G00554

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 467
913-294-5060
Lawrence, Kansas 66044
1203 Iowa
913-841-8886

RELEASED

FILING NO. _____

COMPANY CARMEL ENERGY INC.
WELL WH-61
FIELD CHARLES WHITEFORD LEASE
COUNTY VERNON - MISSOURI

LOCATION: 2068.0 FNL 530.0 FWL
SEC 28 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: G.L. ELEV. 827.1
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. 827.1

DATE	12-19-80	12-19-80
RUN NO	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER		
DEPTH—LOGGER	198.5	198.5
BOTTOM LOGGED INTERVAL	193.0	197.5
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	WATER	WATER
SALINITY, PPM CL		
DENSITY		
LEVEL	FULL	FULL
MAX. REC. TEMP., DEG F.		
OPERATING RIG TIME		
RECORDED BY	MORGAN	MORGAN
WITNESSED BY		

DEC 24 1980
MO. OIL & GAS COUNCIL

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
OPEN	HOLE		

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

GAMMA RAY		
RUN NO.	1 NW	
TOOL MODEL NO	705	
DIAMETER	1 11/16"	
DETECTOR MODEL NO	705-GE	
TYPE	GEIGER	
LENGTH	1 3/8" x 18"	
DISTANCE TO N. SOURCE	4.5	

GENERAL		
HOIST TRUCK NO.	0020	
INSTRUMENT TRUCK NO.	C020	
TOOL SERIAL NO	0002	

NEUTRON		
RUN NO.	1 NW	
LOG TYPE	NEU/NEU	
TOOL MODEL NO.	705	
DIAMETER	1 11/16"	
DETECTOR MODEL NO	705 HE-3	
TYPE	HE	
LENGTH	1" x 6"	
SOURCE MODEL NO	71-1	
SERIAL NO	71-1-335	G
SPACING	13"	
TYPE	AMBE-241	
STRENGTH	3 CI	

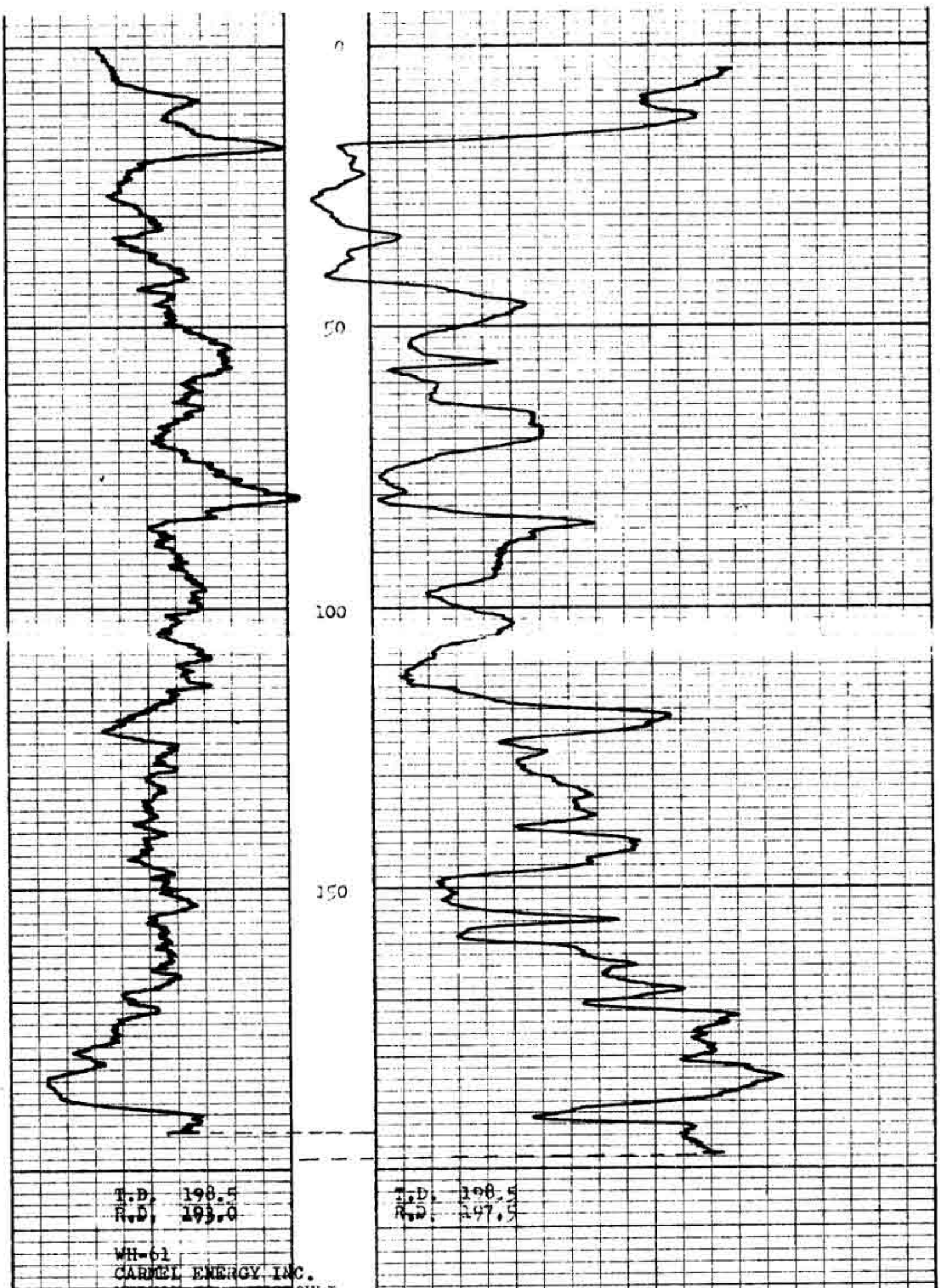
LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
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 N. UNITS PER LOG DIV
1	0	T.D.	20	4.0	100/075	0 R	10	4.0	500/100	5 L	20

REFERENCE LITERATURE: OPEN HOLE

REMARKS DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

NSCO 16240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS