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 CARMEL NO. 11

FIELD IDA SAUVAGEAU

COUNTRY VERNON CO., MISSOURI

LOCATION: 660.5 FNL
631.8 FWL
SEC 33 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: Gr. Lev. ELEV. 807.7
LOG MEASURED FROM Gr. Lev. FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM Gr. Lev.

ELEV.: K.B.
D.F.
G.L. 807.7

DATE	5-12-80	6-12-80
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER	129.0	129.0
DEPTH—LOGGER	130.2	128.2
BOTTOM LOGGED INTERVAL	123.0	121.5
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	WATER	WATER
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
6"H		0	T.D.

OCT 06 1980
WIO, GEL & GAS COMMISSION

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	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 NL SOURCE	4.5		LENGTH	1" x 6"	
			SOURCE MODEL NO.	71-1	
GENERAL			SERIAL NO.	71-1-335	B
MONIT TRACK NO.	0020		SPACING	13"	
[illegible]	0020		TYPE	AMBE-241	
[illegible]	0002		STRENGTH	3 CI	

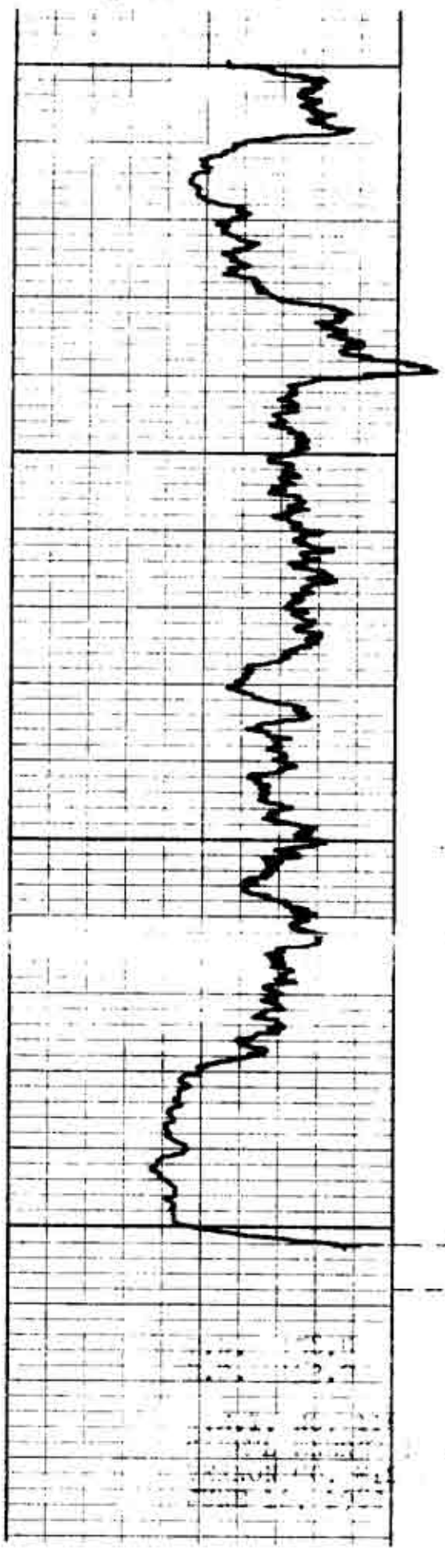
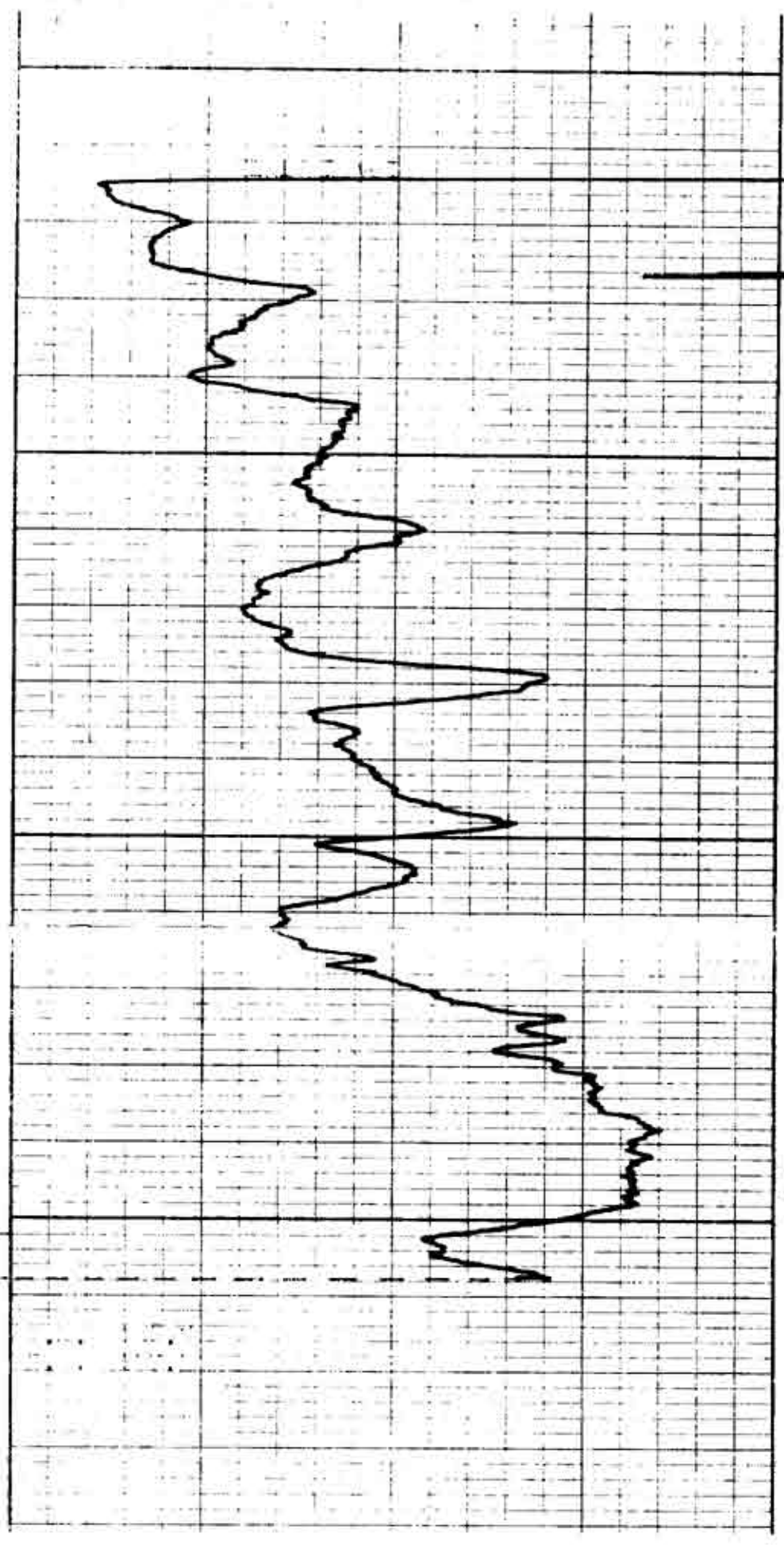
LOGGING DATA

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.
[illegible]	[illegible]	[illegible]	30	2.0	100/100	1/R	10	2.0	50/[illegible]	0	20

[illegible] BORE HOLE - NOT CEMENTED

REMARKS DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

GAMMA RAY — API UNITS

DEPTH AND CASING

NEUTRON — API UNITS