ENERGY RESOURCES, INC.

Box 566 Casper, Wyoming 82601
Lawrence Road Industrial Park
307-234-5000
Lawrence Road Industrial Park
Lawrence, Kansas 66044
913-841-8000

Company: BROOKEN INVESTMENT
Well: MERRITTDALE 33-NW
Field: MERRITTDALE
County: JACKSON Missouri
State: MO. OIL & GAS COUNCIL

RECEIVED
JUN 10 1982
MO. OIL & GAS COUNCIL

Permanent datum: GL
Log measured from: KB 10 Ft. above perm. datum
Drilling measured from: KB

Sec. 33 Twp. 47 Rge. 33

Elev.: K.B. N/A D.F. N/A G.L. N/A

Date: 1-13-82
Run No.: ONE
Depth-driller: 617.7
Depth-logger: 616.7
Bottom log interval: 616.7
Top log interval: SURFACE
Casing-driller: 8 5/8 @ 20.0
Casing-logger: 8 5/8 @ 20.0
Bit size: 7 7/8
Type fluid in hole: WATER
Dens.: 8.4
Visc.: 28
pH: 7.0
Fluid loss: N/A
Source of sample: FULL
Rm @ meas. temp.: N/A @ N/A
Rmf @ meas. temp.: N/A @ N/A
Rmc @ meas. temp.: N/A @ N/A
Source: Rmf: N/A Rmc: N/A
Rm @ BHT: N/A @ N/A
Time since circ.: 1 HR.
Time since stop.: 1 HR.
Max. rec. temp.: 70 °F
Equip. loc.: 1 MILE SOUTH
Recorded by: FIELD
Witnessed by: WARDEN

RELEASED

Run No. 1 | Bit No. 1 | From SURFACE | To T.D. | Size 8 5/8 | Wgt. 20 | Type NEW | Depth 20

Run No. 2 | Bit No. 1 | From 0 | To T.D. | Size 5 1/2 | Wgt. 14 | Type NEW | Depth 616.7

## EQUIPMENT DATA

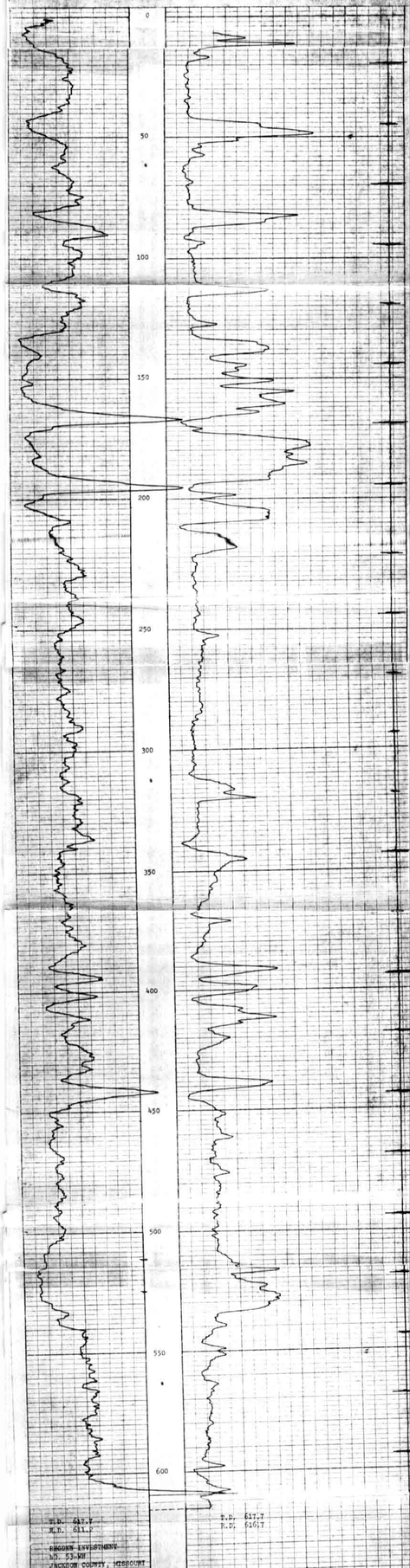
| GAMMA RAY | |
|---|---|
| Run No. | 1 NW |
| Tool model no. | 705 |
| Diameter | 1 11/16" |
| Detector model no. | 705-GR |
| Type | GEIGER |
| Length | 1 3/8x18' |
| Distance to N. source | 5.5 |

| NEUTRON | |
|---|---|
| Run No. | 1 NW |
| Log type | NEU/NEU |
| Tool model no. | 705 |
| Diameter | 1 11/16" |
| Detector model no. | 705 NE-3 |
| Type | HE |
| Length | 3'6" |
| Source model no. | 71-1 |
| Serial no. | 71-1-3668 |
| Spacing | 18" |
| Type | AMBE-241 |
| Strength | 3 CI |

| GENERAL | |
|---|---|
| Nomo truck no. | 0036 |
| Assistant truck no. | 0036 |
| Tool serial no. | 0002 |

## LOGGING DATA

| General Runs | Depths From | Depths To | Speed Ft/min | T.C. Sec | Sens. Settings | Gamma Ray Zero Div. L or R | Gamma Ray API G.R. Units per Log Div. | Neutron T.C. Sec. | Neutron Sens. Settings | Neutron Zero Div. L or R | Neutron API N. Units per Log Div. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 0 | T.D. | 20 | 4 | 100/95 | 0-R | 10 | 4 | 500/100 | 3-L | 20 |

Reference literature:

Remarks: