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Characteristic	Conventional reservoir	Unconventional reservoir				
Rock permeability	May vary but consistently higher	Highly variable but consistently very low				
Well completions	Tap natural storage, transport	Create primary storage, transport				
Fluid transport	Vertical wells - one direction (radial)	Horiz, frac'd wells - changes with flow regime				
Flow regimes over life	Short transient, mainly BDF over life	Long transient, changing, may never get to BDF				
Production forecasting predictability	PUD - Good when inflow parameters known; PDP - very good when producing in BDF (using DCA)	Very challenging given high variability in rock characteristics, completions and flow regimes; must use PDP DCA and statistics for PUD				































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within 10% (or less) of mean at 90% confidence interval Table 2.1 Recommended Minimum Sample Size					
	P ₁₀ /P ₉₀ Ratio	Recommended Sample Size	Comments		
	2	15	Ratio not likely to be seen		
	3	35	Common Ratio		
	4	60	Common Ratio		
	5	75	Common Ratio		
	6	100	Common Ratio		
	8	130	Common Ratio		
	10	170	Possible data quality / analogy issues		
	15	290	Possible data quality / analogy issues		
	20	420	Possible data quality / analogy issues		
	30	670	Possible data quality / analogy issues		
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