600292

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P.O. Box 467
913-294-5660

Lawrence, Kansas 66044
1203 Iowa
913-841-8886

RELEASED

FILING NO. _____

COMPANY CARMEL ENERGY INC.
WELL WH-49
FIELD CHARLES WHITEFORD LEASE
COUNTY VERNON - MISSOURI

LOCATION: 1528.0 FNL 146.4 FWL
SEC 28 TWP 35N RGE 33W

OTHER SERVICES

PERMANENT DATUM: G.L. ELEV 815.6
LOG MEASURED FROM G.L. FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM G.L.

ELEV.: K.B. N.A.
D.F. N.A.
G.L. 815.6

DATE	12-19-80	12-19-80
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER		
DEPTH—LOGGER		
BOTTOM LOGGED INTERVAL	176.7	176.7
TOP LOGGED INTERVAL	171.2	175.7
TYPE FLUID IN HOLE	0.0 WATER	4.5 WATER
SALINITY, PPM CL		
DENSITY		
LEVEL	FULL	FULL
MAX. REC. TEMP., DEG. F.		
OPERATING RIG TIME		
RECORDED BY	MORGAN	MORGAN
WITNESSED BY		

DEC 24 1980
MO. OIL & GAS COUNCIL

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
OPEN HOLE			

FOLD HERE

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	NEU/NEU	
DIAMETER	1 11/16"		TOOL MODEL NO.	705	
DETECTOR MODEL NO.	705-GE		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.	71-1	
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	

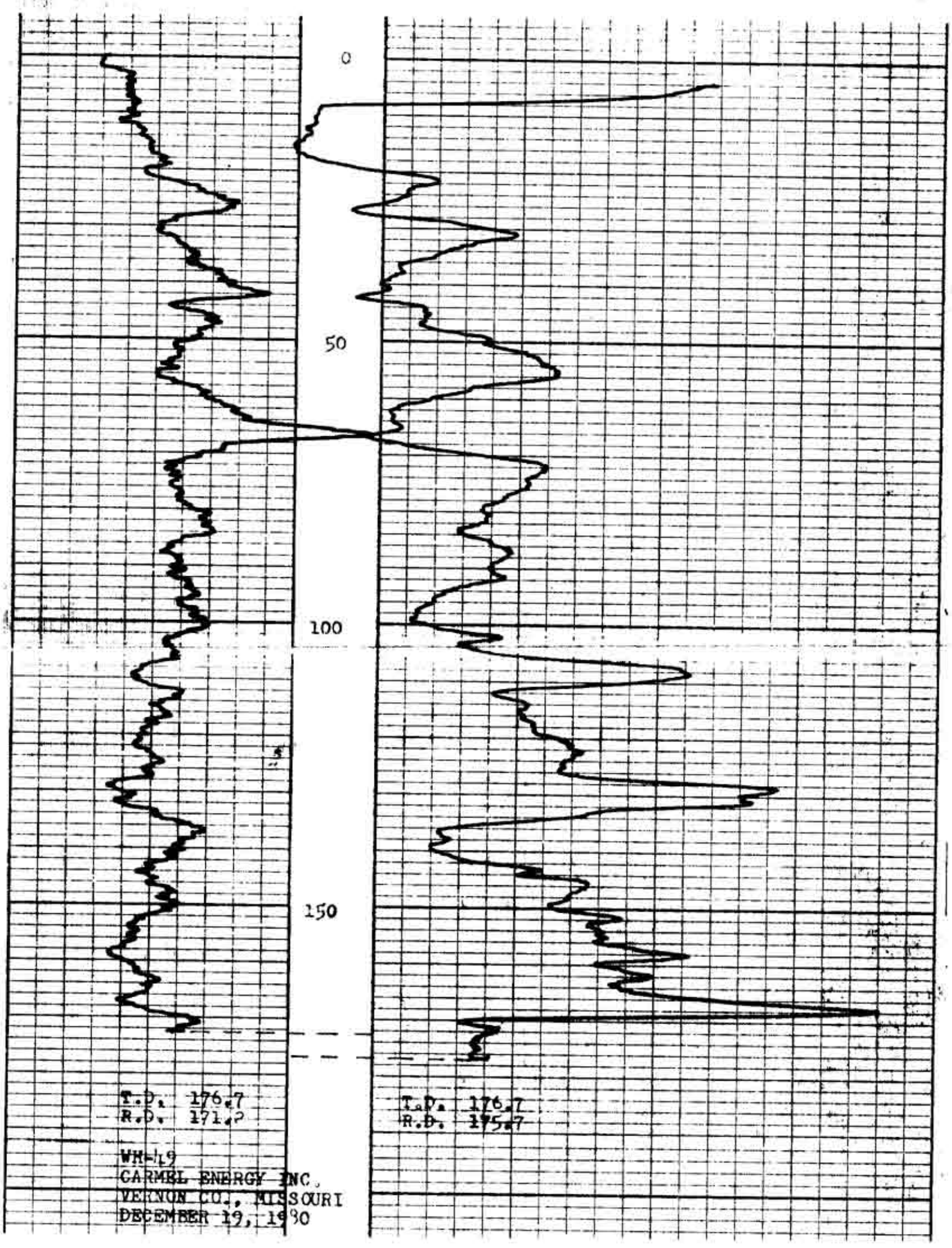
LOGGING DATA

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.
1	0	T.D.	20	4.0	100/075	0 R	10	4.0	500/100	5 L	20

REFERENCE LITERATURE: OPEN HOLE

REMARKS: DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

NSCO-16240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS