ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 487
913-294-5060
Lawrence, Kansas 66044
1203 Iowa
913-841-8886

FILING NO.

COMPANY CARMEL ENERGY INC.
WELL G.E.I. NO. 15[redacted]
FIELD IDA FAUVERGUE
COUNTY VERNON CO., MISSOURI

LOCATION: 1304.43 FSL 477.76 FWL
SEC 33 TWP 35N RGE 31W

OTHER SERVICES:

PERMANENT DATUM G.L. ELEV. 837.4
LOG MEASURED FROM G.L. FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM G.L.

ELEV.: K.B.
D.F.
G.L. 837.4

DATE	7-11-80	7-11-80
RUN NO	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER	171.5	171.5
DEPTH—LOGGER	169.2	169.2
BOTTOM LOGGED INTERVAL	163.7	168.2
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	WTR/OIL	WTR/OIL
SALINITY, PPM CL		
DENSITY		
LEVEL	14.0	14.0
MAX. REC. TEMP., DEG F.		
OPERATING RIG TIME		
RECORDED BY	E. PRATT	E. PRATT
WITNESSED BY	V. YOUNG	V. YOUNG

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
8/3		0	T.D.

OCT 06 1980
MO. OIL & GAS COUNCIL

THIS HEADING AND LOG CONFORMS TO API RP 33

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	

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

NEUTRON		
RUN NO.	1 NW	
LOG TYPE	NEU/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	

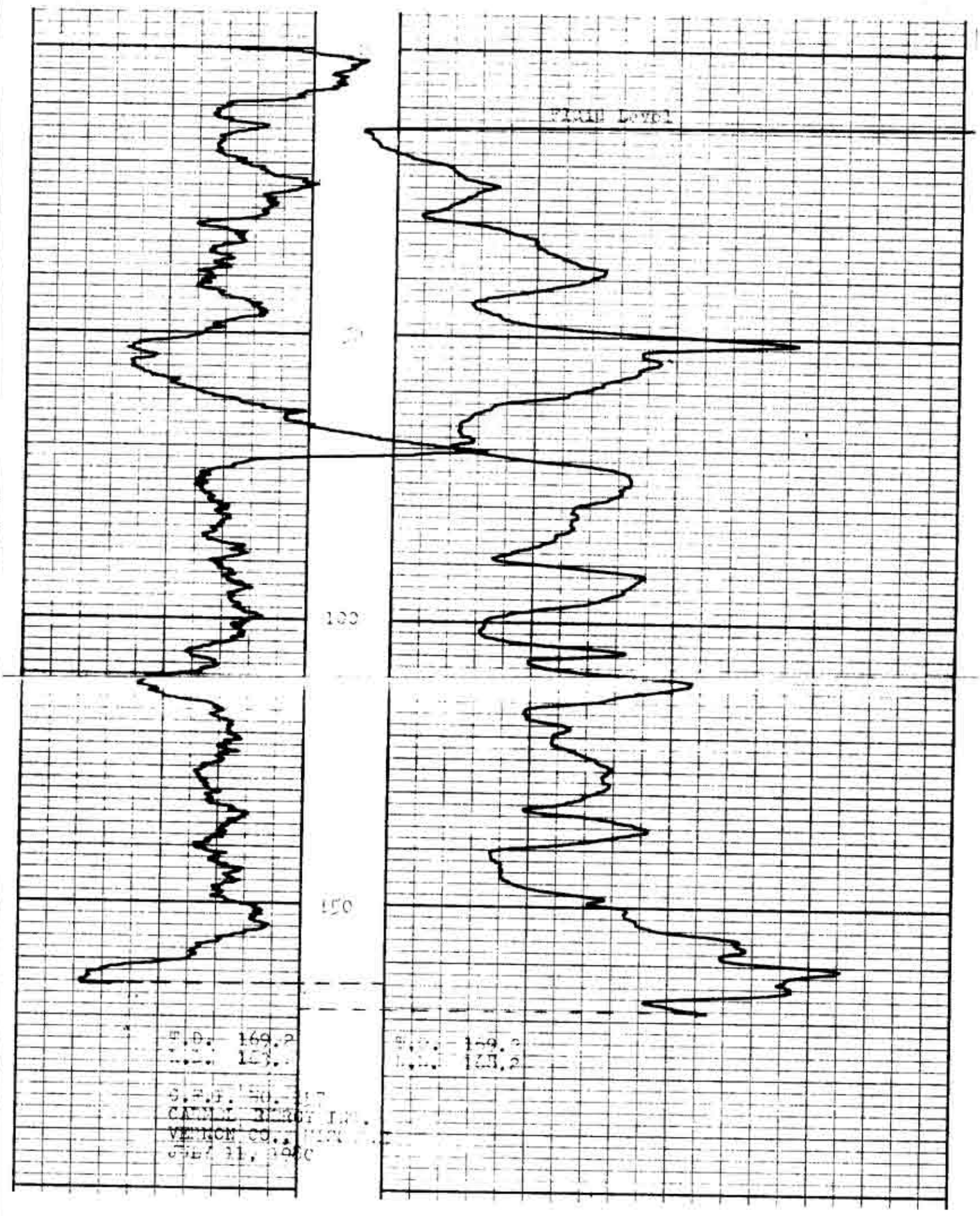
LOGGING DATA

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	100/100	0	10	4.0	500/100	2 L	20

REFERENCE LITERATURE: OPEN HOLE - NOT CEMENTED

REMARKS: DRILLING CONTRACTOR: LANDE-WESTERN COMPANY

NSCO 16240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS