G01587

Schlumberger DUAL INDUCTION - LATEROLOG

COUNTY	HOLT
FIELD or LOCATION	SEC. 35-63N-38W
WELL	GALLAGHER #1-7
COMPANY	SANDS-AMERICAN

COMPANY	SANDS-AMERICAN CORPORATION
WELL	GALLAGHER #1-7
FIELD	WILDCAT
COUNTY	HOLT
STATE	MISSOURI
Location	50' EAST OF SW/4 SW/4
API Serial No.	
Sec.	35
Twp.	63N
Rge.	38W
Other Services	CNL-FDC-GR

Permanent Datum	GROUND LEVEL	Elev.	982
Log Measured From	KB	4.5 Ft. Above Perm. Datum	
Drilling Measured From	KB		
Elev.: K.B.	986.5		
D.F.	---		
G.L.	982		

CONFIDENTIAL

Date	9-7-74
Run No.	ONE
Depth—Driller	2012
Depth—Logger	2009
Btm. Log Interval	2008
Top Log Interval	210
Casing—Driller	7 @ 221
Casing—Logger	
Bit Size	6 3/4
Type Fluid in Hole	FGM
Dens. / Visc.	12.0 / 45
pH / Fluid Loss	--- / --- ml
Source of Sample	CIRCULATED
Rm @ Meas. Temp.	5.11 @ 71 °F
Rmf @ Meas. Temp.	4.56 @ 71 °F
Rmc @ Meas. Temp.	--- @ --- °F
Source: Rmf / Rmc	M / ---
Rm @ BHT	3.78 @ 96 °F
Time Since Circ.	3 HOURS
Max. Rec. Temp.	96 °F
Equip. / Location	4571 / WICH
Recorded By	LANGENBUCH
Witnessed By	AVIS

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	3.37 @ 96 °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	NO
Stand off Inches	---
Time Const. Sec.	---
Speed - F.P.M.	80

REMARKS

Service Order No. - 83616

$F = 1/\emptyset^2$ RO = FRW

$\emptyset = \frac{\emptyset D + \emptyset N}{2}$

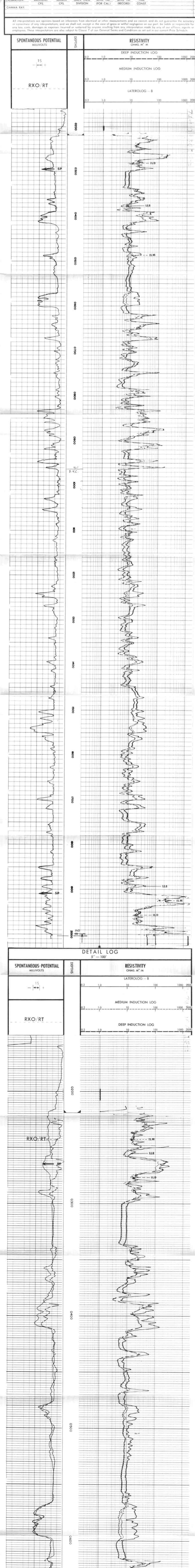
[X] Surface determined sonde errors used.
[ ] Sonde error corrected for inch borehole signal at R_m.
[ ] Induction zero set in hole at depth of feet

