B01107

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 467
913 294 5090

Lawrence, Kansas 66044
1203 Iowa
913-841 8886

FILING NO.

COMPANY CARMEL ENERGY INC. [redacted]

WELL NO. RU-10 [redacted]

FIELD RAYMOND HARTZFIELD LEASE

COUNTY VERNON - MISSOURI

LOCATION: 200.0 FSL
2293.0 FEL

SEC 13 TWP 34N RGE 33W

OTHER SERVICES

PERMANENT DATUM: G.L. ELEV 860.4
LOG MEASURED FROM G.L. FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM G.L.

ELEV. K.B. N/A
D.F. N/A
G.L. 860.4

DATE	11-14-80	11-14-80
RUN NO	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH-DRILLER		
DEPTH-LOGGER	138.4	138.4
BOTTOM LOGGED INTERVAL	132.9	137.4
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	WATER	WATER
SALINITY, PPM CL		
DENSITY		
LEVEL	16.0	16.0
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
				O/H		0	T.D.

NOV 20 1980
MO. OIL & GAS COUNCIL

EQUIPMENT DATA

	GAMMA RAY	NEUTRON
RUN NO	1 NW	1 NW
TOOL MODEL NO	705	NEU/NEU
DIAMETER	1 11/16"	705
DETECTOR MODEL NO	705-GR	1 11/16"
TYPE	GEIGER	705 HE-
LENGTH	1 3/8" x 18"	HE
DISTANCE TO N. SOURCE	4.5	1" x 6"
SOURCE MODEL NO		71-1
SERIAL NO		71-1-332 G
SPACING		13"
TYPE		AMBE-241
STRENGTH		3 CI

GENERAL

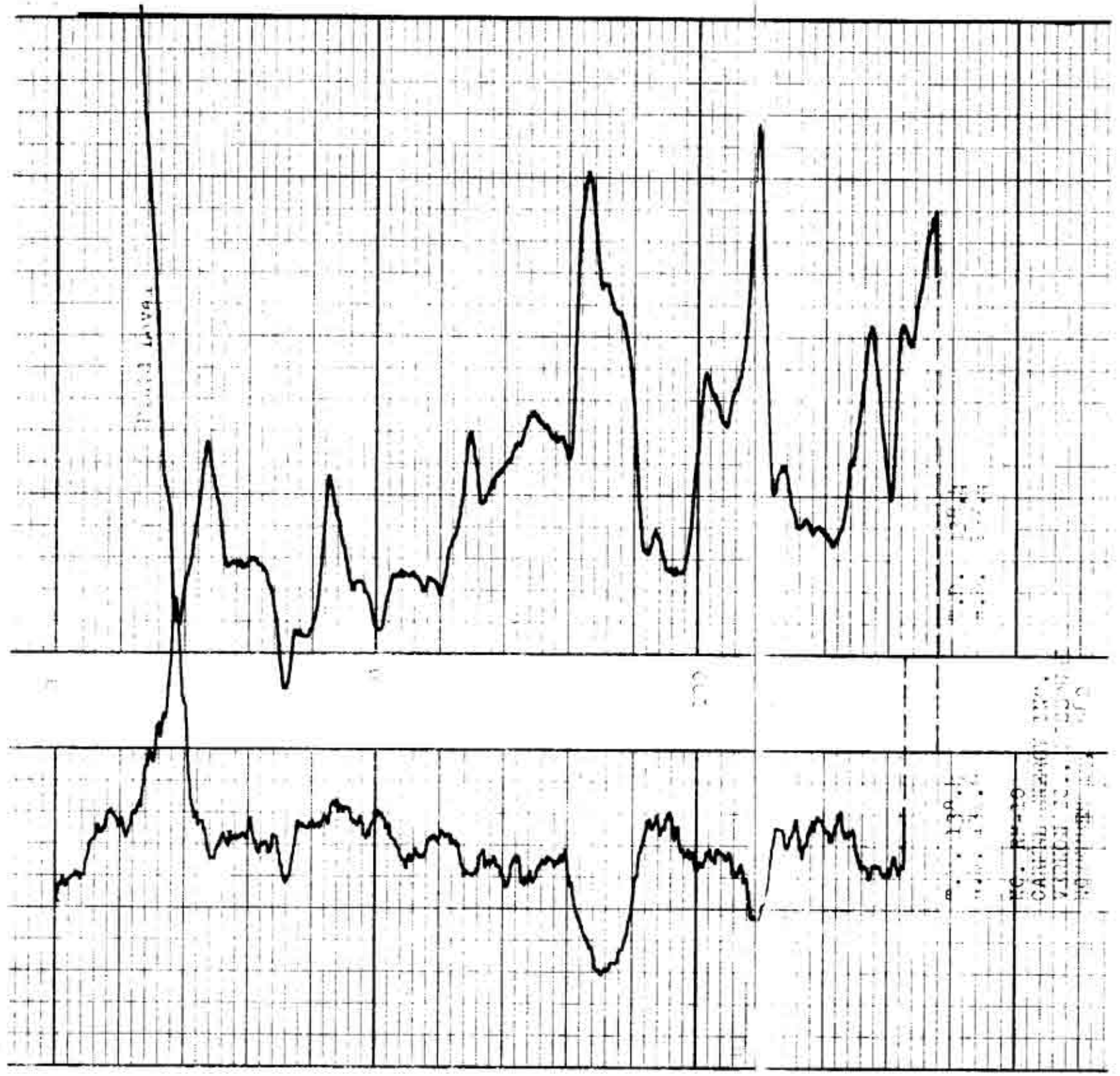
HOIST TRUCK NO.	0020
INSTRUMENT TRUCK NO.	0020
TOOL SERIAL NO.	0002

LOGGING DATA

RUN NO.	GENERAL DEPTHS FROM	TO	SPEED FT/MIN	T.C. SEC	SENS. SETTINGS	GAMMA RAY ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC	SENS. SETTINGS	NEUTRON ZERO DIV. L OR R	API N UNITS PER LOG DIV.
1	0	T.D.	20	4.0	100/975	3 L	10	4.0	500/100	6 L	20

REFERENCE LITERATURE: OPEN HOLE

REMARKS: DRILLING CONTRACTOR: TEST DRILLING SERVICE COMPANY

GAMMA RAY DEPTH NEUTRON

CASING COLLARS