GSD 164 Permit #20007

Schlumberger

DUAL INDUCTION - LATEROLOG

COUNTY ANDREW
FIELD or LOCATION SEC. 27-60N-34W
WELL COWGER #1
COMPANY TEXACO, INC.

COMPANY TEXACO, INC.

RELEASED

WELL COWGER #1
FIELD WILDCAT
COUNTY ANDREW STATE MISSOURI

Location: 700' SL 600' WL SW-SW
API Serial No:
Sec. 27 Twp. 60N Rge. 34W

Other Services: FDC-GR, HDT

Permanent Datum: GROUND LEVEL, Elev.: 995
Log Measured From KB, 5 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 1000
D.F. ----
G.L. 995

Date	11-30-73			
Run No.	ONE			
Depth—Driller	1460			
Depth—Logger	1462			
Btm. Log Interval	1456			
Top Log Interval	128			
Casing—Driller	8 5/8@ 128	@		@
Casing—Logger	128			
Bit Size	6 3/4"			
Type Fluid in Hole	FRESH MUD W/GEL			
Fluid Level	FULL			
Dens. | Visc.	9.6 | 32	|	|	|
pH | Fluid Loss	10 | 40 ml	| ml	| ml	| ml
Source of Sample	MUD PIT			
Rm @ Meas. Temp	6.14 @65 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp	5.87 @65 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp	-- @-- °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	MP | --	|	|	|
Rm @ BHT	4.50 @90 °F	@ °F	@ °F	@ °F
Time Since Circ.	11 HOURS			
Max. Rec. Temp.	90 °F	°F	°F	°F
Equip. | Location	4571 | WICH	|	|	|
Recorded By	PARSLOW, COX			
Witnessed By	HAYS, MORTON, DISTELER			

RECEIVED
DEC 0 6 1973
OIL & GAS COUNCIL

FOLD HERE

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

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES

Date | Sample No.	|	|
Depth - Driller		
Type Fluid in Hole		
Dens. | Visc.	|	|
ph | Fluid Loss	| ml	| ml
Source of Sample		
Rm @ Meas. Temp.	@ °F	@ °F
Rmf @ Meas. Temp.	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F
Source: Rmf | Rmc	|	|
Rm @ BHT	@ °F	@ °F
Rmf @ BHT	4.30 @90 °F	@ °F
Rmc @ BHT	@ °F	@ °F

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

EQUIPMENT DATA

Run No.	ONE		
Panel No.	CB-204		
Cart. No.	B-154		
Sonde No.	DB-48		
Mem. Panel No.	B-118		
G.R. Cart. No.	---		
G.R. Panel No.	---		
TTR No.	---		
Cent. Device	NOT USED		
Stand off - Inches	ZERO		
Time Const. - Sec.	---		
Speed - F.P.M.	---		

