## Pore Volume Reserve Calculation South Mattix Unit No. 15 Fowler Upper Silurian Gas Pool

Interval	<u>h (ft.)</u>	ø (Avg.)	S (Avg.)	_øh_	øh s
7002'-10'	8'	9%	38%	.72	.274
7010'-22'	12'	10%	37%	1.2	.444
7022'-32'	10'	8%	39%	.8	.312
7032'-38'	6'	6%	45%	.36	.162
				3.08	1.19

Total h = 36'

 $\phi_{avg} = 8.6\%$ 

 $z_a = 0.965$ 

 $S_w$  Avg. = 39%

Abandonment Pressure = 500 psi

Initial BHP = 2350 psi Initial BHT =  $129^{\circ}$  F Gas Gravity = 0.72  $z_{i}$  = 0.77

Gas Reserves = (43,560) 
$$(\not 0)(h)(1-S_w)(A)$$
  $\begin{array}{c|c} \underline{pi} & \underline{pa} \\ \underline{zi} & \underline{za} & \underline{tb} \\ \hline \\ \hline \\ pb \end{array}$ 

where:

= <u>687.4 MMCF</u>

Amoco Production Company Case No. 9866 February 7, 1990 Exhibit No. //