G00348

# ENERGY RESOURCES, INC.

Paola, Kansas 66071
P.O. Box 447
913-294-5050

Lawrence, Kansas 66044
1203 Iowa
913-841-8886

FILING NO. _____

COMPANY CARMEL ENERGY INC. [redacted]

WELL C.E.I. NO. 161

FIELD IDA FAUVERGUE

COUNTY VERNON CO., MISSOURI

LOCATION: 347.0 FSL 165.0 FWL

SEC 33 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM G.L. ELEV. 841.7

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

DRILLING MEASURED FROM G.L.

ELEV.: K.B. _____ D.F. _____ G.L. 841.7

| | | |
|---|---|---|
| DATE | 7-11-80 | 7-11-80 |
| RUN NO. | 1 NW | 1 NW |
| TYPE LOG | GAMMA RAY | NEUTRON |
| DEPTH—DRILLER | 190.0 | 190.0 |
| DEPTH—LOGGER | 188.5 | 188.5 |
| BOTTOM LOGGED INTERVAL | 183.0 | 187.5 |
| TOP LOGGED INTERVAL | 0.0 | 4.5 |
| TYPE FLUID IN HOLE | WTR/OIL | WTR/OIL |
| SALINITY, PPM CL. | | |
| DENSITY | | |
| LEVEL | 35.0 | 35.0 |
| MAX. REC. TEMP., DEG F. | | |
| OPERATING RIG TIME | | |
| RECORDED BY | E. PRAUT | E. PRAUT |
| WITNESSED BY | V. YOUNG | V. YOUNG |

**BORE-HOLE RECORD**

| RUN NO. | BIT | FROM | TO |
|---|---|---|---|
| | | | |

**CASING RECORD**

| SIZE | WGT. | FROM | TO |
|---|---|---|---|
| O/H | | 0 | T.D. |

OCT 06 1980

NO OIL & GAS COURSE

BOND USED

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 | NEUT/NEUT | |
| 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. | 71-1-335 | |
| HOIST TRUCK NO. | 0020 | | SPACING | 13" | |
| INSTRUMENT TRUCK NO. | 0020 | | TYPE | AMBE-241 | |
| TOOL SERIAL NO. | 0002 | | STRENGTH | 3 CI | |

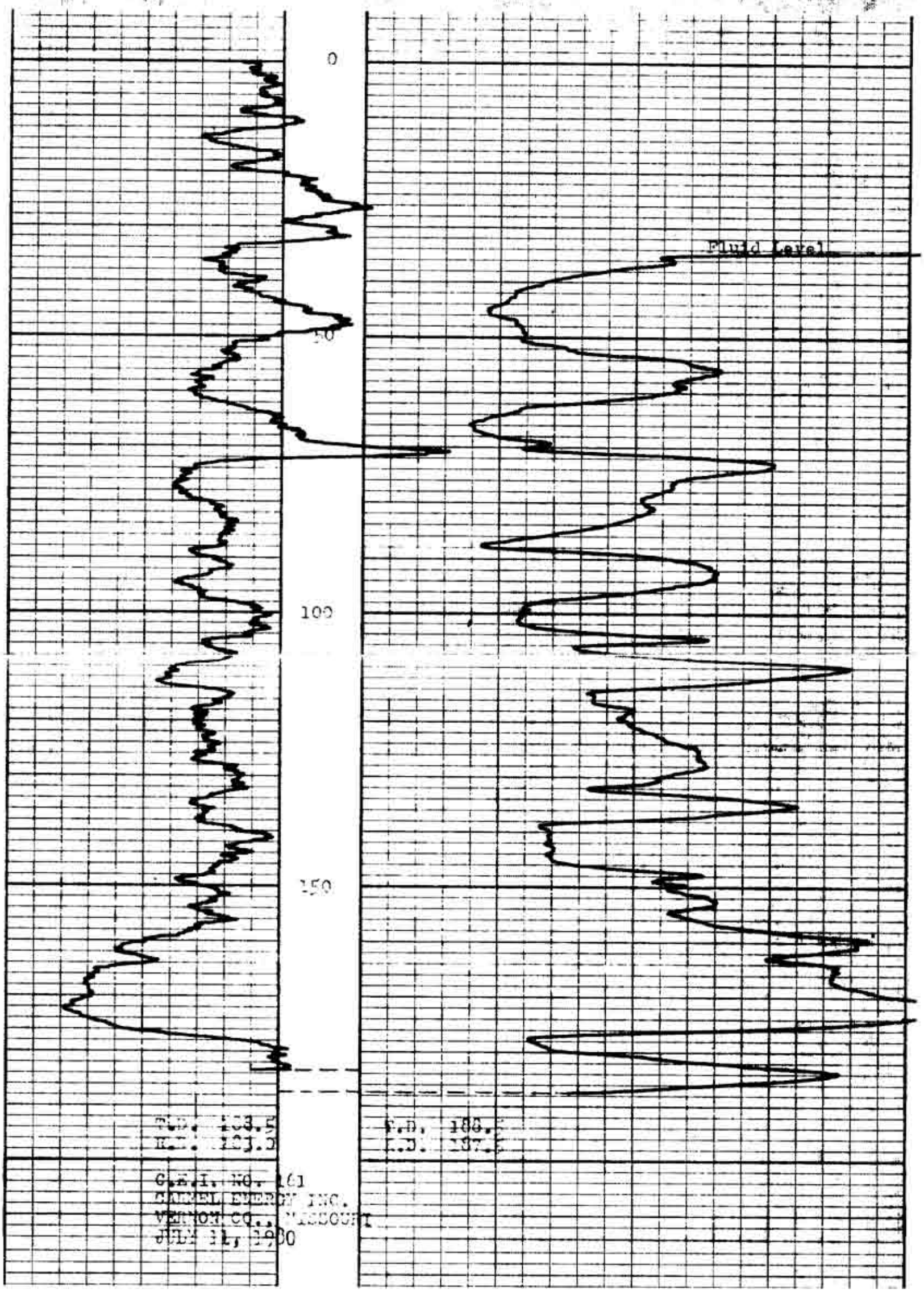
## LOGGING DATA

| 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 | 100/100 | C | 10 | 4.0 | 500/100 | 2 L | 20 |

REFERENCE LITERATURE: Open Hole - Not Cemented

REMARKS: DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

NSCO 16240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS