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based on discussions with BP reservoir modellers and well test analysts

Parameter	Value	Unit	Conversion
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
Porosity	0.21		1 barrel = 5.615 ft ³
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	
based on discussions with BP reservoir modellers and well test analysts			
formation, rock, or pore compressibility, c_f	6.00E-06	psia ⁻¹	
water compressibility, c_w	3.00E-06	psia ⁻¹	
oil compressibility, c_o	1.49E-05	psia ⁻¹	
Total compressibility	1.94E-05	psia ⁻¹	$= (1-S_w)c_o + S_w c_w + c_f$
Oil density	0.568	g/cm ³	1 psi = 6894.75729 N/m ²
Oil viscosity	0.168	cp	1 cp = 0.001 N/m ² = kg/m*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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