GL04465-3

Schlumberger

DUAL INDUCTION-SFL
WITH LINEAR CORRELATION LOG

COUNTY CHURCHILL
FIELD STILLWATER
LOCATION 6 - 19N - 31E
WELL DE BRAGA NO. 2
COMPANY UNION OIL COMPANY

COMPANY UNION OIL COMPANY

WELL DE BRAGA NO. 2

FIELD STILLWATER

COUNTY CHURCHILL STATE NEVADA

LOCATION NORTHWEST ¼ OF NORTHWEST ¼ OF
C-NW-NW

API SERIAL NO.	SEC.	TWP	RANGE
	6	19N	31E

Other Services:
FDC-CNL-GR
HDT
HTT

Permanent Datum: GL ; Elev.: 3885
Log Measured From KB 11 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 3896
D.F. -
G.L. 3885

Date	4/9/79	5/3/79		
Run No.	ONE	TWO		
Depth—Driller	1205	6946		
Depth—Logger (Schl.)	1213	6944		
Btm. Log Interval	1207	6938		
Top Log Interval	320 "	1192		
Casing—Driller	13 3/8@ 310	9 5/8" @1196	@	@
Casing—Logger	320	1192		
Bit Size	12¼"	8¾"		
Type Fluid in Hole	GEL/WATER	GEL/WATER		
Dens. | Visc.	70 | 33	68 | 32	|	|
pH | Fluid Loss	9.5 | NA ml	9.3 | 16.2 ml	| ml	| ml
Source of Sample	FLOWLINE	FLOWLINE		
Rm @ Meas. Temp.	0.99 @ 95 °F	7.23 @74 °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.6 @ 58 °F	7.08 @55 °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.66 @ 62 °F	7.33 @56 °F	@ °F	@ °F
Source: Rmf | Rmc	M | M	M | M	|	|
Rm @ BHT	0.52 @ 187°F	1.94 @93 °F	@ °F	@ °F
TIME Circulation Stopped	0200	2400 5/2/79		
TIME Logger on Bottom	0300	1530		
Max. Rec. Temp.	187 °F	293 °F	°F	°F
Equip. | Location	7731 | 4408	7758 | 4408	|	|
Recorded By	LINDGREN	LINDGREN		
Witnessed By Mr.	SLOWDOWSKI	SLOWDOWSKI		

FOLD HERE

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

Run No.	ONE	TWO		
Service Order No.	64804	48910		
Fluid Level	FULL	FULL		
Salinity ppm. cl	-	-		
Speed F.P.M.	100	100		

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole
CIL	4200	0-1000	0-500
CIL	1196	0-2000	0-1000
RILD	1196	0-20	0-30

EQUIPMENT DATA

Panel No.	DD-452	DD-435		
Cartridge No.	DA-26	DA-26		
Sonde No.	EA-18	EA-18		
Mem. Panel No.	CA-524	CA-524		
G.R. Panel No.	-	-		
G.R. Cart No.	-	-		
Tape Recorder - (TTR)	-	-		
Depth Encoder - (DRE)	-	-		
Pressure Wheel - (CPM)	-	-		
Type Centralizers	FIN	FIN		
Stand Off - Inches	1.5"	1.5"		

REMARKS

SP RECORDED 1½" SHALLOW

CALIBRATION DATA

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

LOGGING DATA

SBR	1.0	1.0		
Sonde Error Log - ILM	SURFACE	SURFACE		
Sonde Error Log - ILD	SURFACE	SURFACE		
G.R. Scale per 100 Div.	-	-		
G.R. - T.C. Log	-	-		
	°F	°F	°F	°F
	°F	°F	°F	°F
	°F	°F	°F	°F

