

based on discussions with BP reservoir modellers and well test analysis

<b>Estimation of Reservoir Area</b>					
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 <sup>3</sup>	1 barrel =	5.615 ft <sup>3</sup>	
Porosity	0.21				
Bulk volume of reservoir	8.27E+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				
<b>Reservoir and Oil Properties</b>					
	500 md	4.93E-13 m <sup>2</sup>	1 md =	9.87E-16 m <sup>2</sup>	
formation, rock, or pore compressibility, cf					6.00E-06 psia <sup>-1</sup>
Total compressibility	1.94E-05 psia <sup>-1</sup>	= (1-Sw) <sup>co</sup> + Sw <sup>cw</sup> + cf	1 psi	6894.75729 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 <sup>3</sup> s	
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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