600440

ENERGY RESOURCES, INC.

Form Express 00075
P. O. Box 1431
67204-0001

Lawrence, Kansas 66044
1203 Iowa
913-841-8555

FILING NO.

COMPANY: CARMEL ENERGY INC.

WELL: MI - 31 [redacted]

FIELD: WAYNE MITCHELL LEASE

COUNTY: VERNON - MISSOURI

LOCATION: 439.7 FSL 1626.0 FWL

SEC 21 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: G.L. ELEV. 814.4
LOG MEASURED FROM: G.L. FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM: G.L.

ELEV.: K.B. D.F. G.L. 814.4

DATE	10-28-80	10-28-80
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER	192.0	192.0
DEPTH—LOGGER	191.3	191.3
BOTTOM LOGGED INTERVAL	185.8	190.3
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	WATER	WATER
SALINITY, PPM CL		
DENSITY		
LEVEL	FULL	FULL
MAX. REC. TEMP., DEG F.		
OPERATING RIG TIME		
RECORDED BY	PRATT	PRATT
WITNESSED BY		

RUN NO.	BORE-HOLE RECORD BIT	FROM	TO	CASING RECORD SIZE	WGT	FROM	TO
				6 7/8		0	T.D.

OCT 31 1980
WO. OIL & GAS COUNCIL

FOLD HERE

THIS READING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

	GAMMA RAY	NEUTRON
RUN NO.	1 NW	1 NW
LOG TYPE	705	NEUTRON
TOOL MODEL NO.	1 1/2"	705
DIAMETER		1 11/16"
DETECTOR MODEL NO.	705-GR	205 HR
TYPE	HIGH	HE
LENGTH	3.78" x 18"	1" x 6"
DISTANCE TO N. SOURCE	4.5	71-1
SOURCE MODEL NO.		71-1-13
SERIAL NO.		13"
SPACING		AMBE-241
TYPE		3 CT
STRENGTH		

GENERAL

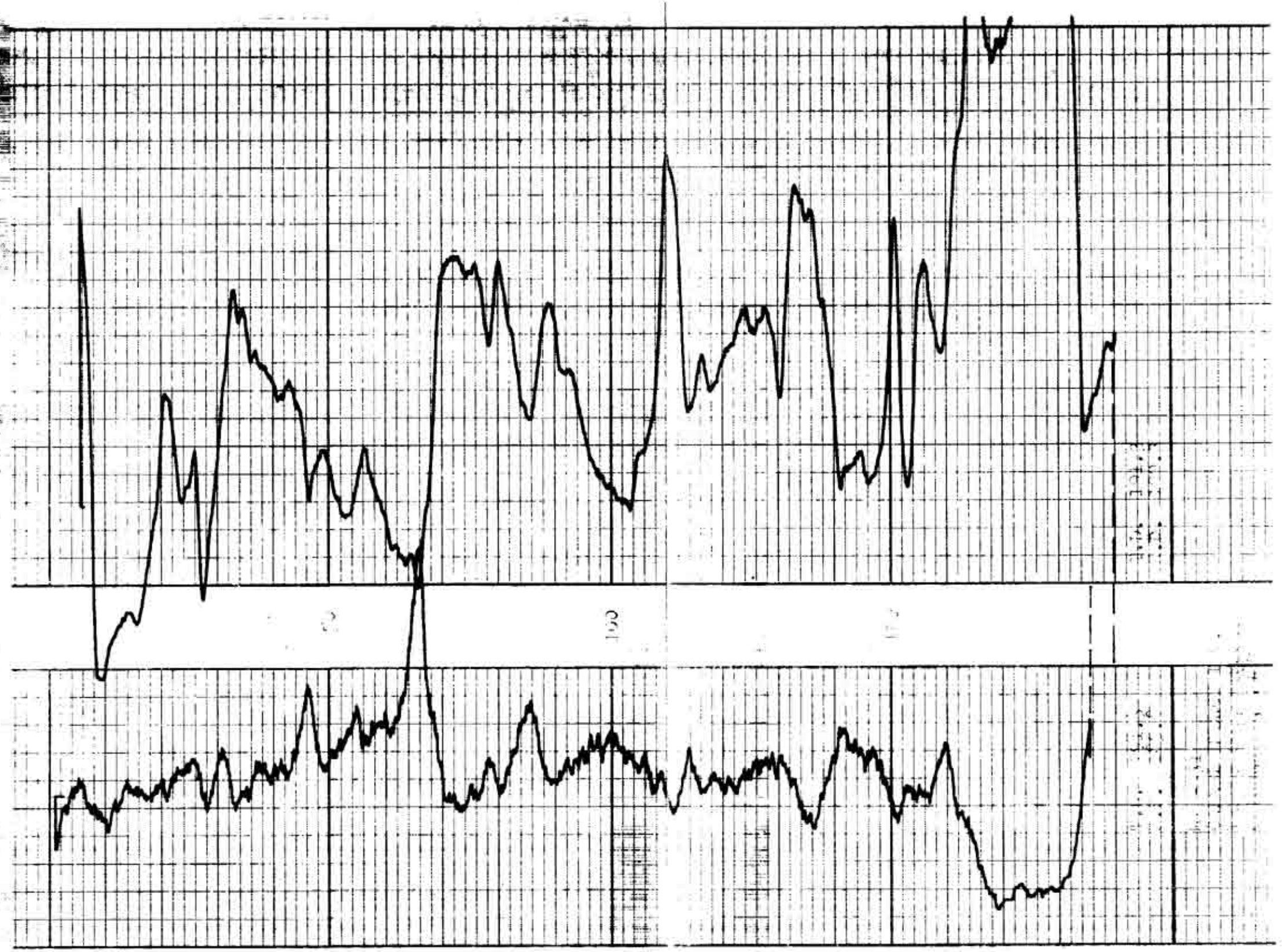
HOIST TRUCK NO.	0020
INSTRUMENT TRUCK NO.	0020
TOOL SERIAL NO.	0004

LOGGING DATA

GENERAL				GAMMA RAY					NEUTRON			
RUN NO.	DEPTHS FROM	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
1	0	T.D.	20	1	100/075	0	10	1	500/100	R

REFERENCE LITERATURE: OPEN HOLE - CURENTE

REMARKS: DRILLING CONTRACTOR: LAYNE-PETROLEUM COMPANY

GAMMA RAY DEPTH NEUTRON

CASING COLLARS