602480 Page # 21436

**TOP WIRELINE SERVICES, INC.**

P.O. Box 330 - Chanute, Kansas 66720

RELEASED

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NOV 09 1984

MO. OIL & GAS COUNCIL

FILING NO.

COMPANY CARMEL ENERGY, INC.

WELL LINNEMAN NO. 87

FIELD

COUNTY VERNON COUNTY, MISSOURI

LOCATION: 1576.6' FSL & 2186.8' FWL

SEC. 33 TWP. 35N RGE. 33W (36)

PERMANENT DATUM G.L. ELEV. 763.5'

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

DRILLING MEASURED FROM G.L.

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

OTHER SERVICES:

| | |
|---|---|
| DATE | 11-6-84 |
| RUN NO. | 1 NW |
| TYPE LOG | TEMP SURVEY |
| DEPTH—DRILLER | |
| DEPTH—LOGGER | 157.0' |
| BOTTOM LOGGED INTERVAL | |
| TOP LOGGED INTERVAL | 4.0' |
| TYPE FLUID IN HOLE | WATER |
| DENSITY | |
| LEVEL | FULL |
| OPERATING RIG TIME | |
| RECORDED BY | BRUBAKER, T. |
| WITNESSED BY | |

BORE-HOLE RECORD

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

CASING RECORD

| SIZE | WGT. | FROM | TO |
|---|---|---|---|
| 4" | | 0 | T.D. |

FOLD HERE

| | | | |
|---|---|---|---|
| HOIST TRUCK NO | 81 | | |
| INSTRUMENT TRUCK NO | | | |
| TOOL SERIAL NO. | GO TOOL | | |
| | | | |

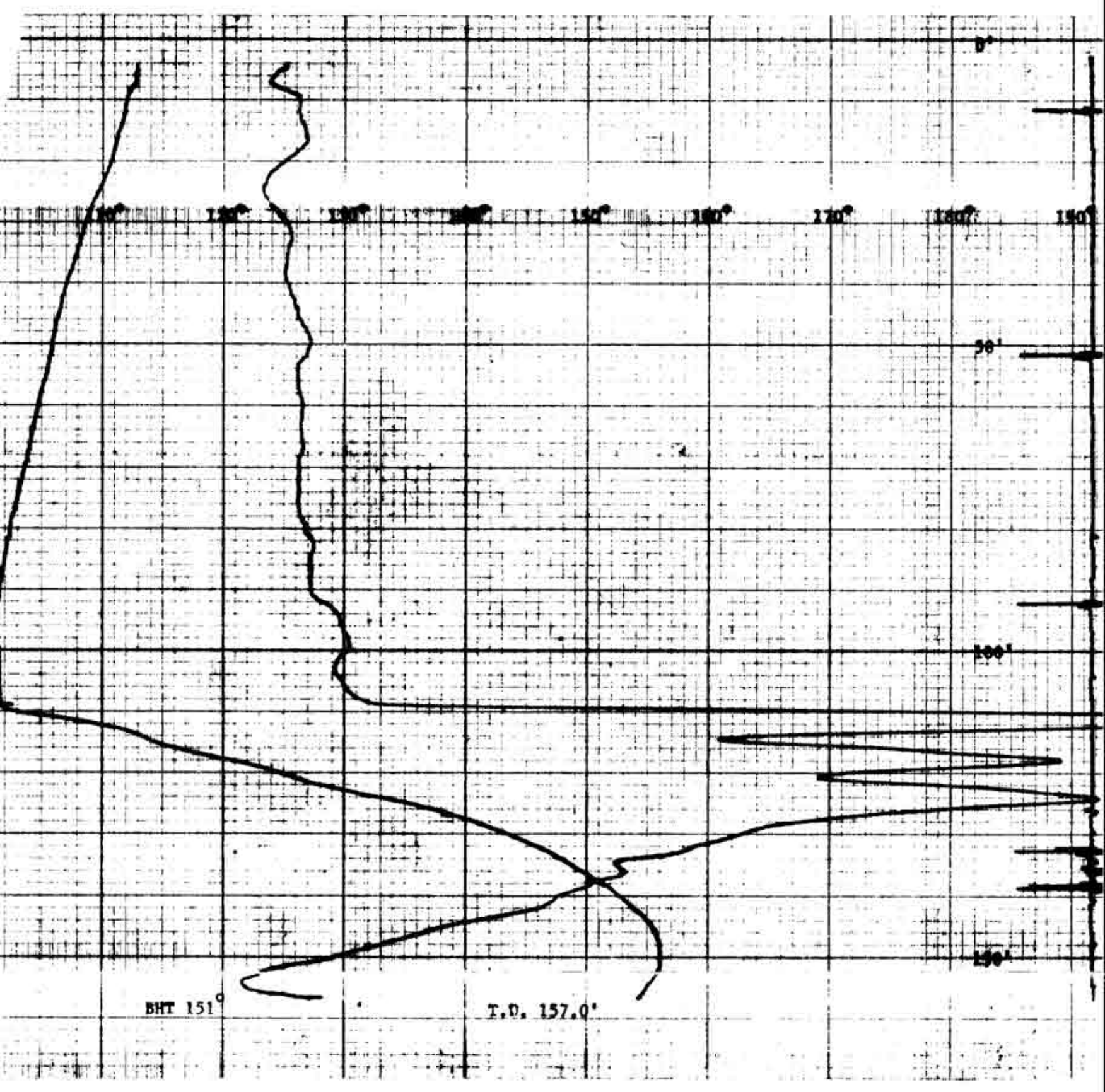
REFERENCE LITERATURE

REMARKS BOTTOM HOLE TEMPERATURE - 151°

DRILLING CONTRACTOR

GEOLOGIST:

GRADIENT TEMPERATURE — INCREASE → — DIFFERENTIAL TEMPERATURE — DEPTHS




LINNEMAN NO. 87

CARMEL ENERGY, INC.

VERNON COUNTY, MISSOURI

NOVEMBER 6, 1984

11-6-84 Temp Survey

33-35N-33W