Schlumberger

# BOREHOLE COMPENSATED SONIC LOG

| | |
|---|---|
| COUNTY | GALLIA |
| FIELD | WILDCAT |
| LOCATION | ------- |
| WELL | M. CARTER #1-9 |
| COMPANY | MITCHELL ENERGY CORPORATION |

COMPANY MITCHELL ENERGY CORPORATION

WELL M. CARTER #1-9

FIELD WILDCAT

COUNTY GALLIA STATE OHIO

LOCATION 400' NL X 1700' WL SEC. 14
WALNUT TWP.
PERMIT#: 478

| API SERIAL NO. | SEC. | TWP | RANGE |
|---|---|---|---|
| | | | |

Other Services:
FDC-CNL-GR
SDLL-MLL-GR
FIL

Permanent Datum: GROUND LEVEL ; Elev.: 658
Log Measured From K.B. 11 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 669
D.F. -
G.L. 658

| | | | | |
|---|---|---|---|---|
| Date | 12-5-79 | | | |
| Run No. | ONE | | | |
| Depth—Driller | 2720 | | | |
| Depth—Logger (Schl.) | 2720 | | | |
| Btm. Log Interval | 2717 | | | |
| Top Log Interval | 534 | | | |
| Casing—Driller | 8⅝ @ 531 | @ | @ | @ |
| Casing—Logger | 534 | | | |
| Bit Size | 7⅞ | | | |
| Type Fluid in Hole | SALT WATER | | | |
| Dens. \| Visc. | 9.3 \| 32 | \| | \| | \| |
| pH \| Fluid Loss | 5200 PPM \| 8 ml | ml | ml | ml |
| Source of Sample | MUD PIT | | | |
| Rm @ Meas. Temp. | .39 @ 36 °F | @ °F | @ °F | @ °F |
| Rmf @ Meas. Temp. | - @ °F | @ °F | @ °F | @ °F |
| Rmc @ Meas. Temp. | - @ °F | @ °F | @ °F | @ °F |
| Source: Rmf \| Rmc | - \| | \| | \| | \| |
| Rm @ BHT | - @ °F | @ °F | @ °F | @ °F |
| TIME Circulation Stopped | - | | | |
| TIME Logger on Bottom | - | | | |
| Max. Rec. Temp. | 89 °F | °F | °F | °F |
| Equip. \| Location | 7681 \| ST. ALBANS | \| | \| | \| |
| Recorded By | ASHTON | | | |
| Witnessed By Mr. | LYNN | | | |

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

| | | | | |
|---|---|---|---|---|
| Run No. | ONE | | | |
| Service Order No. | 70932 | | | |
| Fluid Level | FULL | | | |
| | | | | |

## SCALE CHANGES

| Type Log | Depth | Scale Up Hole | Scale Down Hole |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

## EQUIPMENT DATA

| | | | | |
|---|---|---|---|---|
| Sonic Panel No. | 14 | | | |
| Sonic Cart No. | - | | | |
| Sonic Sonde No. | - | | | |
| Mem. Panel No. | 583 | | | |
| G.R. Cart. No. | 2019 | | | |
| G.R. Panel No. | 42 | | | |
| Caliper No. | - | | | |
| TTR No. | 2837 | | | |
| Centralizers: No. | - | | | |
| Type | CME-Z | | | |
| Standoffs: No. | - | | | |
| Type | - | | | |
| Time Const.-Sec. | 1 | | | |
| Speed - F.P.M. | 60 | | | |
| | | | | |

## LOGGING DATA

| Porosity Selectors | | | | Depth | |
|---|---|---|---|---|---|
| Δtm | Δtf | Cp | Ø Scale | From | To |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

## REMARKS

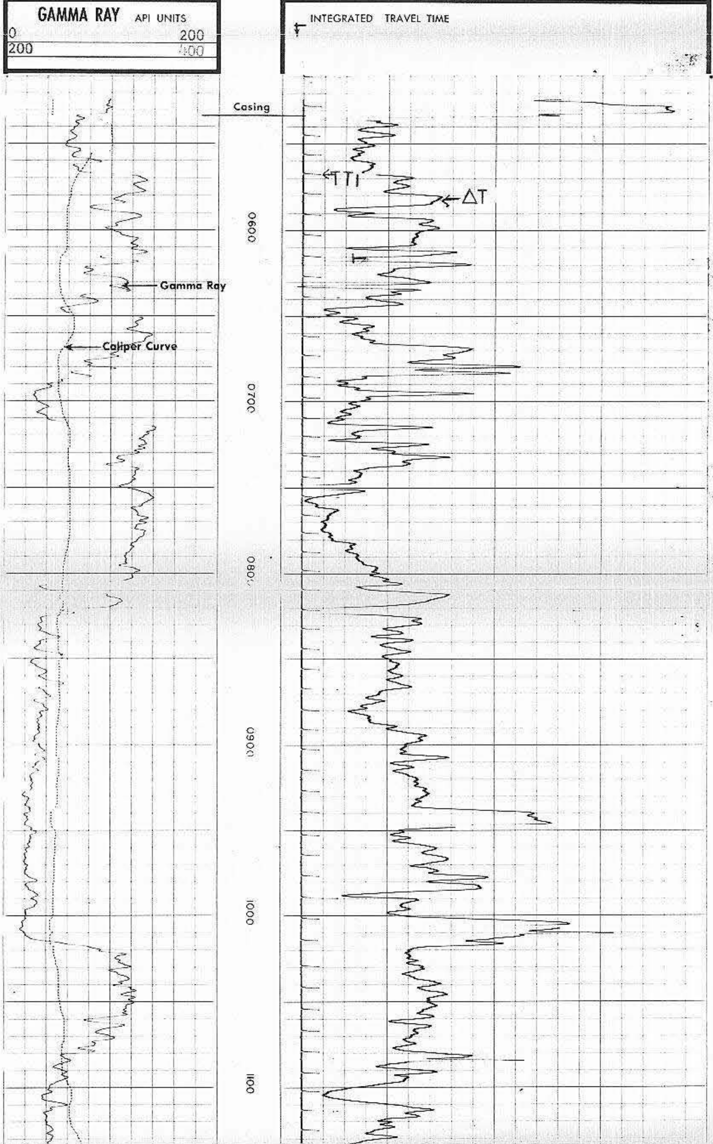
## CALIBRATION DATA

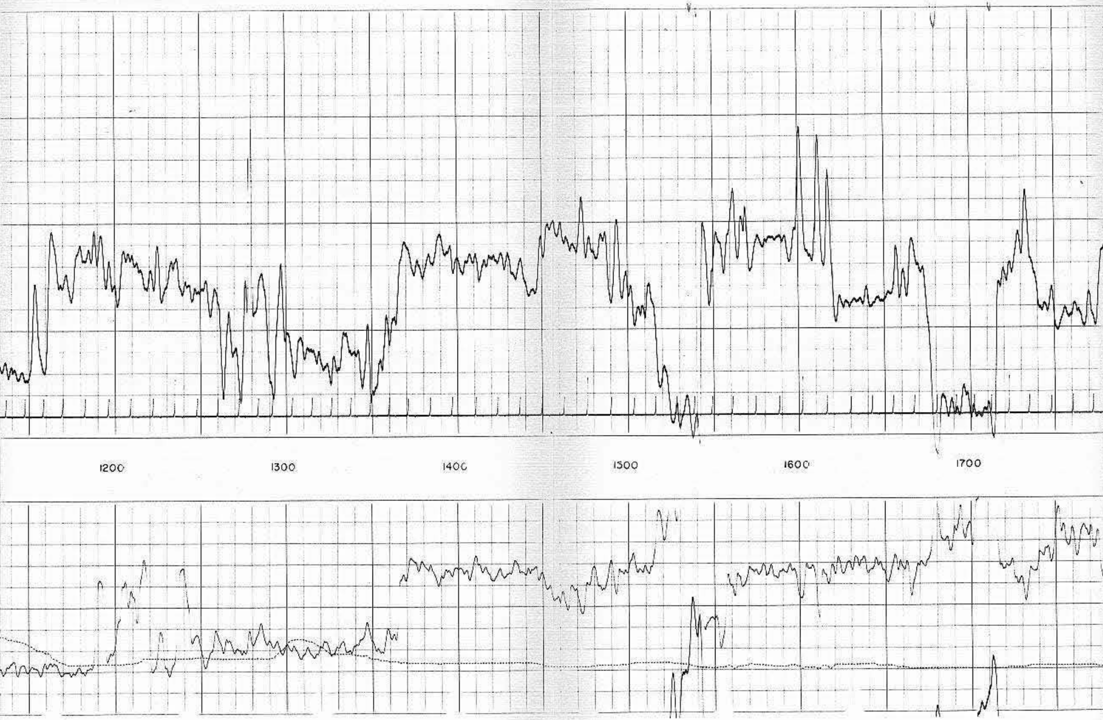
| | | | | | |
|---|---|---|---|---|---|
| GR | BKG. CPS | 120 | | | |
| | Source CPS | 540 | | | |
| | Tc Sec | CAL | | | |
| | | | | | |

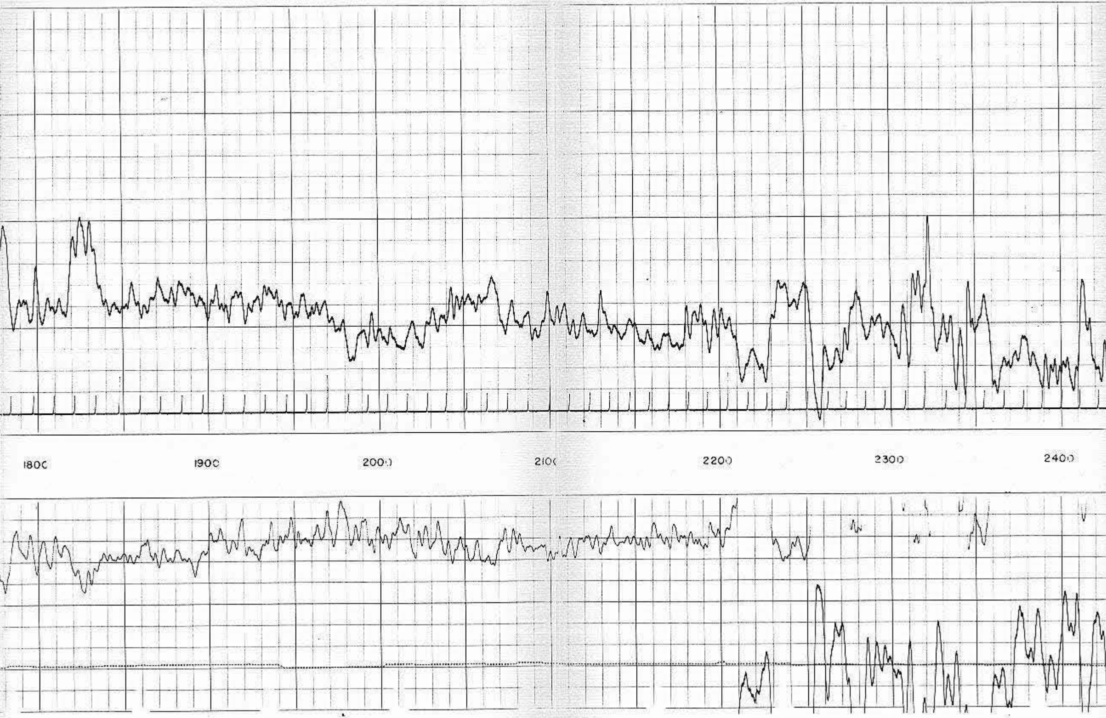
Velocity (ft/sec) = 1,000,000 / Interval Transit Time (microseconds per foot)

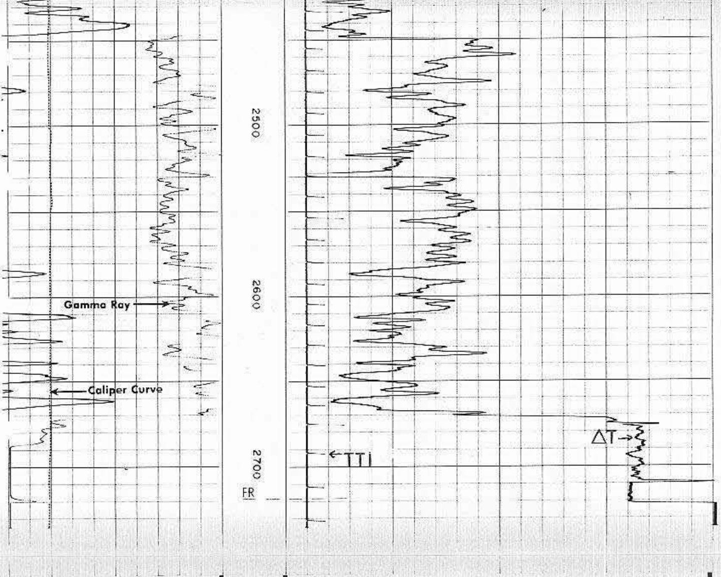
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

| CALIPER DIAM. IN INCHES | DEPTH | INTERVAL TRANSIT TIME MICROSECONDS PER FOOT T___ R₁___ R₂___ |
|---|---|---|
| 6 16 | | 100 70 40 |
| | | 160 130 100 |









**GAMMA RAY** API UNITS
0 200
200 400

**CALIPER** DIAM. IN INCHES
6 16

DEPTH

INTEGRATED TRAVEL TIME

**INTERVAL TRANSIT TIME** MICROSECONDS PER FOOT T___R₁___R₂
100 70 40
160 130 100

COMPANY MITCHELL ENERGY CORPORATION
WELL M. CARTER #1-9
FIELD WILDCAT
COUNTY GALLIA STATE OHIO

SCHL. FR 2717
SCHL. TD 2720
DRLR. TD 2720
Elev: KB 669
DF -
GL 658

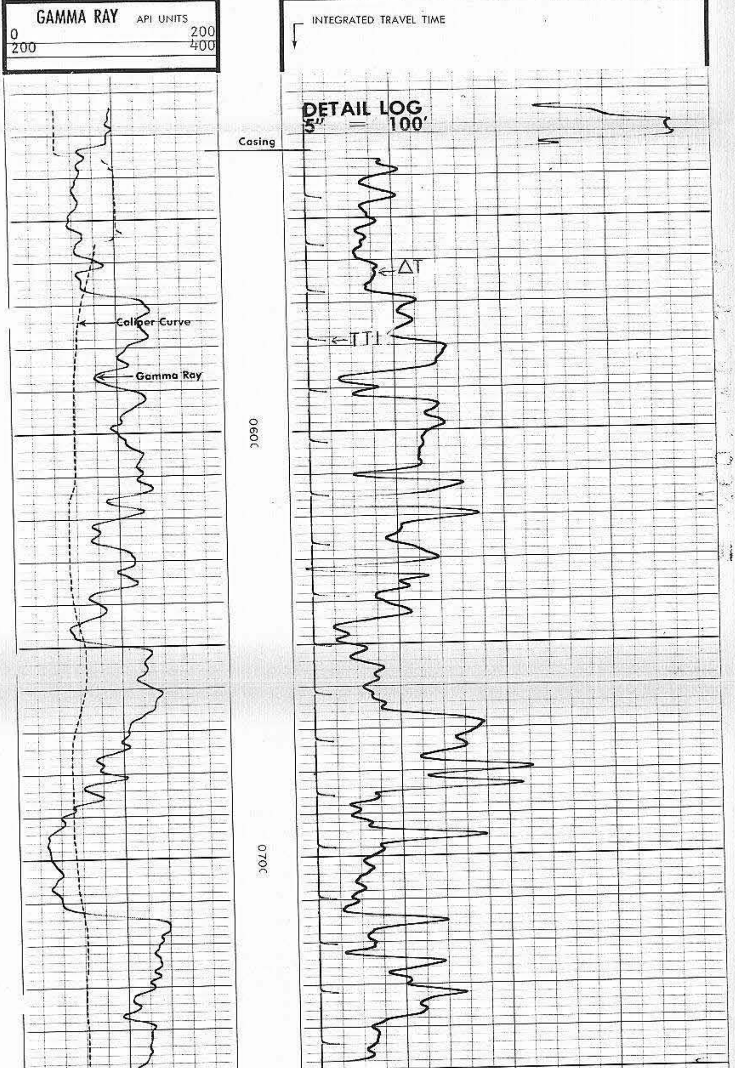
## DETAIL LOG

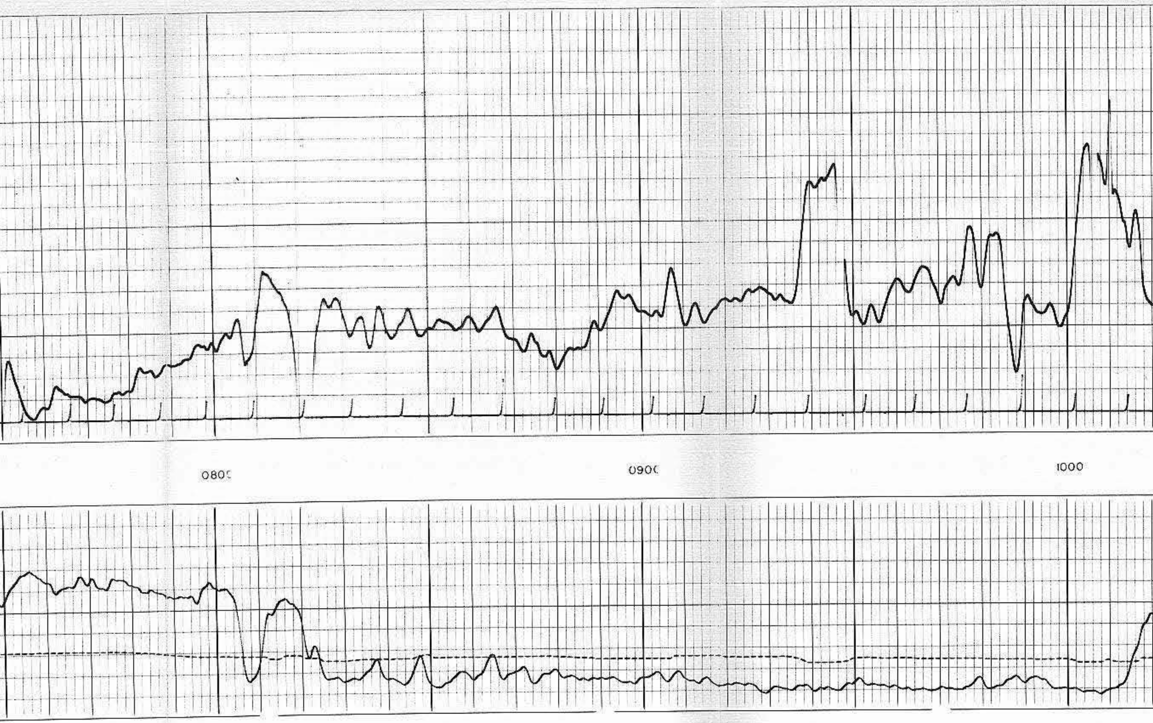
5" = 100'

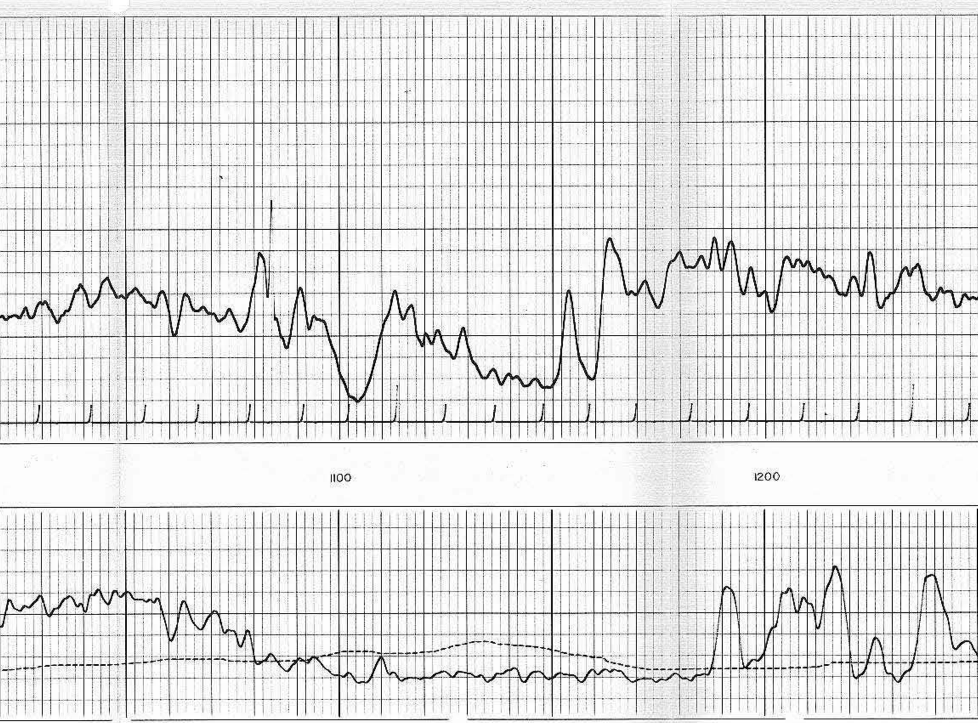
**CALIPER** DIAM. IN INCHES
6 16

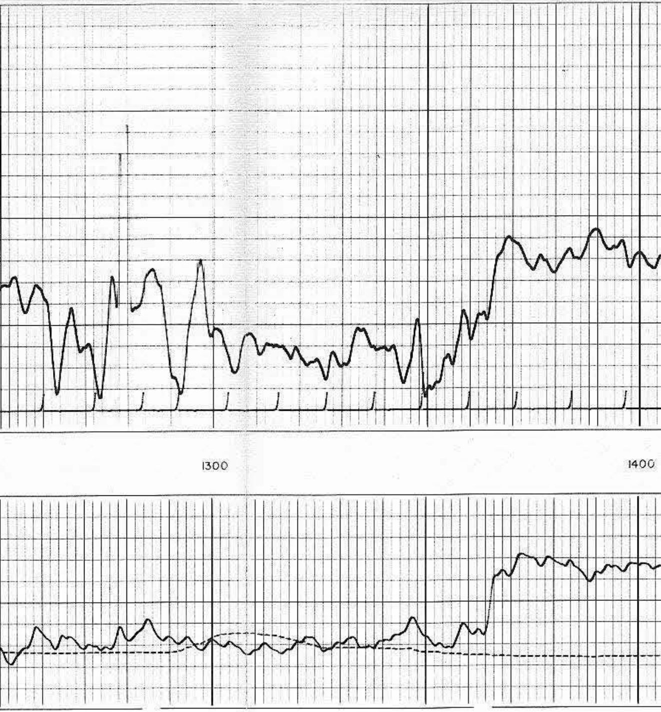
DEPTH

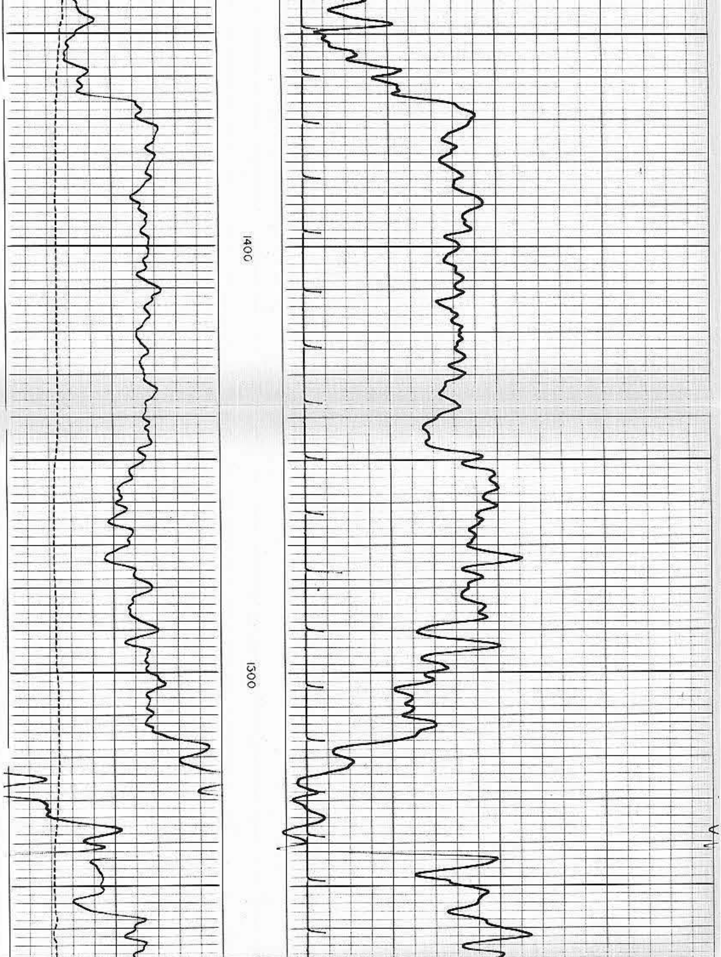
**INTERVAL TRANSIT TIME** MICROSECONDS PER FOOT T___R₁___R₂
100 70 40
160 130 100

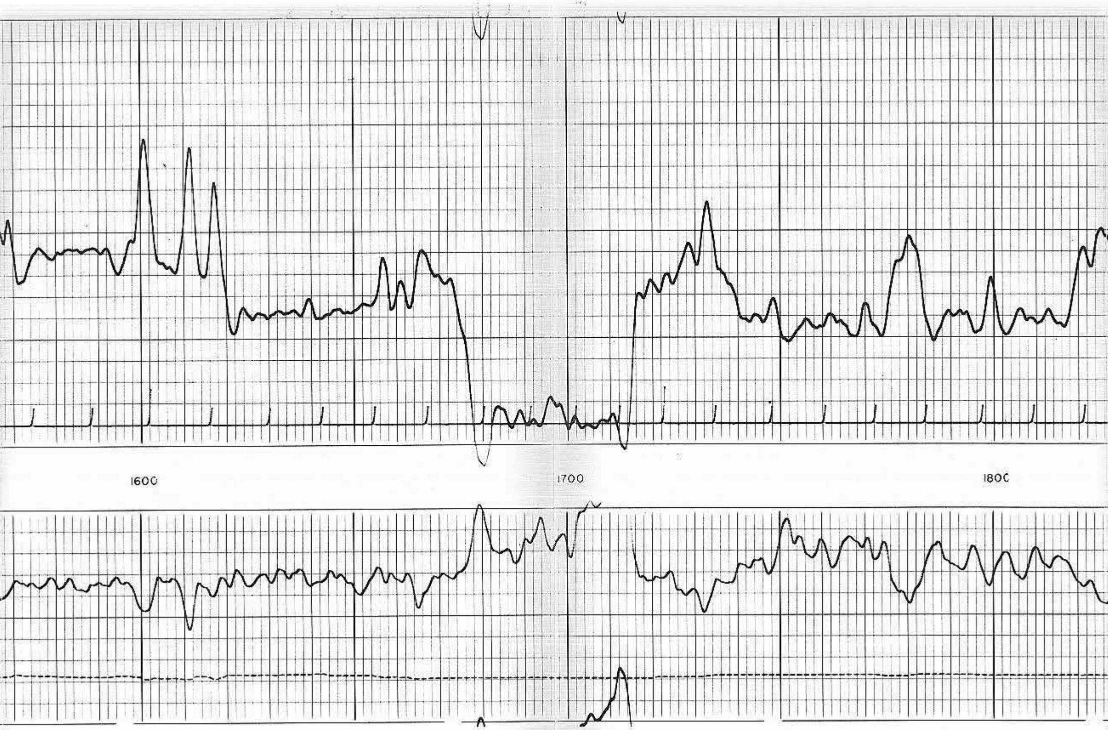


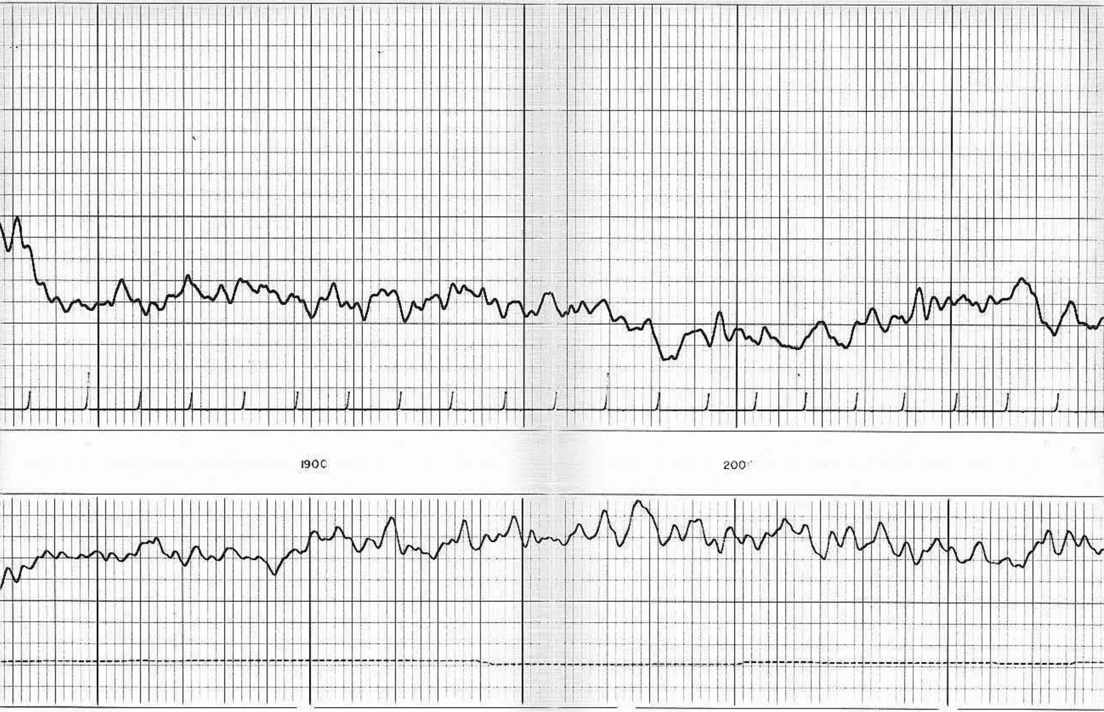


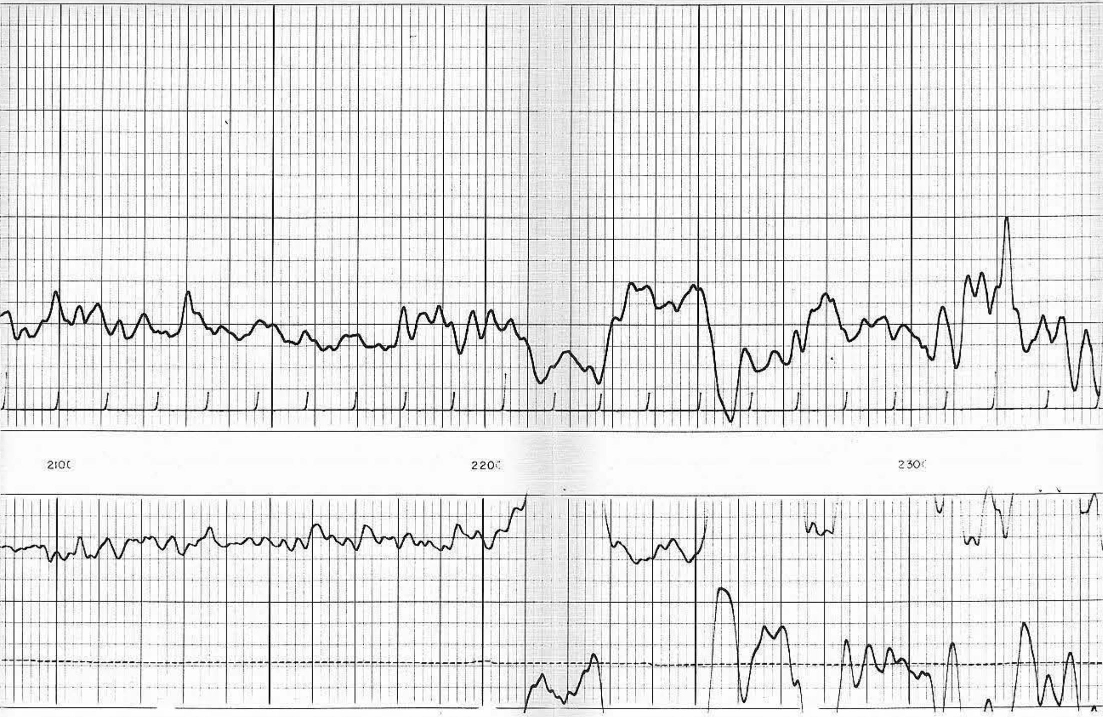


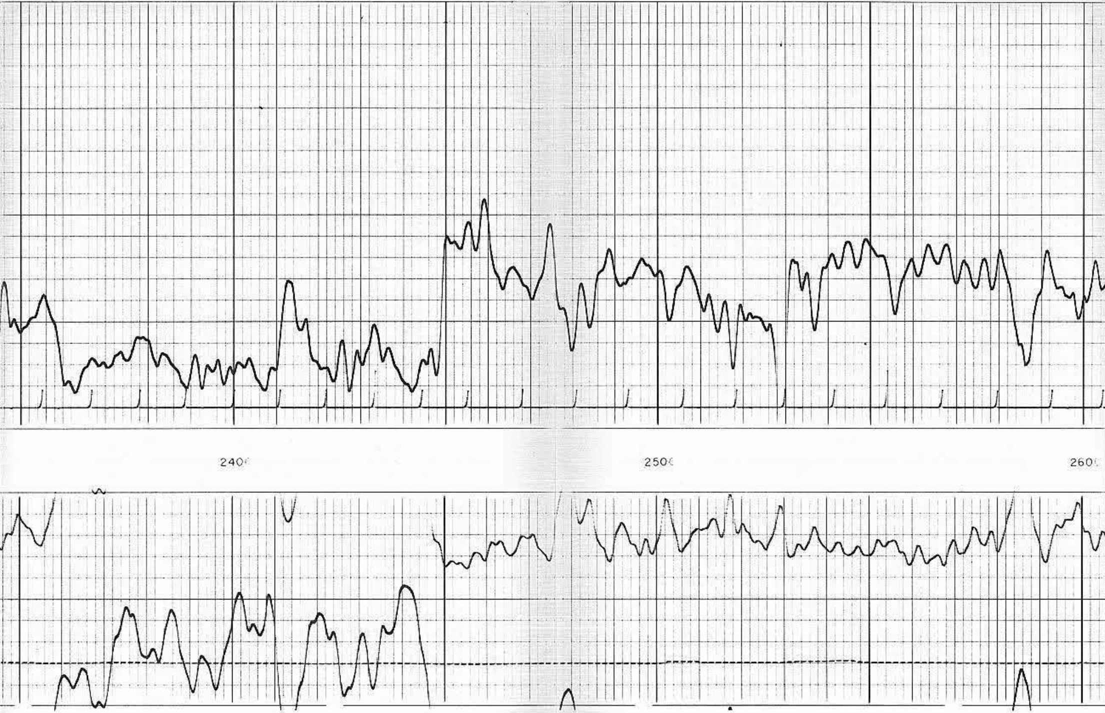


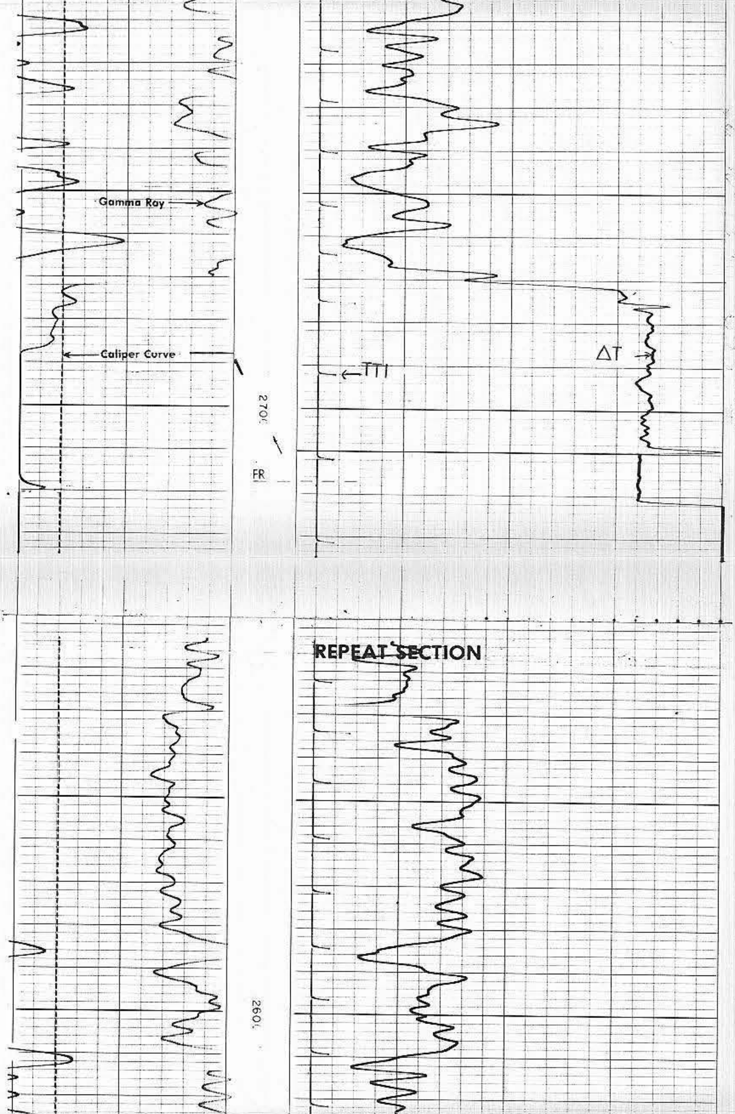


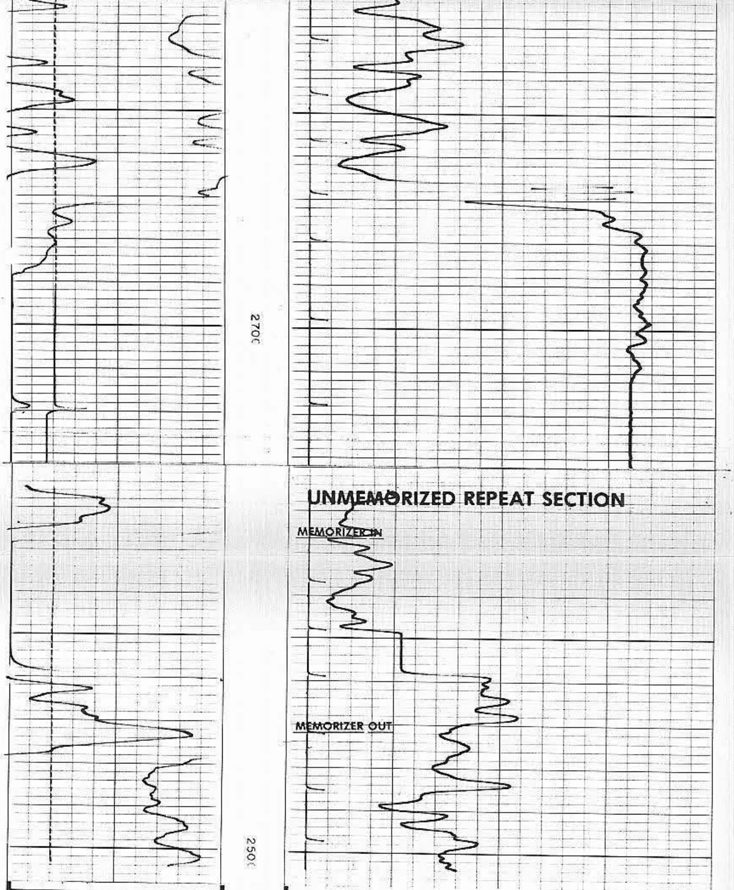












**GAMMA RAY** API UNITS
0 200
200 400

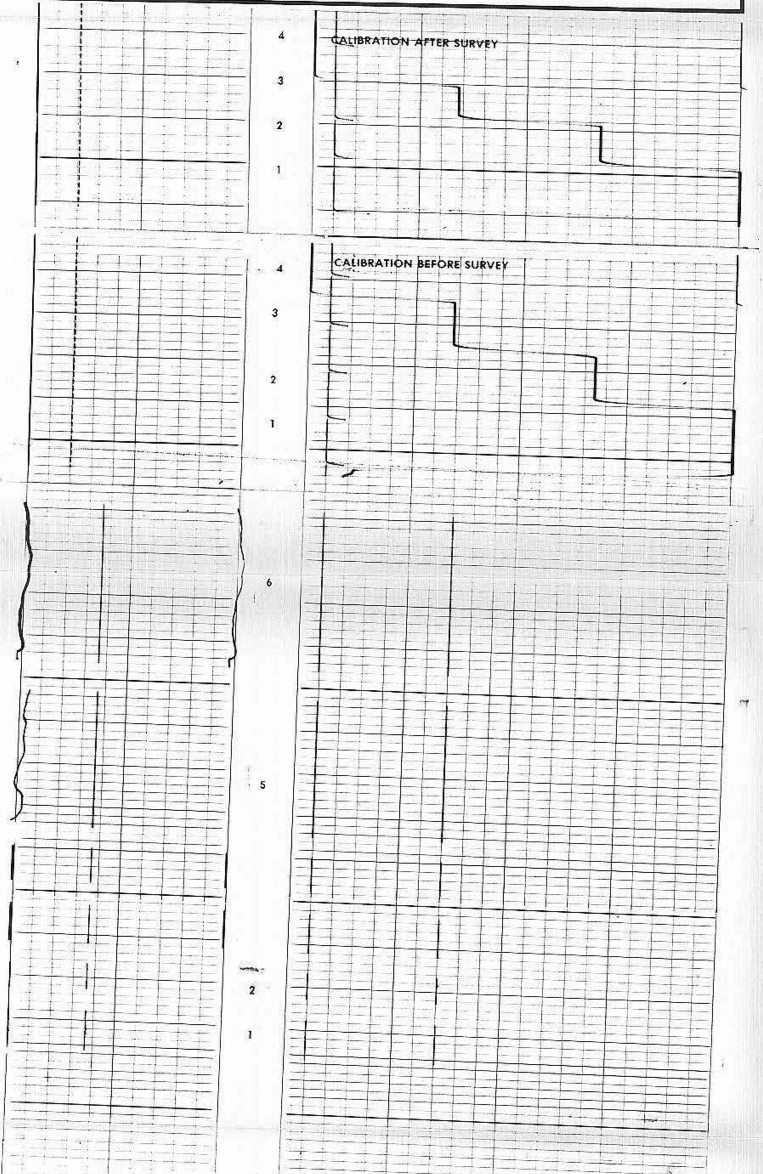
**CALIPER** DIAM. IN INCHES
6 16

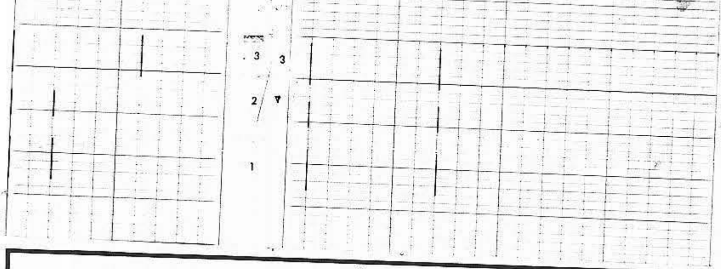
DEPTH

INTEGRATED TRAVEL TIME

**INTERVAL TRANSIT TIME** MICROSECONDS PER FOOT T__R1__R2
100 70 40
160 130 100

## CALIBRATION RECORD





# CALIBRATION RECORD

COMPANY MITCHELL ENERGY CORPORATION

WELL M. CARTER #1-9

FIELD WILDCAT

COUNTY GALLIA STATE OHIO

SCHL. FR 2717
SCHL. TD 2720
DRLR TD 2720

Elev: KB 669
DF -
GL 658