G00282

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 467
913-294-5050

Lawrence, Kansas 66044
Box 8886

RELEASED

FILING NO.

COMPANY: Carmel Energy, Inc.
WELL: CM 13-1
FIELD: Charles Martin Lease
COUNTY: Vernon County, Missouri

LOCATION: 100.0 FWL SE/4 SE/4
180.0 FSL

SEC 13 TWP 34N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: GL — ELEV 860.0
LOG MEASURED FROM: GL — FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM: GL

ELEV K.B. NA
D.F. NA
G.L. 860.0

DATE	12-27-80	12-27-80
RUN NO	1 NW	1 NW
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER		
DEPTH-LOGGER	157.7	157.7
BOTTOM LOGGED INTERVAL	152.2	156.7
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	water	water
SALINITY, PPM CL		
DENSITY		
LEVEL	26.5	26.5
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
O/H		

RECEIVED
JAN 07 1981
MO. OIL & GAS COUNCIL

FOLD HERE

EQUIPMENT DATA

GAMMA RAY	
RUN NO	1 NW
TOOL MODEL NO	705
DIAMETER	1 11/16"
DETECTOR MODEL NO	705-GE
TYPE	Geiger
LENGTH	1 3/8" x 18"
DISTANCE TO N. SOURCE	4.5

NEUTRON	
RUN NO	1 NW
LOG TYPE	Nem/Neu
TOOL MODEL NO	705
DIAMETER	1 11/16"
DETECTOR MODEL NO	705 HE-3
TYPE	HE
LENGTH	1" x 6"
SOURCE MODEL NO	71-1
SERIAL NO	71-1-335 G
SPACING	13"
TYPE	AMBE-241
STRENGTH	3 CI

GENERAL	
HOIST TRUCK NO.	0020
INSTRUMENT TRUCK NO.	0020
TOOL SERIAL NO	0002

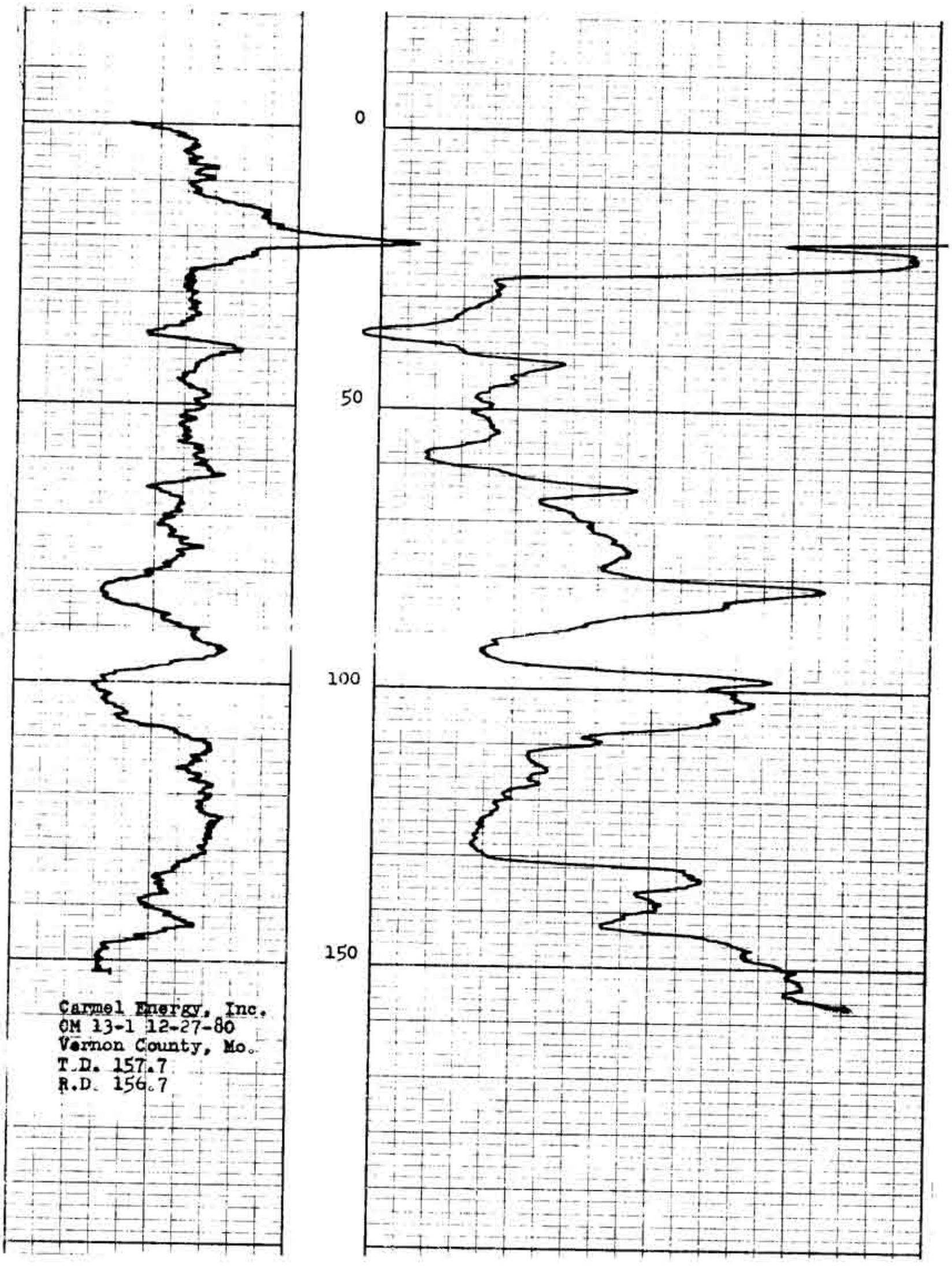
LOGGING DATA

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: Test Drilling Company

NNCO 16240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS