G01665

BRUNING 40-105 55469

CORNISH

WIRELINE SERVICES, INC.
P.O. DRAWER H
CHANUTE, KANSAS
PHONE 431-9308

CEMENT BOND — VARIABLE DENSITY

FILING NO.

COMPANY CARMEL ENERGY
WELL IF - 45A
FIELD
COUNTY VERNON STATE MISSOURI
LOCATION 672' FWL 1470' FSL
OTHER SERVICES

Sec 34 Twp 36N Rge 33W

Permanent Datum G.L. Elev 769' Ft Above Perm Datum
Log Measured from G.L.
Drilling Measured from G.L.

Elev K.B. D.F. G.L. 769'

Date	11-8-82	Type Fluid in Hole	WATER & MUD
Run No	1 NW	Dens / Visc	
Depth—Driller	205.5'	Max Rec Temp	
Depth—Logger	199.5'	Est Cement Top	
Btm. Log Interval	199.5'	Equip / Location	
Top Log Interval	14'	Recorded By	UDEN, D.
Open Hole Size	7-7/8" / 6¼"	Witnessed By	YOUNG, V.

CASING REC	Size	Wt Ft	Grade	Type Joint	Top	Bottom
Surface String						
Prot. String						
Prod. String	4½"				0	176.5'
Liner						

PRIMARY CEMENTING DATA

STRING	Surface	Protection	RECEIVED
Vol. of cement			
Type of cement			NOV 12 1982
Additive			
Additive by %			MO. OIL & GAS COUNCIL
Retarder			
Retarder by %			
Wt. of slurry			
Water loss			
Drill mud type			
Drilling mud wt			

RELEASED

FOLD HERE

COMPRESSIVE STRENGTH psi Curing Temp °F

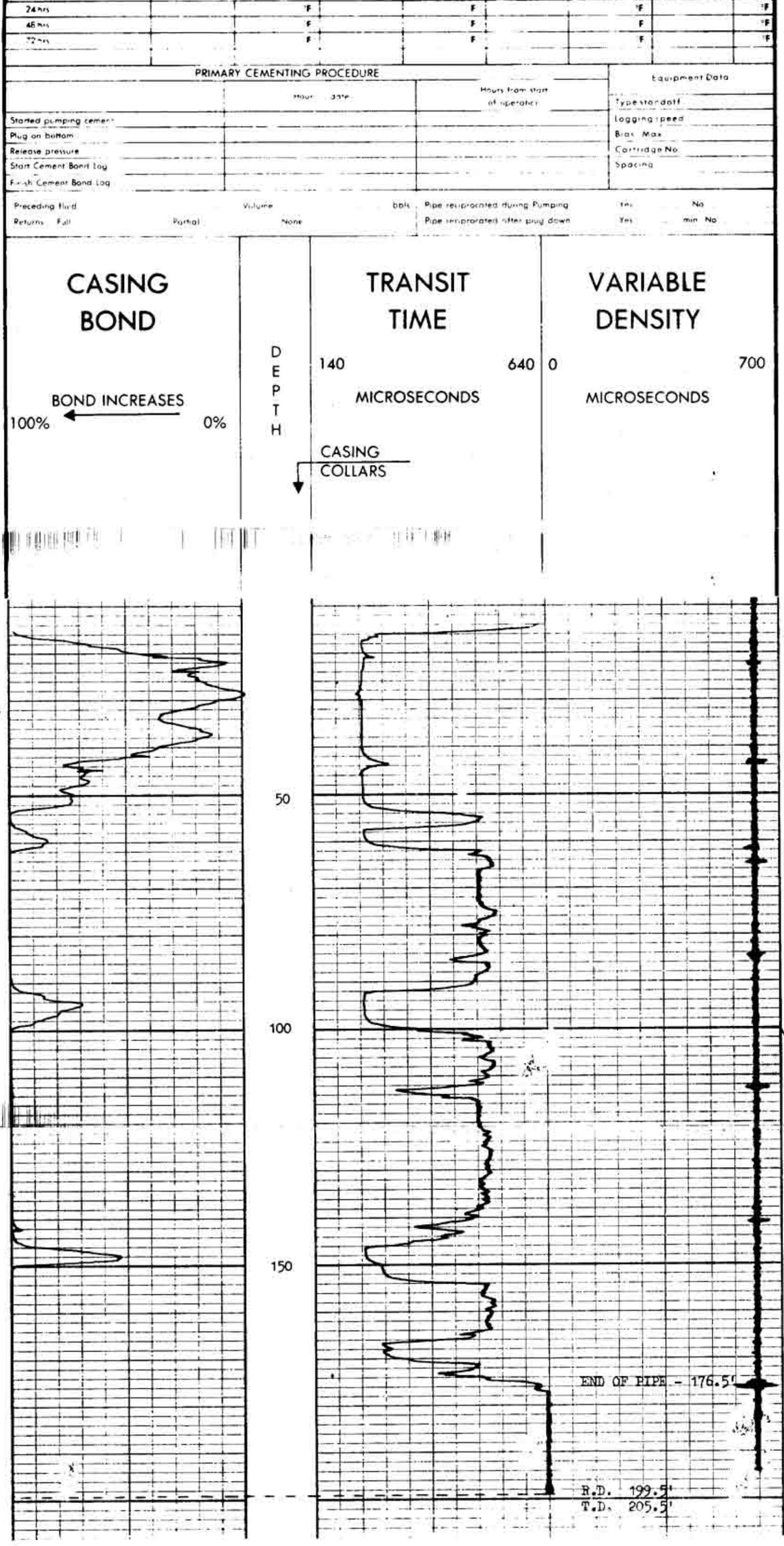
Time Elapsed	Surface		Protective		Production		Liner	
24 hrs		°F		°F		°F		°F
48 hrs		°F		°F		°F		°F
72 hrs		°F		°F		°F		°F

PRIMARY CEMENTING PROCEDURE

	Hour	Date	Hours from start of operation
Started pumping cement			
Plug on bottom			
Release pressure			
Start Cement Bond Log			
Finish Cement Bond Log			

Equipment Data
Type standoff
Logging speed
Bias Max
Cartridge No.
Spacing

Preceding fluid Volume bbls Pipe reciprocated during Pumping Yes No
Returns Full Partial None Pipe reciprocated after plug down Yes min No



IF - 45A

CARMEL ENERGY

VERNON COUNTY, MISSOURI

NOVEMBER 8, 1982

BOND LOG