ENERGY RESOURCES, INC.

Paola, Kansas 66071
913-294-5050

Lawrence, Kansas 66044
1203 Iowa
913-841-8886

FILING NO.

COMPANY CARMEL ENERGY INC. [redacted]

WELL G.E.I. NO. 110

FIELD IDA SATUERGUE

COUNTRY VERNON CO., MISSOURI

LOCATION: 334.4 FNL + 946.9 FWL SEC 33 TWP 35N RGE 33W

OTHER SERVICES

PERMANENT DATUM: Gr. Lev. ELEV.

LOG MEASURED FROM: Gr. Lev. FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM: Gr. Lev.

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

DATE	6-11-80	6-11-80
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER	163.0	162.0
DEPTH—LOGGER	163.9	[illegible]
BOTTOM LOGGED INTERVAL	156.1	160.3
TOP LOGGED INTERVAL	0.0	[illegible]
TYPE FLUID IN HOLE	WATER	[illegible]
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	V. YOUNG	V. YOUNG

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO

CASING RECORD

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

OCT 06 1980
MO. OIL & GAS COUNCIL

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RP 33

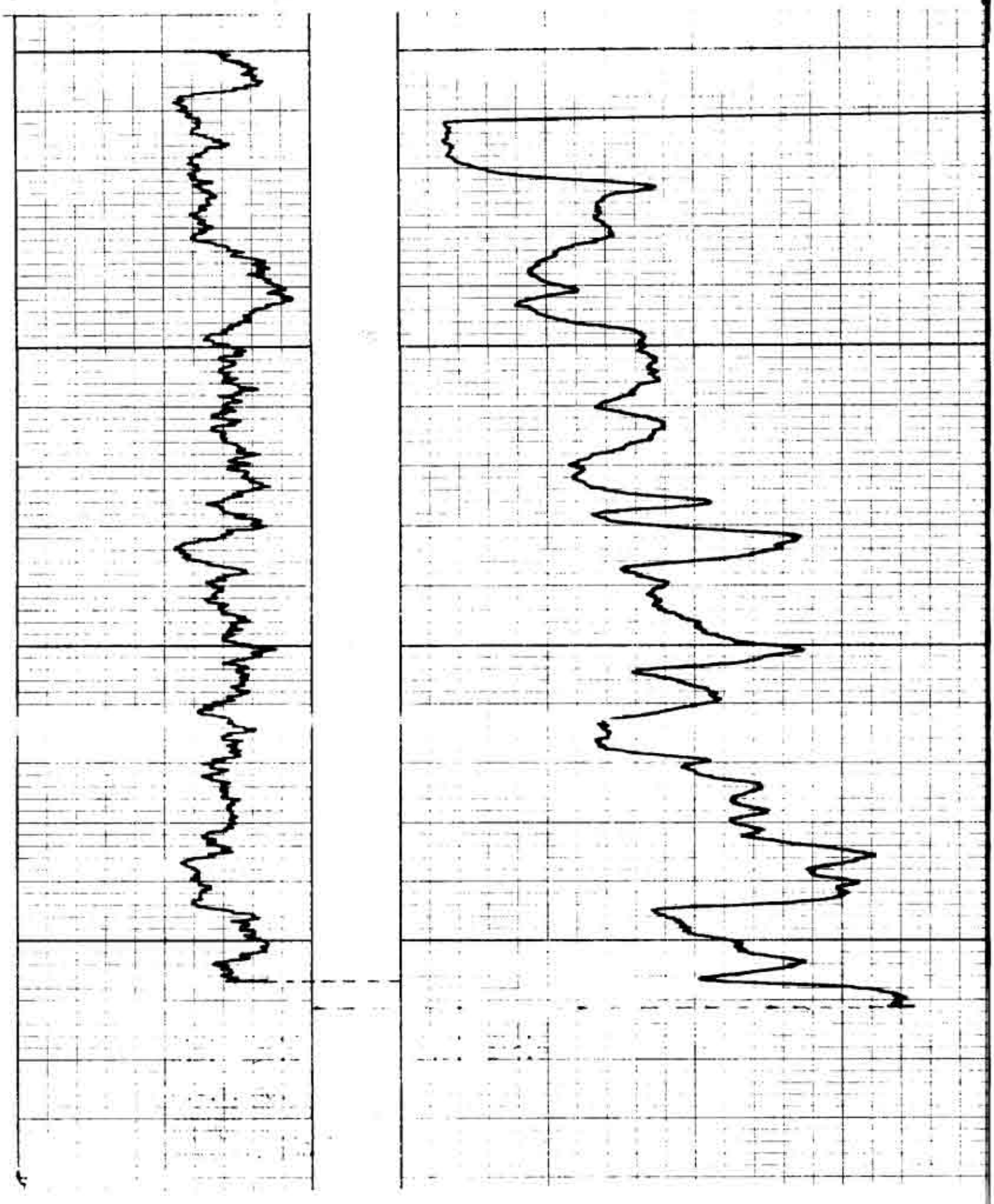
EQUIPMENT DATA

GAMMA RAY			NEUTRON		
RUN NO.	1 NW		RUN NO.	1 NW	
TOOL MODEL NO.	705		LOG TYPE	NEUTRON	
DIAMETER	1 11/16"		TOOL MODEL NO.	705	
DETECTOR MODEL NO.	705-GE		DIAMETER	1 11/16"	
TYPE	GEIGER		DETECTOR MODEL NO.	705 HR-3	
LENGTH	1 3/8" x	16"	TYPE	HR	
DISTANCE TO N. SOURCE	4.5		LENGTH	3" 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.	30	2.0	100/100	3 R	10	2.0	500/095	0	20

REFERENCE LITERATURE: OPEN HOLE - NOT CEMENTED

REMARKS: DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

GAMMA RAY — API UNITS | DEPTH AND CASING COLLARS | NEUTRON — API UNITS