602564

Permit #21803

RELEASED

CORNISH

WIRELINE SERVICES, INC.

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

CEMENT BOND — VARIABLE DENSITY

FILING NO.

COMPANY CARMEL ENERGY, INC.

WELL K-N60L

FIELD Kennedy

COUNTY VERNON STATE MISSOURI

LOCATION 1537.22'FSL & 917.43'FWL

Sec. 28 Twp. 35N Rge. 33W

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

RECEIVED
MAY 16 1985
MO. OIL & GAS COUNCIL

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	5-10-85	Type Fluid in Hole	WATER
Run No.	1 NW	Dens. / Visc.	
Depth—Driller		Max. Rec. Temp.	
Depth—Logger	181.2'	Est. Cement Top	
Btm. Log Interval	174.6'	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.	°	°	°	°
48 hrs.	°	°	°	°
72 hrs.	°	°	°	°

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

BOND INCREASES

100% 0%

TRANSIT TIME

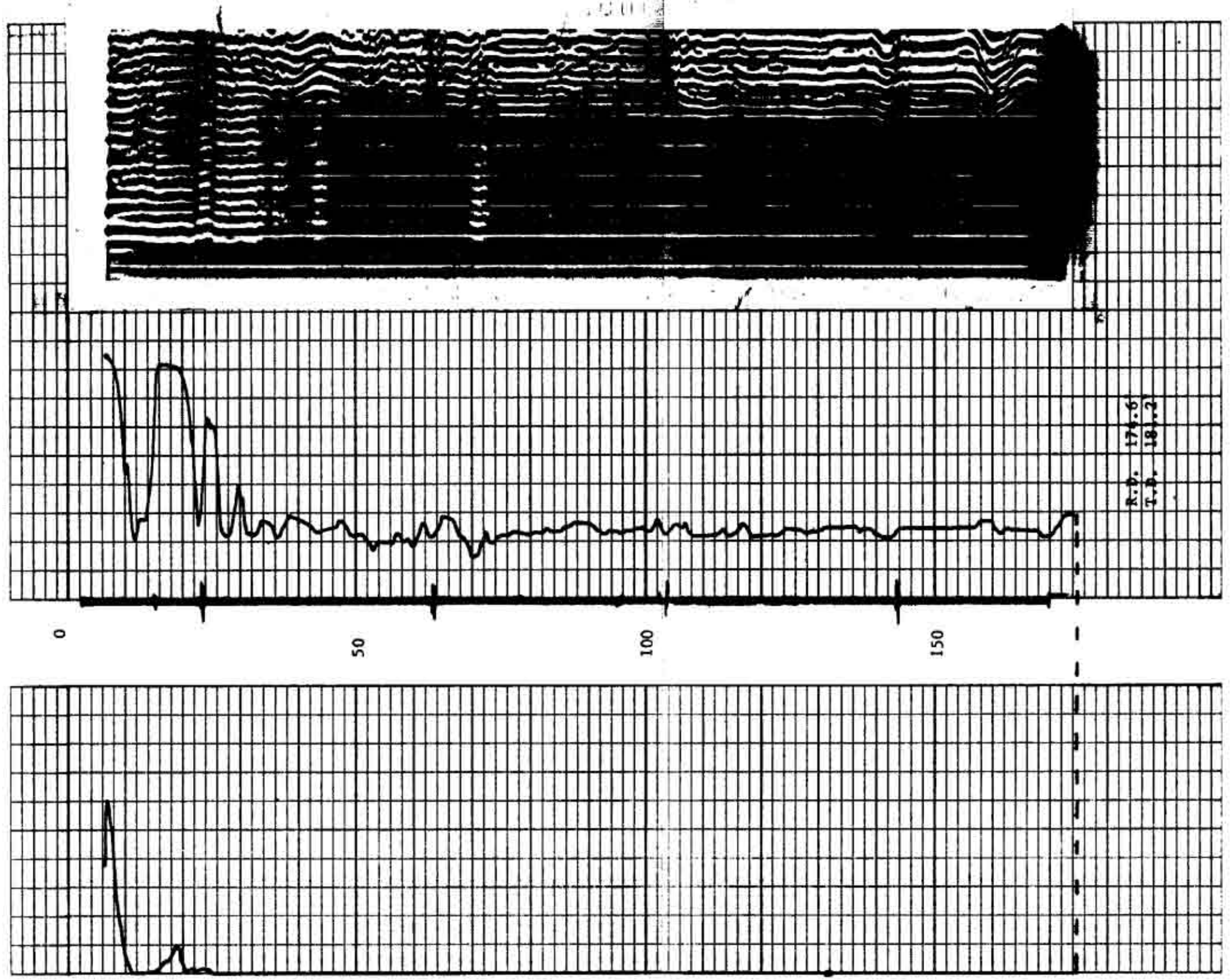
640 MICROSECONDS

DEPTH

CASING COLLARS

VARIABLE DENSITY

140 200 1000 MICROSECONDS



NSCO-19084

K-N60L

CARMEL ENERGY, INC.

VERNON COUNTY, MISSOURI

MAY 10, 1985

BOND LOG WITH MSG

28/35N/33W