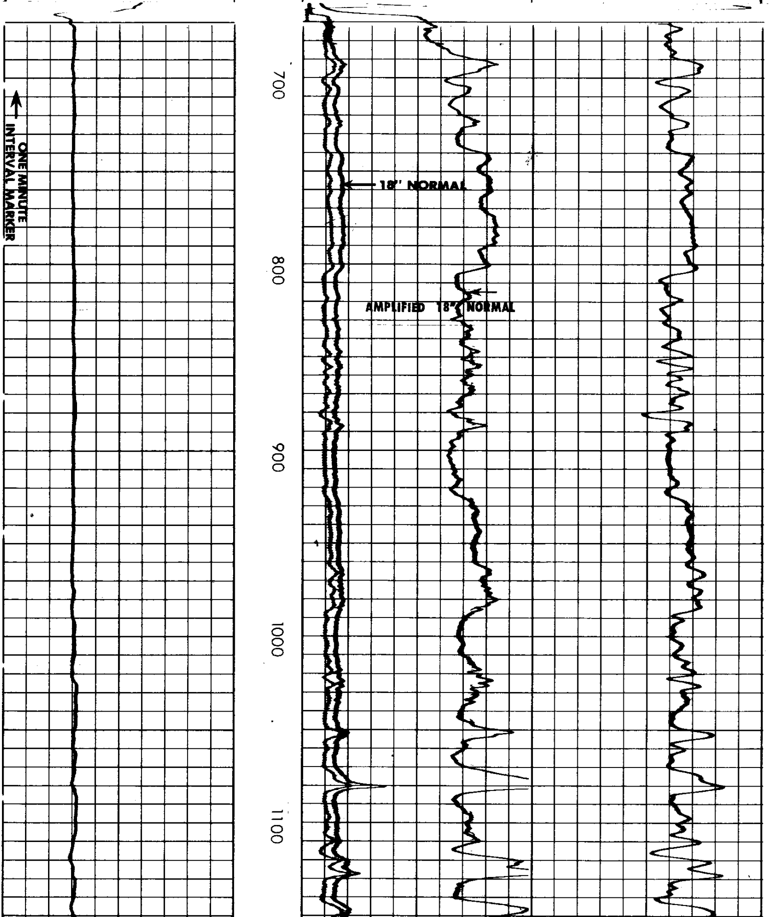
EQUIPMENT DATA

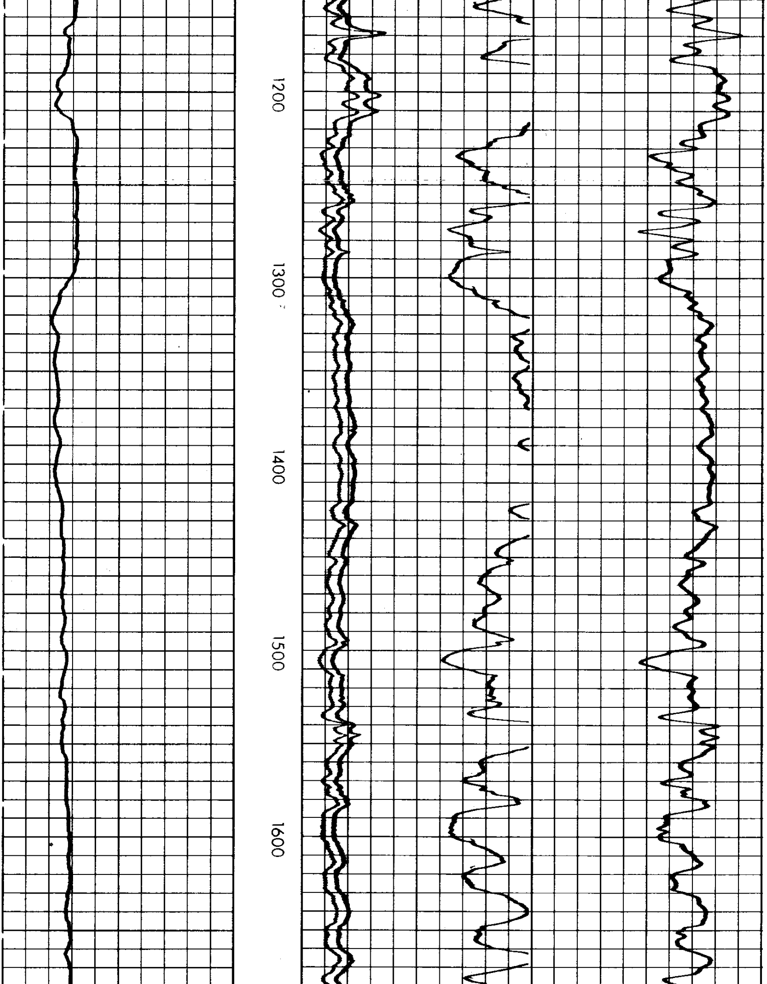
Run No.	Tool Type and No.	Pad Type	Tool Position	Other
ONE	IEL 11242	------	SO 1 1/2	