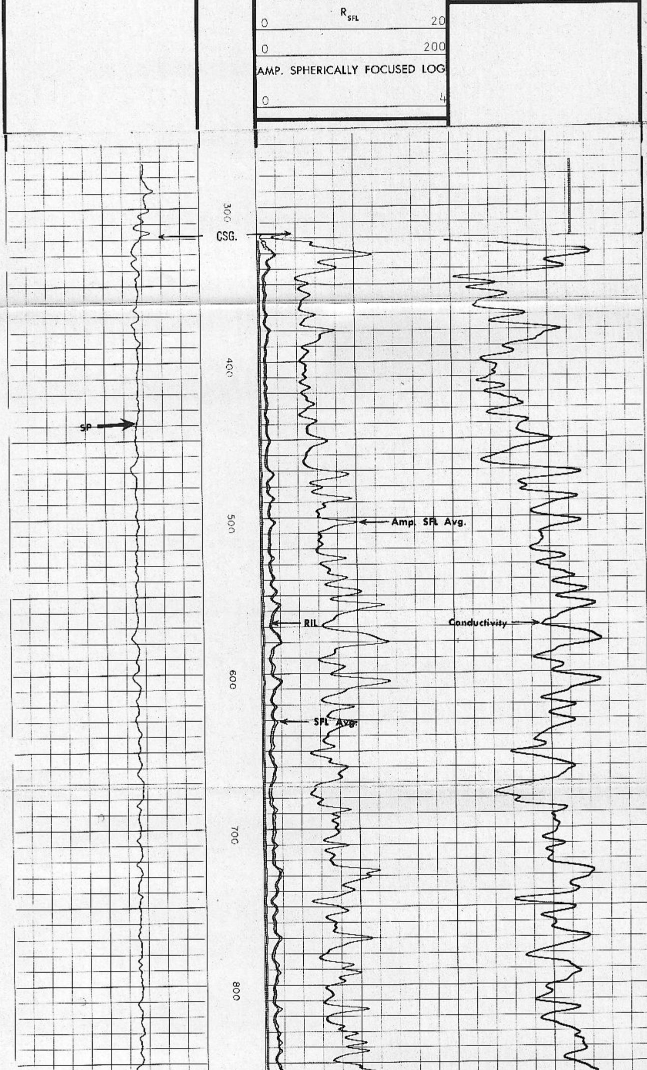
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

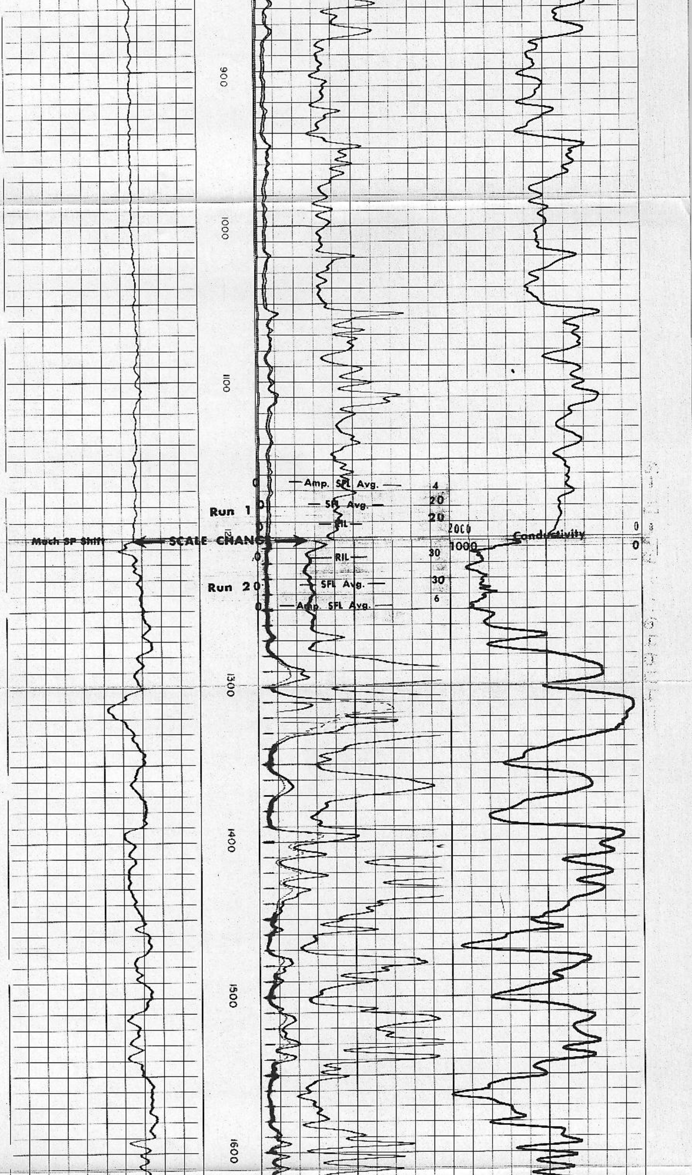
SPONTANEOUS POTENTIAL
— |10| + MILLIVOLTS

