

**Decline Analysis**  
Sapient Energy Corp  
Barber # 12

**Assumptions:**

Cumulative Production thru 10/24/01 = 808 MMCF  
Current Producing Rate = 800 MCFD  
Economic Limit = 20 MCFD  
Decline Rate = 43 %  
 $a = -\ln(1 - d) = 0.562$   
Original Recoverable Gas In Place = 741.3 MCF/acre-ft  
Thickness = 30'

**Calculations:**

Remaining Recoverable Reserves =  
 $(800 - 20) / .562 \times 365 = 507 \text{ MMCF}$

Estimated Ultimate Recovery =  $808 \text{ MMCF} + 507 \text{ MMCF} = 1315 \text{ MMCF}$

Drainage Area =  $1315 \text{ MMCF} / 30 \text{ ft} / .7413 \text{ MCF/acre-ft} = 59 \text{ acres}$