G00558

# ENERGY RESOURCES, INC.

Paola, Kansas 66071
P O Box 467
913-294-5050
Lawrence, Kansas 66044
1203 Iowa
[illegible]

DEC/0 1980

RELEASED

MO. OIL & GAS COUNCIL

FILING NO.

COMPANY CARMEL ENERGY INC.

WELL KE - 47

FIELD KENNEDY LEASE

COUNTY VERNON - MISSOURI

LOCATION: 836.0 FWL 2074.0 FSL

SEC 28 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: G.L. ELEV 817.8

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. 817.8

| | | |
|---|---|---|
| DATE | 12-2-80 | 12-2-80 |
| RUN NO | 1 NW | 1 NW |
| TYPE LOG | GAMMA RAY | NEUTRON |
| DEPTH—DRILLER | | |
| DEPTH LOGGER | 192.3 | 192.3 |
| BOTTOM LOGGED INTERVAL | 186.8 | 191.3 |
| TOP LOGGED INTERVAL | 0.0 | 4.5 |
| TYPE FLUID IN HOLE | WATER | WATER |
| SALINITY PPM CL | | |
| DENSITY | | |
| LEVEL | FULL | FULL |
| MAX REC TEMP DEG F | | |
| OPERATING RIG TIME | | |
| RECORDED BY | MORGAN | MORGAN |
| WITNESSED BY | | |

BORE-HOLE RECORD

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

CASING RECORD

| SIZE | WGT | FROM | TO |
|---|---|---|---|
| OPEN HOLE | | 0 | 192.3 |

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/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 N. 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 | AMBE-241 | |
| TOOL SERIAL NO | 0002 | | STRENGTH | 3 CI | |

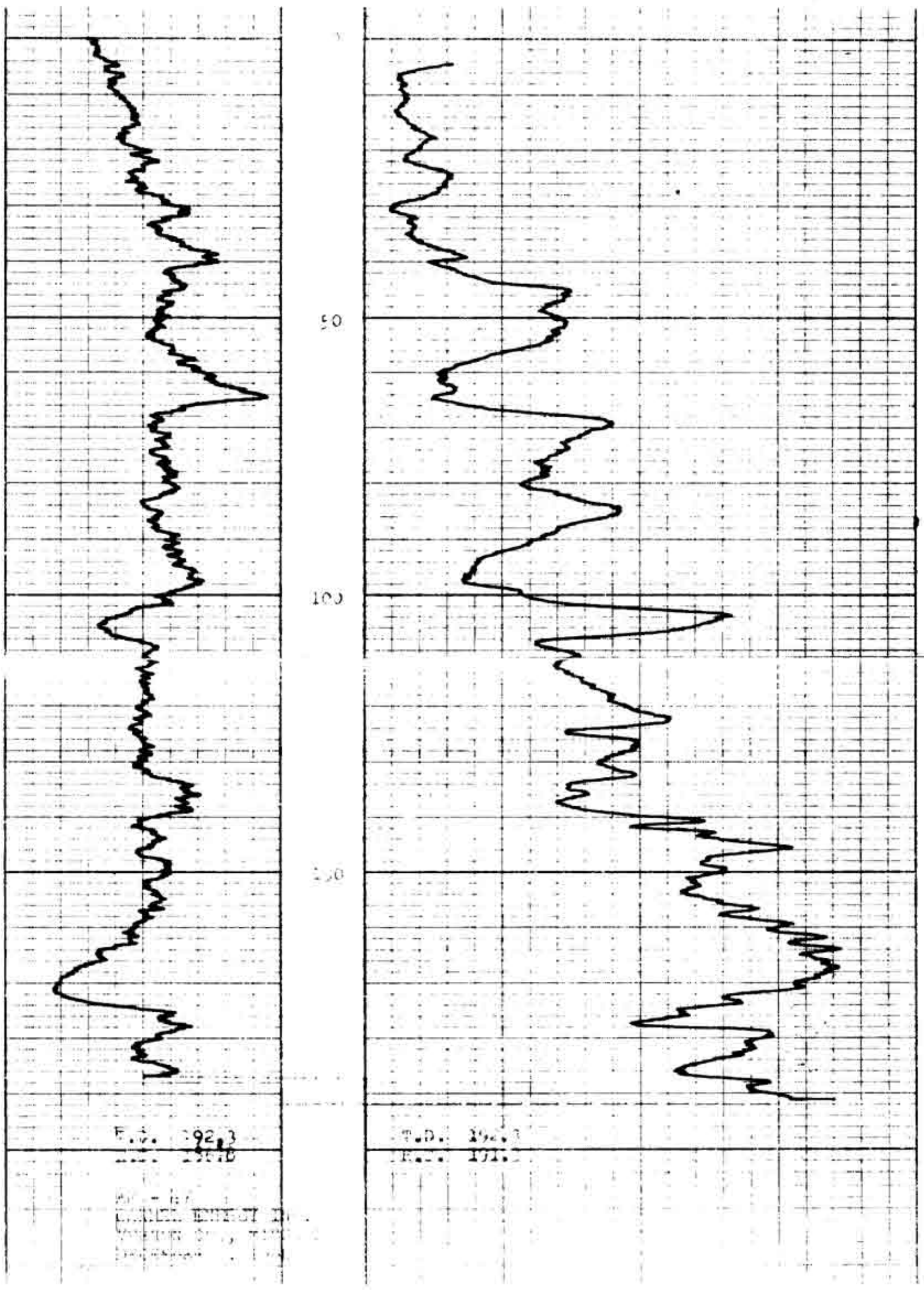
## LOGGING DATA

| 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 | C | T.D. | 20 | 4.0 | 100/075 | 0 R | 10 | 4.0 | 500/100 | 5 L | 20 |

REFERENCE LITERATURE OPEN HOLE - NOT CEMENTED

REMARKS DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

NSCO 16240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS