600346

# ENERGY RESOURCES, INC.

Paola, Kansas 66071
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1203 Iowa
913-841-8886

FILING NO.

COMPANY CARMEL ENERGY INC.
WELL IF NO. 20
FIELD IDA FAUVERGUE (B)
COUNTY VERNON - MISSOURI

LOCATION: 1280.0 FSL 165.0 FWL
SEC 34 TWP 36N RGE 33W

OTHER SERVICES:

PERMANENT DATUM G.L. ELEV. 763.0
LOG MEASURED FROM G.L. FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM G.L.

ELEV.: K.B.
D.F.
G.L. 763.5

| | | |
|---|---|---|
| DATE | 9-22-80 | 9-22-80 |
| RUN NO. | 1 NW | 1 NW |
| TYPE LOG | GAMMA RAY | NEUTRON |
| DEPTH-DRILLER | 213.0 | 213.0 |
| DEPTH-LOGGER | 209.5 | 209.5 |
| BOTTOM LOGGED INTERVAL | 209.0 | 209.5 |
| TOP LOGGED INTERVAL | 0.0 | 0.0 |
| TYPE FLUID IN HOLE | WATER | WATER |
| SALINITY, PPM CL | | |
| DENSITY | | |
| LEVEL | FULL | FULL |
| MAX. REC. TEMP. DEG F | | |
| OPERATING RIG TIME | | |
| RECORDED BY | PLATT | PLATT |
| WITNESSED BY | | |

BORE-HOLE RECORD

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

CASING RECORD

| SIZE | WGT. | FROM | TO |
|---|---|---|---|
| 5/8" | | 0 | [illegible] |

OCT 02 1980
MO. OIL & GAS COUNCIL

SOLD HERE — THIS IMAGING 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 | AMBK-241 | |
| TOOL SERIAL NO | 0002 | | STRENGTH | 3 CI | |

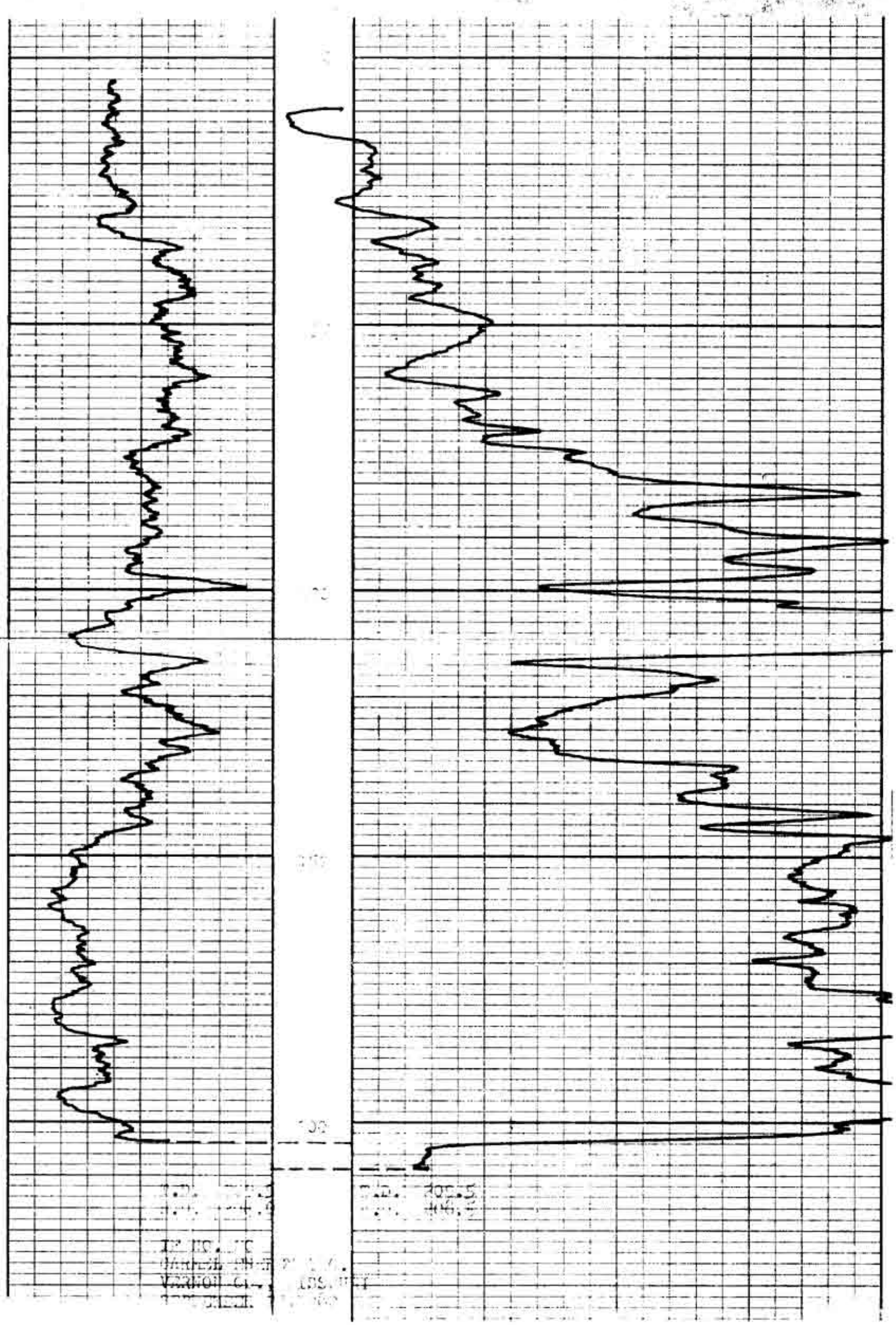
## LOGGING DATA

| 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 | 500/075 | 0 | 10 | 4.0 | 500/100 | 8 L | 20 |

REFERENCE LITERATURE: OPEN HOLE - NOT CEMENTED

REMARKS DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

NSLO 16240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS