600288

# ENERGY RESOURCES, INC.

Paola Kansas 66071
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1203 Iowa
913 841 8886

FILING NO.

COMPANY CARMEL ENERGY INC. [redacted]
WELL NO. KP-1
FIELD KENTON PETTIBON LEASE
COUNTY VERNON - MISSOURI

LOCATION: 1320.0 FSL 1318.0 FEL
SEC 27 TWP 35N RGE 33W

OTHER SERVICES

PERMANENT DATUM G.L. ELEV. 797.0
LOG MEASURED FROM G.L. FT ABOVE PERM. DATUM
DRILLING MEASURED FROM G.L.

ELEV. K.B. / D.F. / G.L. 797.0

| | | |
|---|---|---|
| DATE | 11-5-80 | 11-5-80 |
| RUN NO | 1 NW | 1 NW |
| TYPE LOG | GAMMA RAY | NEUTRON |
| DEPTH—DRILLER | 187.0 | 187.0 |
| DEPTH—LOGGER | 180.0 | 180.0 |
| BOTTOM LOGGED INTERVAL | 174.5 | 179.0 |
| TOP LOGGED INTERVAL | 0.0 | 4.5 |
| TYPE FLUID IN HOLE | WATER | WATER |
| SALINITY, PPM CL | | |
| DENSITY | | |
| LEVEL | 12.0 | 12.0 |
| MAX. REC. TEMP., DEG F | | |
| OPERATING RIG TIME | | |
| RECORDED BY | PRATT | PRATT |
| WITNESSED BY | | |

BORE-HOLE RECORD

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

CASING RECORD

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

NOV 12 1980
MO. OIL & GAS COUNCIL

## EQUIPMENT DATA

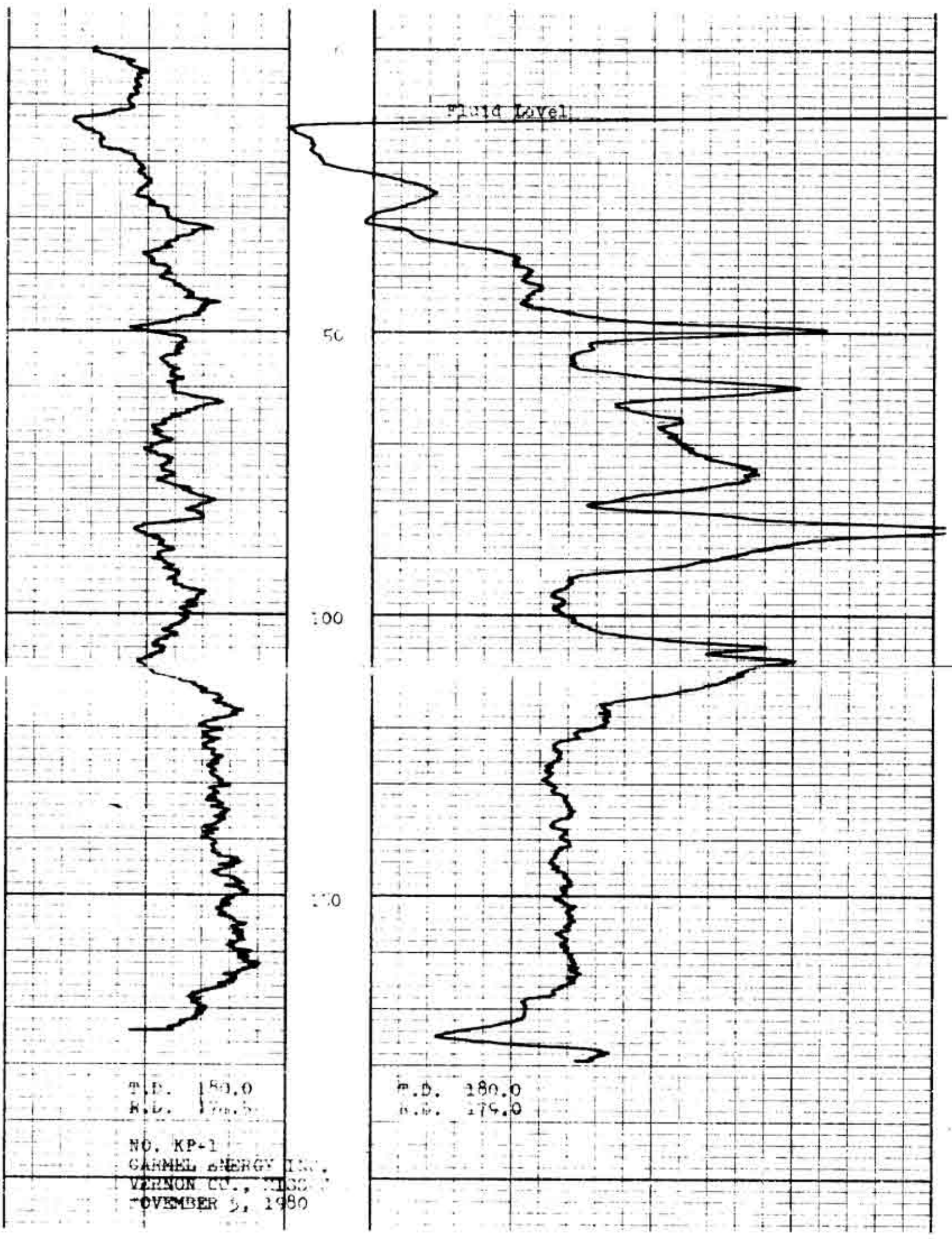
| GAMMA RAY | | NEUTRON | |
|---|---|---|---|
| RUN NO | 1 NW | RUN NO. | 1 NW |
| TOOL MODEL NO | 705 | LOG TYPE | NEU/NEU |
| DIAMETER | 1 11/16" | TOOL MODEL NO | 705 |
| DETECTOR MODEL NO | 705-GE | DIAMETER | 1 11/16" |
| TYPE | GEIGER | DETECTOR MODEL NO. | 705 HE-3 |
| LENGTH | 1 3/8" x 18" | TYPE | HE |
| DISTANCE TO 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 | 0 | T.D. | 20 | 4.0 | 100/075 | 0 | 10 | 4.0 | 500/100 | 8 L | 20 |

REFERENCE LITERATURE OPEN HOLE

REMARKS DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

GAMMA RAY DEPTH NEUTRON

CASING COLLARS