G00021 Permit # 20105

**ENERGY RESOURCES, INC.**

Paola, Kansas 66071
P. O. Box 467
913 294 5350

Lawrence, Kansas 66044
1200 Iowa
913 841 3846

FILING NO.

COMPANY: ~~ENERGY ENERGY, INC.~~ Tawn Oil Co.

WELL: ~~NO. 56 C~~

FIELD: BEARY LEASE

COUNTY: CASS COUNTY, MISSOURI

RECEIVED JUN 05 1981 MO. OIL & GAS COUNCIL

LOCATION: 549.34' FNL 1432.25' FEL

SEC 4 TWP 46N RGE 33W

OTHER SERVICES: CCL

PERMANENT DATUM: G.L. ELEV. 1069.3
LOG MEASURED FROM: G.L. FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM: G.L.

ELEV. K.B. NA
D.F. NA
G.L. 1069.3

| | | |
|---|---|---|
| DATE | 1-17-81 | 1-17-81 |
| RUN NO. | 1 NW | 1 NW |
| TYPE LOG | GAMMA RAY | NEUTRON |
| DEPTH—DRILLER | 638.0 | 638.0 |
| DEPTH—LOGGER | 625.1 | 625.1 |
| BOTTOM LOGGED INTERVAL | 619.6 | 624.1 |
| TOP LOGGED INTERVAL | 150.0 | 154.5 |
| TYPE FLUID IN HOLE | WATER | WATER |
| SALINITY, PPM CL | | |
| DENSITY | | |
| LEVEL | FULL | FULL |
| MAX. REC. TEMP., DEG. F | | |
| OPERATING RIG TIME | | |
| RECORDED BY | MORGAN | MORGAN |
| WITNESSED BY | HURST | HURST |

| RUN NO. | BORE-HOLE RECORD BIT | FROM | TO | CASING RECORD SIZE | WGT. | FROM | TO |
|---|---|---|---|---|---|---|---|
| | 9" | 0.0 | 20.0 | 4" | | 0.0 | 624.4 |
| | 6¼" | 20.0 | 638.0 | | | | |

EQUIPMENT DATA

| | GAMMA RAY | NEUTRON |
|---|---|---|
| RUN NO. | 1 NW | 1 NW |
| LOG TYPE NO. | 1-1 | MEN/MEN |
| DIAMETER | 1 11/16" | 1 11/16" |
| DETECTOR MODEL NO. | 705-GR | TDS HR-3 |
| TYPE | 3 GM | 3 He |
| LENGTH | 13 1/2" x 1⅝" | 18" x 6" |
| DISTANCE TO SOURCE | 4.5 | 21-1 |
| SOURCE MODEL NO. | GAMMA | 13-335 G |
| SOURCE SERIAL NO. | 0020 | AMER-811 |
| DRILLING TYPE | 0020 | 3 CY |
| STRENGTH | 0002 | |
| HOIST TRUCK NO. | | |
| INTERMIXER TRUCK NO. | | |
| LOGS SERIAL NO. | | |

LOGGING DATA

| RUN NO. | GENERAL FROM | TO | FT. MIN. | GAMMA RAY SPEED FT. MIN. | SENS. SETTINGS | AIR H.O. UNITS PER LOG INCH | NEUTRON SENS. SETTINGS | AIR H. UNITS PER LOG INCH |
|---|---|---|---|---|---|---|---|---|
| 1 | 0 | T.D. | 20 | 4.0 | 100/075 | 2 R. | 10 | 20 |
| | | | | | | | 4.0 | 500/100 |
| | | | | | | | | 4 L |

REFERENCE (DRILLER) 4" - CEMENTED

REMARKS: DRILLING CONTRACTOR: H & H DRILLING INC.

COUNTY