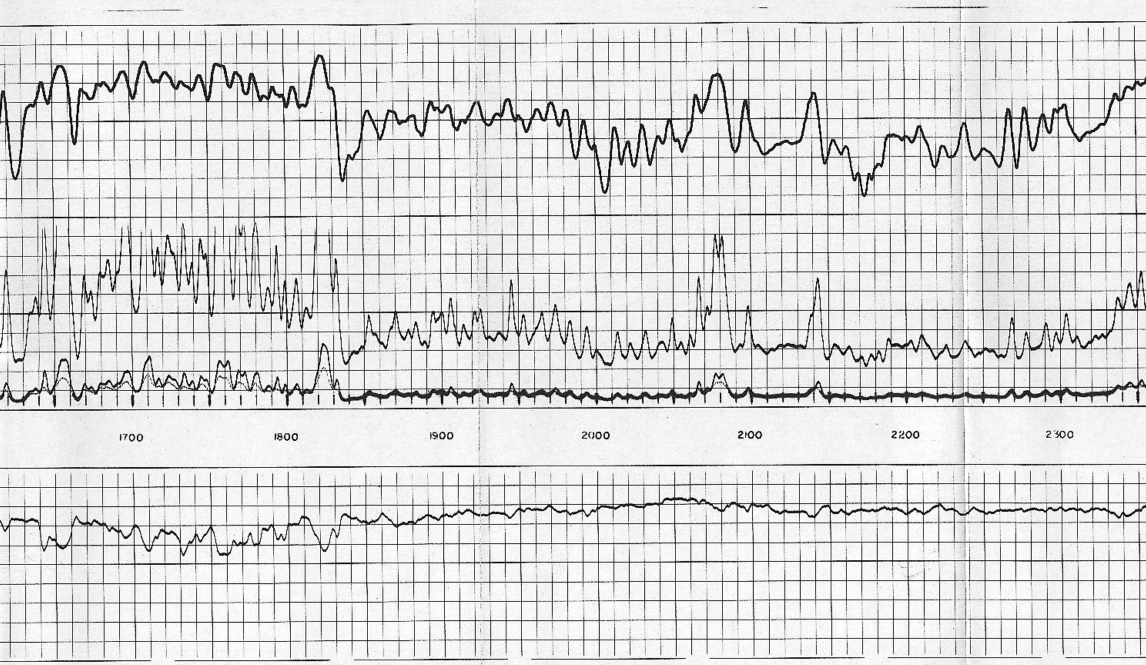
DEPTH

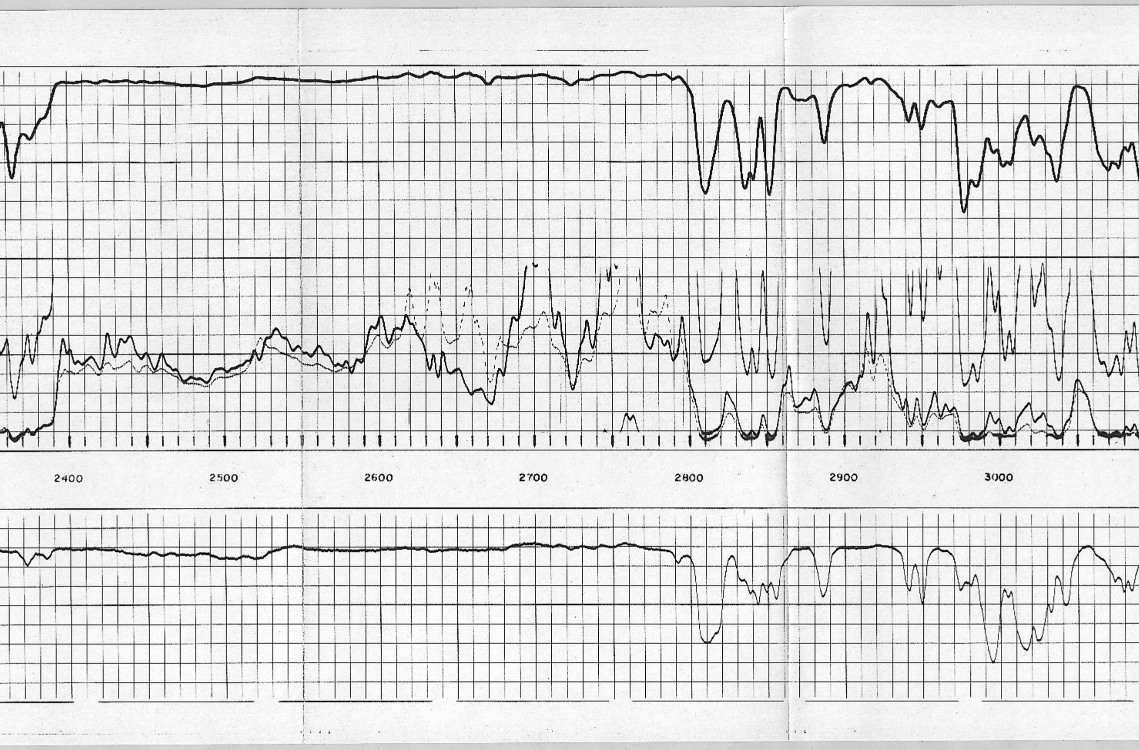
RESISTIVITY OHMS. M²/M
DEEP INDUCTION
R_{ILD}
0 - - - - - - - - - 20
0 - - - - - - - - - 200
SPHERICALLY FOCUSED LOG

