**MIDWEST SURVEYS**
LICENSED WIRELINE SERVICES
Phone 316 793-5881
P.O. Box 1000
Eureka, Kansas 67045

FILMED NO.

RECEIVED
APR 15 1991
MO Oil & Gas Council

COMPANY COLT ENERGY, INC.
WELL NO. 34-IJ
FIELD SOUTH BRODEN LEASE
COUNTY JACKSON STATE MISSOURI
LOCATION SEC. 33 TWP. 47S RGE. 33W
3139.0 FSL - 985.0 FEL
OTHER SERVICES CCL PERFORATE
PERMANENT DATUM GL
LOG MEASURED FROM GL
DRILLING MEASURED FROM GL
ELEV. K.B. NA
D.F. NA
G.L. 1043.6

PERMIT NO. 21234

| RUN | BIT | DEPTH-DRILLER | DEPTH-LOGGER | BTM LOG INTERVAL | TYPE FLUID IN HOLE | DENSITY | VISCOSITY | PH | FLUID LOSS | SOURCE OF SAMPLE | RM @ MEAS. TEMP. | RMF @ MEAS. TEMP. | RMC @ MEAS. TEMP. | SOURCE RMF | SOURCE RMC | RM @ BHT | TIME CIRC. | TIME LOGGED | MAX. REC. TEMP. | EQUIP. LOCATION | RECORDED BY | WITNESSED BY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NW | 12-21-90 | 1 NW | GAMMA RAY | NEUTRON | NA | NA | FULL | FULL | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | G. VINCENT | G. VINCENT |

| BIT NO. | IN | OUT | FOOTAGE | HRS. |
|---|---|---|---|---|
| | | | | |

| CASING RECORD | SIZE | WGT. | FROM | TO |
|---|---|---|---|---|
| SURF. | 2 7/8 | | 0.0 | T.D. |
| PROD. | | | | |

FOLD HERE

THIS READING AND LOG CONFORMS TO API RP 32

## 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 |
| | | SERIAL NO. | 71-1-3558 |
| | | SPACING | 13" |
| | | TYPE | Am241Be |
| | | STRENGTH | 3 CI |

| GENERAL | |
|---|---|
| HOIST TRUCK NO. | NA |
| INSTRUMENT TRUCK NO. | 102 |
| TOOL SERIAL NO. | MS-0001 |

## LOGGING DATA

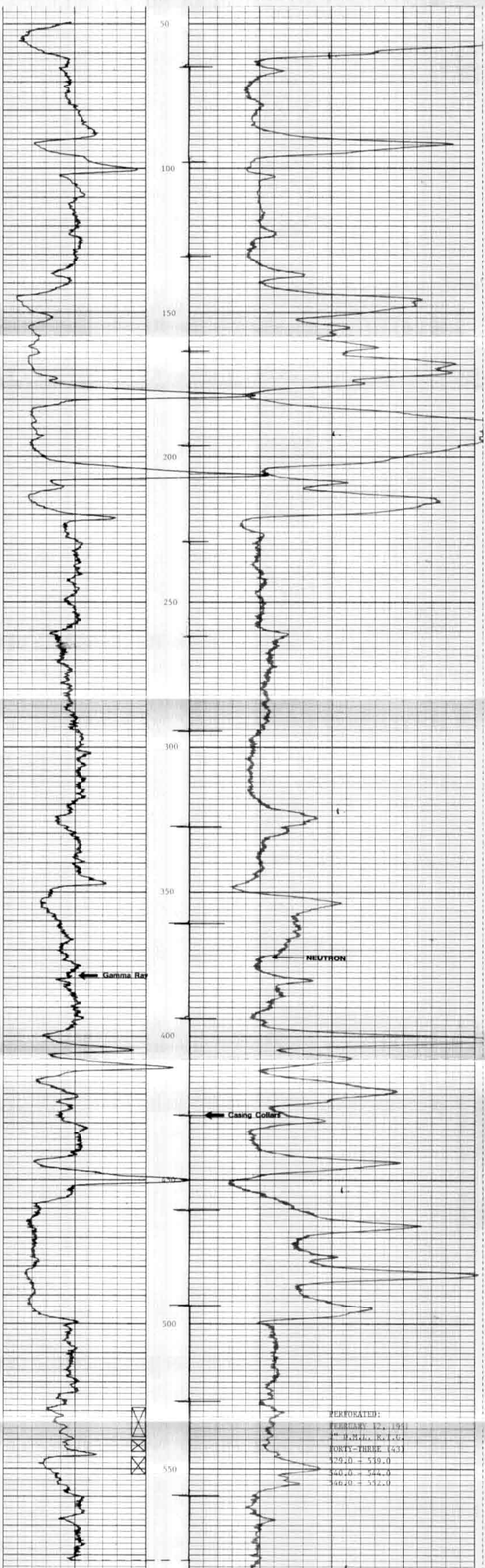
| GENERAL | | | | GAMMA RAY | | | | NEUTRON | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RUN NO | DEPTHS FROM | DEPTHS TO | SPEED FT/MIN | T.C. SEC | SENS SETTINGS | ZERO DIV. L OR R | API G.R. UNITS PER LOG DIV. | T.C. SEC. | SENS SETTINGS | ZERO DIV. L OR R | API N. UNITS PER LOG DIV. |
| 1 | 50.0 | 590.0 | 20 | 6.0 | 1.85/100 | OL | 10 | 4.0 | 1.85/100 | OL | 20 |

REFERENCE LITERATURE 2 7/8" CEMENTED

REMARKS D.C. EVANS ENERGY & DEVELOPMENT INC.

MRC-D 16240

GAMMA RAY DEPTH NEUTRON
CASING
COLLARS




PERFORATED:
FEBRUARY 12, 1991
4 JET SHOTS PER FOOT
FORTY-THREE (43)
529.0 - 539.0
544.0 - 544.0
552.0 - 552.0

| | | | | |
|---|---|---|---|---|
| COMPANY | COLT ENERGY, INC. | GAMMA RAY | T.D. | 591.0 |
| WELL | NO. 34-IJ | GAMMA RAY | R.D. | 582.0 |
| LEASE | SOUTH BRODEN | NEUTRON | T.D. | 591.0 |
| COUNTY | JACKSON, MISSOURI | NEUTRON | R.D. | 580.0 |
| DATE | DECEMBER 21, 1990 | CASING SET @ | | T.D. - 2 7/8" |