G02579 Permit # 21802

RELEASED

CORNISH

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

CEMENT BOND — VARIABLE DENSITY

MAY 16 1985

FILING NO.

COMPANY CARMEL ENERGY, INC.

WELL IF-N670

FIELD

COUNTY VERNON STATE MISSOURI

LOCATION 1682.37' FNL & 681.55' FWL

Sec. 33 Twp. 35N Rge. 33W

OTHER SERVICES: 5-10-85: GR/N.

Permanent Datum: GROUND LEVEL Elev.
Log Measured from TOP OF FLANGE Ft. Above Perm. Datum
Drilling Measured From G.L.

Elev.: K.B. D.F. G.L.

Date	5-9-85		Type Fluid in Hole	WATER/FULL	
Run No.	1 NW		Dens.	Visc.	
Depth—Driller	115.5'		Max. Rec. Temp.		
Depth—Logger	108.9'		Est. Cement Top		
Btm. Log Interval	108.9'		Equip.	Location	105 C
Top Log Interval	6.0'		Recorded By	LYNCH, L.	
Open Hole Size			Witnessed By	STUESSE, G.	

CASING REC.	Size	Wt/Ft	Grade	Type Joint	Top	Bottom
Surface String						
Prot. String						
Prod. String	4½"			COLLAR	0	T.D.
Liner						

PRIMARY CEMENTING DATA

STRING	Surface	Protection	Production	Liner
Vol. of cement				
Type of cement				
Additive				
Additive by %				
Retarder				
Retarder by %				
Wt. of slurry				
Water loss				
Drill. mud type				
Drilling mud wt.				

FOLD HERE

COMPRESSIVE STRENGTH (p.s.i. / Curing Temp.)								
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

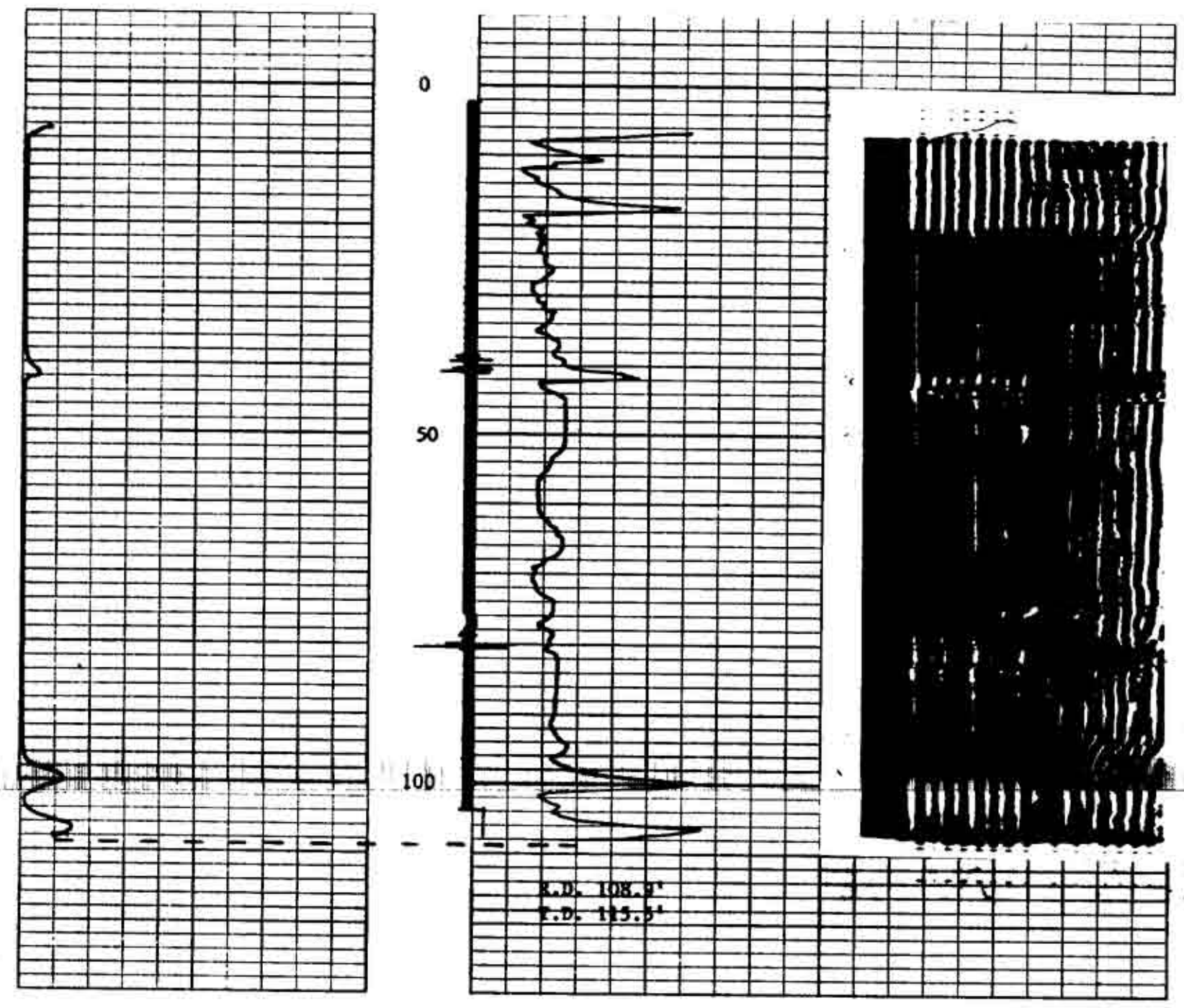
	Hour — date	Hours from start of operation
Started pumping cement		
Plug on bottom		
Release pressure		
Start Cement Bond Log		
Finish Cement Bond Log		

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

Preceding fluid _____ Volume _____ bbls.
Returns: Full _____ Partial _____ None _____

Pipe reciprocated during Pumping: Yes _____ No _____
Pipe reciprocated after plug down: Yes _____ min., No _____

CASING BOND	DEPTH	TRANSIT TIME	VARIABLE DENSITY
BOND INCREASES ← 100% 0%		640 140 MICROSECONDS	200 1000 MICROSECONDS
		CASING COLLARS	



IF-N670

CARMEL ENERGY, INC.

VERNON COUNTY, MISSOURI

MAY 10, 1985

33/35N/33W

BOND LOG WITH MSG