60024

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 467
913 294 5041

Lawrence, Kansas 66044
1703 Iowa
913 841 8886

RELEASED

FILING NO.

COMPANY Carmel Energy, Inc.
WELL RH-33
FIELD Raymond Hartfield Lease
COUNTY Vernon County, Missouri

LOCATION: 300' FNL 200' FEL
SEC 14 TWP 34N RGE 33W

OTHER SERVICES:

PERMANENT DATUM GL ELEV 825.4
LOG MEASURED FROM GL FT ABOVE PERM DATUM
DRILLING MEASURED FROM GL

ELEV. K.B. NA
D.F. NA
G.L. 825.4

DATE	12-29-80	12-29-080
RUN NO.	1 NW	1 NW
TYPE LOG	Gamma Ray	Neutron
DEPTH—DRILLER		
DEPTH—LOGGER	108.0	108.0
BOTTOM LOGGED INTERVAL	102.5	107.0
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM CL		
DENSITY		
LEVEL	15.5	15.5
MAX. REC. TEMP., DEG F		
OPERATING RIG TIME		
RECORDED BY	Morgan	Morgan
WITNESSED BY		

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
				O/H			TD

CASING RECORD

RECEIVED
JAN 07 1981
MO. OIL & GAS COUNCIL

CONFIDENTIAL

FOLD HERE

THIS FORM MEETS AND EXCEEDS INFORMS TO API RP 33

EQUIPMENT DATA

GAMMA RAY			NEUTRON		
RUN NO	1 NW		RUN NO.	1 NW	
TOOL MODEL NO.	705		LOG TYPE	NEU/NEU	
DIAMETER	1 11/16"		TOOL MODEL NO	705	
DETECTOR MODEL NO	705-GK		DIAMETER	1 11/16"	
TYPE	Geiger		DETECTOR MODEL NO	705 HE-3	
LENGTH	1 3/8" x 18"		TYPE	HE	
DISTANCE TO N. SOURCE	4.5		LENGTH	1" x 6"	
			SOURCE MODEL NO	71 x 1	
GENERAL			SERIAL NO	71-1-335	G
HOIST TRUCK NO	0020		SPACING	13"	
INSTRUMENT TRUCK NO.	0020		TYPE	AMBE-241	
TOOL SERIAL NO	0002		STRENGTH	3 CI	

