G00331

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 467
913-294-5060

Lawrence, Kansas 66044
1203 Iowa
913-841-8886

FILING NO.

COMPANY CARMEL ENERGY INC.

WELL WO NO. 8 [redacted]

FIELD E. W. WOLFE LEASE

COUNTY VERNON - MISSOURI

LOCATION: 1563.0 FNL
565.0 FEL

SEC 16 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: G.L. ELEV. 798.4

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

DRILLING MEASURED FROM G.L.

ELEV.: K.B.
D.F.
G.L. 798.4

DATE	10-8-80	10-8-80	
RUN NO.	1 NW	1 NW	
TYPE LOG	GAMMA RAY	NEUTRON	
DEPTH—DRILLER			
DEPTH—LOGGER	141.0	141.0	
BOTTOM LOGGED INTERVAL	135.5	140.0	
TOP LOGGED INTERVAL	4.0	6.5	
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		0	T.D.

OCT 14 1980
MO. OIL & GAS COUNCIL

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

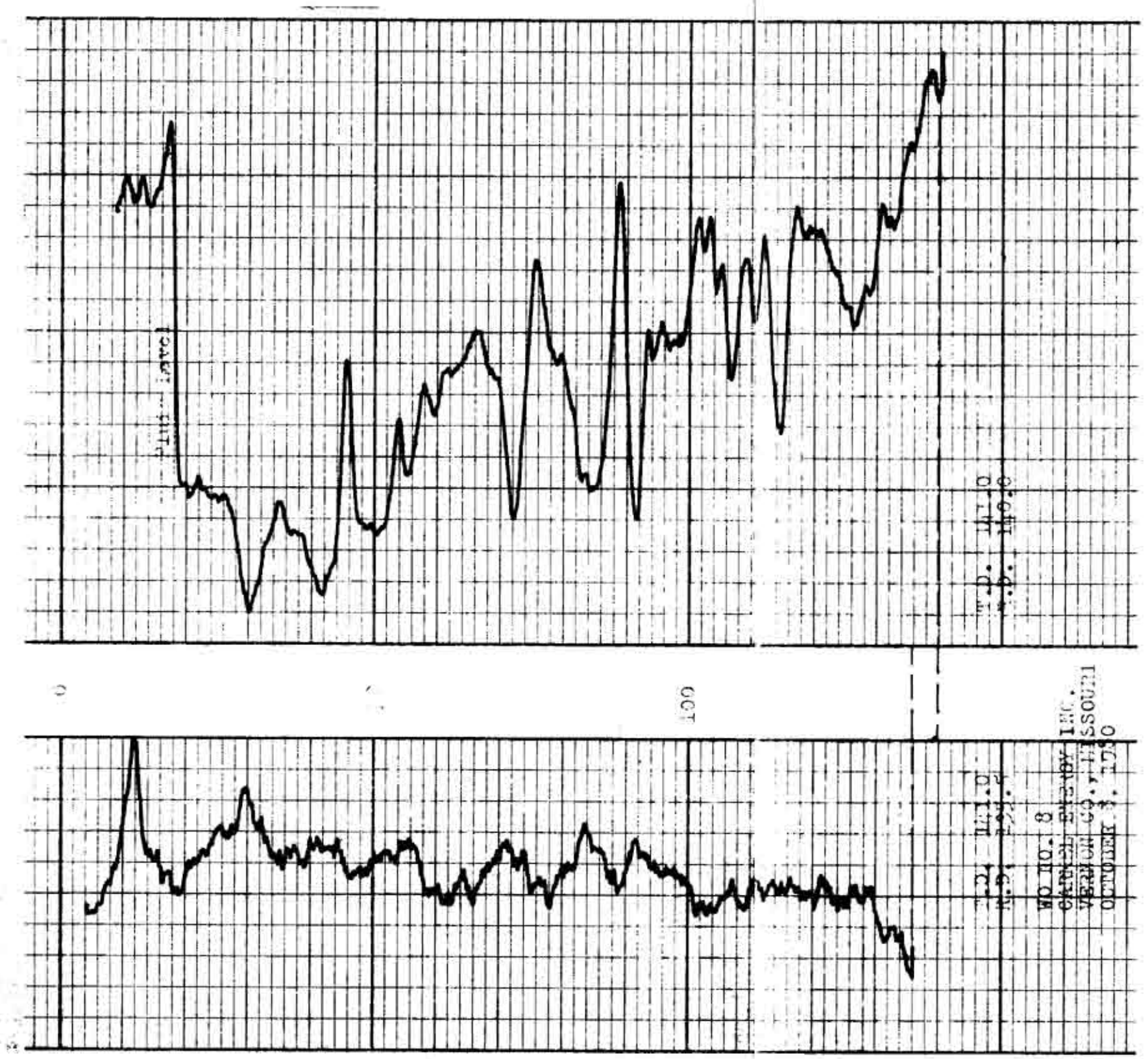
GAMMA RAY		NEUTRON	
RUN NO.	1 NW	RUN NO.	1 NW
TOOL MODEL NO.	705	LOG TYPE	NEU/NEU
DIAMETER	1 11/16"	TOOL MODEL NO.	705
DETECTOR MODEL NO.	705-GE	DIAMETER	1 11/16"
TYPE	GEIGER	DETECTOR MODEL NO.	705 HE-3
LENGTH	1 3/8" x 18"	TYPE	HE
DISTANCE TO N. SOURCE	4.5	LENGTH	1" x 6"
		SOURCE MODEL NO.	71-1
GENERAL		SERIAL NO.	71-1-335 G
HOIST TRUCK NO.	0020	SPACING	13"
INSTRUMENT TRUCK NO.	0020	TYPE	AMBE-24
TOOL SERIAL NO.	0002	STRENGTH	3 CI

LOGGING DATA

GENERAL RUN NO	DEPTHS FROM	TO	SPEED FT/MIN	GAMMA RAY T.C. SEC	SENS SETTINGS	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	100/275	0	10	4.0	500/100	8 L	20

REFERENCE LITERATURE: OPEN HOLE - NOT CALIBRATED

REMARKS: DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

GAMMA RAY DEPTH NEUTRON

CASING COLLARS