Welex

# INDUCTION - ELECTRIC LOG

COMPANY CARMEL ENERGY, INCORPORATED
WELL HENRY #1
FIELD
County VERNON State MO

COMPANY CARMEL ENERGY, INCORPORATED
WELL HENRY #1
FIELD
COUNTY VERNON STATE MISSOURI
Location 1650' FSL & 990' FWL SW QUARTER
Other Services

Permanent Datum GROUND LEVEL Elev. 0
Log Measured From GROUND LEVEL 2.5 Ft. Above Perm. Datum
Drilling Measured From KELLY BUSHING
Date 4-27-78
Run Number ONE
Depth-Driller 2335'
Depth-Logger 2316'
Bottom Logged Interval 2312'
Top Log Interval 0
Casing - Driller @
Casing - Logger @
Type Fluid in Hole NATIVE MUD
Dens. / Visc. -
pH / Fluid Loss -
Source of Sample SIDEWALL CORES
$R_m$ @ Meas. Temp. 1.14 @ 60°F
$R_{mf}$ @ Meas. Temp. 1.14 @ 60°F
$R_{mc}$ @ Meas. Temp. 1.14 @ 60°F
Source: $R_{mf}$ / $R_{mc}$ MEASURED / CALC.
$R_m$ @ BHT @ °F
$R_{mf}$ @ BHT @ °F
$R_{mc}$ @ BHT @ °F
Max. Rec. Temp. 74 @ 2312'
Equip. No. Location 1702 LEBANON
Recorded By HERN
Witnessed By MR. WOOTEN

RECEIVED
JUL 12 1978
DIV. OF OIL & GAS COUNCIL

Fold Here

Service Ticket No. 19296 Remarks: * MUD SAMPLE TAKEN FROM FLUID IN WELL.

| Change in Mud Type or Additional Samples | | | | | SCALE CHANGES | | | |
|---|---|---|---|---|---|---|---|---|
| Date | Sample No. | | | | Type Log | Depth | Scale Up Hole | Scale Down Hole |
| Depth—Driller | | | | | IND. ELEC. | 210' | NO CHANGES | |
| Type Fluid in Hole | | | | | | | | |
| Dens. / Visc. | | | | | | | | |
| pH / Fluid Loss | | | | | | | | |
| Source of Sample | | | | | EQUIPMENT DATA | | | |
| $R_m$ @ Meas. Temp. | @ °F | @ °F | Run No. | Type Type and No. | Pad Type | Tool Position | Other | |
| $R_{mf}$ @ Meas. Temp. | @ °F | @ °F | ONE | 12A | | 35" S.O. | | |
| $R_{mc}$ @ Meas. Temp. | @ °F | @ °F | | | | | | |
| Source: $R_{mf}$ / $R_{mc}$ | / | / | | | | | | |
| $R_m$ @ BHT | @ °F | @ °F | | | | | | |
| $R_{mf}$ @ BHT | @ °F | @ °F | | | | | | |
| $R_{mc}$ @ BHT | @ °F | @ °F | | | | | | |

Welex does not guarantee the accuracy or any interpretation of log data, calculations or opinions, physical properties or recommendations which may be given by Welex personnel or contained in any Welex publication. In consideration of the foregoing, the customer agrees that Welex is not responsible except where due to gross negligence or wilful misconduct for any loss, damage, or expenses resulting from the use thereof.

5" = 100'

**POTENTIAL MILLIVOLTS**

− —5— +

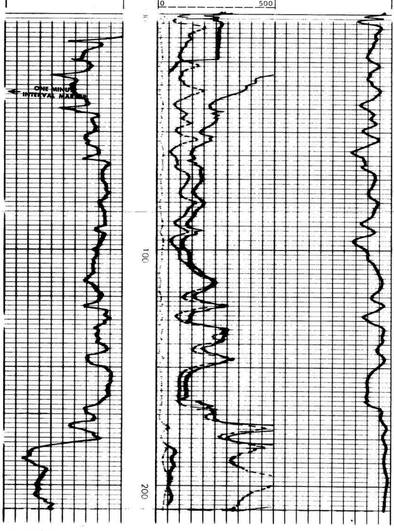
Rmf 11.0 at 60 °F.

**CONDUCTIVITY MILLIMHOS/M**

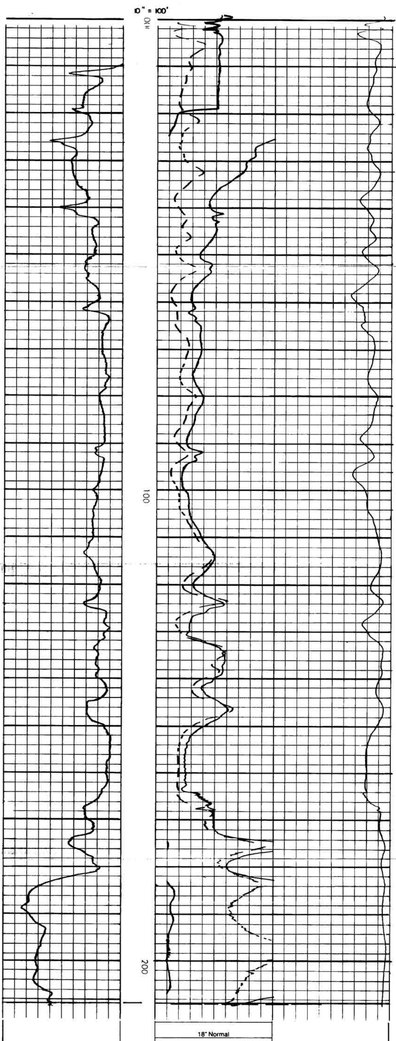
| | |
|---|---|
| 1000 | 0 |
| 2000 | 1000 |

**RESISTIVITY OHMS M²/M**

| | |
|---|---|
| 18" Normal | |
| 0 | 50 |
| 0 | 500 |
| Induction | |
| 0 | 50 |
| 0 | 500 |




0" = 100'




Rmf 11.0 at 60 °F.

− —5— +

**POTENTIAL MILLIVOLTS**

**RESISTIVITY OHMS M²/M**

| | |
|---|---|
| 18" Normal | |
| 0 | 50 |
| 0 | 500 |
| Induction | |
| 0 | 50 |
| 0 | 500 |

| | |
|---|---|
| 1000 | 0 |
| 2000 | 1000 |

**CONDUCTIVITY MILLIMHOS/M**

CARMEL ENERGY, INCORPORATED
HENRY #1
VERNON COUNTY, MISSOURI
3-35N-33W

T.D. LOGGED 210'
T.D. DRILLER 237'
T.D. WELEX 216'