Atoka: Start at 35 MCFPD and decline to 10 MCFPD

$$N_1 = -365 (10-35) = 13,165 \text{ MCF}$$

 $1n (1-.5)$

6> Estimated bottom-hole pressure for each artificially lifted zone. A current (within 30 days) measured bottomhole pressure for each zone capable of flowing.

See Attachments B and C for shut-in tubing pressures of Morrow and Atoka zones.

```
Morrow: SITP = 1755 psi
          Assuming gas mostly methane (MW = 16)
         P = P_s e exp (D-D_s)
          MW = 16
          P_{s} = 1755
          \tilde{D} = 10061'
          T = 185 \pm 60 = 123^{\circ} F = 583^{\circ} R
                 2
          Z = .84
          P = 1755 e \_ 16 (10061) = 2171 psi
                     1544 (.84) (583)
          SITP = 2280 psi
Atoka:
          MW = 16
          P_{s} = 2280
          D = 9692'
          T = 583^{\circ} R
          Z = .84
                        16 (9692) = 2799 psi
          P = 2280 e
```

1544 (.84) (583)

7> A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the well-bore.

Both Morrow and Atoka produce sweet gas. Don't anticipate any compatibility problems.

8> A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams.

Both Morrow and Atoka produce sweet gas. The value of the gas will not be affected by commingling.

9> A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula.

Morrow = <u>Morrow Reserves</u> Total Reserves <u>101,065 MCF</u> = .8848 Say 88% 114,230 MCF

Atoka = $\underline{\text{Atoka Reserves}}$ Total Reserves $\underline{13,165 \text{ MCF}} = .1152 \text{ Say } 12\%$ $\underline{114,230 \text{ MCF}}$