DEVONIAN RESERVOIR CHARACTERISTICS AND DATA

P_i = 6410 psia
P^i = ~6200 psia
T^c_{res} = 677°R (217°F)

P_{sur} = 14.7 psia

T_{sur} = 520°R (60°F)

Gas Gravity = 0.7

z_i = 1.04

Recovery Efficiency = 50%

PETROPHYSICAL DATA

$\emptyset$ = 5.4%
$\underline{k}$ = .67 md
$\underline{S}w$ = 33%

VOLUMETRIC CALCULATIONS

Equation used:

$$EUR = \frac{43{,}560\ \emptyset\ (1-\bar{S}_w)\ NAF\ P_{res}\ T_{sur}\ Re}{z\ P_{sur}\ T_{res}}$$

1) Recoverable Gas from proposed location

NAF = 14,345 (from digital planimeter)

EUR = 3646 $\bar{M}$CFG

2) Recoverable Gas from best possible orthodox location

NAF = 1925 (from digital planimeter)
EUR = 489 $\bar{M}$CFG

JAA:jnk
7/23/84

BEFORE EXAMINER STOGNER
OIL CONSERVATION DIVISION
Shell Western EXHIBIT NO. 3
CASE NO. 8272