

based on discussions with BP reservoir modelers and well test analysts

#### Estimation of Reservoir Area

Original Oil in Place	1.10E+08 stb			
Formation Volume Factor (Oil Boi)	2.56 rb/stb			
Volume of oil in reservoir	2.82E+08 rb	1.5812E+09 ft <sup>3</sup>	1 barrel =	5.615 ft <sup>3</sup>
Porosity	0.21			
Bulk volume of reservoir	8.37E+09 ft <sup>3</sup>			
Reservoir thickness	88 ft			
Area of aquifer	9.51E+07 ft <sup>2</sup>			
Square root of aquifer area	9,750 ft			
width	3,400 ft			
length	27,961 ft			

#### Reservoir and Oil Properties

permeability	500 md	4.93E-13 m <sup>2</sup>	1 md =	9.87E-16 m <sup>2</sup>
Sw	0.100			
formation, rock, or pore compressibility, cf	6.00E-06 psia <sup>-1</sup>			
water compressibility, cw	3.00E-06 psia <sup>-1</sup>			
oil compressibility, co	1.46E-05 psia <sup>-1</sup>			
Total compressibility	1.94E-05 psia <sup>-1</sup>	= (1-Sw)*co + Sw*cw + cf	1 psi	6894.75728 N/m <sup>2</sup>
Oil density	0.568 gm/cc			
Oil viscosity	0.168 cp		1 cp =	0.001 N/m <sup>2</sup> = kg/m*s <sup>2</sup>

Production	45,000	40,000 stb/d
	115,200	102,400 rb/d
	646,848	574,976 ft <sup>3</sup> /d

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