60045

ENERGY RESOURCES, INC.

Form 99071
P.O. Box 407
Independence, Kansas 67301
(316) 331-1500

FILING NO.

COMPANY CARMEL ENERGY INC.

WELL NO. 167A

FIELD IDA FAUVERGUE LEASE

COUNTY VERNON - MISSOURI

LOCATION: 165.0 FSL 165.0 FWL

SEC. 33 TWP. 35N RGE. 33W

OTHER SERVICES:

PERMANENT DATUM G.L. ELEV. 841.2
LOG MEASURED FROM G.L. FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM G.L.

ELEV.: K.B.
D.F.
G.L. 841.2

DATE	9-4-80	9-4-80
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER		
DEPTH—LOGGER	178.6	178.6
BOTTOM LOGGED INTERVAL	173.1	177.6
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	WATER	WATER
SALINITY, PPM CL		
DENSITY		
LEVEL	12.0	12.0
MAX. REC. TEMP., DEG. F.		
OPERATING RIG TIME		
RECORDED BY	E. PRATT	E. PRATT
WITNESSED BY		

BORE-HOLE RECORD

BIT NO.	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
		0/R	0 / T.D.

OCT 0 6 1980
DIV. OIL & GAS CONSERVATION

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	NEUTRON	
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 1/8" x 18"		TYPE	HE	
DISTANCE TO N. SOURCE	4.5		LENGTH	1" x 6"	
			SOURCE MODEL NO.	71-1	
GENERAL			SERIAL NO.	71-1-285	
NOISE BOOM NO.	0020		SPACING	13"	
INSTRUMENT TRUCK NO.	0020		TYPE	AMMR-241	
FIELD UNIT NO.	0002		STRENGTH	3 MC	

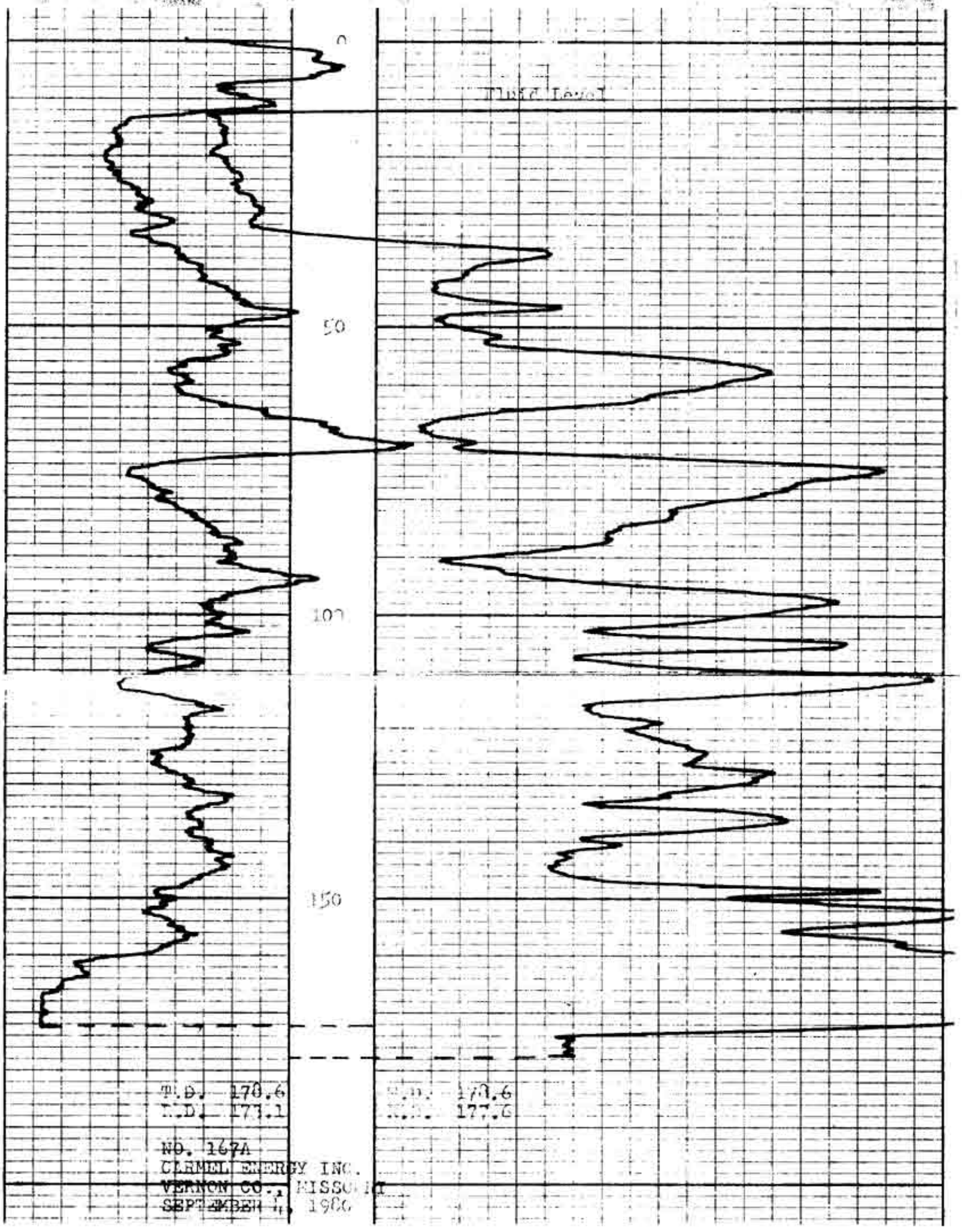
LOGGING DATA

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	[illegible]	T.D.	30	4.0	100/085	1 L	10	4.0	500/100	31 L	[illegible]

REFERENCE LITERATURE: OPEN HOLE - NOT CEMENTED

REMARKS: DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

NSCO 16740

GAMMA RAY DEPTH NEUTRON

CASING COLLARS