G00499

ENERGY RESOURCES, INC.

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

Lawrence, Kansas 66044
1203 Iowa
913-841-8866

RELEASED

FILING NO.

COMPANY: CARMEL ENERGY INC.

WELL: WH - 68

FIELD: CHARLES WHITEFORD LEASE

COUNTY: VERNON - MISSOURI

LOCATION: 2337.0 FNL, 686.0 FWL

SEC 28 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: G.L. ELEV. 824.7
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. 824.7

DATE	11-21-80	11-21-80
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER		
DEPTH—LOGGER	200.1	200.1
BOTTOM LOGGED INTERVAL	194.6	199.1
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	WATER/OIL	WATER/OIL
SALINITY, PPM CL		
DENSITY		
LEVEL	10.0	10.0
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.

DEC 01 1980
MO. OIL & GAS COUNCIL

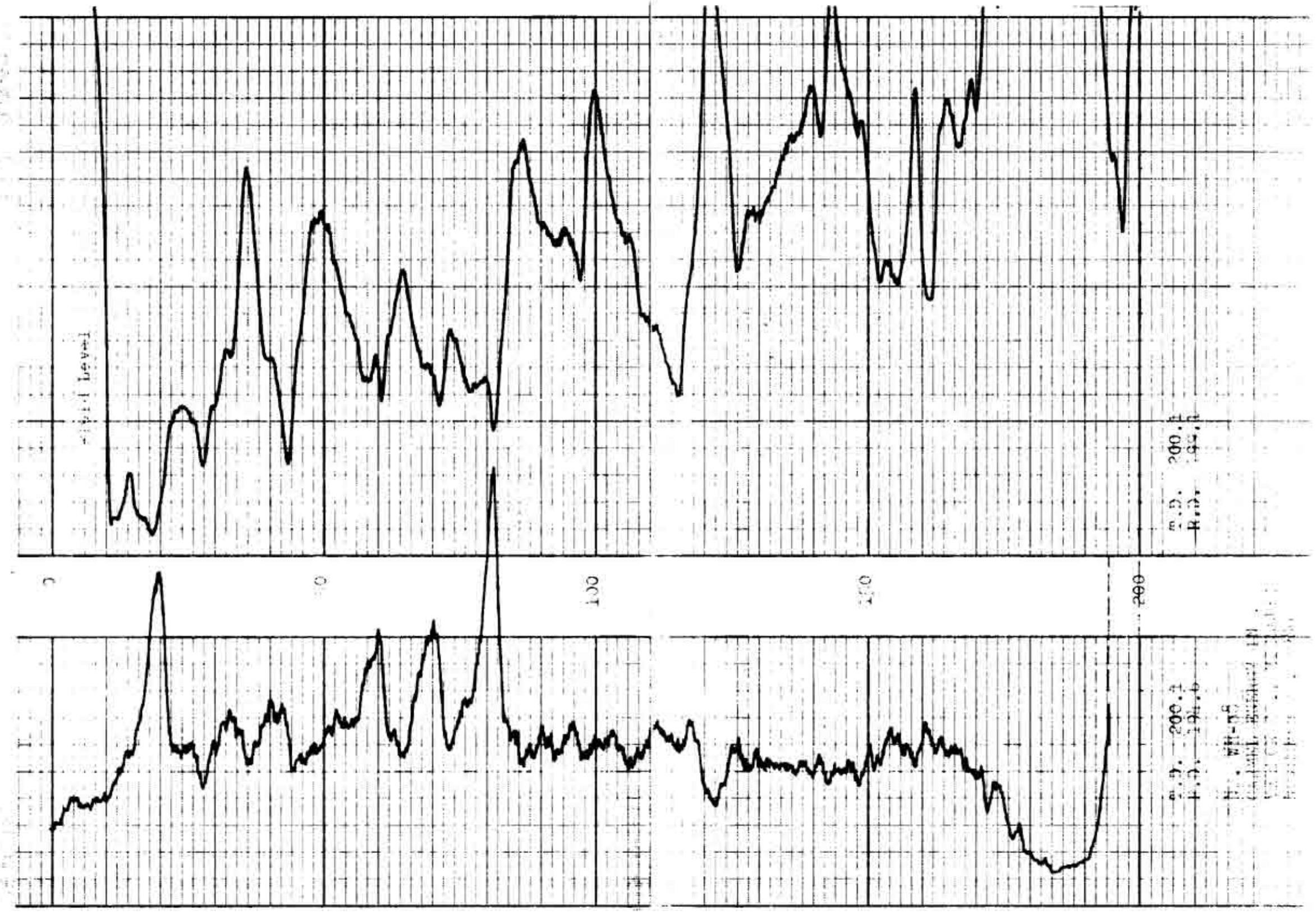
EQUIPMENT DATA

	GAMMA RAY	NEUTRON
RUN NO.	1 NW	1 NW
TOOL MODEL NO.	705	NEU/NBT
TOOL TYPE		705
DIAMETER	1 11/16"	1 11/16"
DETECTOR MODEL NO.	705-GE	705 HR-3
TYPE	GEIGER	HE
LENGTH	1 3/8" x 18"	1" x 6"
DISTANCE TO N. SOURCE	4.5	71-1
SOURCE MODEL NO.		71-1-335.0
SERIAL NO.		13"
SPACING		AMBE-241
TYPE		3 CI
STRENGTH		
HOIST TRUCK NO.	0020	
INSTRUMENT TRUCK NO.	0020	
TOOL SERIAL NO.	0002	

LOGGING DATA

RUN NO.	DEPTHS FROM	DEPTHS 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	API IN UNITS PER LOG DIV.
1	0	T.D.	20	4.0	100/975	0 R	10	4.0	500/100	5 R	20

REFERENCE LITERATURE: OPEN HOLE

REMARKS: DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

GAMMA RAY DEPTH NEUTRON CASING COLLARS