Production Plot & Decline Curve Analysis



Decline Curve Analysis Method

- Exponential
- Harmonic
- Hyperbolic

Qt = Qi exp(-Kt)

Constant (K):

Exponent (n): 0

Enter Production Rate for Computation

Daily Monthly Yearly

Initial Production (Qi)		Present Production (Qt)	
Enter Year:	2007	Enter Year:	2009
Enter Rate:	310	Enter Rate:	324

Cumulative Production

Production (Actual): 2531 BBL

Production (Computed): BBL

Production at Economic Limit

Economic Limit Rate (Qf): Year:

Enter Rate: BBL Per Day Month Year

Cum at Economic Limit (EUR): BBL

Remaining Reserves (RR): 0 BBL

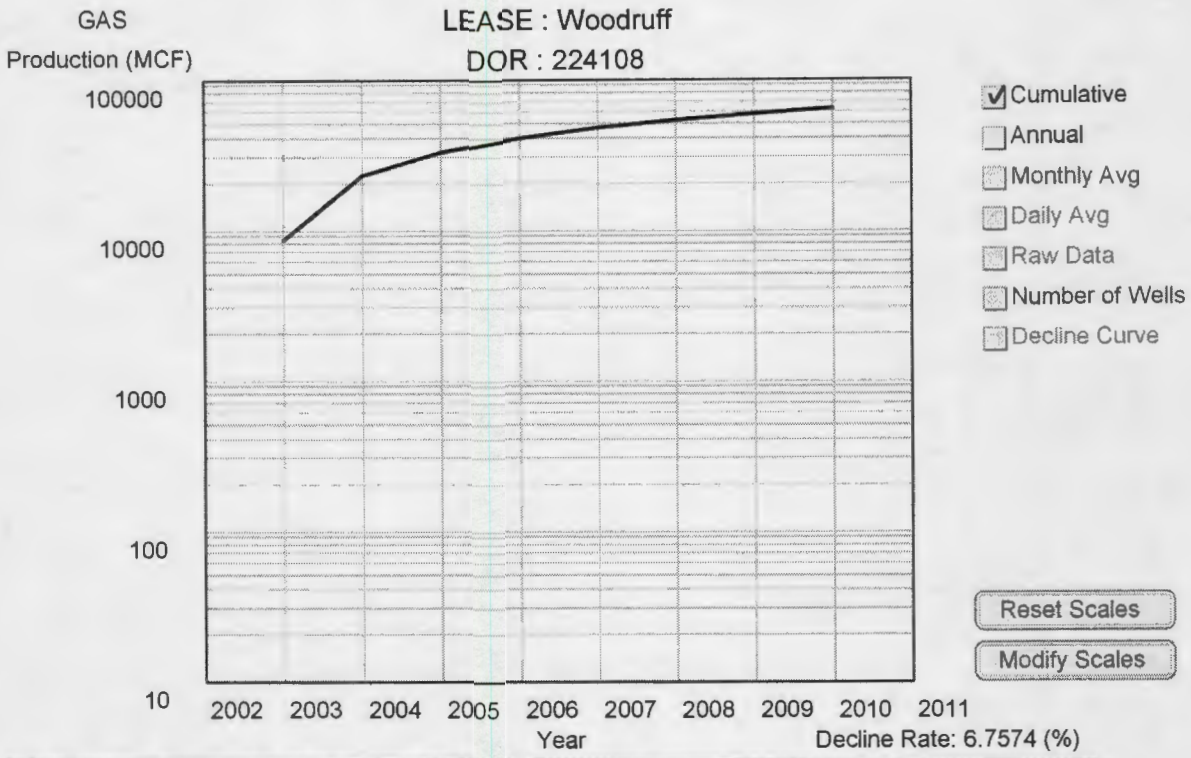
Extend to Limit

References:

Decline Curve Analysis:

SPE 83470 "A Decline Curve Analysis Model Based on Fluid Flow Mechanisms"
by Kewen Li, SPE, and Roland N. Home, SPE, Stanford University
http://pangea.stanford.edu/~kewenli/spe83470.pdf

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Decline Curve Analysis Method

- (•) Exponential
- ( ) Harmonic
- ( ) Hyperbolic

Qt = Qi exp(-Kt)

Constant (K): 0.069965

Exponent (n): 0

Enter Production Rate for Computation

( ) Daily ( ) Monthly (•) Yearly

Initial Production (Qi)		Present Production (Qt)	
Enter Year:	2007	Enter Year:	2009
Enter Rate:	5935	Enter Rate:	5160

Cumulative Production

Production (Actual): 64755 MCF

Production (Computed): 65409 MCF

Production at Economic Limit

Economic Limit Rate (Qf): Year:

Enter Rate: MCF Per (•) Day ( ) Month ( ) Year

Cum at Economic Limit (EUR): MCF

Remaining Reserves (RR): 0 MCF

Extend to Limit

References:

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