G01912

No Permit #

Schlumberger

CEMENT BOND LOG
VARIABLE DENSITY

COUNTY ____ Field or LOCATION ____ WELL ____ COMPANY ____

COMPANY	LACLEDE GAS COMPANY
WELL	BACH #1
FIELD	FLORISSANT
COUNTY	ST. LOUIS — STATE MISSOURI
LOCATION N — API Serial No.	Other Services: GR-N, ETT
Sec 6 Twp 47N Rge 7E	

Permanent Datum: G.L. , Elev. 541.0
Log Measured From G.L. 0 Ft. Above Perm. Datum
Drilling Measured From G.L.
Elev.: K.B. — D.F. — G.L. 541.0

Date	6-2-80	Casing Fluid	OIL + WATER
Run No.	ONE	Fluid Level	30
Depth – Driller	880	Max. Rec. Temp.	— °F
Depth – Logger	881	Est. Cement Top	300
Btm. Log Interval	873	Unit / District	7748 / LANGTON
Top Log Interval	865 / 000	Recorded By	MR. VERAN
Open Hole Size	—	Witnessed By	MR. WARNER

CASING REC	Size	Wt/Ft	Grade	Type Joint	Top	Bottom
Surface String						
Prot. String						
Prod. String	5½	—	—	—	SURF	1035
Liner						

PRIMARY CEMENTING DATA				
STRING	Surface	Protection	Production	Liner
Vol. of cement				
Type of cement				
Additive				
Retarder				
Wt. of slurry				
Water loss				
Type fluid in csg				
Fluid wt.				

MO. OIL & GAS COUNCIL
JUN 10 1980

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

PRIMARY CEMENTING DATA	
☐ Actual ☐ Estimated	Hour - Date
Started pumping cement	
Release pressure	
Start Cement Bond Log	
Finish Cement Bond Log	

REMARKS: LOG RECORDED WITHOUT PROPER CENTRALIZERS DUE TO HOLE CONDITIONS

Service Order Number 120875
Casing Collar Memory Distance ____ ft.
Radiation Log Memory Distance ____ ft.

Preceding fluid ____ Volume ____ bbls. Cement pumped ____ bbls./minute
Pipe reciprocated during Pumping: Yes ____ No ____
Pipe reciprocated after plug down: Yes ____ min, No ____

SQUEEZE JOB DETAIL	1	2
Squeeze number	1	2
Date		
Depth interval		
Type cement		
Volume of cement		
Additive		
Retarder		
Weight of slurry		
Preceding fluid		
Breakdown pressure		
Max. pressure-stage 1		
" " " 2		
" " " 3		
Final maximum pressure		
Started pumping cement		
Released pressure		
Start CBL		
Finish CBL		
AVERAGE WELL DRIFT: from ____ to ____ ; from ____ to ____		

DOWNHOLE EQUIPMENT: CCL ____ SGT ____ NLT ____ CNT ____ CCL ____ CME ____ SLC 275 CME ____ CME ____ SLS 528 CME ____ O.D. ____

SURFACE EQUIPMENT	TYPE	MOD.	S.N.
Sonic Panel	SLP	JC	520
Memorizer			
GNP			
CRP			
OWE			
CRP Intensity			6.5
R9G Intensity			8.25
Logging Speed			2400
Time Constant			—
Sweep Time μ-sec			1000
Amplitude mv/cm			5

Casing Centralizer Pattern
/Joint from ____ to ____
/Joint from ____ to ____
/Joint from ____ to ____

Casing Scratcher Pattern
/Joint from ____ to ____
/Joint from ____ to ____
/Joint from ____ to ____

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.

TRANSIT TIME	DEPTH	CASING BOND	VARIABLE DENSITY
MICROSECONDS 3' SPACING, 400 – 200		MILLIVOLTS, 0 – 50	MICROSECONDS 3' SPACING, 200 – 1200

CEMENT BOND CALIBRATION CODING

	TRANSIT TIME	AMPLITUDE
1.	MECHANICAL ZERO	MECHANICAL ZERO
2.	200 μ sec	ELECTRICAL ZERO
3.	320 μ sec	CALIBRATE 50 MV (SLP-J SERIES)
4.	400 μ sec	CALIBRATE 50 MV