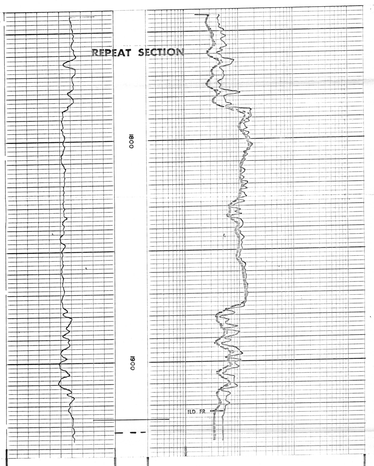
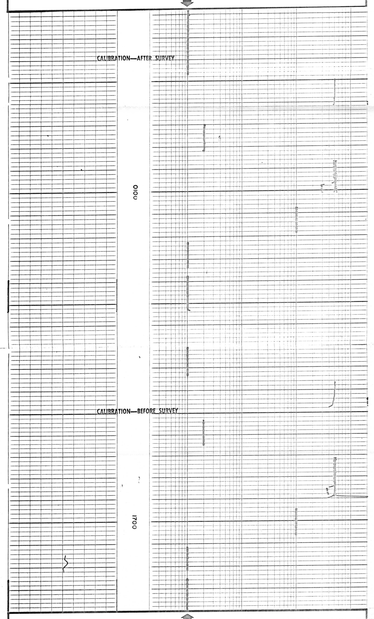


SPONTANEOUS-POTENTIAL MILLIVOLTS	DIFFIS	RESISTIVITY OHMS, M²/M

LATEROLOG – 8 (0 – 10 – 100 – 1000 – 2000)
MEDIUM INDUCTION LOG (0 – 1.0 – 10 – 100 – 1000 – 2000)
DEEP INDUCTION LOG (0 – 1.0 – 10 – 100 – 1000 – 2000)

COMPANY U.S. GEOLOGICAL SURVEY & NATIONAL PARK SERVICE — SCHL FR 1927, SCHL TD 1955, DRLR TD 1955, Elev. KB 2774, DF ----, GL 2770
WELL PAINTED CANYON OVERLOOK NO.1
FIELD --
COUNTY BILLINGS STATE NORTH DAKOTA

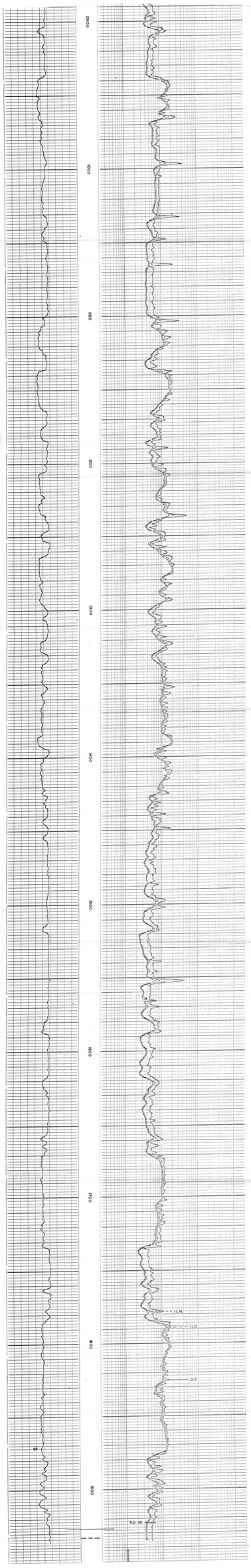
CALIBRATION RECORD

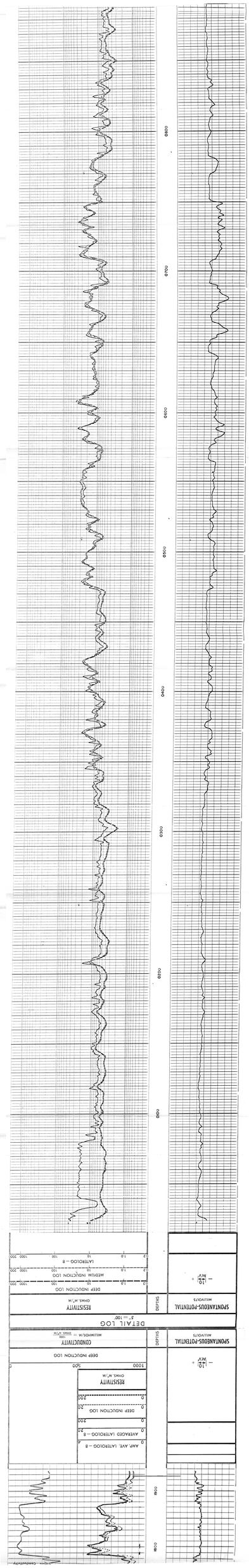


CALIBRATION RECORD

COMPANY U.S. GEOLOGICAL SURVEY & NATIONAL PARK SERVICE — SCHL FR 1927, SCHL TD 1955, DRLR TD 1955, Elev. KB 2774, DF ----, GL 2770
WELL PAINTED CANYON OVERLOOK NO.1
FIELD --
COUNTY BILLINGS STATE NORTH DAKOTA

3B--Dual Induction-Laterolog





Schlumberger — DUAL INDUCTION-LATEROLOG — WIRELINE SERVICES CORPORATION

COMPANY U.S. GEOLOGICAL SURVEY AND NATIONAL PARK SERVICE
WELL PAINTED CANYON OVERLOOK NO.1
FIELD --
COUNTY BILLINGS STATE NORTH DAKOTA
Other Services: NEUTRON-GAMMA RAY

Run No.	Bit Size	Casing Size	Depth Driller	Depth Logger	Bottom Log Interval	Top Log Interval	Type Fluid in Hole	Dens.	Visc.	pH	Fluid Loss	Source of Sample	Rm @ Meas. Temp.	Rmf @ Meas. Temp.	Rmc @ Meas. Temp.	Source: Rmf Rmc	Rm @ BHT	Rmf @ BHT	Rmc @ BHT
1	7 7/8	8 5/8	1955	1955	1955	SURFACE	FULL MUD	9.1	45	8	-	-	@ °F	@ °F	@ °F	-	@ °F	@ °F	@ °F
2	7 7/8	8 5/8	1955	1955	1955	SURFACE	FULL MUD	9.1	45	8	-	-	@ °F	@ °F	@ °F	-	@ °F	@ °F	@ °F

Date: 6-13-73
Time: 0400
Time Since Circulation: 1 hr.
Time Since Logger at Bottom: 1 hr.
Max. Rec. Temp. Recorded °F: 90
Equipment Location: Billings
Recorded by: Hoffman
Witnessed by: Mr. Gunn

Elev.: K.B. 2774 ft. above Perm. Datum
D.F. 2771 ft.
G.L. 2770 ft.

Log Measured from: KB
Drilling Measured from: KB

Rig: Cardwell #2

FOLD HERE

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

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES
Date
Time
Depth - Driller
Depth - Logger
Type Fluid in Hole
Dens.
Visc.
pH
Fluid Loss
Source of Sample
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Source: Rmf Rmc
Rm @ BHT
Rmf @ BHT
Rmc @ BHT

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

EQUIPMENT DATA

Run No.	ONE
Panel No.	DIP-C-372
Cent. No.	DIC-D-262
Sonde No.	DIS-D-33
D.A. Panel No.	MMP-D-232
D.A. Serial No.	--
D.R. Panel No.	--
TTR No.	--
Cent. Device	USED
Stand off - Inches	1-1/2
Time Const. - Sec.	--
Speed - F.P.M.	--

REMARKS
Service Order No. 76407
API Serial No.

X Surface determined sonde errors used for DIP40.
DIP40 sonde error corrected for borehole signal at Rm ____ inch
DIP40 zero set in hole at depth of ____ feet

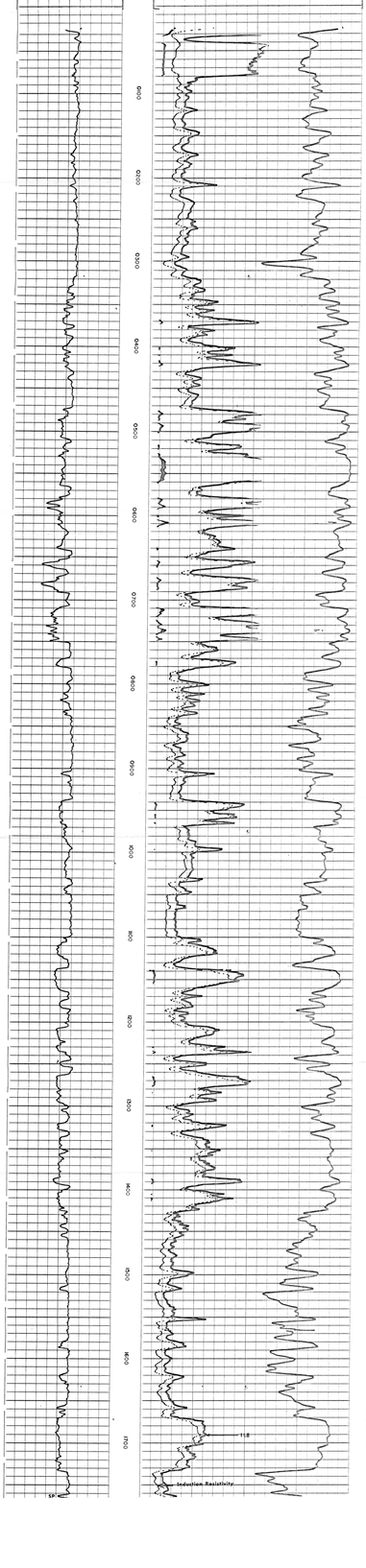
CALIBRATION DATA

CALIBRATION	BACKGND. CPS.	SOURCE CPS.	DAILY INCR. DIVISION	SENS. TAP (FOR CAL.)	SENS. TAP (RECORD)	TIME CONST.
GAMMA RAY	-	-	-	-	-	-

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 be liable or responsible for any loss or damage to the size of gross or willful negligence on our part, for losses or responsible for any loss or damage resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

SPONTANEOUS-POTENTIAL MILLIVOLTS	CONDUCTIVITY MILLIMHOS/M (1000 / OHMS, M²/M)
10 / MV	DEEP INDUCTION LOG 1000 – 500 – 0

RESISTIVITY OHMS, M²/M
DEEP INDUCTION LOG 0 – 20; 0 – 200
AVERAGED LATEROLOG - 8 0 – 20; 0 – 200
AMP. AVE. LATEROLOG - 8 0



74-186