REMARKS

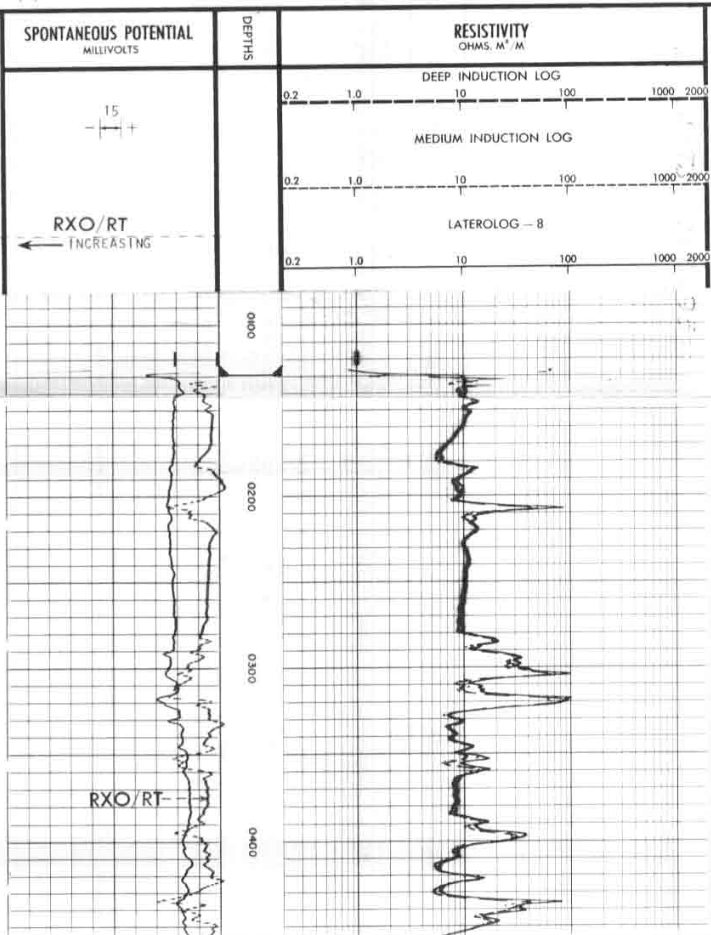
Service Order No. - 83695

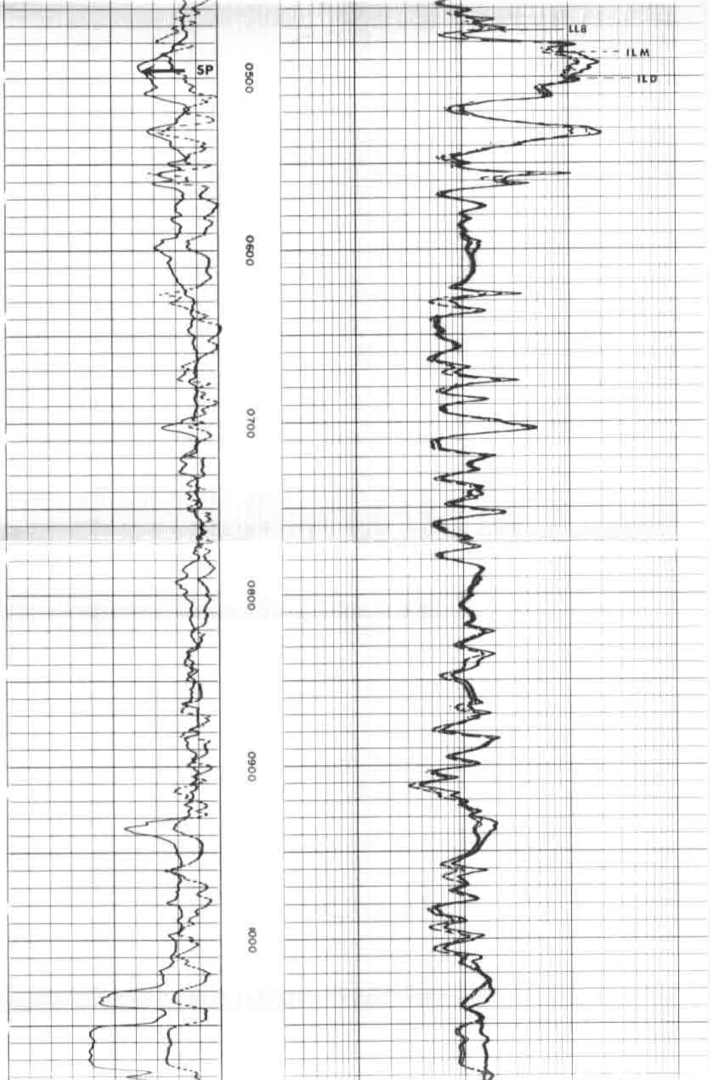
☒ Surface determined sonde errors used.
☐ Sonde error corrected for inch borehole signed at Rm =
☐ Induction zero set in hole at depth of feet.

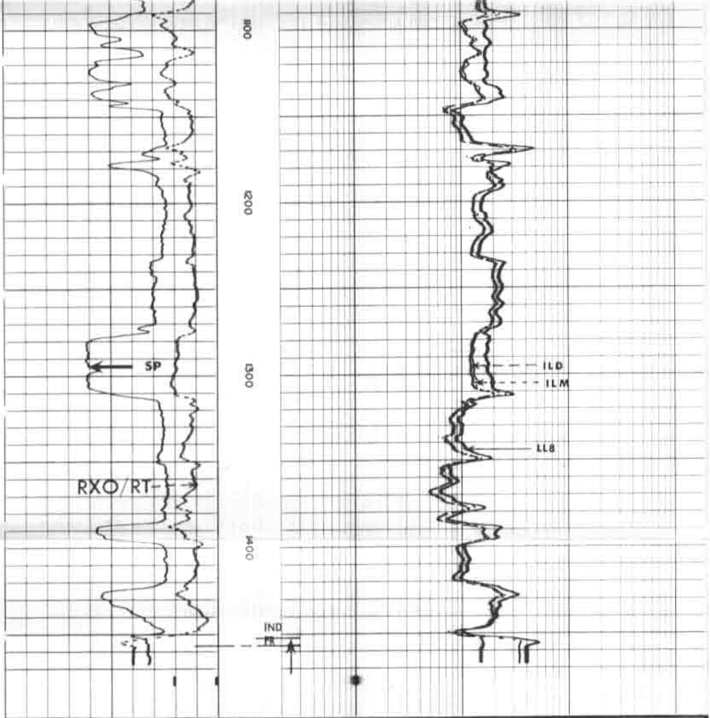
CALIBRATION DATA

CALIBRATION:	BACKGND. CPS.	SOURCE CPS.	GALV. 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, 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 7 of our General Terms and Conditions as set out in our current Price Schedule.



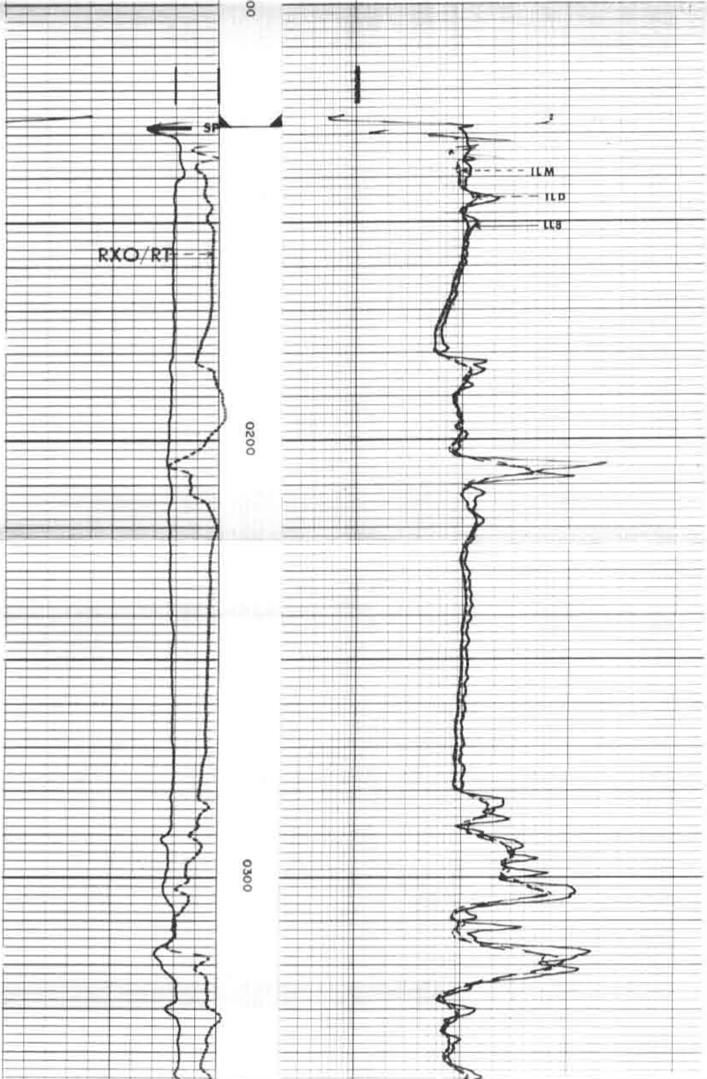


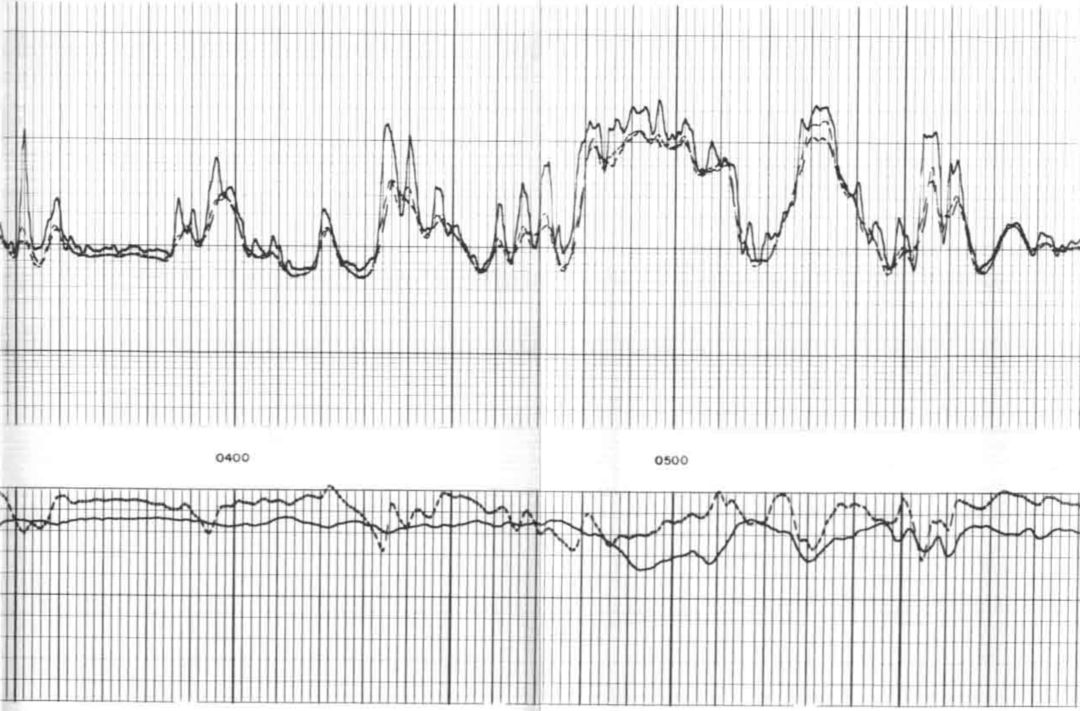


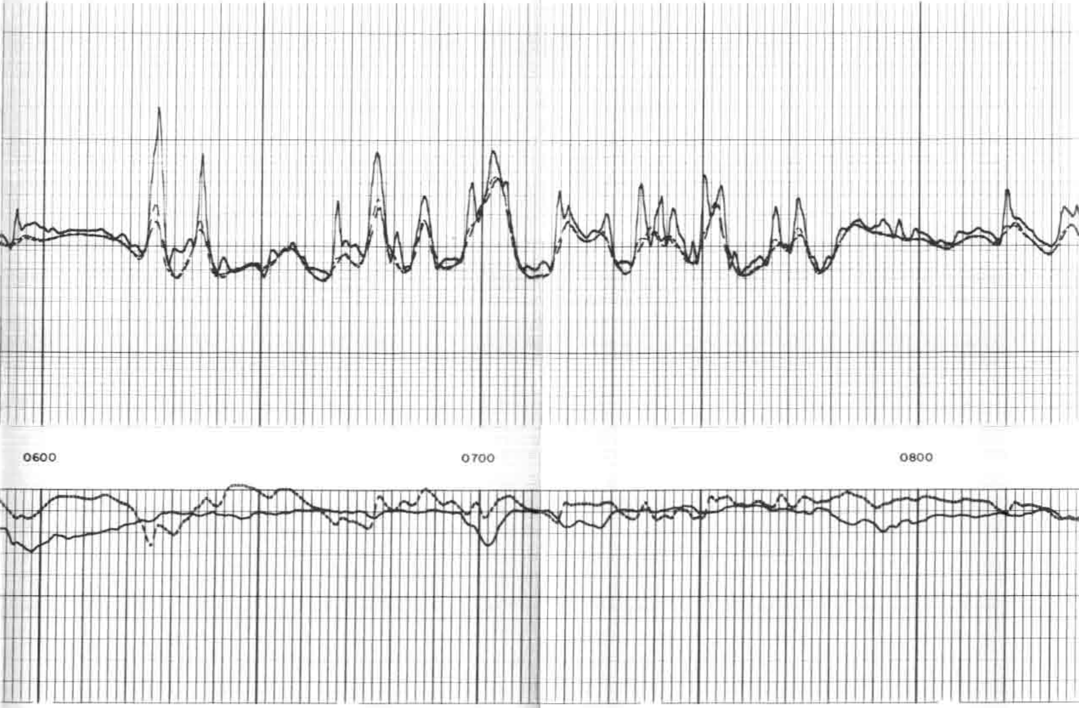
DETAIL LOG

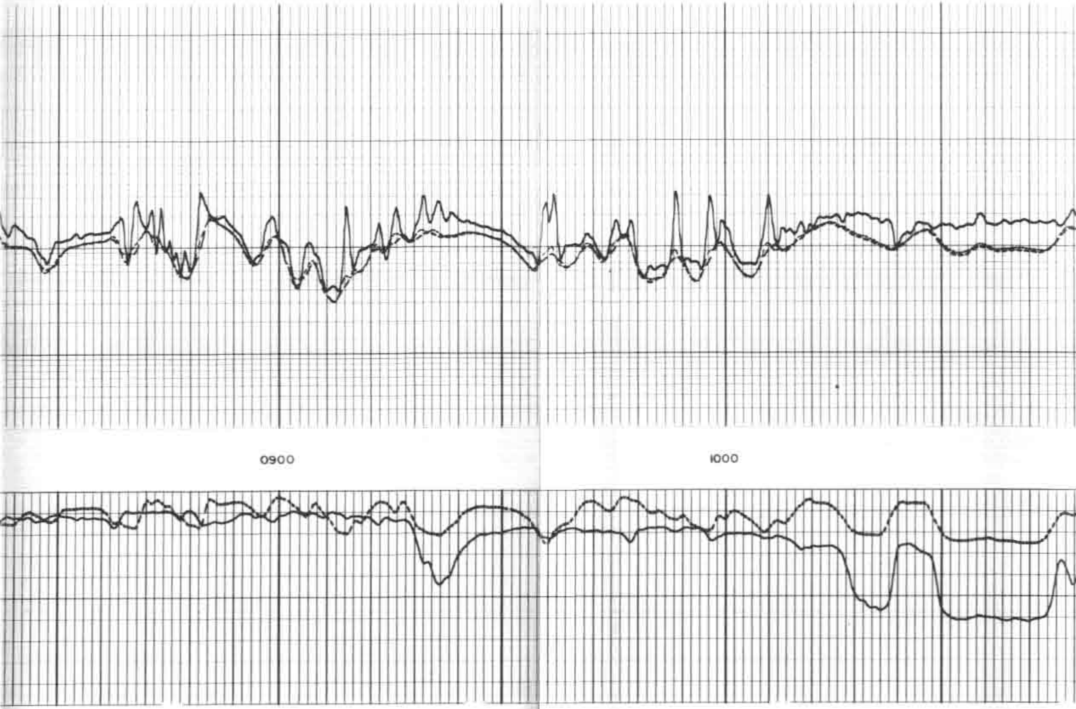
5" = 100'

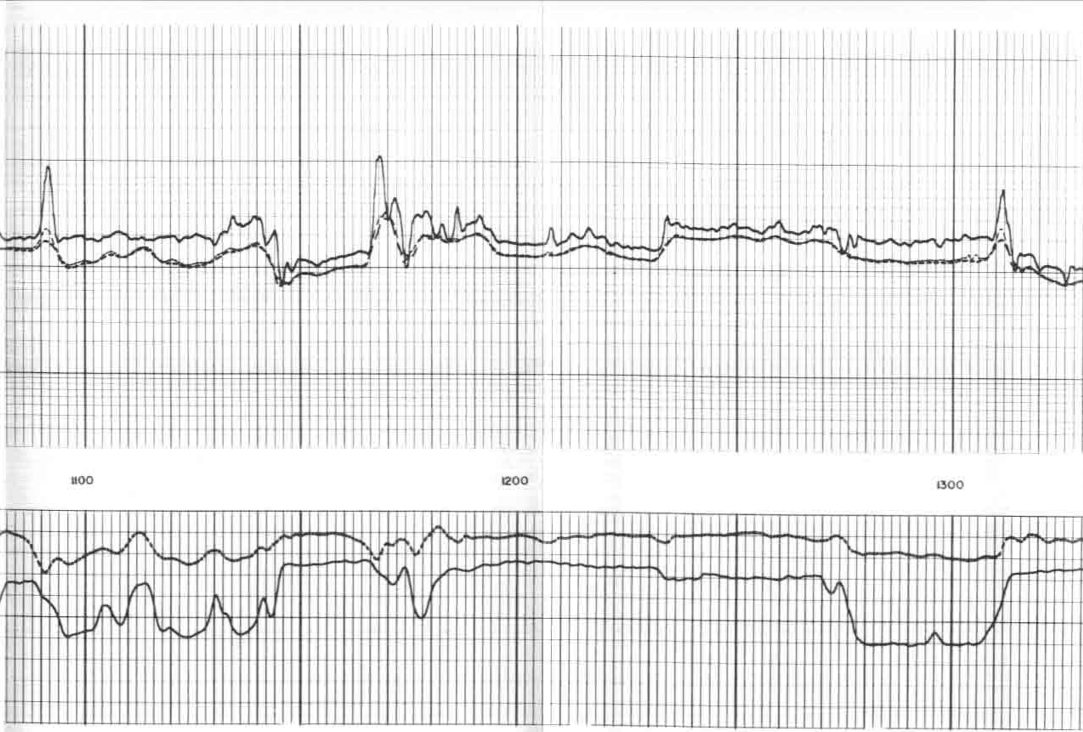
SPONTANEOUS POTENTIAL MILLIVOLTS	DEPTHS	RESISTIVITY OHMS M^2/M
− |15| +		LATEROLOG — 8 0.2 1.0 10 100 1000 2000
RXO/RT ← INCREASING		MEDIUM INDUCTION LOG 0.2 1.0 10 100 1000 2000 DEEP INDUCTION LOG 0.2 1.0 10 100 1000 2000

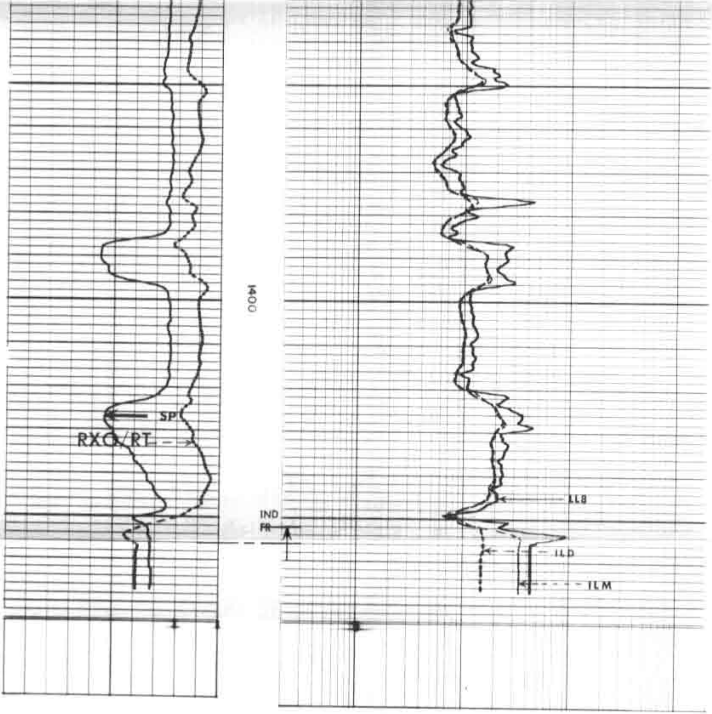


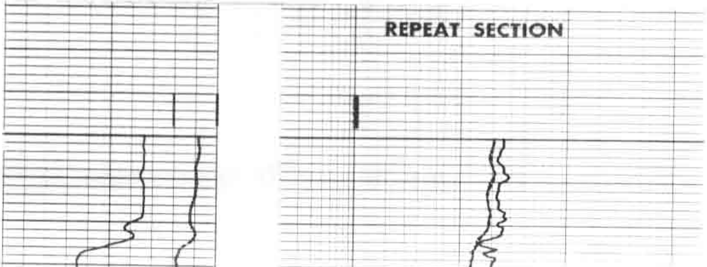


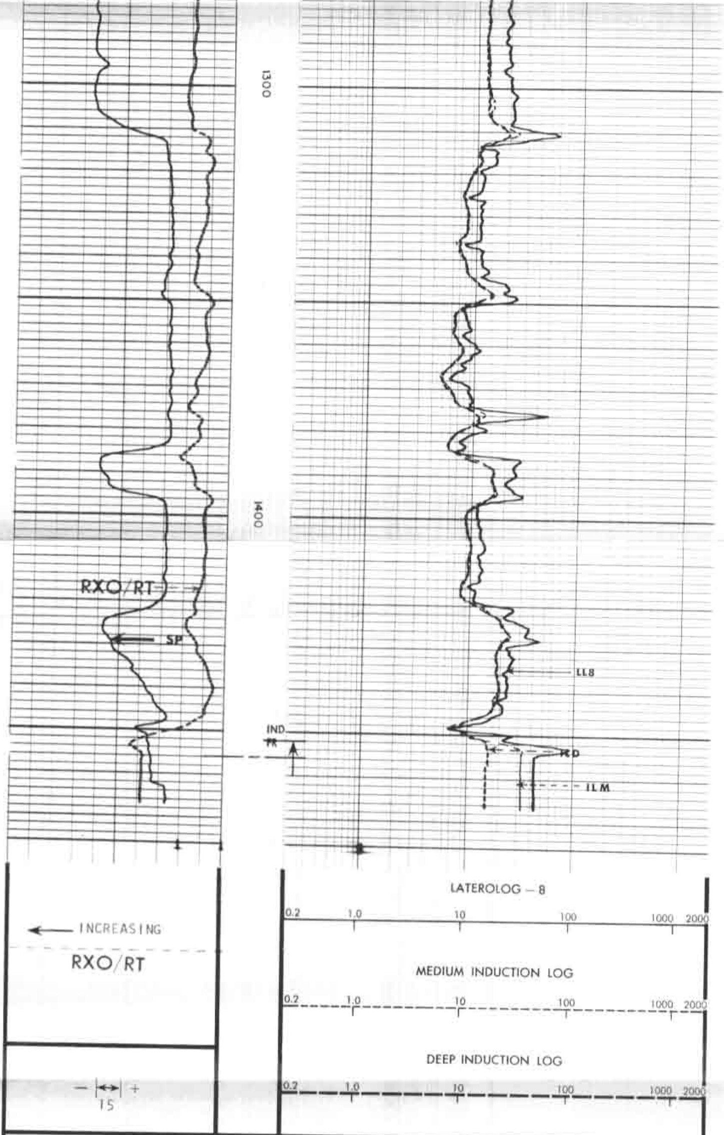






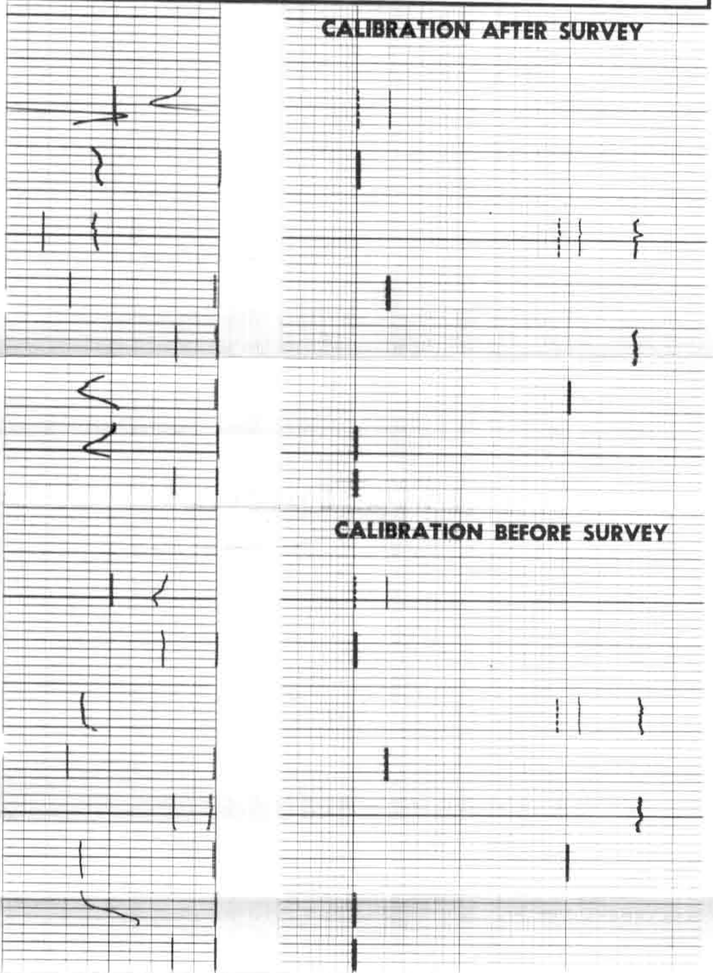






SPONTANEOUS POTENTIAL MILLIVOLTS	DEPTHS	RESISTIVITY OHMS. M² M

CALIBRATION RECORD



CALIBRATION RECORD

COMPANY TEXACO, INC.
WELL COWGER #1
FIELD WILDCAT
COUNTY ANDREW STATE MISSOURI

SCHL. FR 1456
SCHL. TD 1462
DRLR TD 1460
Elev:
KB 1000
DF --
GL 995

Log Analysis

SCHLUMBERGER

COMPANY TEXACO, INC.
WELL COWGER #1
FIELD WILDCAT
COUNTY ANDREW
STATE MISSOURI

DEPTH	RT	RW	PG	% POROSITY	% WATER	REMARKS
930-33	12	.6	2.68	15	100+	
33-38	12	"	"	12.5	100+	
1028-38	9/15	"	"	23.5	100	
1050-57	8	"	"	24	100+	
57-61	10	"	"	20	100+	
61-64	9	"	"	24	100+	
64-66	9	"	"	22	100+	
66-68	9	"	"	23	100+	
68-71	9	"	"	20	100+	
71-75	9	"	"	22	100+	
1096-98	10	"	"	22	100+	
1100-04	11	"	"	20 AVG.	100+	
1176-80	20	"	"	18	100	
1276-92	13	"	"	20/22	100	
92-95	12	"	"	24.5	100	
95-1310	13	"	"	20/22	100	
1386-96	16	"	"	18	100	
1424-30	22	"	"	16	100	
30-48	--	"	"	--		SHALEY

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DATE
LOCATION
ENGINEER

11-30-73	WICHITA, KANSAS	PARSLOW