ENERGY RESOURCES, INC.

Parsons, Kansas 67071
P. O. Box 487
316-421-6080
Lawrence, Kansas 66044
1203 Iowa
913-841-3846

FILING NO.

COMPANY CARMEL ENERGY INC.

WELL LR - 11

FIELD LOIS RENEKER LEASE

COUNTY VERNON - MISSOURI

LOCATION: 400.0 FSL 3700.0 FWL

SEC. 19 TWP. 34N RGE. 33W

OTHER SERVICES

PERMANENT DATUM G.L. ELEV. 860.2

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. 860.2

DATE	11-26-80	11-26-80
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER	177.9	177.9
DEPTH—LOGGER	178.4	176.9
BOTTOM LOGGED INTERVAL	0.0	4.5
TOP LOGGED INTERVAL	WATER	WATER
TYPE FLUID IN HOLE		
SALINITY, PPM CL		
DENSITY	17.0	17.0
LEVEL		
MAX. REC. TEMP., DEG. F		
OPERATING RIG TIME	MORGAN	MORGAN
RECORDED BY		
WITNESSED BY		

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
				OPEN	HOLE		

CASING RECORD

DEC 08 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/MRH	
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.	71-1-339	
HOIST TRUCK NO.	0020		SPACING	13"	
INSTRUMENT TRUCK NO.	0020		TYPE	AMBE-241	
TOOL SERIAL NO.	0002		STRENGTH	3 CI	

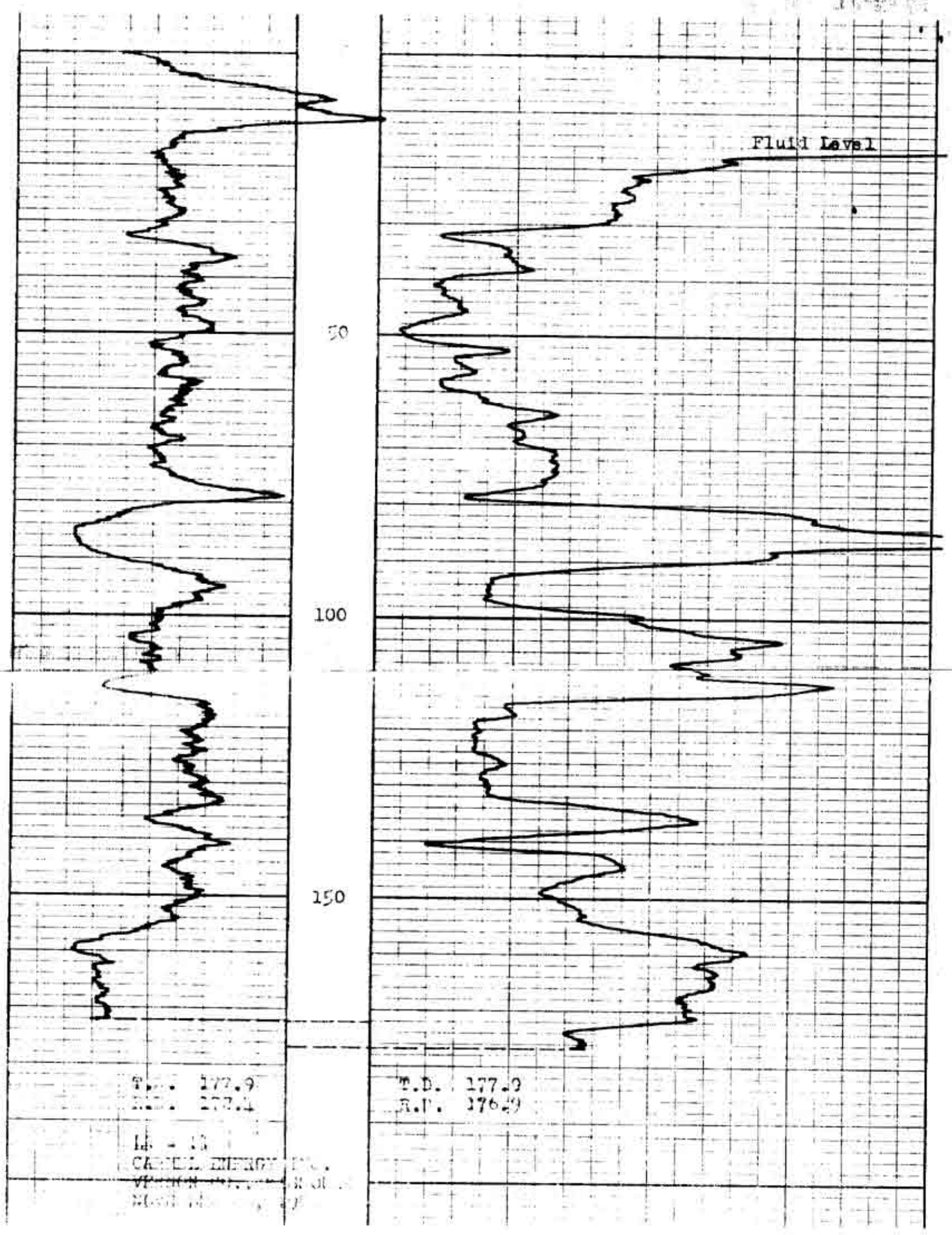
LOGGING DATA

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	10	4.0	500/100	5 L	20

REFERENCE LITERATURE OPEN HOLE

REMARKS DRILLING CONTRACTOR: TEST DRILLING COMPANY

NSCO 16240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS