

DUFL INDUCTION FOCUSED LOG
GAMMA RAY

FILE NO. _____
COMPANY ARCO OIL & GAS COMPANY
WELL CC 24-9-64
FIELD MIST
COUNTY COLUMBIA STATE OR.
2" = 100'

LOCATION: SE 24 N. 36 E. 14 OF THE SE CORNER OF SEC 9 T12P4 RGE 44
OTHER SERVICES: COL/COR, BHC/AL

PERMANENT DRILL LOG NO. _____ ELEV. 1524.3
LOGGING MEASURED FROM KB 10' FT. ABOVE P.O. ELEVATIONS: KB 1534.35', DL 1524.35'
DRILLING MEASURED FROM KB 10' FT. ABOVE P.O. ELEVATIONS: KB 1534.35', DL 1524.35'

DATE 9/2/88
RUN 15949
SERVICE ORDER 2987
DEPTH-DRILLER 2495
DEPTH-LOGGER 2495
TOP LOGGED INTERVAL 1190' @ 1150'
CRSING - DRILLER 1150'
CRSING - LOGGER 6 1/4" @ 45
TYPE FLUID IN HOLE EZ MID
DENSITY / VISCOSITY 10.2
PH / FLUID LOSS 8.0
SOURCE OF SPARK FLOWLINE
RM AT HEHS TEMP. 2 93
RMC AT HEHS TEMP. 8 94
RMC AT HEHS TEMP. 3 92
SOURCE OF RMC / RMC HEHS 8 98
RM AT BIT 2 45
TIME SINCE CIRCULATION 2 HRS
MAX. REC. TEMP. DEG. F. 98
EQUIP. NO. / LOC. HL 5406
RECORDED BY B. HELCH
WITNESSED BY MR. JACKSON

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BEST FIT OF THEIR BEST JUDGMENT, BUT STATE FULL INTERPRETATIONS ARE OPINIONS BASED ON INFORMATION FROM ELECTRICAL OR OTHER MEASUREMENTS. WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS RUN (1)

EQUIPMENT DATA

| RUN | TRIP | TOOL | SERIAL NO. | SERIES NO. | POSITION |
|-----|------|------|------------|------------|----------|
| 1 | 1 | DIFL | 33304 | 1503 | FREE |
| 1 | 1 | PC | 79726 | 1603 | CENT |
| 1 | 1 | GR | 60484 | 1304 | CENT |
| 1 | 1 | CAL | 79090 | 4204 | CENT |

LOG DELAYS

| EQUIP | DELAY | UNITS |
|-------|-------|--------|
| CPDC | | FT. IN |
| CPIL | | FT. IN |
| CPD | | FT. IN |
| CPG | | FT. IN |
| CPH | | FT. IN |
| CPK | | FT. IN |
| CPM | | FT. IN |
| CPN | | FT. IN |
| CPX | | FT. IN |
| CPY | | FT. IN |
| CPZ | | FT. IN |

PARAMETERS

| NAME | DEPTH | INTERVAL | VALUE | UNITS |
|---------|---------|----------|--------|---------|
| R | 2499 TO | 1143 | 0.000 | |
| H | 2499 TO | 1143 | 0.000 | |
| O.I.D. | 2499 TO | 1143 | 3.500 | INCH |
| DEL-T F | 2499 TO | 1143 | ***** | MICR FT |
| DEL-T M | 2499 TO | 1143 | -2.000 | MICR FT |
| DEL-T B | 2499 TO | 1143 | 0.000 | MICR FT |

DISPLAY SCALE CHANGES
*** NONE ***

COMPANY: ARCO OIL & GAS COMPANY RUN: 1
WELL NAME: CC 24-9-64 TRIP: 1
SERVICE: H0214N FILE: 3 DATE: 09 02 88 TIME: 2011:45
REVISION: PSYCAL REV 6502 VER 2 MODE: RECORD

