G00313

**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 - 7 — Core: C01152

FIELD: LOIS RENIKER LEASE

COUNTY: VERNON - MISSOURI

LOCATION: 400.0 FSL, 2700.0 FWL

SEC 19 TWP 34N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: G.L. ELEV. 858.0 — ELEV.: K.B. N.A.
LOG MEASURED FROM: G.L. FT. ABOVE PERM. DATUM — D.F. N.A.
DRILLING MEASURED FROM: G.L. — G.L. 858.0

| | | |
|---|---|---|
| DATE | 11-21-80 | 11-21-80 |
| RUN NO | 1 NW | 1 NW |
| TYPE LOG | GAMMA RAY | NEUTRON |
| DEPTH—DRILLER | | |
| DEPTH—LOGGER | 135.7 | 135.7 |
| BOTTOM LOGGED INTERVAL | 130.2 | 134.7 |
| TOP LOGGED INTERVAL | 0.0 | 4.5 |
| TYPE FLUID IN HOLE | WATER | WATER |
| SALINITY, PPM CL | | |
| DENSITY | | |
| LEVEL | 19.0 | 19.0 |
| MAX. REC. TEMP., DEG F. | | |
| OPERATING RIG TIME | | |
| RECORDED BY | PRATT | PRATT |
| WITNESSED BY | | |

To 12-1-81 LRS

| 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 | RUN NO. | 1 NW |
| TOOL MODEL NO | 705 | LOG TYPE | NEU/NEU |
| 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 H. SOURCE | 4.5 | LENGTH | 1" x 6" |
| | | SOURCE MODEL NO | 71-1 |
| GENERAL | | SERIAL NO | 71-1-335 G |
| HOIST TRUCK NO. | 0020 | SPACING | 13" |
| INSTRUMENT TRUCK NO. | 0020 | TYPE | AMBB-2U1 |
| TOOL SERIAL NO | 0002 | STRENGTH | 3 CI |

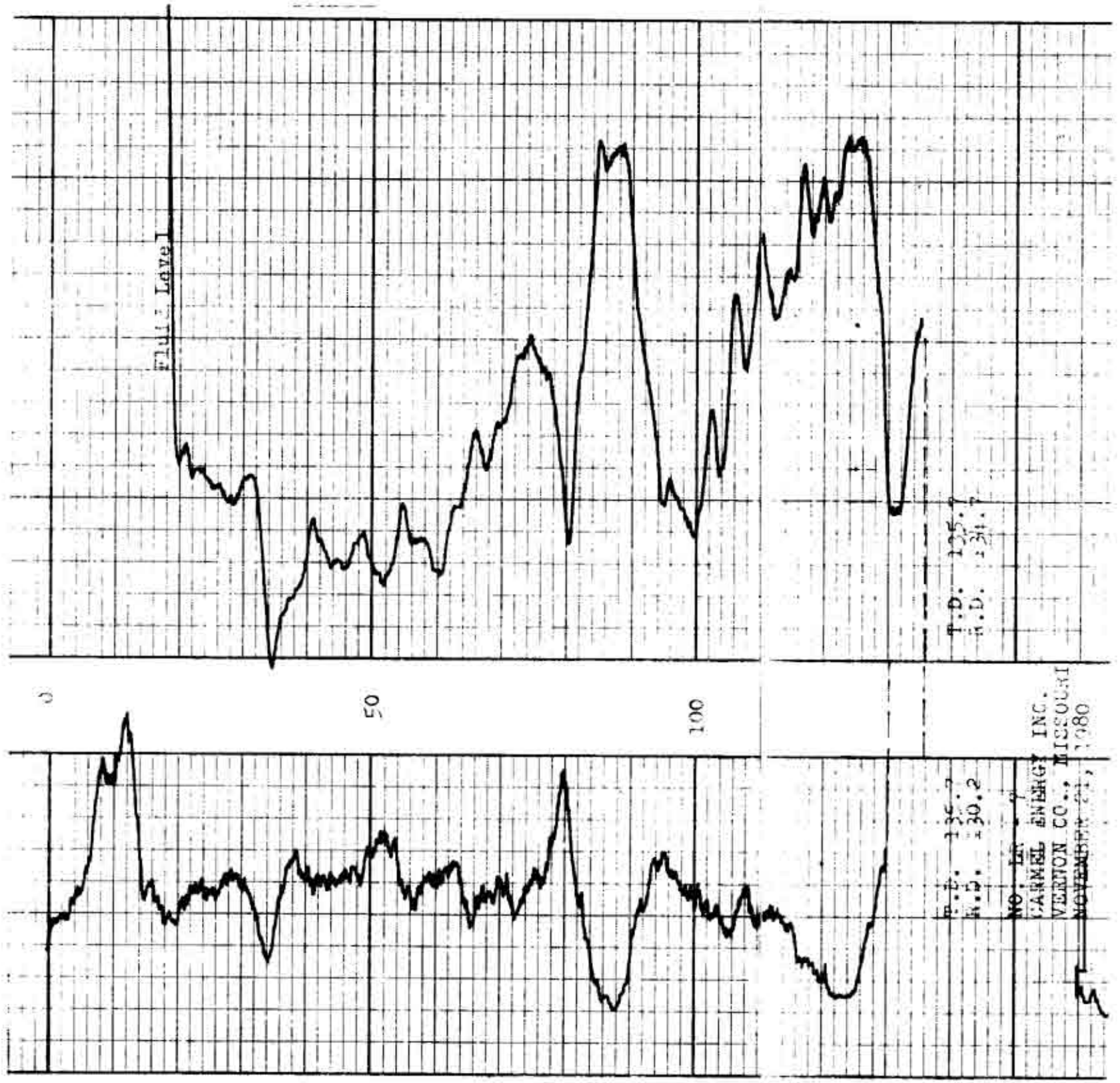
**LOGGING DATA**

| GENERAL | | | | | GAMMA RAY | | | | | NEUTRON | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RUN NO | DEPTHS FROM | 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

NSO 1014

GAMMA RAY — DEPTH — NEUTRON

CASING COLLARS