

YPC - Stebbins G & Q Com Federal #1

B-20-20s-29E

East Burton Flats Atoka, pfs 10825-882 KB.

$P_{CR} = 672.5$ $T_{CR} = 354.5$

Orig BHP = 6456.2 psia $P_R = 9.62$ $T_R = 1.785$ $Z_0 = 1.113$

$$P_0/Z_0 = \frac{6456.2}{1.113} = 5800.7$$

Pres BHP = 1541.2 psia $P_R = 2.29$ $T_R = 1.785$ $Z_1 = 0.905$

$$P_1/Z_1 = \frac{1541.2}{0.905} = 1703.0$$

Aband BHP = 333.2 psia $P_R = 0.495$ $T_R = 1.785$ $Z_A = 0.975$

$$P_A/Z_A = \frac{333.2}{0.975} = 341.7$$

Cumulative Production to 2-1-79 = $N_p = 648827$ mcf + 4994 Bbls Cond.

$$\text{Remaining Reserves} = \frac{P_1/Z_1 - P_A/Z_A}{P_0/Z_0 - P_1/Z_1} N_p = \frac{1703.0 - 341.7}{5800.7 - 1703.0} (648827) = 215547 \text{ mcf}$$

$$\frac{4994 (215547)}{2 (648827)} = 830 \text{ B. Cond.}$$

East Burton Flats Morrow, pfs 11438-449 KB.

$P_{CR} = 673$ $T_{CR} = 373.5$

Orig BHP = 4160.2 psia $P_R = 6.182$ $T_R = 1.703$ $Z_0 = 0.927$

$$P_0/Z_0 = \frac{4160.2}{0.927} = 4487.8$$

Pres BHP = 3540.2 psia $P_R = 5.260$ $T_R = 1.703$ $Z_1 = 0.888$

$$P_1/Z_1 = \frac{3540.2}{0.888} = 3986.7$$

Aband. BHP = 333.2 psia $P_R = 0.495$ $T_R = 1.703$ $Z_A = 0.970$

$$P_A/Z_A = \frac{333.2}{0.970} = 343.5$$

Cumulative Production to 8-6-79 = $N_p = 238525$ mcf + 19 Bbls Cond.

$$\text{Remaining Reserves} = \frac{P_1/Z_1 - P_A/Z_A}{P_0/Z_0 - P_1/Z_1} N_p = \frac{3986.7 - 343.5}{4487.8 - 3986.7} (238525) = 1,734,173 \text{ mcf}$$

$$\frac{19 (1734173)}{2 (238525)} = 69 \text{ B. Cond.}$$

It is proposed to allocate future commingled production on the basis of remaining reserves:

Σ. Burton Flats Atoka: 215547 mcf = 11%; 830 B. = 92% Cond.

Σ. Burton Flats Morrow: 1,734,173 mcf = 89%; 69 B. = 8% Cond.

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