G00555

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P.O. Box 467
913-294-5080
Lawrence, Kansas 66044
1203 Iowa
[illegible]

RELEASED

FILING NO.

COMPANY CARMEL ENERGY INC.
WELL WH - 62
FIELD CHARLES WHITEFORD LEASE
COUNTY VERNON - MISSOURI

LOCATION: 2069.0 FNL
842.0 FWL
SEC 28 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: G.L. ELEV. 824.5
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. 824.5

| | | |
|---|---|---|
| DATE | 11-28-80 | 11-28-80 |
| RUN NO. | 1 NW | 1 NW |
| TYPE LOG | GAMMA RAY | NEUTRON |
| DEPTH—DRILLER | | |
| DEPTH—LOGGER | 184.9 | 184.9 |
| BOTTOM LOGGED INTERVAL | 179.4 | 183.9 |
| TOP LOGGED INTERVAL | 0.0 | 4.5 |
| TYPE FLUID IN HOLE | WATER | WATER |
| SALINITY, PPM CL. | | |
| DENSITY | | |
| LEVEL | 8.0 | 8.0 |
| 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 | | |

DEC 0 8 1980
MO. OIL & GAS COUNCIL

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RP 33

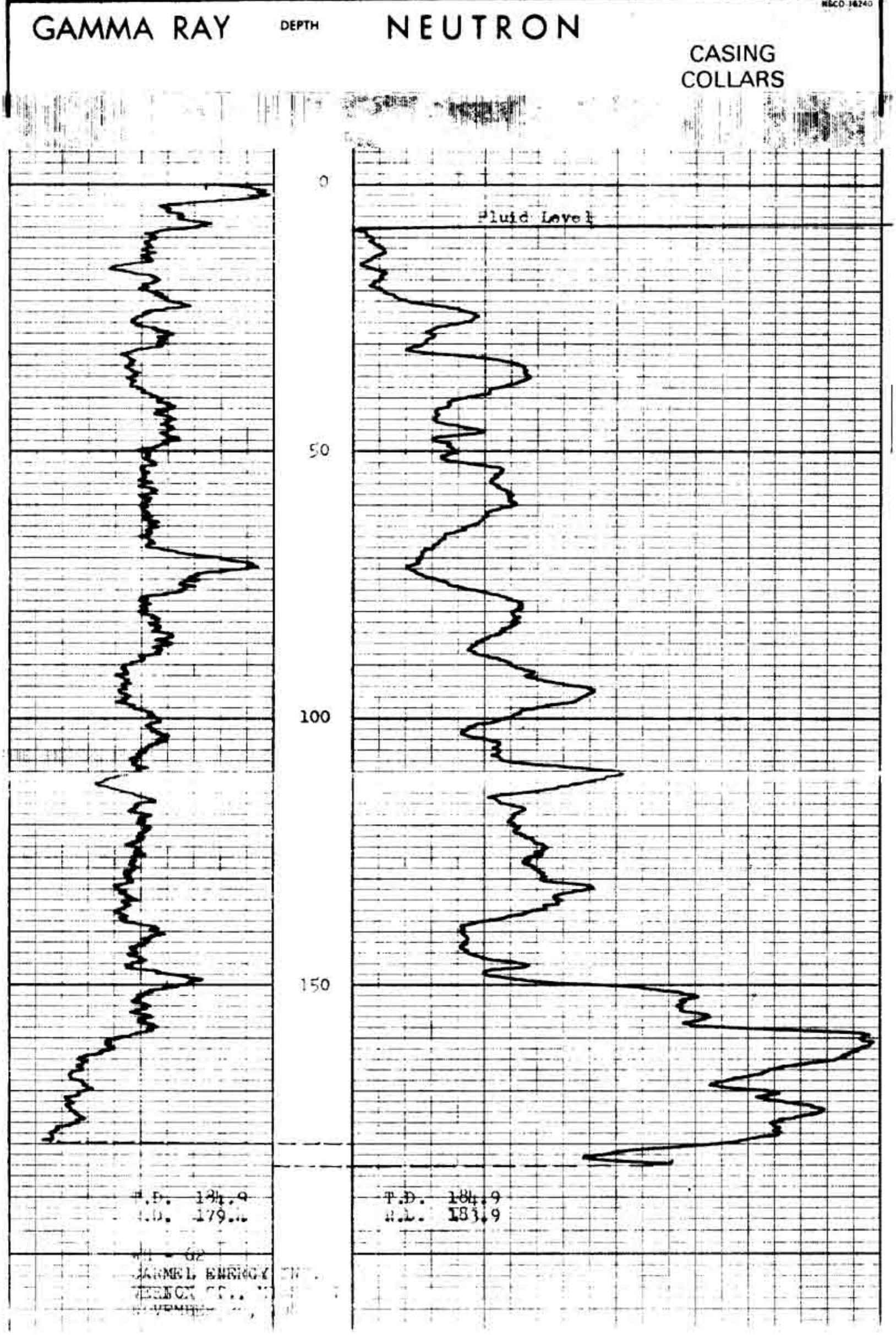
## EQUIPMENT DATA

| 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-[illegible] | |
| 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 | 5 [illegible] | 20 |

REFERENCE LITERATURE OPEN HOLE

REMARKS DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

NSCO 16240