600291

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P O Box 467
913 294 5050
Lawrence, Kansas 66044
1203 Iowa
913 841 8886

FILING NO.

COMPANY CARMEL ENERGY INC.
WELL NO. 47
FIELD CHARLES WHITEFORD LEASE
COUNTY VERNON - MISSOURI

LOCATION: 1528.0 FNL 842.0 FWL
SEC 28 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM G.L. ELEV 823.9
LOG MEASURED FROM G.L. FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM G.L.

ELEV K.B. / D.F. / G.L. 823.9

DATE	11-18-80	11-18-80
RUN NO	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER		
DEPTH—LOGGER		
BOTTOM LOGGED INTERVAL	187.1	187.1
TOP LOGGED INTERVAL	181.6	186.1
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	PRATT	PRATT
WITNESSED BY		

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
O/H		0	T.D.

NOV 26 1980
MO. OIL & GAS COUNCIL

EQUIPMENT DATA

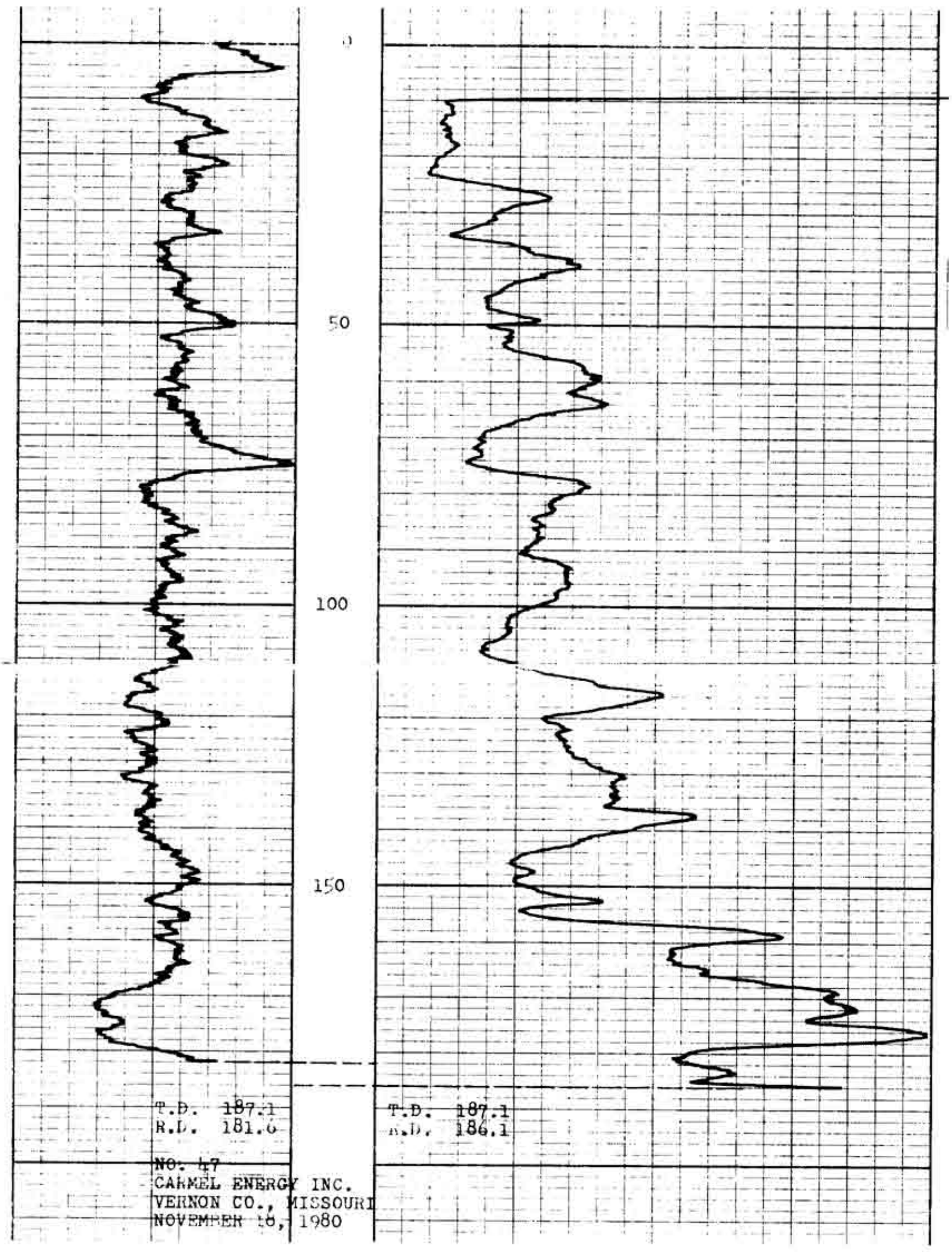
GAMMA RAY			NEUTRON		
RUN NO	1 NW		RUN NO.	1 NW	
TOOL MODEL NO	705		LOG TYPE	NEU/NEU	
DIAMETER	1 11/16"		TOOL MODEL NO	705	
DETECTOR MODEL NO	705-GE		DIAMETER	1 11/16"	
TYPE	GEIGER		DETECTOR MODEL NO	705 HE-3	
LENGTH	1 3/8" x 18"		TYPE	HE	
DISTANCE TO N. SOURCE	4.5		LENGTH	1" x 6"	
			SOURCE MODEL NO.	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

GAMMA RAY DEPTH NEUTRON

CASING COLLARS