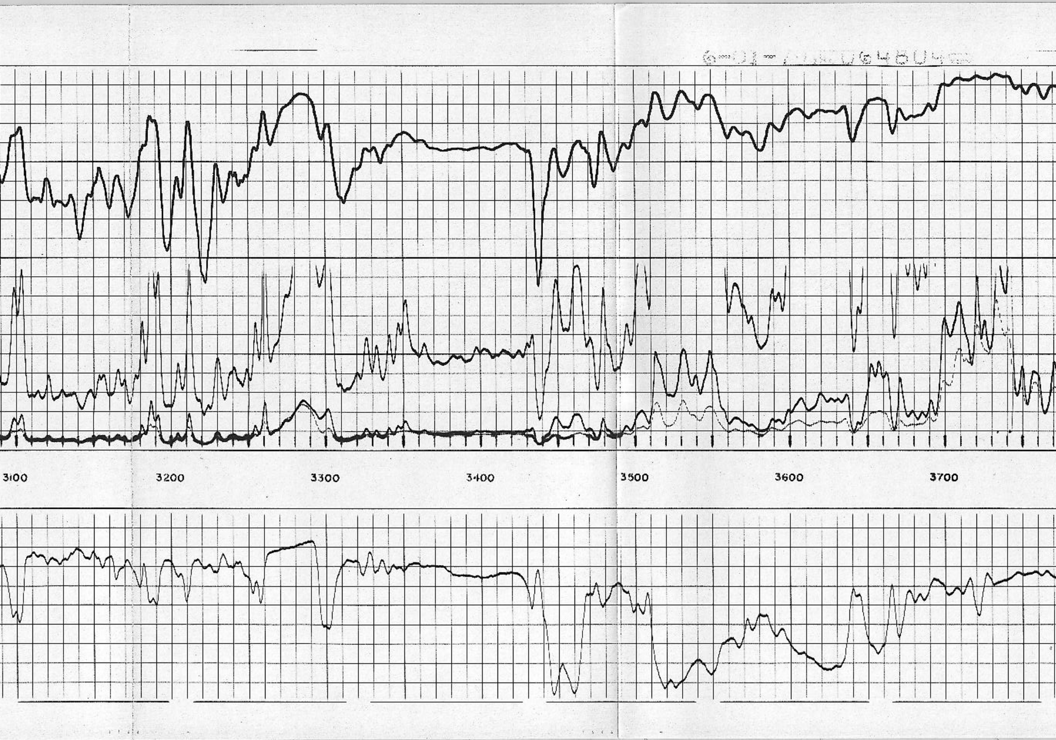
CONDUCTIVITY MILLIMHOS/M
DEEP INDUCTION
2000 0

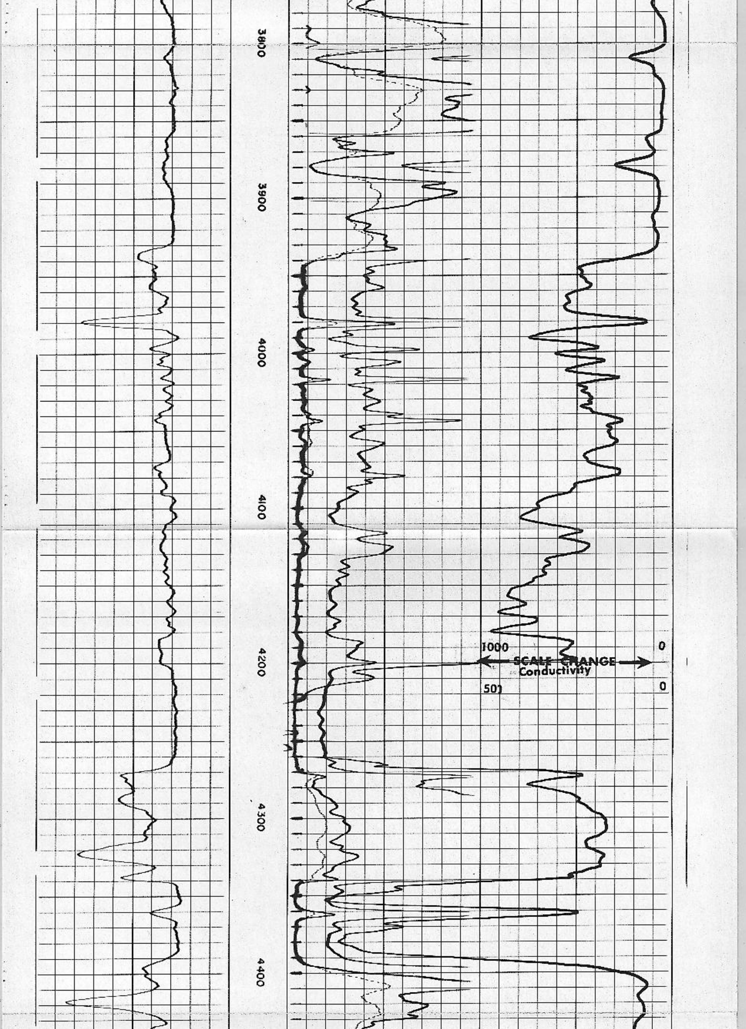


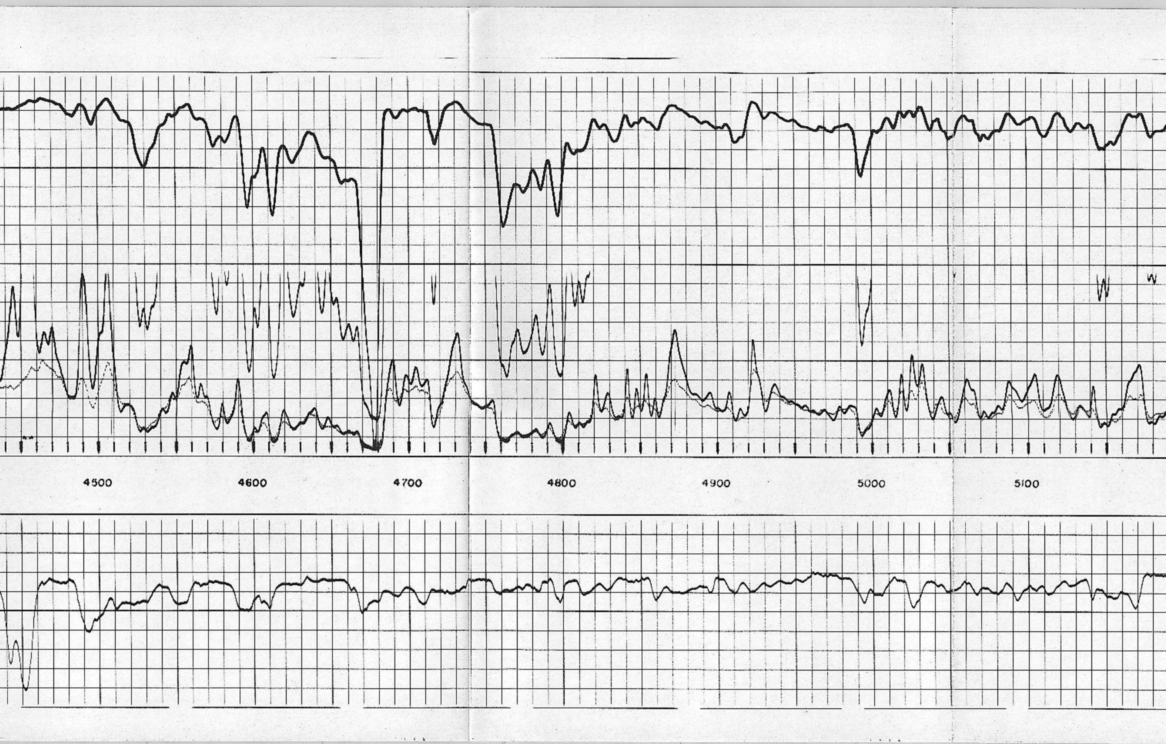


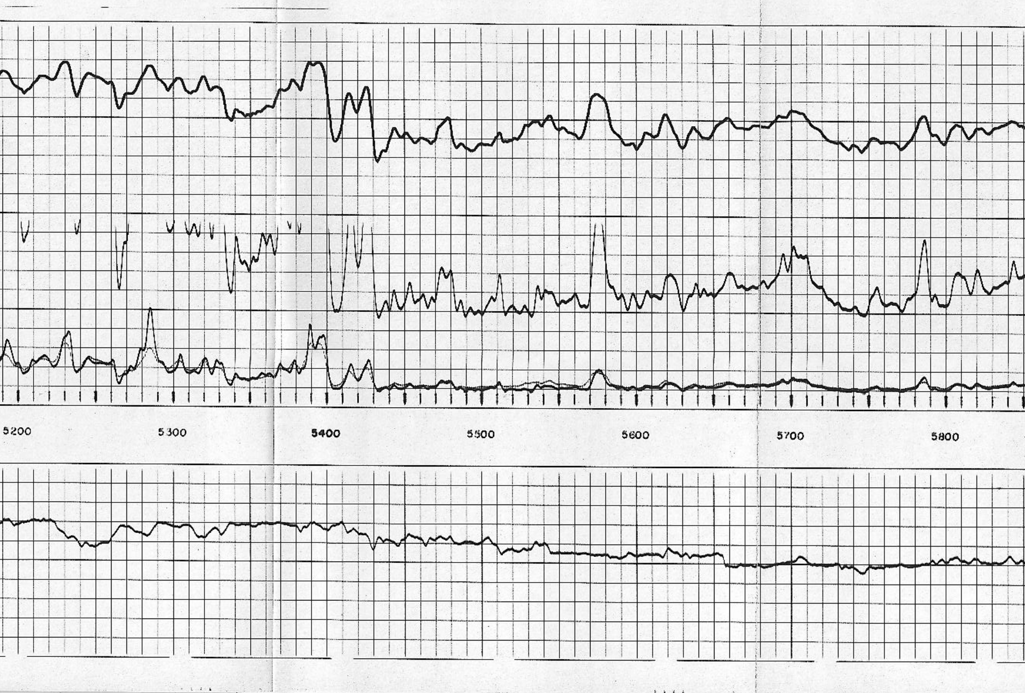


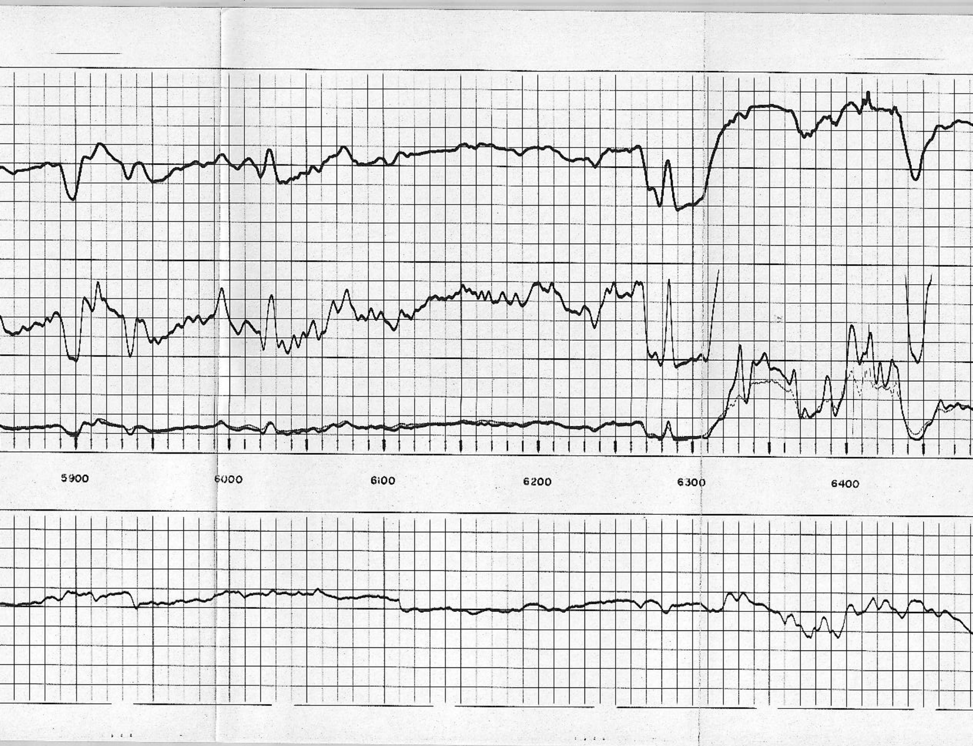


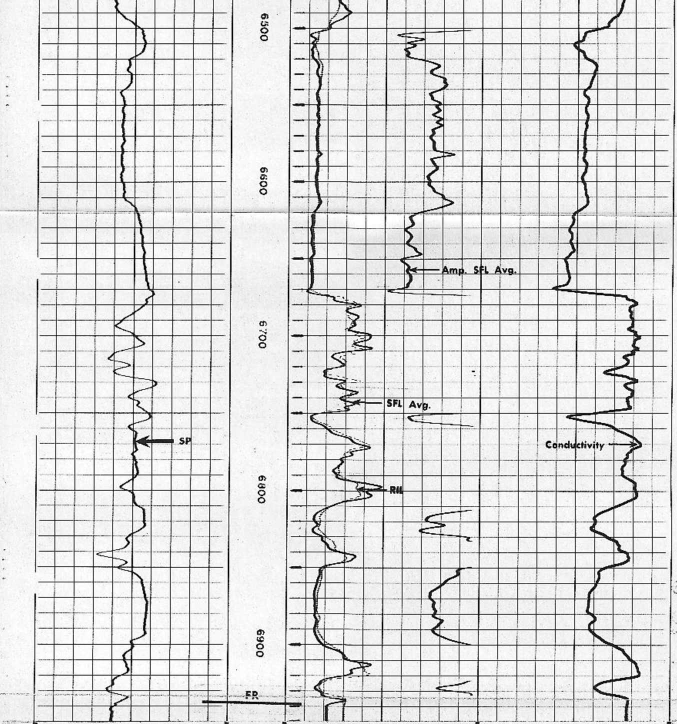












SPONTANEOUS-POTENTIAL

— 10 + MILLIVOLTS

DEPTH

RESISTIVITY OHMS. M^2/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

500 0

COMPANY UNION OIL COMPANY
WELL DE BRAGA NO.2
FIELD STILLWATER
COUNTY CHURCHILL STATE NEVADA

SCHL. FR 6938
SCHL. TD 6944
DRLR. TD 6946
Elev: KB
DF
GL