

based on discussions with BP reservoir modellers and well test analysis

Estimation of Reservoir Area					
Original Oil in Place	1.10E+08 stb				
Formation Volume Factor (Oil Bv)	2.56 rb/stb				
Volume of oil in reservoir	2.82E+08 rb	1.5812E+09 ft ³	1 barrel =	5.615 ft ³	
Porosity	0.21				
Bulk volume of reservoir	8.27E+09 ft ³				
Reservoir thickness	88 ft				
Area of aquifer	9.51E+07 ft ²				
Square root of aquifer area	9,750 ft				
width	3,400 ft				
length	27,961 ft				
Reservoir and Oil Properties					
	500 md	4.93E-13 m ²	1 md =	9.87E-16 m ²	
formation, rock, or pore compressibility, c _f					6.00E-06 psia ⁻¹
Total compressibility	1.94E-05 psia ⁻¹	= (1-Sw) ^{co} + Sw ^{cw} + c _f	1 psi	6894.75729 N/m ²	
Oil density	0.568 gm/cc				
Oil viscosity	0.168 cp		1 cp =	0.001 N/m ² = kg/m ³ s	
Production	45,000 40,000 stb/d				
	115,200 102,400 rb/d				
	646,848 574,976 ft ³ /d				

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