Schlumberger

DUAL INDUCTION-SFL
WITH LINEAR CORRELATION LOG

COMPANY Champlin Petroleum Co.
[redacted]
WELL #4 Burkhardt - 21-3-1-66
FIELD Spindle
COUNTY Weld STATE Colo

LOCATION [redacted] NE - NE (1) [redacted]
SEC. 3 TWP. 1N RANGE 66W

Other Services: GR-FDC-CNL [redacted]

Permanent Datum: GL ; Elev.: 5075
Log Measured From KB , 5' Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5080
D.F.
G.L. 5075

Date	4 MAR 1980	RECEIVED		RECEIVED
Run No.	1	MAY 30 1980		MAR 7 1980
Depth—Driller	4950			
Depth—Logger	4945			
Btm. Log Interval	4939	COLO. OIL & GAS CONS. COMM.		CENTRAL FILE
Top Log Interval	215			
Casing—Driller	8 5/8 @ 200'	@	@	@
Casing—Logger	215			
Bit Size	7 7/8			
Type Fluid in Hole	FGM			
Dens. / Visc.	9.3 / 45			
pH / Fluid Loss	9.0 / 5.6 ml	ml	ml	ml
Source of Sample	CIRC.			
Rm @ Meas. Temp.	5.40 @ 70 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	3.73 @ 70 °F	1.95 @ 134 °F	@ °F	@ °F
Rmc @ Meas. Temp.	— @ — °F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	EMT / —			
Rm @ BHT	2.82 @ 134 °F	@ °F	@ °F	@ °F
Time: Circulation Stopped	1345			
Time: Logger on Bottom	1630			
Max. Rec. Temp.	134 °F	°F	°F	°F
Equip. / Location	7486 / FT.M			
Recorded By	D. BICKNELL			
Witnessed By	D. LOCKWOOD			

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

FOLD HERE

Run No.	1				
Service Order No.	121978				
Fluid Level	FULL				
Salinity ppm. cl	—				
Speed F.P.M.					
EQUIPMENT DATA					
Panel No.	EA-637				
Cart No.	D-450				
Sonde No.	D-496				
Mem. Panel No.	CA-613				
G.R. Panel No.	-				
G.R. Cart No.	-				
Tape Recorder - (TTR)	E-2849				
Depth Encoder - (DRE)	A-196				
Pressure Wheel - (CPW)	H-2930				
Type Centralizers	4 FIN				
Stand Off - Inches	1/2"				
CALIBRATION DATA					
SBR	1				
Sonde Error - ILM	5.8				
Sonde Error - ILD	6.45				
G.R. BKG. - CPS.	-				
G.R. Source - CPS.	-				
S.E. Set In Hole - Depth	-				
S.E. Corr. - Hole Size	-				
LOGGING DATA					
SBR	1				
S.E. Log - ILM	5.8				
S.E. Log - ILD	6.45				
G.R. Scale per 100 Div.	-				
G.R. - T.C.	-				
G.R. Sens.	-				

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

REMARKS

00023928

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

— |10| + MILLIVOLTS

CONDUCTIVITY MILLIMHOS/M = $\frac{1000}{OHMS\ M^2/M}$

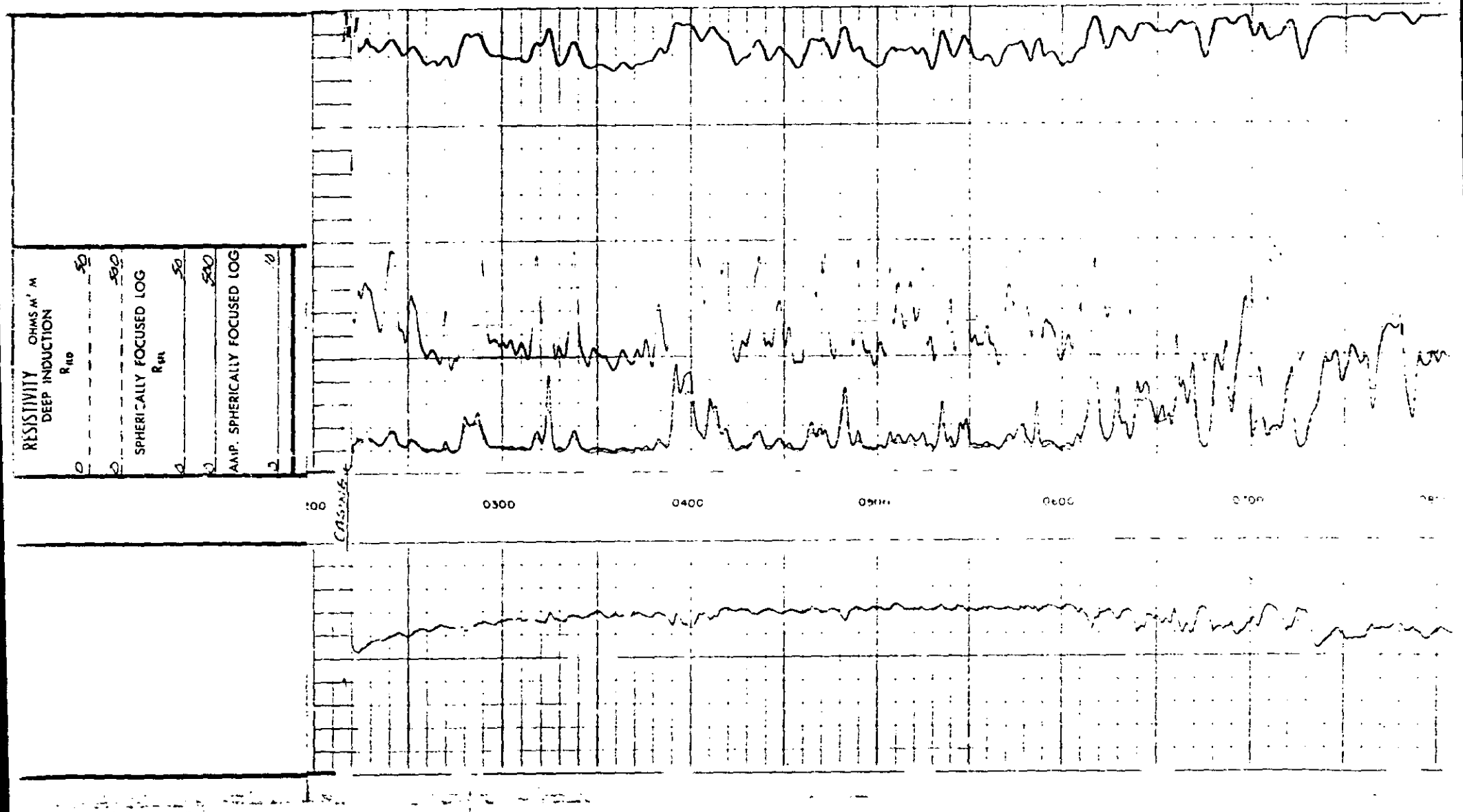
DEEP INDUCTION

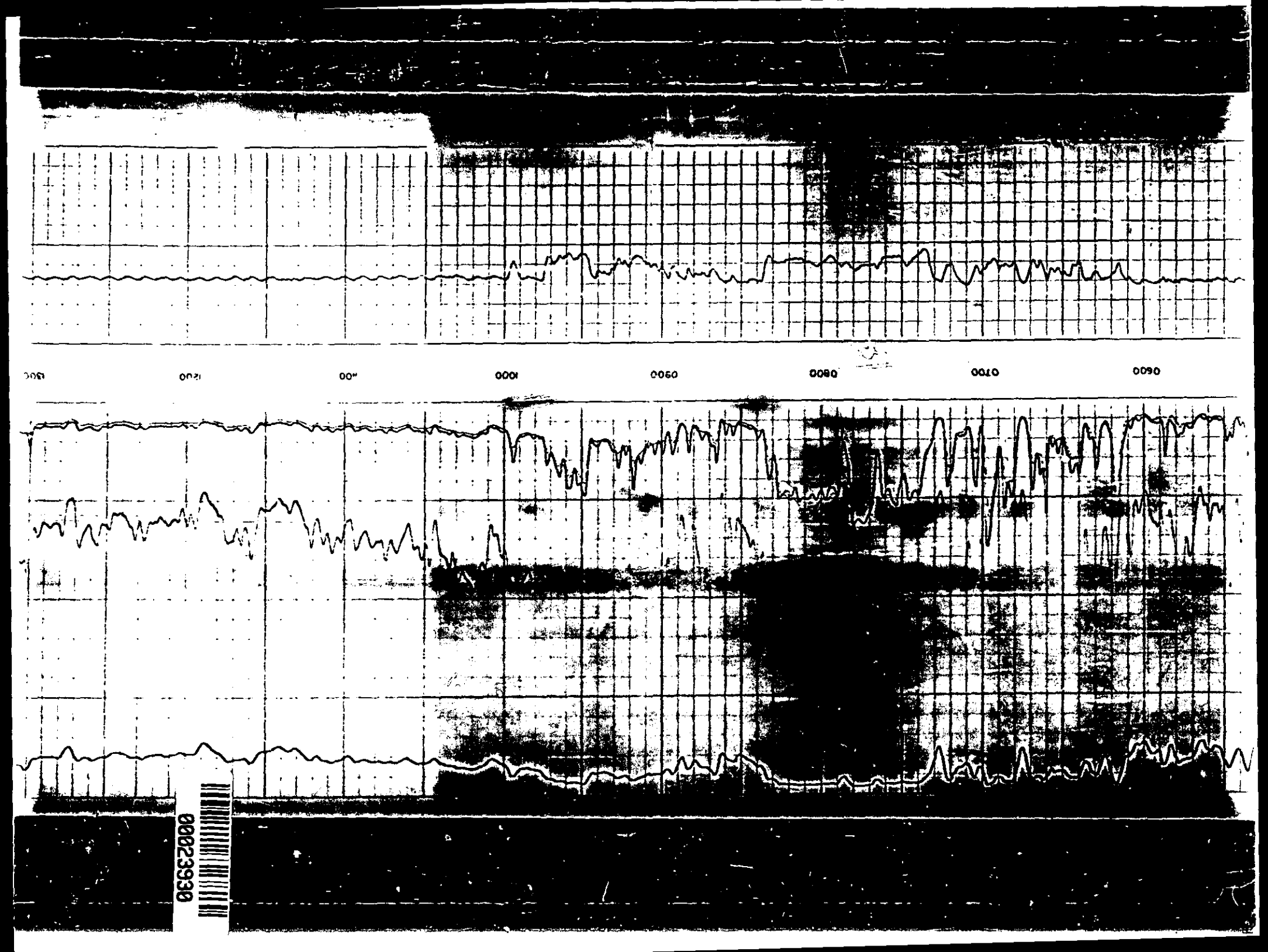
2000 1000 0

RESISTIVITY OHMS M^2/M
DEEP INDUCTION
R_{ILD}

0 50

0 500


RESISTIVITY OHMS M² M
DEEP INDUCTION
R_ID
50
0
SPHERICALLY FOCUSED LOG
R_SFL
50
0
AMP. SPHERICALLY FOCUSED LOG
10
0
0300
0400
Casing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