Schlumberger

DUAL SPACING THERMAL NEUTRON DECAY TIME

COMPANY L & R DRILLING, INC. (CLINTON)

WELL EMRICH NO. 2-A

FIELD WILDCAT

COUNTY BUTLER STATE MISSOURI

Permanent datum: GROUND LEVEL Elev. 0 ft.
Log measured from: KELLY BUSHING 1 ft. above perm. datum
Drilling Measured from: KELLY BUSHING

Date: 2-8-82
Run No.: ONE
Depth-Driller: 1000
Depth-Logger: 1000
Bottom log interval: 1000
Top log interval: SURFACE
Casing-Driller: 8 5/8 @ 20 ft.
Casing-Logger: NONE
Bit Size: 7 7/8
Type fluid in hole: WATER
Density: 8.4
Viscosity: 28
Fluid loss: NONE
Source of sample: PIT
Rm @ meas. temp.: .75 @ 70 °F
Rmf @ meas. temp.: .75 @ 70 °F
Rmc @ meas. temp.: .75 @ 70 °F
Source: Rmf Rmc: MEASURED
Rm @ BHT: .75 @ 100 °F
Time since circulation: 24 HRS
Time since last log: 24 HRS
Max. rec. temp. deg. F: 100
Equipment location: 3 MILES SOUTH OF POPLAR BLUFF
Recorded by: R. WEBB
Witnessed by: MR. WEBB

RECEIVED
FEB 2 1982
MOL GAS & MINERAL DIVISION

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

Schlumberger makes no representation as to the productivity, proper operation, profitability, or any other matter concerning the well or the formations penetrated. Our interpretations represent our best judgment based on the data and information furnished by our customer. We assume no responsibility for the use, care, operation, or maintenance of the well or any equipment, machinery, or materials used in connection with our operations. Our liability and your remedy for any loss or damage to persons or property caused by our negligence is limited to the lesser of your actual damages or the charges for the service in question. We do not guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, cost, damage or expense incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions set forth in our current price schedule.

EQUIPMENT DATA

Logging Unit	3301
Logging Engr.	TYNG
Location	MIDWEST
Truck No.	4215
Tool A	DSTN
Tool A Loc.	22A
Tool A S/N	148
Tool A	
Tool A S/N	227

CALIBRATION DATA

Run No.		1	2
GR	BKG. CPS	240	
	Source CPS	1420	
	Factor	1.00	
TDT	BKG. CPS	8	
	Source CPS	2.3k	
	Factor	1.00	
TDT	BKG. CPS	7	
	Source CPS	1500	

GENERAL

Run No.	ONE
Series Order No.	120043
Fluid Type in Hole	WATER
Fluid Level in Casing	
Hardway Road	
Battery, ppm No. Cl	
Measured Cement Top	SURFACE
Source of Cement Top	
Signature of Operator	
Signature of Witness	
Log Collars Recorded	23 - 6, 1000 ft.

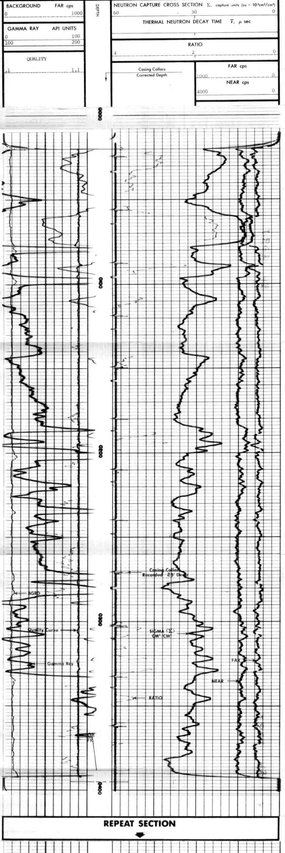
RECORDING DATA

	BEGIN		END		
NO.	TIME LOG	FROM	TO	FT. MIN.	% S. SCALE
1	1000-0	1000	20	15 4	100-50-0

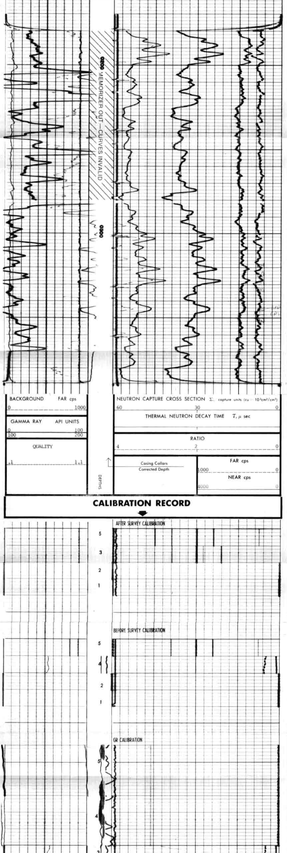
REVERSED ON REPEAT SECTION OR

FINAL PASS.

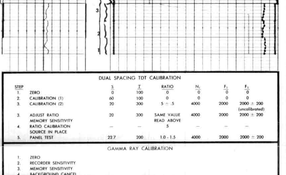
The information and opinions based on interpretations from electrical or other measurements and on records and/or not guarantee the accuracy or correctness of any interpretations, and we shall not incur in the case of gross or willful negligence on our part, be liable or responsible for loss, cost, damage or expense incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions set forth in our current price schedule.



REPEAT SECTION



CALIBRATION RECORD



DUAL SPACING TDT CALIBRATION

STEP		Σ	T	RATIO	N_1	F_1	F_2
1.	ZERO	0	100	0	0	0	0
2.	CALIBRATION (1)	60	100	0	0	0	0
3.	CALIBRATION (2)	20	200	5 - 5	4000	2000	2000 - 200 (conditioned)
3.	ADJUST RATIO MEMORY SENSITIVITY	20	300	SAME VALUE READ ABOVE	4000	2000	2000 - 200
4.	RATIO CALIBRATION SOURCE IN PLACE			5			
5.	PANEL TEST	22.7	200	5.0-1.5	4000	2000	2000 - 200

GAMMA RAY CALIBRATION

1. ZERO
2. RECORDER SENSITIVITY
3. MEMORY SENSITIVITY
4. BACKGROUND CANCEL
5. CALIBRATE SOURCE IN PLACE

CALIBRATION RECORD

COMPANY L & R DRILLING, INC. (CLINTON)

WELL EMRICH NO. 2-A

FIELD WILDCAT

COUNTY BUTLER STATE MISSOURI

SCH. FB 3801
SCH. TD 2255
SCH. TD 2XC
Elev.
KB
DF
GL 1000.0