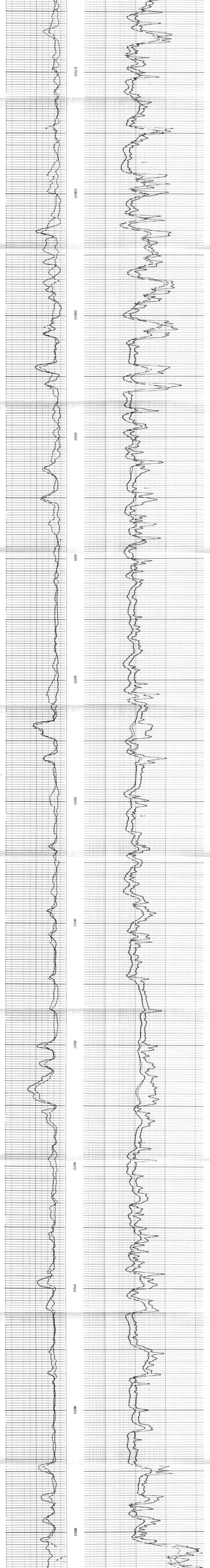
CALIBRATION DATA

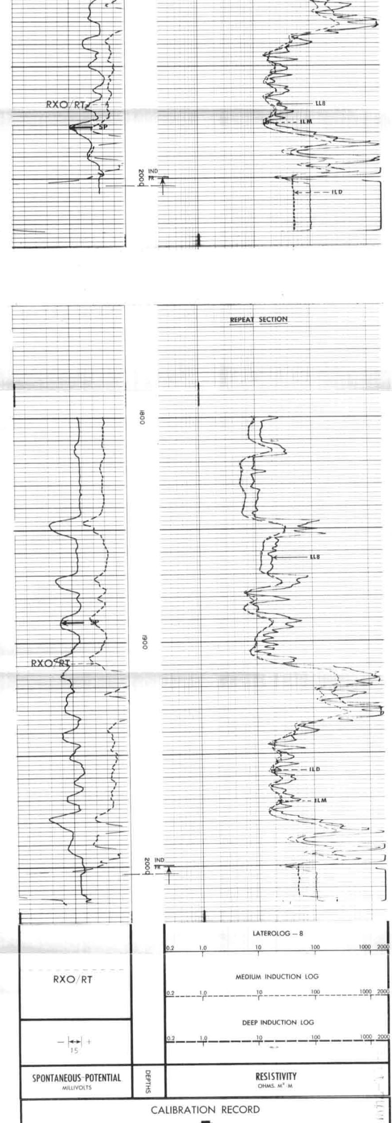
CALIBRATION	BACKGND. CPS.	SOURCE CPS.	GALV. INCR. DIVISION	SENS. TAP (FOR CAL.)	SENS. TAP (RECORD)	TIME CONST.
GAMMA RAY						

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.

SPONTANEOUS POTENTIAL MILLIVOLTS	DEPTHS	RESISTIVITY OHMS. M²/M
15		DEEP INDUCTION LOG 0.2 1.0 10 100 1000 2000
RXO/RT		MEDIUM INDUCTION LOG 0.2 1.0 10 100 1000 2000
		LATEROLOG — 8 0.2 1.0 10 100 1000 2000

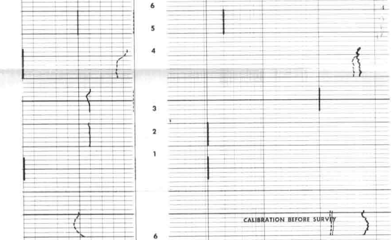






SPONTANEOUS POTENTIAL MILLIVOLTS	DEPTHS	RESISTIVITY OHMS. M²/M
		LATEROLOG — 8 0.2 1.0 10 100 1000 2000
RXO/RT		MEDIUM INDUCTION LOG 0.2 1.0 10 100 1000 2000
15		DEEP INDUCTION LOG 0.2 1.0 10 100 1000 2000

CALIBRATION RECORD



DUAL INDUCTION CALIBRATION FILM CODING

1. MECHANICAL ZERO
2. 1 OHM-M
3. 100 OHM-M
4. ELECTRICAL ZERO (500 OHM-M)
5. 2 OHM-M
6. SONDE ERRORS (+2 MMHO)
7. ZERO SIGNAL IN AIR
8. ILd TEST LOOP (2 OHM SIGNAL)
9. ILm TEST LOOP (2 OHM SIGNAL)
10. Rxo Rt UNITY
11. Rxo Rt CALIBRATE

CALIBRATION RECORD

COMPANY	SANDS-AMERICAN CORPORATION	SCHL. FR	2003
WELL	GALLAGHER #1-7	SCHL. TD	2009
FIELD	WILDCAT	DRLR TD	2012
COUNTY	HOLT	STATE	MISSOURI
Elev: KB	986.5	DF	---
GL	982		

Log Analysis

SCHLUMBERGER

COMPANY: SANDS-AMERICAN CORPORATION — WELL: GALLAGHER #1-7
FIELD: WILDCAT — COUNTY: HOLT — STATE: MISSOURI

DEPTH	RT	RW	ØD	ØN	% POROSITY	% WATER	REMARKS
359-60	20	1.0 / 0.3	7	20	13.5	100 / 91	
392-94	30	0.5 / 0.3	10	16	13	99 / 77	
404-06	25	0.5 / 0.3	8	14	11	100 / 99	
433-35	23	1.0 / 0.3	2	10	6	100 / 100	
575-784	6.5	0.7 / 0.3	24	31	22.5	100 / 95	SHALEY
702-04	13	1.0 / 0.3	4	15	9	100 / 100	
832-34	31	0.5 / 0.3	4	9	6.5	100 / 100	
1076-78	10	0.3	9	23	16	100	
1470-77	20	0.3	6	20	13	94	
1500-04	13	"	14	24	19	80	SHALEY
1510-15	13	"	13	24	18½	82	25Ø 75
1534-40	10	"	18	18	18	96	
1560	13	"	12	18	15	100	
1812-16	20	"	10	18	14	87	
1848-52	32	"	8	12	10	96	
1870-74	28	"	10	12	11	94	
1888-92	19	"	16	13	14½	86.6	

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LOCATION: WICHITA, KANSAS — ENGINEER: LANGENBUCH