G00314

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 467
913 294 5050

Lawrence, Kansas 66044
1203 Iowa
913 841 8886

RELEASED

FILING NO

COMPANY CARMEL ENERGY INC.

WELL NO. LR - 9

FIELD LOIS RENIKER LEASE

Core: ~~G00314~~ C0451

COUNTY VERNON - MISSOURI

LOCATION: 400.0 FSL
3200.0 FWL

SEC 19 TWP 34N. RGE 33W.

OTHER SERVICES:

PERMANENT DATUM G.L. ELEV. 861.7

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

DRILLING MEASURED FROM G.L.

ELEV. K.B. D.F. G.L. 861.7

DATE	11-21-80	11-21-80	
RUN NO.	1 NW	1 NW	
TYPE LOG	GAMMA RAY	NEUTRON	
DEPTH—DRILLER			
DEPTH—LOGGER	178.6	178.6	
BOTTOM LOGGED INTERVAL	173.1	177.6	
TOP LOGGED INTERVAL	0.0	4.5	
TYPE FLUID IN HOLE	WATER	WATER	
SALINITY, PPM CL.			
DENSITY			
LEVEL	44.0	44.0	
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

FOLD HERE

TRIS READING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

	GAMMA RAY	NEUTRON
RUN NO.	1 NW	1 NW
TOOL MODEL NO	705	NEU/WELL
DIAMETER	1 11/16"	705
DETECTOR MODEL NO	705-GE	1 11/16"
TYPE	GEIGER	705 HE-3
LENGTH	1 3/8" x 18"	HE
DISTANCE TO N SOURCE	4.5	1" x 6"
SOURCE MODEL NO		71-1
SERIAL NO		71-1-335 G
SPACING		13"
TYPE		AMBE-241
STRENGTH		3 CI

GENERAL

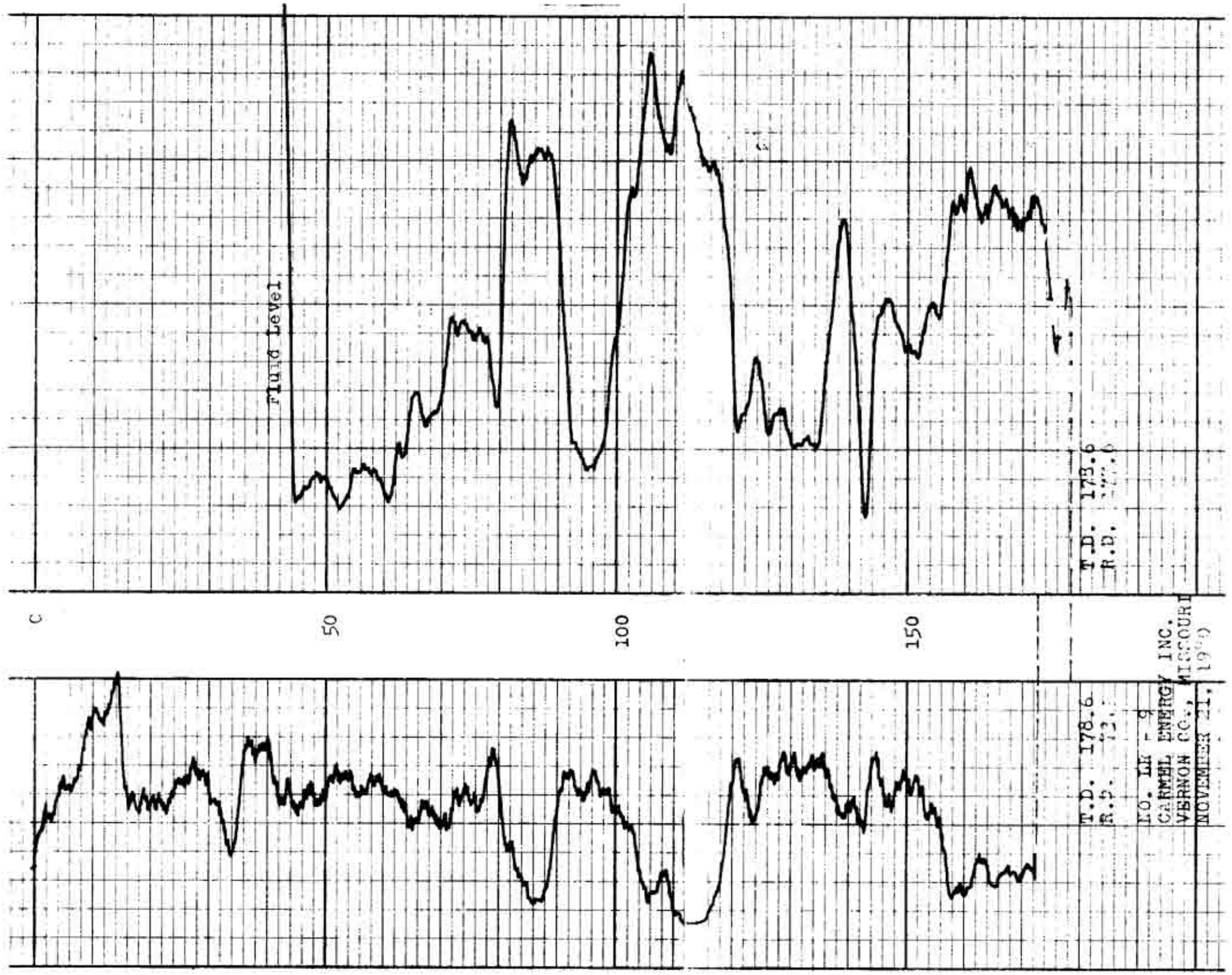
HOIST TRUCK NO	0020
INSTRUMENT TRUCK NO	0020
TOOL SERIAL NO	0002

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 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: TEST DRILLING COMPANY

GAMMA RAY DEPTH NEUTRON

CASING COLLARS