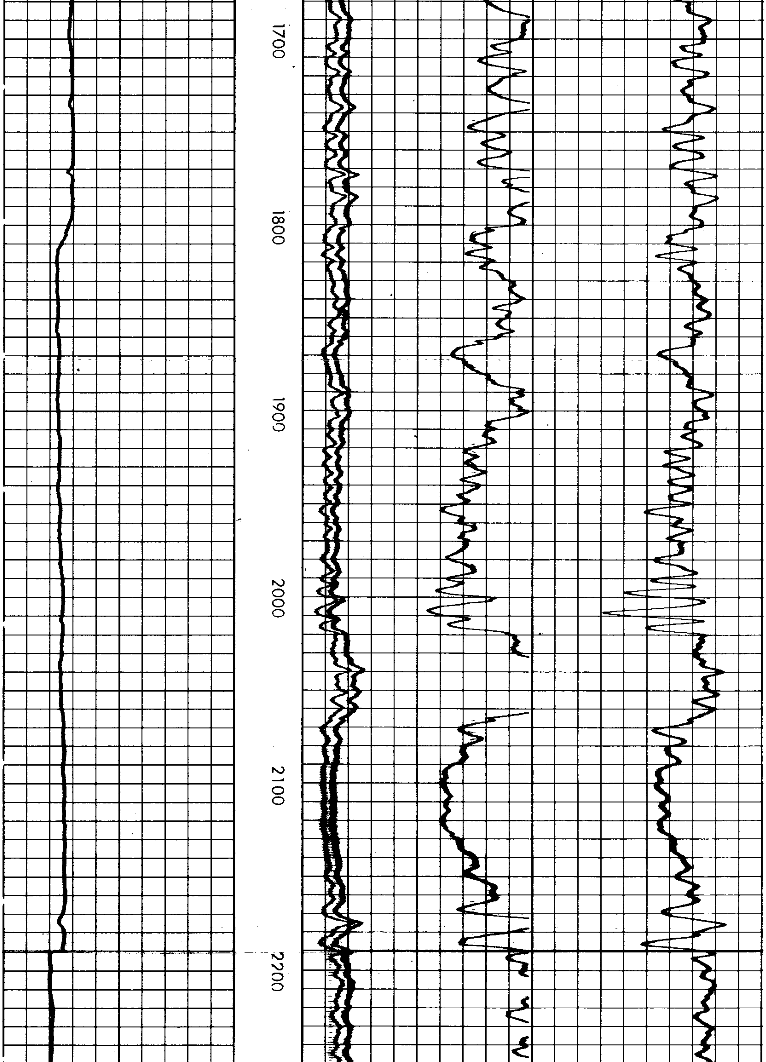
Welex does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions, or recommendations 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.

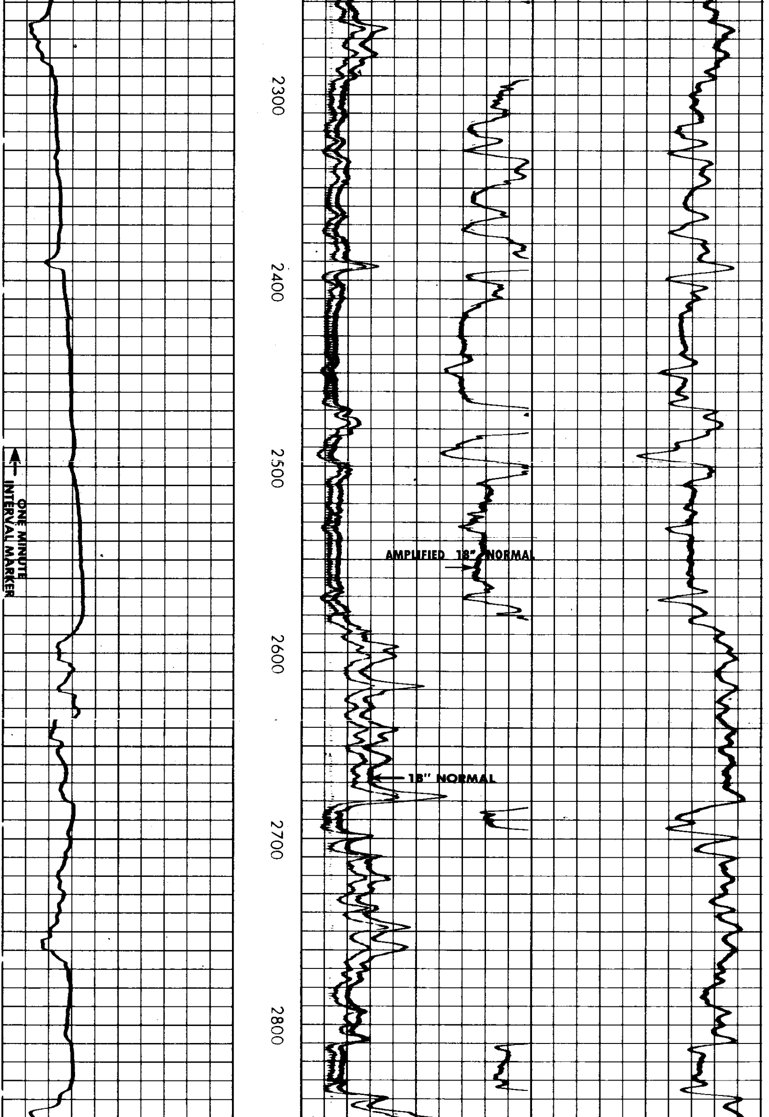
2" = 100'

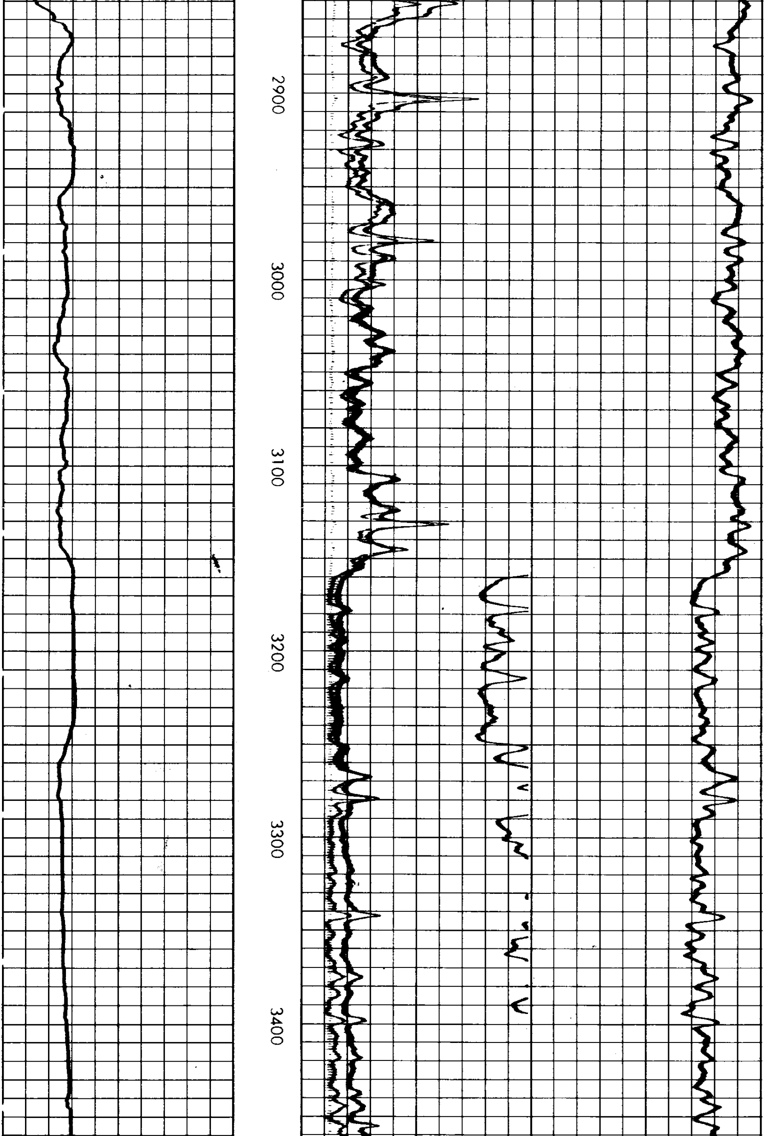
POTENTIAL MILLIVOLTS	RESISTIVITY OHMS M^2/M	CONDUCTIVITY M MHOS/M
– → 10 ← +	0 18" Normal 30	1000 Induction 0
	0 O.S. 300	2000 O.S. 1000
Rmf________ at ________ °F.	0 18''AMPL. NORMAL 6	
	0 Induction 30	
	0 O.S. 300	

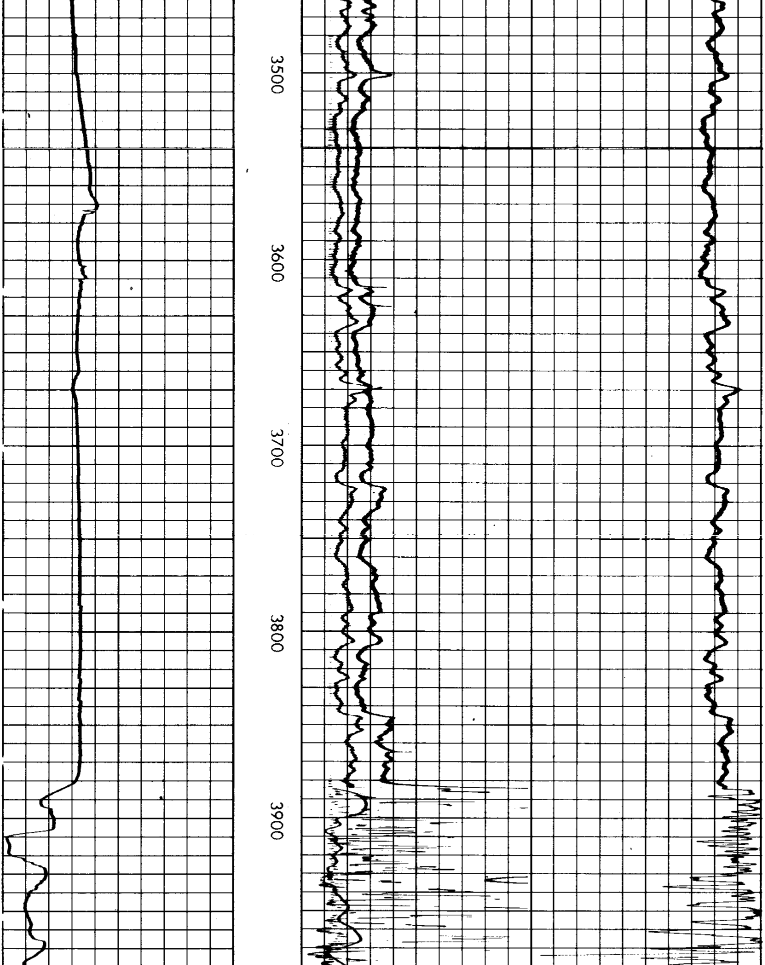


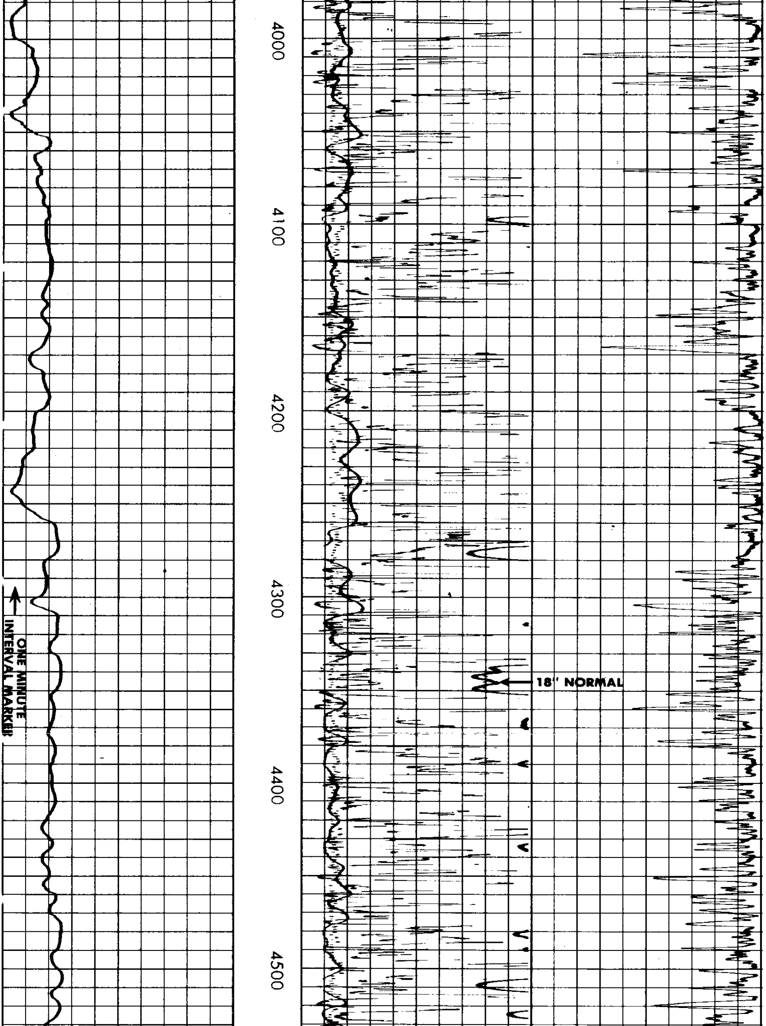


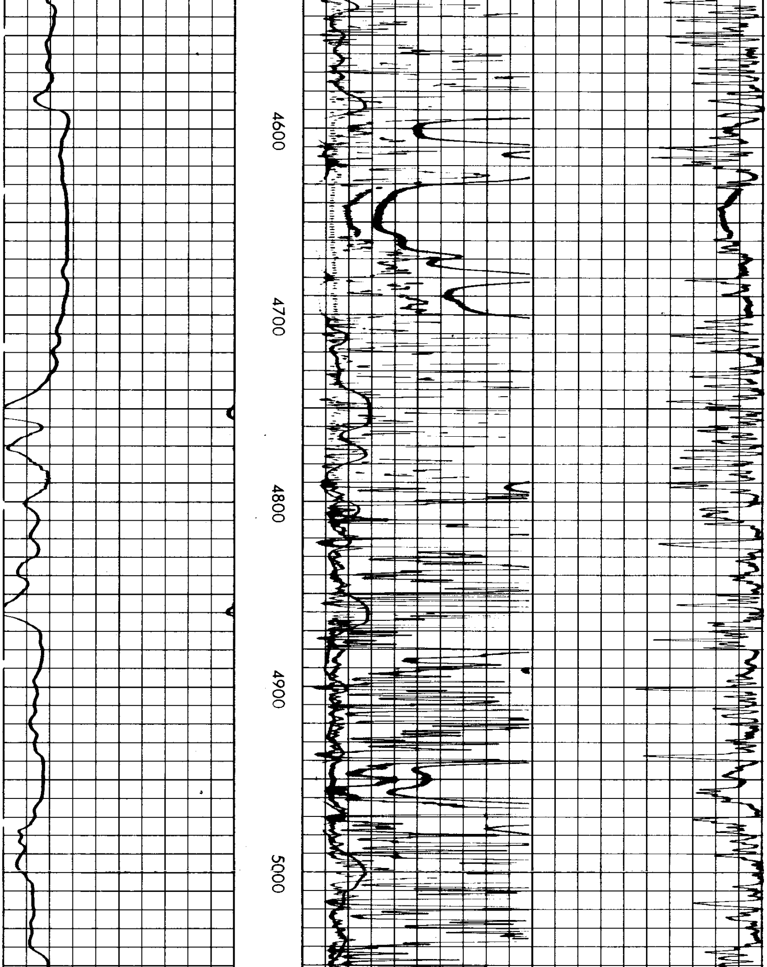


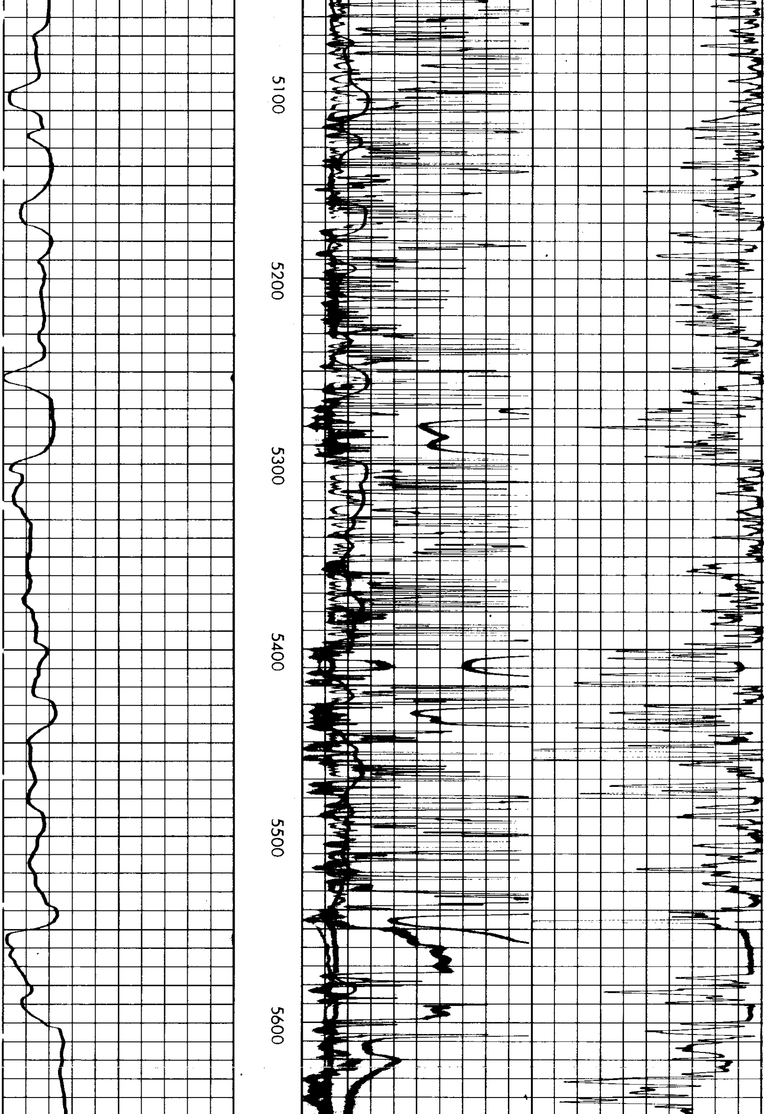


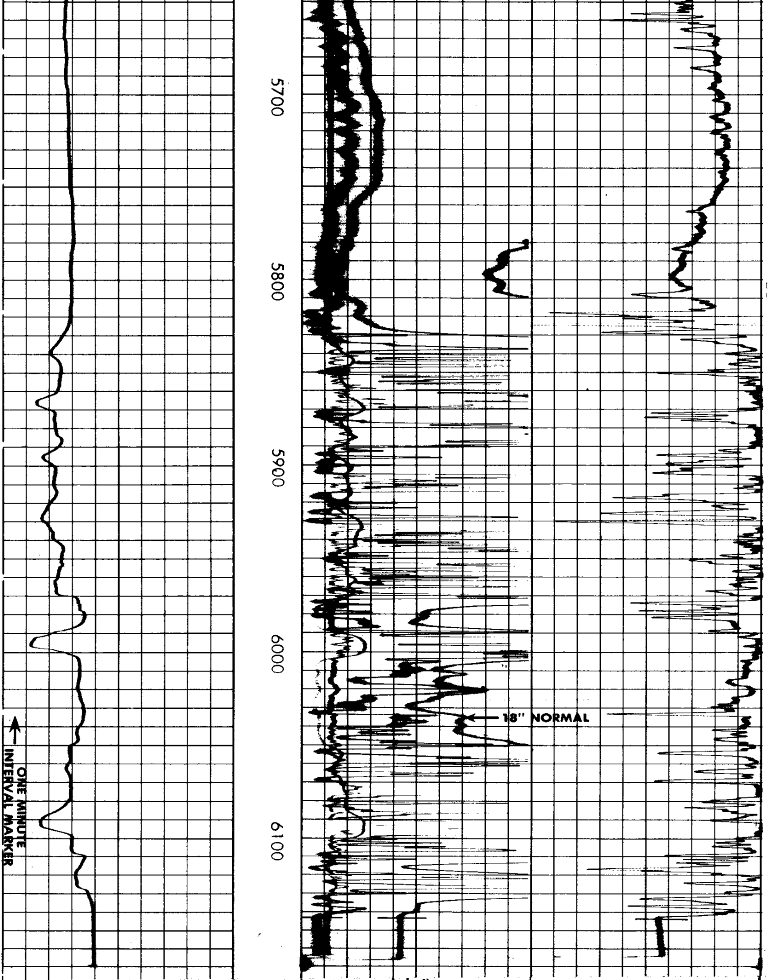












Rmf 0.68 at 143 °F.

— → 10 ← +

POTENTIAL MILLIVOLTS

0 Induction 30

0 O.S. 300

0 18" Normal 30

0 O.S. 300

0 18'' AMPL. NORMAL 6

RESISTIVITY OHMS M²/M

1000 Induction 0

2000 O.S. 1000

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