60032a

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 467
913 294-5950

Lawrence, Kansas 66044
1203 Iowa
913 841-8881

FILING NO.

COMPANY: CARMEL ENERGY INC. [redacted]

WELL: NO. WO-3

FIELD: E. W. WOLFE LEASE

COUNTY: VERNON - MISSOURI

LOCATION: 1561.0 FNL, 1975.0 FEL

SEC 16 TWP 35N RGE 33W

OTHER SERVICES

PERMANENT DATUM: G.L. ELEV 804.7
LOG MEASURED FROM: G.L. FT ABOVE PERM. DATUM
DRILLING MEASURED FROM: G.L.

ELEV K.B. / D.F. / G.L. 804.7

DATE	11-5-80	11-5-80
RUN NO	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH-DRILLER	178.5	178.5
DEPTH-LOGGER	178.5	178.5
BOTTOM LOGGED INTERVAL	172.8	177.3
TOP LOGGED INTERVAL	0.0	1.5
TYPE FLUID IN HOLE	WATER	WATER
SALINITY PPM CL		
DENSITY		
LEVEL	19.0	19.0
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 12 1980
MO. OIL & GAS COUNCIL

EQUIPMENT DATA

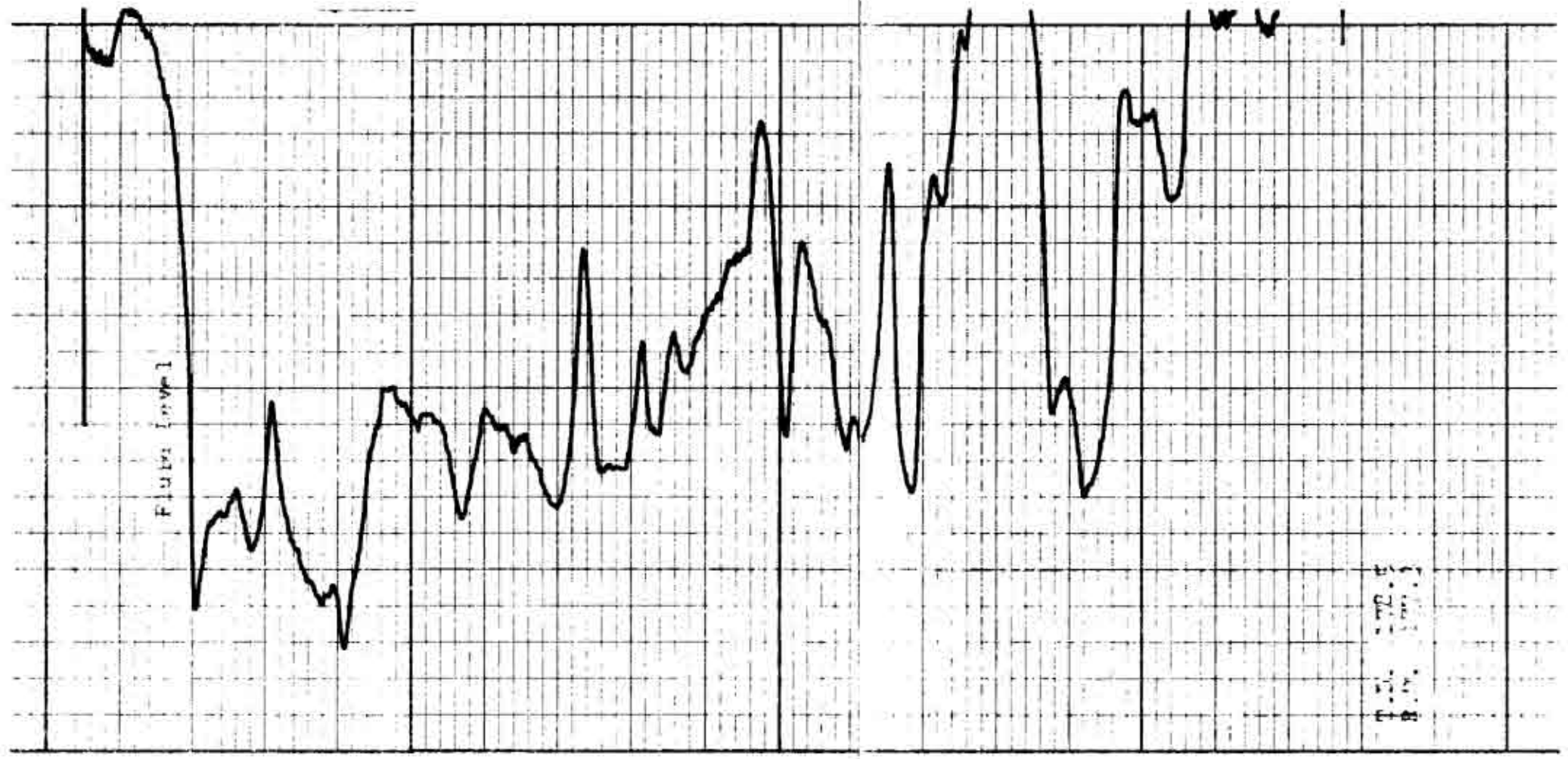
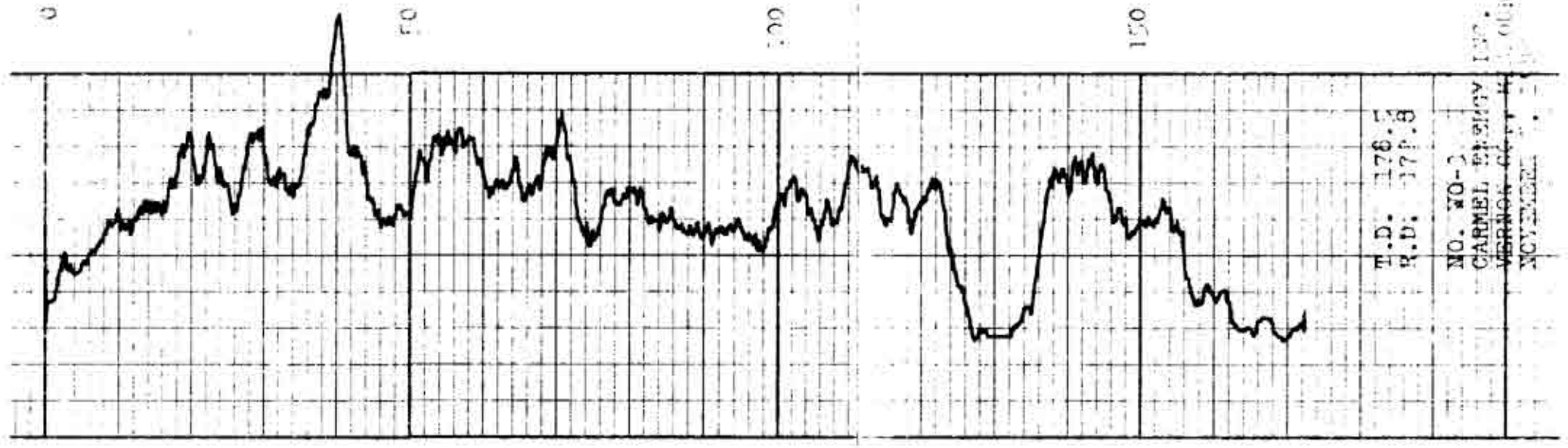
	GAMMA RAY	NEUTRON
RUN NO	1 NW	1 NW
TOOL MODEL NO	705	NEU/NEU
DIAMETER	1 11/16"	705 1 11/16"
DETECTOR MODEL NO	705-GB	705 HE-3
TYPE	GEIGER	HE
LENGTH	1 3/8" x 18"	1" x 6"
DISTANCE TO N SOURCE	4.5	71-1
SOURCE MODEL NO		71-1-335 G
SERIAL NO		13"
SPACING		AMBE-241
TYPE		3 CI
STRENGTH		
GENERAL	0020	
HOIST TRUCK NO	0020	
INSTRUMENT TRUCK NO	0002	
TOOL SERIAL NO		

LOGGING DATA

GENERAL RUN NO	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	NEUTRON T.C. SEC	SENS SETTINGS	ZERO DIV. L OR R	API N UNITS PER LOG DIV
1	0	T.D.	20	4.0	100/025	0	10	4.0	500/100	8 L	20

REFERENCE LITERATURE: OPEN HOLE

REMARKS: DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

GAMMA RAY NEUTRON

CASING COLLARS