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 C.E.I. NO. 15 [redacted]
FIELD IDA FAUVERGUE
COUNTRY VERNON CO., MISSOURI

LOCATION: 1293.0 FSL
310.0 FWL
SEC 33 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: G.L. ELEV. 823.5
LOG MEASURED FROM G.L. FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM G.L.

ELEV.: K.B.
D.F.
G.L. 823.5

DATE	6-12-80	6-12-80
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER	184.4	184.4
DEPTH—LOGGER	181.5	181.5
BOTTOM LOGGED INTERVAL	176.0	180.5
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	WATER	WATER
SALINITY, PPM CL.		
DENSITY		
LEVEL	5.0	5.0
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
4"		0	166.0
O/H		166.0	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	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	

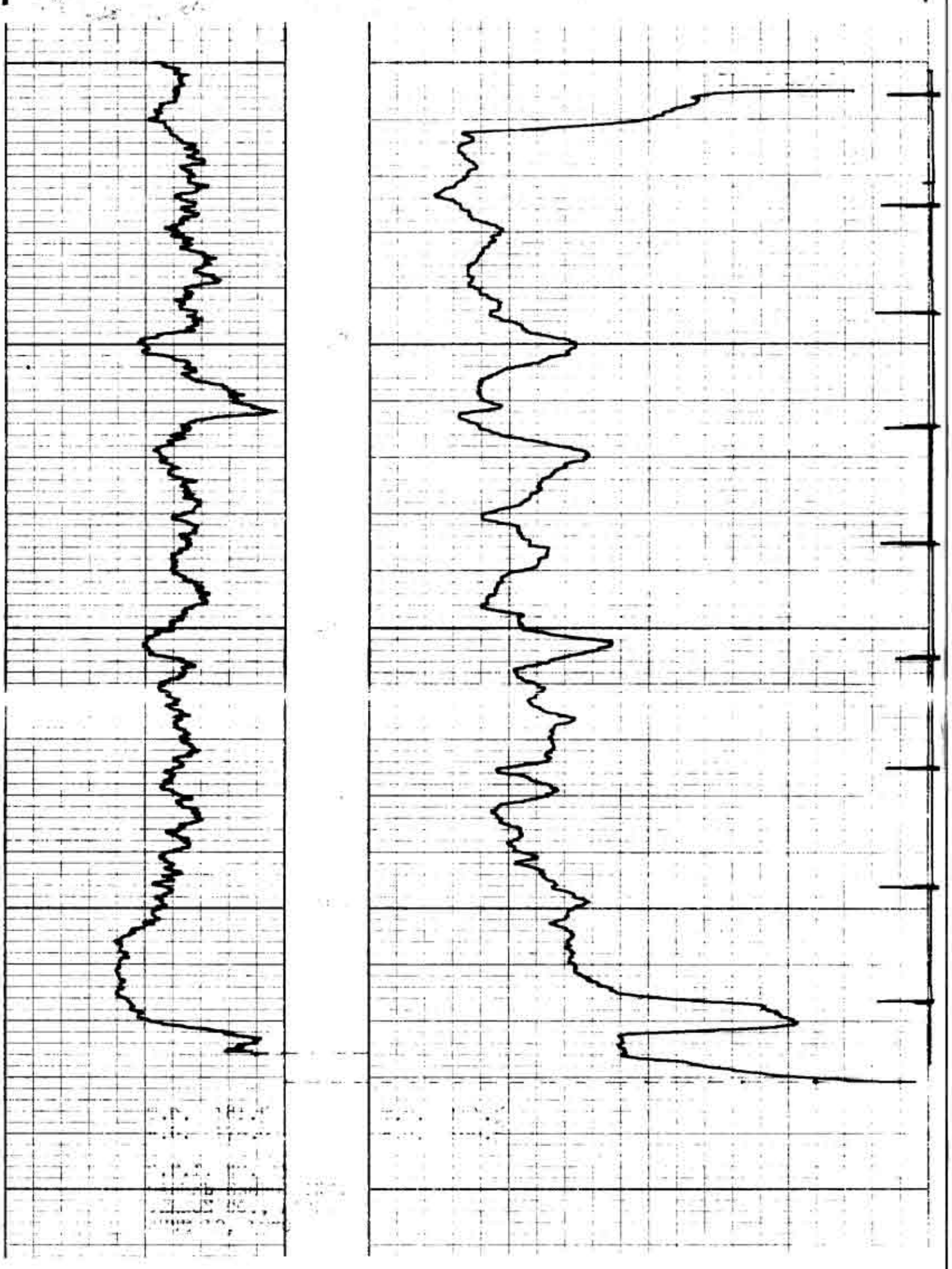
LOGGING DATA

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.	30	2.0	100/100	3 R	10	2.0	500/095	0	20

REFERENCE LITERATURE: 4" and OPEN HOLE - CEMENTED

REMARKS DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

GAMMA RAY — API UNITS

DEPTH AND CASING COLLARS

NEUTRON — API UNITS