66 3046
OGC # 20499

MIDWEST SURVEYS
LOGGING • PERFORATING • CONSULTING SERVICES
P. O. Box 328 Paola, KS 66071
913/294-4326

CEMENT BOND LOG

RECEIVED
JAN 25 1988
MO Oil & Gas Council
Economic Geology

COUNTY / FIELD / LOCATION / WELL / COMPANY

COMPANY: WESTERN ENGINEERING, INC.
WELL: NO. I-34
FIELD: BELTON UNIT
COUNTY: CASS STATE: MISSOURI
Location: 880' FSL + 440' FEL
Other Services: CCL
Sec. 9 Twp. 46N Rge. 33W

Permanent Datum: G.L. Elev. NA
Log Measured From: G.L. Ft. Above Perm. Datum
Drilling Measured From: G.L.
Elev. K.B. NA D.B. NA G.L. NA

Date	9-17-87	Type Drill Fluid	NA
Run No.	1 NW	Fluid in hole	WATER dens. NA
Depth-Driller	NA	Max. Rec. Temp.	NA
Depth-Logger	663.0	Est. Cement Top	NA
Btm. Log Interval	657.0	Equip. / Location	102/OSAWATOMIE
Top Log Interval	20.0	Recorded By	S. WINDISCH
Open Hole Size	NA	Witnessed By	D. STALLINGS

CASING REC.	Size	Wt/Ft	Grade	Type Joint	Top	Bottom
Surface String						
Prot. String						
Prod. String	2 7/8"	6.5			0.0	T.D.
Liner						

PRIMARY CEMENTING DATA

STRING	2 7/8"			
Vol. of Cement	NA			
Type of Cement	NA			
Additive	NA			
Retarder	NA			
Wt. of Slurry	NA			
Water Loss	NA			
Type of Fluid in Csg	FW			
Fluid Wt.	NA			

#20499

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

PRIMARY CEMENTING PROCEDURE

	Hour · Date	Hours from Start of operation
Started Pumping Cement	NA	
Released Pressure	NA	
Start Log	NA	
Finish Log	NA	

Preceding Fluid —— Volume —— bbls
Cement pumped —— bbls/minute
Pipe reciprocated during pumping yes —— no ——
Pipe reciprocated after plug down yes —— no ——

EQUIPMENT DATA

Tool Type & No. BWS 1001-T
Panel Type & No. BWS 1001-P
Logging Speed 20 FPM
Panel Gain 0.35 Panel Sensitivity 0.68
Delay Setting 2.15 Width Setting 1.30
Centralizers YES Type BS Number TWO
Trans. - Rec. Spacing THREE (3) FT Amplitude NA
Transit time NA Wave Train NA

SQUEEZE JOB DETAIL

Squeeze No.	1	2	3	4
Date				
Depth Interval				
Type Cement				
Volume of Cement				
Additive				
Retarder				
Weight of Slurry				
Preceding Fluid				
Breakdown Pressure				
Max Pressure - Stage 1				
Max Pressure - Stage 2				
Max Pressure - Stage 3				
Final Maximum Pressure				
Started Pumping Cement				
Released Pressure				
Start Log				
Finish Log				

TOOL SKETCH	CENTRALIZER DEPTHS	SCRATCHER DEPTHS

AVERAGE WELL DRIFT
° from to ° from to

DMI-01

REMARKS: FREE PIPE CALIBRATION IN WELL I-39 AT 356.0

SERVICE ORDER # 8698

COMPANY: WESTERN ENGINEERING, INC.
WELL: NO. I-34
LEASE: BELTON UNIT
COUNTY: CASS, MISSOURI
DATE: SEPTEMBER 17, 1987

T.D. 663.0
R.D. 657.0