600502

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P O Box 467
913-294 5060

Lawrence, Kansas 66044
1203 Kiwi
913-841-[illegible]

RELEASED

FILING NO.

COMPANY Carmel Energy, Inc.
WELL KE 73
FIELD Kennedy Lease
COUNTY Vernon County, Missouri

LOCATION: 836 FWL 985 FSL
SEC 28 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM GL ELEV. 812.8
LOG MEASURED FROM GL FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM GL

ELEV.: K.B. NA
D.F. NA
G.L. 812.8

DATE	12-27-80	12-27-80
RUN NO	1 NW	1 NW
TYPE LOG	Gamma Ray	Neutron
DEPTH—DRILLER	167.5	167.5
DEPTH—LOGGER	162.0	166.5
BOTTOM LOGGED INTERVAL	0.0	4.5
TOP LOGGED INTERVAL	water-oil	water-oil
TYPE FLUID IN HOLE		
SALINITY, PPM CL		
DENSITY	7.5	7.5
LEVEL		
MAX. REC. TEMP., DEG F.		
OPERATING RIG TIME		
RECORDED BY	Morgan	Morgan
WITNESSED BY		

BORE-HOLE RECORD

RUN NO	BIT	FROM	TO

CASING RECORD

SIZE	WGT	FROM	TO
9/8			

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THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

GAMMA RAY			NEUTRON		
RUN NO.	1 NW		RUN NO	1 NW	
TOOL MODEL NO.	705		LOG TYPE	NKU/NKU	
DIAMETER	1 11/16"		TOOL MODEL NO	705	
DETECTOR MODEL NO	705 GR		DIAMETER	1 11/16"	
TYPE	GEIGER		DETECTOR MODEL NO.	705 HR 3	
LENGTH	1 3/8" x 18"		TYPE	HR	
DISTANCE TO N. SOURCE	4.5		LENGTH	1" x 6"	
			SOURCE MODEL NO.	71-1	
GENERAL			SERIAL NO	71-1-835 G	
HOIST TRUCK NO.			SPACING	13"	
INSTRUMENT TRUCK NO.			TYPE	AMBE 241	
TOOL SERIAL NO.			STRENGTH	3 CI	

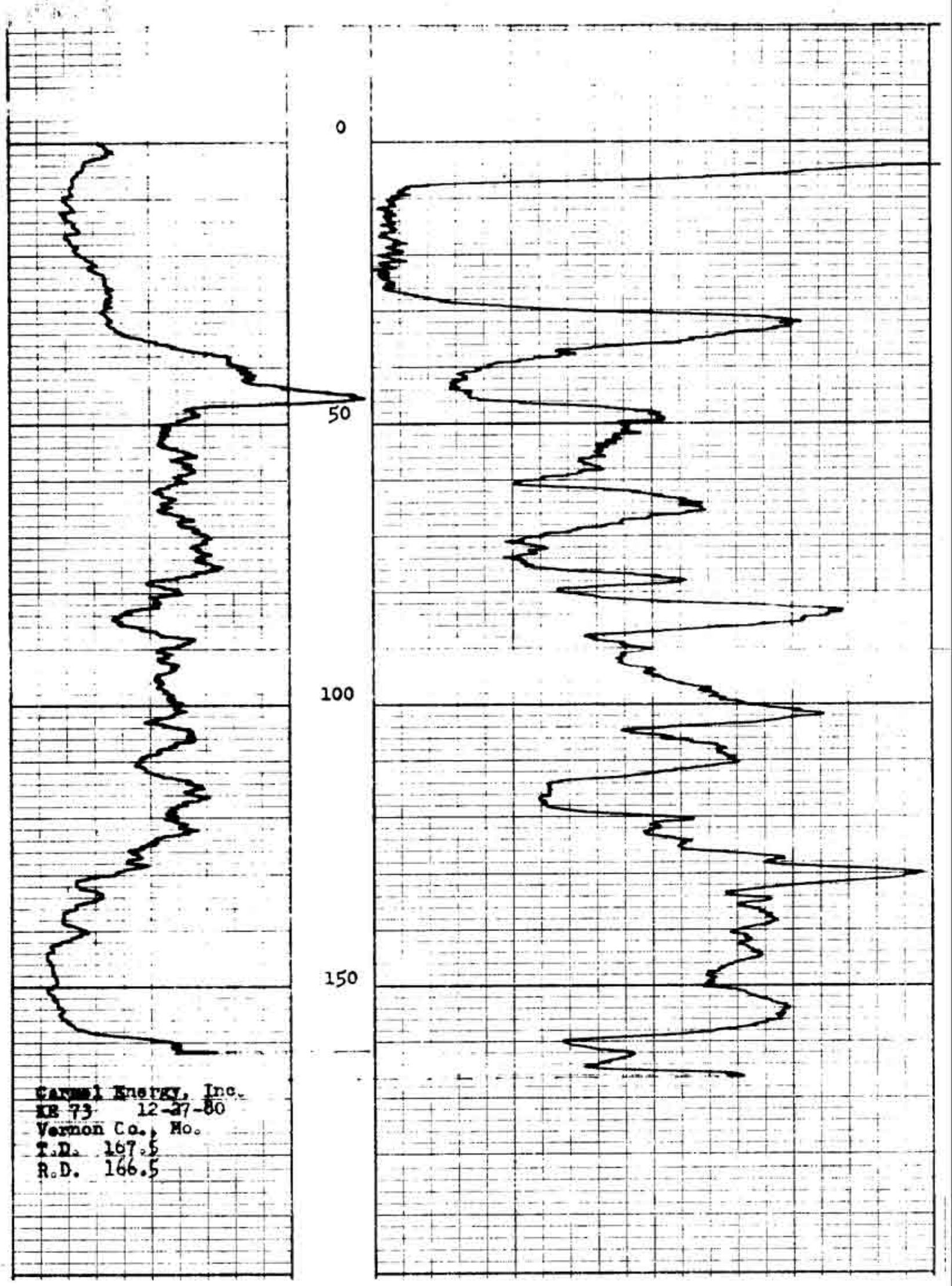
LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
RUN NO	DEPTHS FROM	DEPTHS TO	SPEED FT MIN	T.C. SEC	SENS SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS. SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1 NW	0	TD	20	4.0	100/075	0	10	4.0	500/100	5L	20

REFERENCE LITERATURE:

REMARKS Drilling Contractor: Layne Western Company

NSCO 16740

GAMMA RAY DEPTH NEUTRON

CASING COLLARS