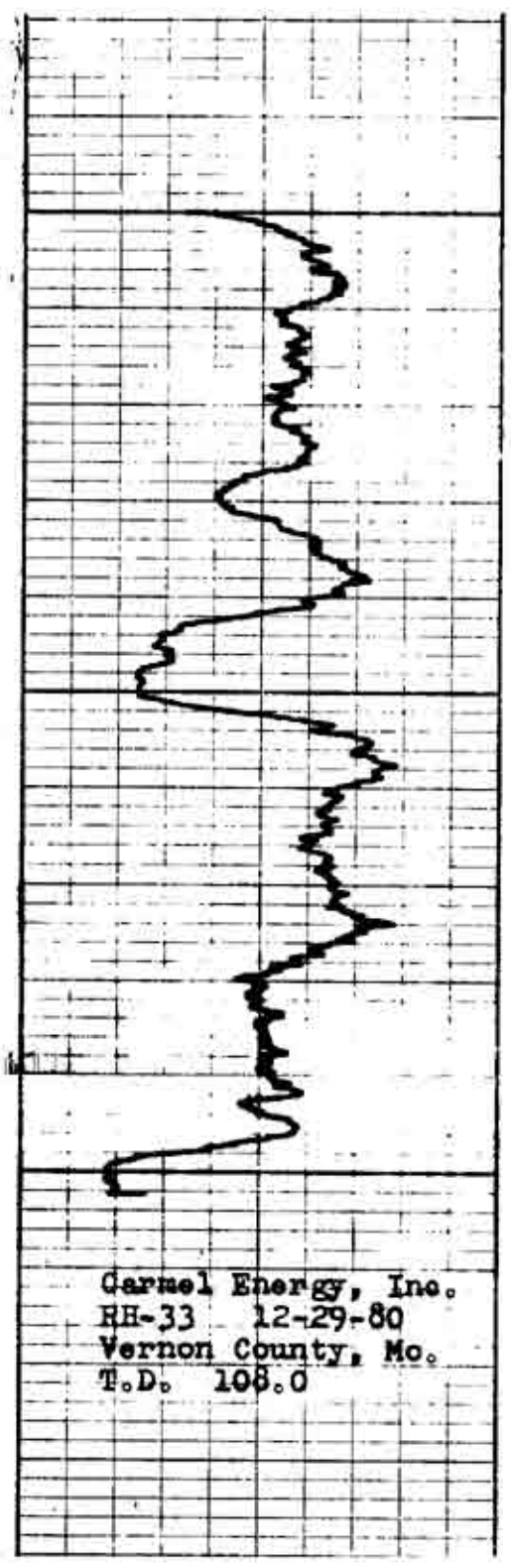
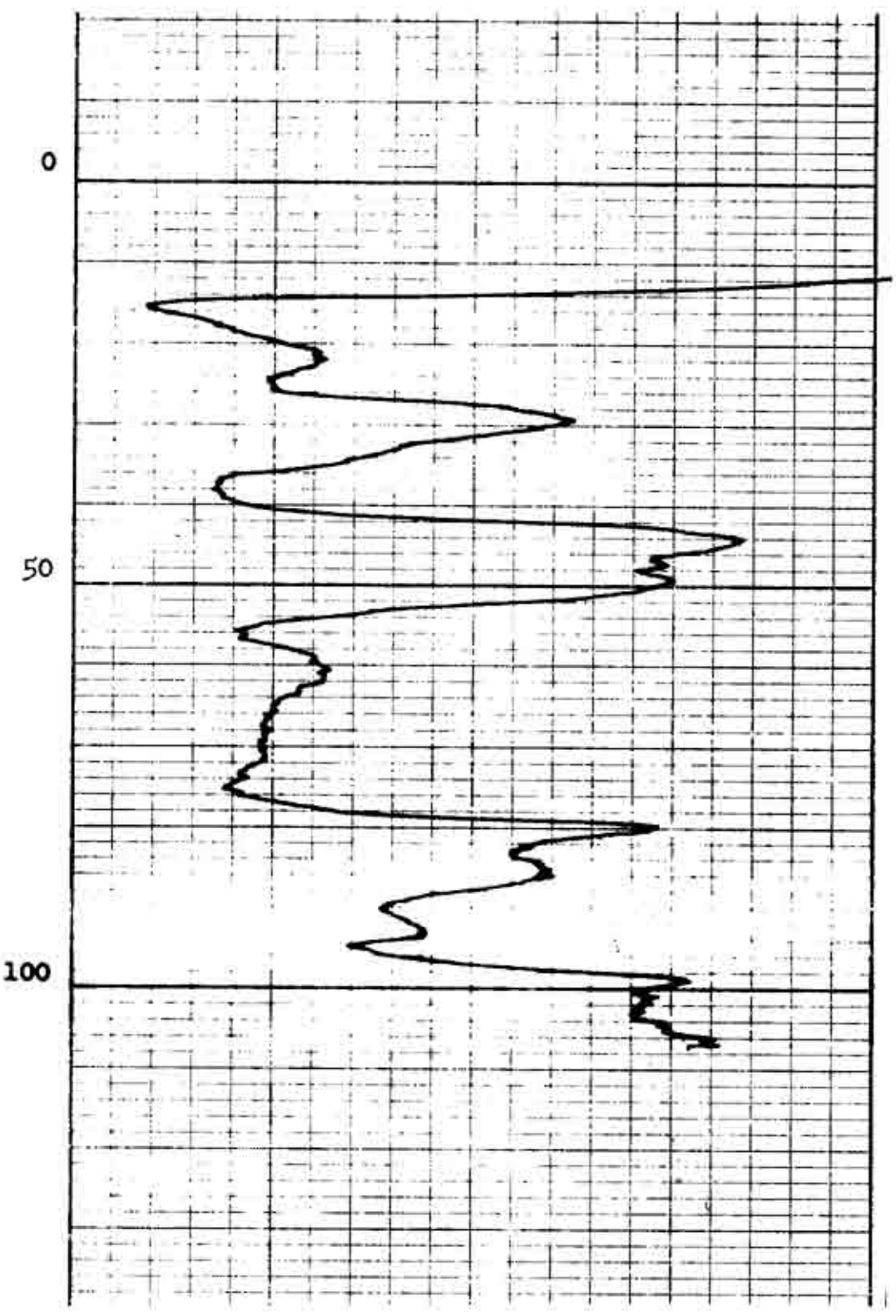
LOGGING DATA

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.
1NW	0	TD	20	4.0	100/075	0	10	4.0	500/100	5L	20

REFERENCE LITERATURE:

REMARKS DRILLING CONTRACTOR: TEST DRILLING COMPANY

NSCO 16240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS