G00230

Permit # 20189

**ENERGY RESOURCES, INC.**

Pittsburg, Kansas 66762
P. O. Box 447
913 231-1000

Lawrenceville, Illinois 62439
1203 West
618 943-5000

**RELEASED**

FILING NO.

COMPANY: RHODES INVESTIGATIVE COMPANY

WELL: NO. 77C

FIELD: CLARK BRUDIN FARM

COUNTY: JACKSON CO., MISSOURI

LOCATION: 975.0 NSL 1185.0 WEL

SEC. 30 TWP. 47N RGE. 33W

OTHER SERVICES: CCL

PERMANENT DATUM: Ground ELEV. ___ K.B. ___
LOG MEASURED FROM: Ground FT. ABOVE PERM. DATUM D.F. ___
DRILLING MEASURED FROM: Ground G.L. ___

| | | | |
|---|---|---|---|
| DATE | 9-20-80 | 9-20-80 | |
| RUN NO. | 1 OR | #4 | |
| TYPE LOG | GAMMA RAY | NEUTRON | |
| DEPTH—DRILLER | | | |
| DEPTH—LOGGER | 626.1 | 626.1 | |
| BOTTOM LOGGED INTERVAL | 626.1 | 626.1 | |
| TOP LOGGED INTERVAL | 100.0 | 100.0 | |
| TYPE FLUID IN HOLE | WATER | WATER | |
| SALINITY, PPM Cl | | | |
| DENSITY | | | |
| LEVEL | FULL | FULL | |
| MAX. REC. TEMP. DEG. F | | | |
| OPERATING RIG TIME | | | |
| RECORDED BY | FRANK | FRANK | |
| WITNESSED BY | | | |

**CONFIDENTIAL**
to 1-19-82 JRS

| RUN NO. | BORE-HOLE RECORD BIT | FROM | TO | CASING RECORD SIZE | WGT. | FROM | TO |
|---|---|---|---|---|---|---|---|
| | | | | 4 1/2" | | 0 | 620.2 |

**RECEIVED**
JAN 19 1981
MO. OIL & GAS COUNCIL

THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

GAMMA RAY

| RUN NO. | 1 OR | 4 |
|---|---|---|
| TOOL MODEL NO. | 706 | 706 |
| DETECTOR | 3"x5" NaI | 3"x5" NaI |
| DETECTOR MODEL NO. | 706-GR | 706-GR |
| TYPE | Gamma Ray | Neutron |
| LOCATION | 1 Foot | 1 Foot |
| Distance to Source | | |
| GENERAL | | |
| UNIT MEAS. NO. | 0080 | 0080 |
| INSTRUMENT TRUCK NO. | 0080 | 0080 |
| TOOL SERIAL NO. | ODDC | ODDC |

LOGGING DATA

GAMMA RAY

| RUN NO. | 1 OR | 4 |
|---|---|---|
| GENERAL | | |
| SPEED FT/MIN | 20 | 20 |
| TC SEC | 3.0 | 3.0 |
| SPAN SETTINGS | 0-200,000 | 0-200,000 |
| SENSITIVITY CPS/API | 3.8 | 2.0 |
| API GR UNITS PER LOG DIV. | 10 | 20 |
| TC SEC | 3.0 | 3.0 |
| SPAN SETTINGS | 0-200,000 | 0-200,000 |
| NEUTRON | | |
| SENSITIVITY RDG/DIV | 2.4 | 2.4 |
| API N UNITS PER LOG DIV. | 20 | 20 |

REMARKS: CASING COLLAR - 1 1/4" - 1 FOOT

RECORDED BY: OPERATING CONTRACTOR: RHODES INVESTIGATIVE COMPANY