ENERGY RESOURCES, INC.

Pittsburg, Kansas 66762
P.O. Box 487
913-231-6060

Lawrence, Kansas 66044
7203 West
913-841-8866

RELEASED

FILING NO.

COMPANY Carmel Energy, Inc.

WELL MI 43

FIELD Mitchell Lease

COUNTY Vernon County, Missouri

LOCATION: 989 FSL 1625 FWL

SEC 28 TWP. 35N RGE. 33W

OTHER SERVICES:

PERMANENT DATUM: GL ELEV. 819.6

LOG MEASURED FROM GL FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM GL

ELEV.: K.B. NA D.F. NA G.L. 819.6

DATE	12-27-80	12-27-80
RUN NO.	1 NW	1 NW
TYPE LOG	Gamma Ray	Neutron
DEPTH—DRILLER	196.3	196.3
DEPTH—LOGGER	196.3	196.3
BOTTOM LOGGED INTERVAL	190.8	195.3
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM CL		
DENSITY		
LEVEL	18.0	18.0
MAX. REC. TEMP., DEG F.		
OPERATING RIG TIME		
RECORDED BY	Morgan	Morgan
WITNESSED BY		

CONFIDENTIAL

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
OH			TD

RECEIVED JAN 07 1981 MO OIL & GAS COUNCIL

FOLD HERE

THIS READING 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	Neu/Neu	
DIAMETER	1 11/16"		TOOL MODEL NO.	705	
DETECTOR MODEL NO.	705 GR		DIAMETER	1 11/16"	
TYPE	GEIGER		DETECTOR MODEL NO.	705 HE 3	
LENGTH	1 3/8" x	18"	TYPE	HE	
DISTANCE TO H SOURCE	4.5		LENGTH	1" x 6"	
			SOURCE MODEL NO.	71-1	
GENERAL			SERIAL NO.	71-1-335	G
HOIST TRUCK NO.	0020		SPACING	13"	
INSTRUMENT TRUCK NO.	0020		TYPE	AMBR 241	
TOOL SERIAL NO.	0002		STRENGTH	3 CI	

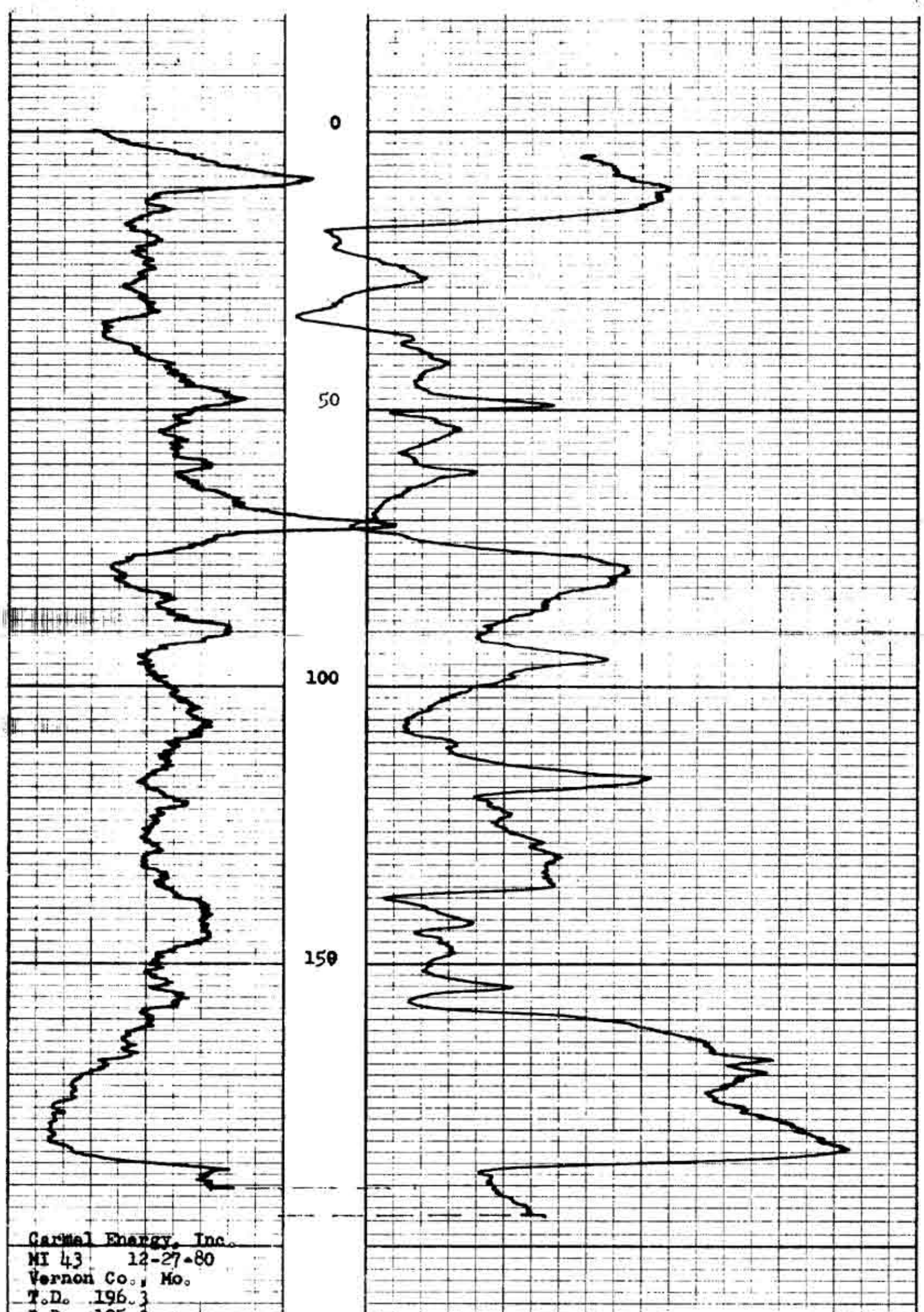
LOGGING DATA

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	5R	20

REFERENCE LITERATURE:

REMARKS Drilling Contractor: Layne Western Company

NSCO 16240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS