600514

ENERGY RESOURCES, INC.

Pedro, Kansas 66071
P.O. Box 467
913-204-6060

Lawrence, Kansas 66044
1263 Lynn
913-841-9885

FILING NO. _____

COMPANY CARMEL ENERGY INC.

WELL WH - 43

FIELD CHARLES WHITEFORD LEASE

COUNTY VERNON - MISSOURI

LOCATION: 1528.0 FNL 1153.0 FWL

SEC 28 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: G.L. ELEV. 819.9

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

DRILLING MEASURED FROM G.L.

ELEV.: K.B. N.A. DF N.A. G.L. 819.9

DATE	11-21-80	11-21-80
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER		
DEPTH—LOGGER	155.0	155.0
BOTTOM LOGGED INTERVAL	149.5	154.0
TOP LOGGED INTERVAL	0.0	4.5
TYPE FLUID IN HOLE	WATER/OIL	WATER/OIL
SALINITY, PPM CL.		
DENSITY		
LEVEL	8.0	8.0 %
MAX. REC. TEMP., DEG F.		
OPERATING RIG TIME		
RECORDED BY	PRATT	PRATT
WITNESSED BY		

BORE-HOLE RECORD

RUN NO	BIT	FROM	TO

CASING RECORD

SIZE	WGT	FROM	TO
C/H		0	T.D.

DEC 01 1980

MO. OIL & GAS COUNCIL

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	0020	
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	

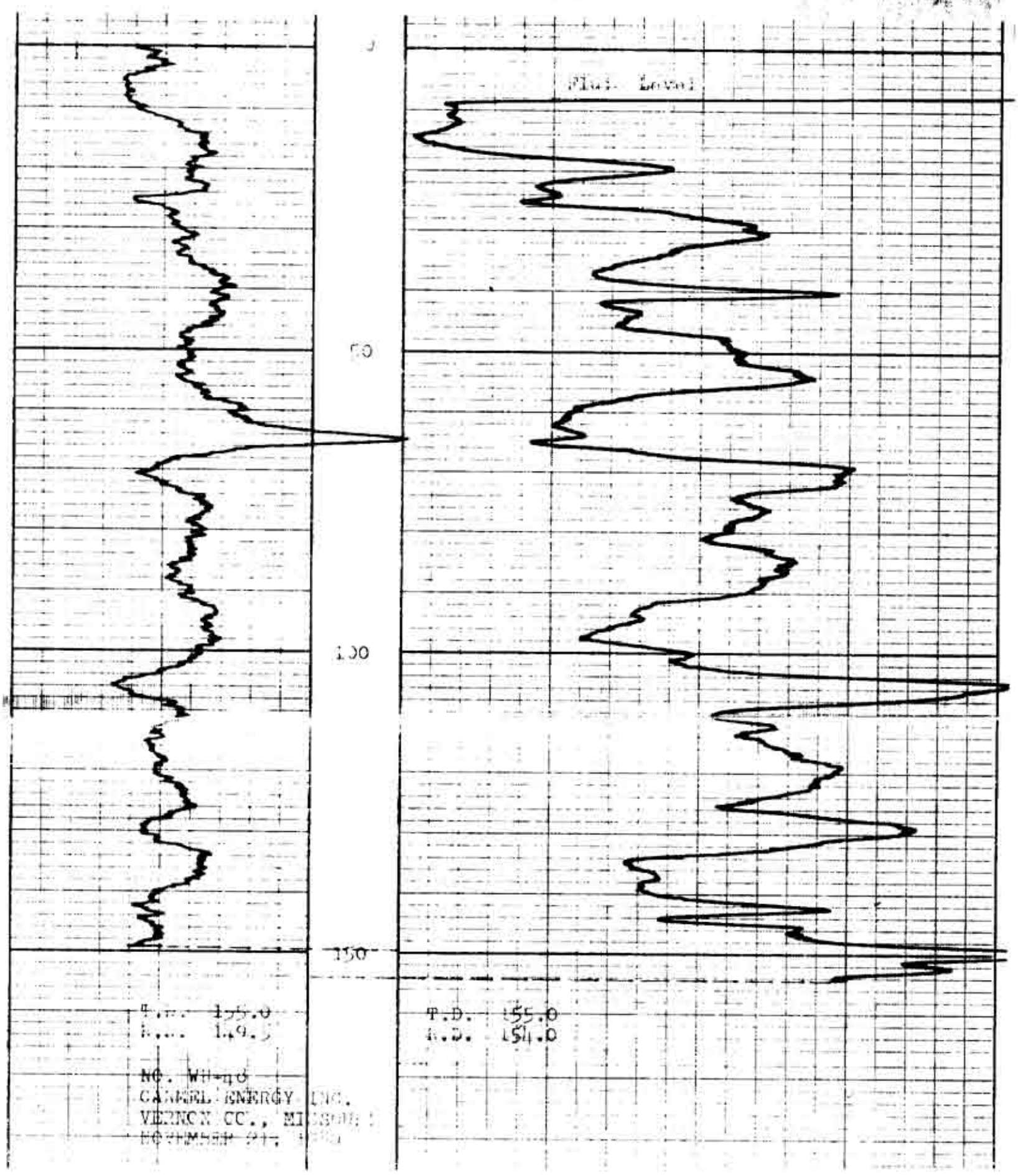
LOGGING DATA

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 14240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS