G02396 OCC #21765

CORNISH

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

CEMENT BOND — VARIABLE DENSITY

FILING NO.

COMPANY CARMEL ENERGY, INC.

WELL DISSH NO. IF-N11L

FIELD Ida Fairview

COUNTY VERNON STATE MISSOURI

LOCATION 2316.39' FWL, 2633.79' FSL

Sec. 33 Twp. 35N Rge. 33W

OTHER SERVICES: MSG, GR/N: 4-2-85

Permanent Datum: GROUND LEVEL Elev. 784.7'
Log Measured from G.L. (TOP OF FLANGE) Above Perm. Datum
Drilling Measured From G.L.

Elev.: K.B. D.F. 784.7' G.L.

Date	4-2-85	Type Fluid in Hole	WATER/FULL
Run No.	1 NW	Dens. / Visc.	
Depth—Driller	145.3'	Max. Rec. Temp.	
Depth—Logger	139.5'	Est. Cement Top	
Btm. Log Interval	139.5'	Equip. / Location	105 C., KS.
Top Log Interval	8.0'	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	4-1/2"				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		

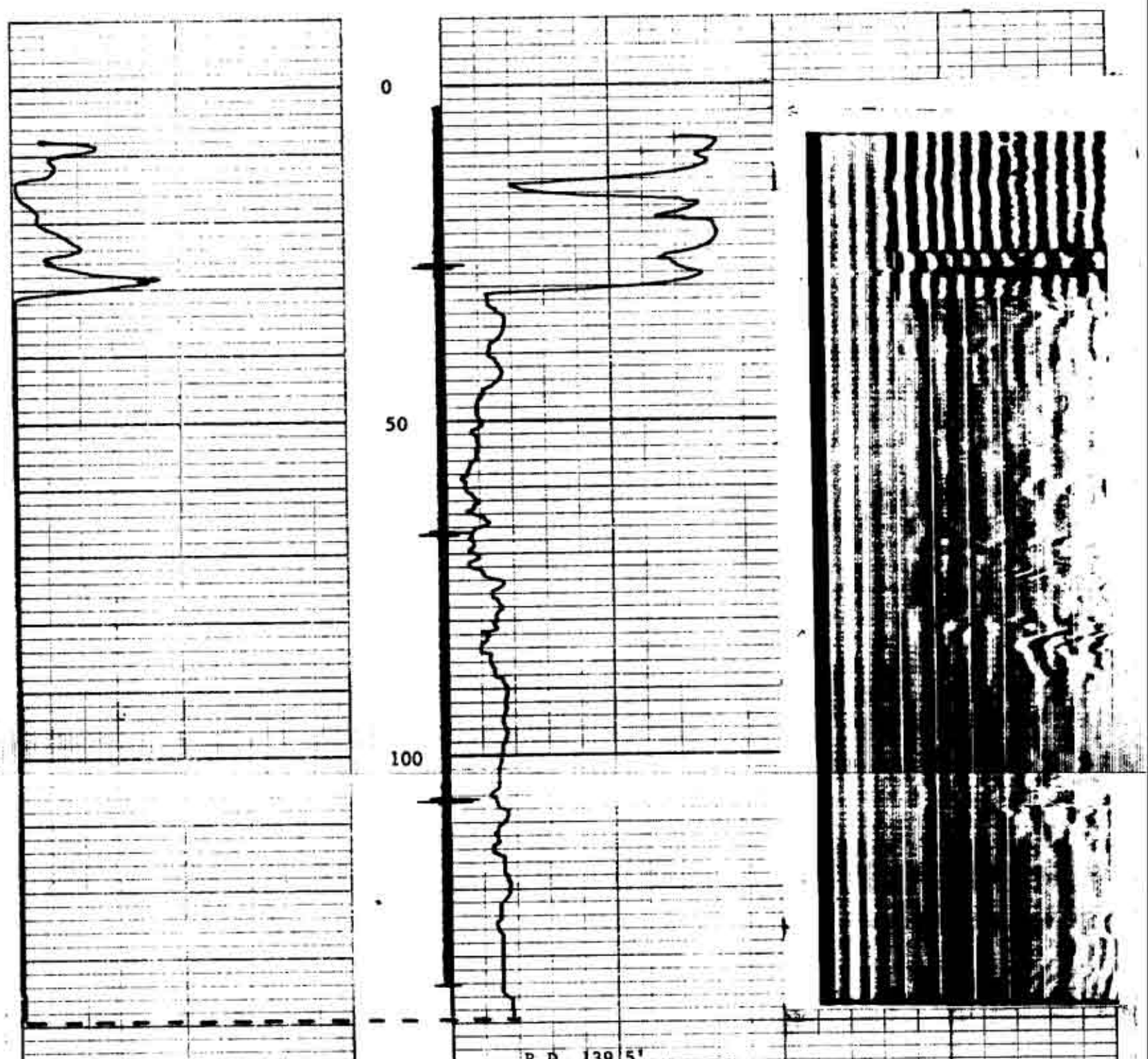
PRIMARY CEMENTING PROCEDURE

	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 _____



DISSH NO. IF-N11L

CARMEL ENERGY, INC.

VERNON COUNTY, MISSOURI

APRIL 2, 1985

BOND/MSG

33/35N/33W