MIDWEST SURVEYS
NOV 08 1999

| | |
|---|---|
| PLUG NO. | |
| COMPANY | D.E. Exploration Inc. |
| WELL | CBI - 1 |
| FIELD | Clark - Berry |
| COUNTY | Cass |
| STATE | Missouri |
| API# | NA |
| LOCATION | SEC. 16 TWP 46N RGE 33W |
| LOCATION | S.E. 1/4 2235 FSL 2235 FEL |
| ELEV. | KB NA DF NA GL NA |
| PERMANENT DATUM | G.L. |
| LOG MEASURED FROM | G.L. |
| DRILLING MEASURED FROM | G.L. |
| OTHER SERVICES | CCL PERFORATE |
| RUN NO. | 1 |
| DATE | 4/1/99 |
| TYPE LOG | Neutron |
| DEPTH - DRILLER | 620.0 |
| DEPTH - LOGGER | 620.0 |
| BOTTOM LOGGED INTERVAL | 620.0 |
| TOP LOG INTERVAL | 10.0 |
| CASING - DRILLER | 16.0 |
| CASING - LOGGER | 620.0 |
| TYPE FLUID IN HOLE | Water |
| SALINITY PPM CL | NA |
| DENSITY | 1 |
| LEVEL | Full |
| MAX. RECORDED TEMP. DEG F | NA |
| ESTIMATED BHT | NA |
| RECORDED BY | S. Kirstein |
| WITNESSED BY | D. Kirstein |

| RUN NO. | BORE HOLE RECORD BIT SIZE | FROM | TO | CASING RECORD SIZE | WGT | FROM | TO |
|---|---|---|---|---|---|---|---|
| 1 | 7 7/8" | 0.0 | 620.0 | 2 7/8" | 6.5 | 0.0 | T.D. |

VOID HERE

THIS READING AND LOG CONFORMS TO API RP 33

## EQUIPMENT DATA

| GAMMA RAY | | NEUTRON | |
|---|---|---|---|
| RUN NO. | 1 NW | RUN NO. | 1 NW |
| TOOL MODEL NO. | 102 | LOG TYPE | NEU/NEU |
| DIAMETER | 1 11/16" | TOOL MODEL NO. | 102 |
| DETECTOR MODEL NO. | E-1057 | DIAMETER | 1 11/16" |
| TYPE | SCINT. | DETECTOR MODEL NO. | E-1031 |
| LENGTH | 1" X 4" | TYPE | HE-3 |
| DISTANCE TO N. SOURCE | 8.0 | LENGTH | 1" X 6" |
| | | SOURCE MODEL NO. | 71-1 |
| GENERAL | | SERIAL NO. | 71-1-3558 |
| HOIST TRUCK NO. | NA | SPACING | 13" |
| INSTRUMENT TRUCK NO. | 102 | TYPE | AM241BE |
| TOOL SERIAL NO. | MS-0001 | STRENGTH | 3 CI |

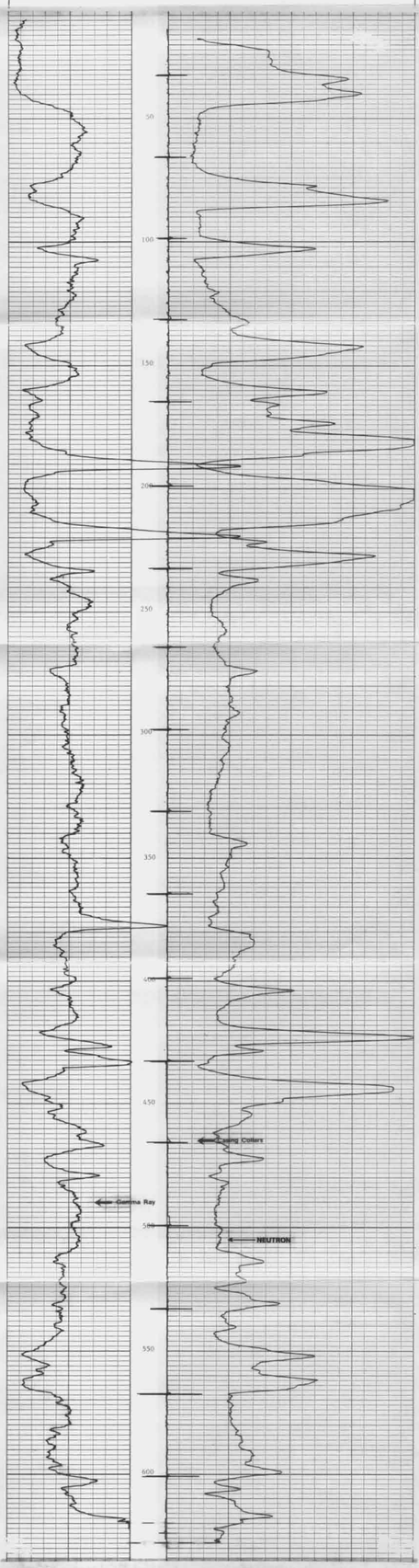
## LOGGING DATA

| GENERAL RUN NO. | DEPTHS FROM | DEPTHS TO | SPEED FT./MIN. | GAMMA RAY T.C. SEC. | GAMMA RAY 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. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10.0 | 620.0 | 20 | 4.0 | 1.85/100 | 0L | 10 | 4.0 | 1.35/100 | 0L | 20 |

REFERENCE LITERATURE: 2 7/8" - Cemented

REMARKS: D.C. Hughes Drilling Company

GAMMA RAY DEPTH NEUTRON
CASING
COLLARS




| | |
|---|---|
| COMPANY | D.E. Exploration Inc. |
| WELL | CBI - 1 |
| LEASE | Clark - Berry |
| COUNTY | Cass County |
| DATE | 4/1/99 |

| | | |
|---|---|---|
| GAMMA RAY | T.D. | 629.0 |
| GAMMA RAY | R.D. | 620.0 |
| NEUTRON | T.D. | 629.0 |
| NEUTRON | R.D. | 620.0 |
| CASING SET @ | | 2 7/8 - T.D. |