G00323

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 467
913 294-5091

Lawrence, Kansas 66044
1203 Iowa
913 841-8886

FILING NO.

COMPANY CARMEL ENERGY INC [redacted]

WELL NC. WO-4

FIELD E. W. WOLFE LEASE

COUNTY VERNON - MISSOURI

LOCATION: 1563.0 FNL 1365.0 FEL

OTHER SERVICES:

SEC 16 TWP 35N RGE 33W

PERMANENT DATUM G.L. ELEV. 799.7

LOG MEASURED FROM G.L. FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM G.L.

ELEV.: K.B. D.F. G.L. 799.7

DATE	11-5-80	11-5-80
RUN NO	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER		
DEPTH—LOGGER	158.3	158.3
BOTTOM LOGGED INTERVAL	152.8	157.3
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	WATER	WATER
SALINITY, PPM CL		
DENSITY		
LEVEL	18.0	18.0
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		O.	T.D.

NOV 12 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-GE	1 11/16"
TYPE	GEIGER	705 HE-3
LENGTH	1 3/8" x 18"	HE
DISTANCE TO N. SOURCE	4.5	1" x 6"
SOURCE MODEL NO.		71-1
SERIAL NO.		71-1-335 G
SPACING		13"
TYPE		AMBE-241
STRENGTH		3 CI

GENERAL

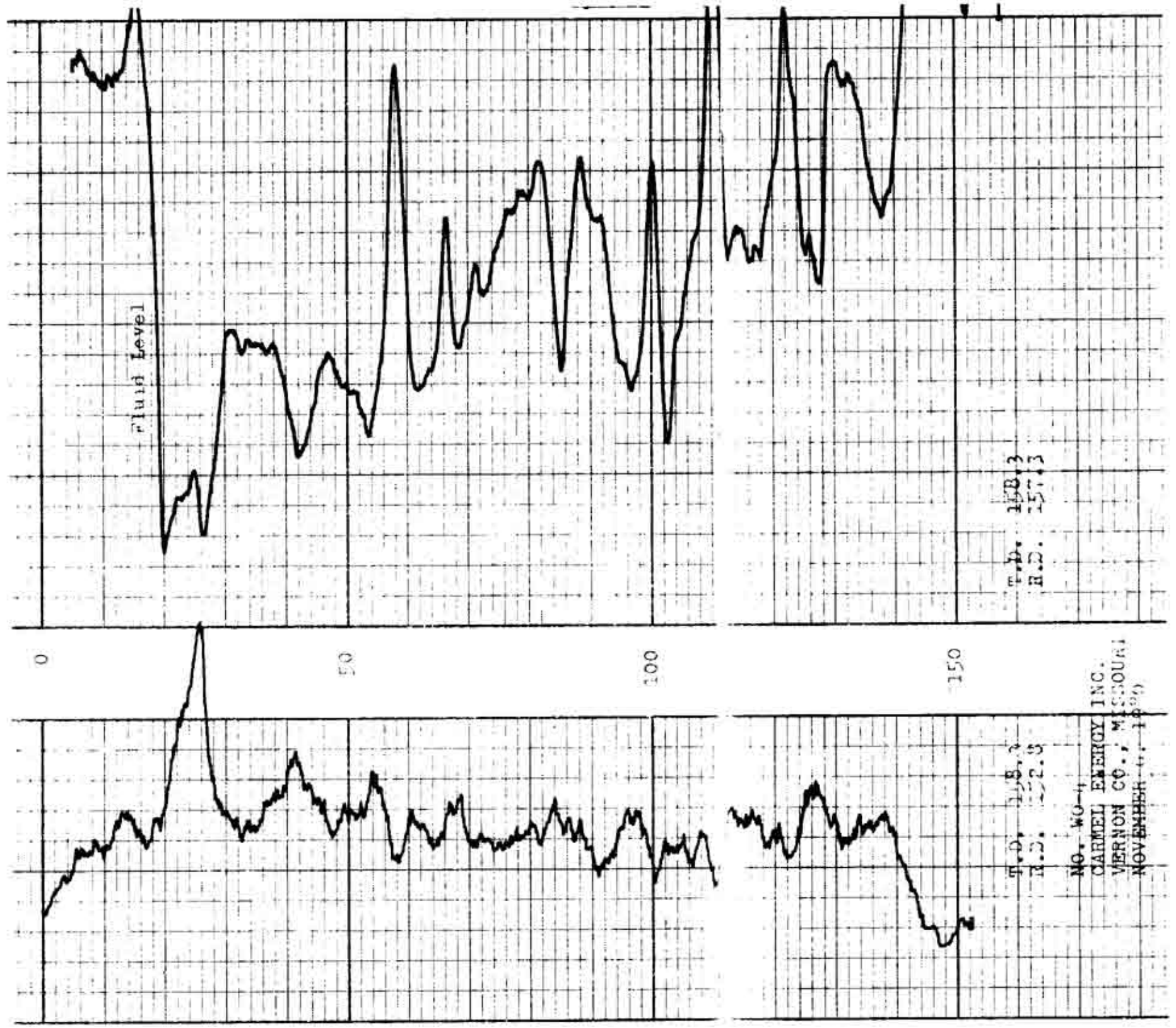
HOIST TRUCK NO.	0020
INSTRUMENT TRUCK NO.	0020
TOOL SERIAL NO.	0002

LOGGING DATA

GENERAL RUN NO	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T.C. SEC	GAMMA RAY SENS SETTINGS	GAMMA RAY ZERO DIV. L OR R	GAMMA RAY API G.R. UNITS PER LOG DIV.	NEUTRON T.C. SEC.	NEUTRON SENS. SETTINGS	NEUTRON ZERO DIV. L OR R	NEUTRON API N UNITS PER LOG DIV.
1	0	T.D.	20	4.0	100/975	0	10	4.0	500/100	8 L	20

REFERENCE LITERATURE OPEN HOLE

REMARKS DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

GAMMA RAY NEUTRON CASING COLLARS

DEPTH