Total Life Cycle of Hydraulic Fracturing Fluids.



Simple calculator tool.

Water-based fluid		Total barrels			
# of stages					
barrels/stage					
Incremental water		bbl			
Acquisition		method (source, recycle, reclaim)			
		\$/bbl water			
		\$/ton CO ₂			
Management					
		months, flowback			
		% flowback (over same months)			
		days/month			
		# storage tanks			
		\$/day/storage tank			
		hrs setup/tank			
		hrs monthly maintenance/tank			
		\$/hr labor for maintenance & setup			
Disposal					
		method (source, recycle, reclaim)			
		\$/bbl			
CO ₂ foam quality					
	0	# of stages			
		foam volume improvement factor*			
	-	barrels of foam			
	-	barrels of water for foam			
	5.41	CO ₂ bbls/ton			
	-	CO ₂ tons			

Fracturing	fluid	cost	com	narison
I racturing	Hulu	CUSL	COILL	parisori

				Incremental water	CO ₂
	Unit	# Units	Unit costs	Total costs	Total costs
Acquisition					
Water - purchase	bbl	-	\$	\$	
CO ₂ - purchase	ton	-	\$		\$
Management (post-fra	c) storag	ge at well	head		
Incremental tanks (24)	mths	-	\$	\$	NA
Set-up / tank	hrs	-	\$	\$	NA
Labor monthly	hrs	-	\$	\$	NA
Disposal					
Injection wells	bbl	-	\$	\$	
Total				\$	\$
Delta cost of water to		\$			
Cost/bbl equivalent		Water	CO ₂		
Acquisition, managen		\$	\$		

"While initial CO₂ or N₂ acquisition costs may exceed water costs, in well-designed fracturing processes energized solutions can reduce other costs and improve well performance to yield a lower total operating cost or unit cost of production."

Feed, can change value manually

Calculated, can change value manually

Input

Messer Americas

200 Somerset Corporate Blvd Suite 7000 Bridgewater, NJ 08807 Phone: 1-800-755-9277 sales@messer-us.com www.messer-us.com









^{*}Use "Quality vs. Leak-off Values" for estimates. Barrels of foam estimated adjustment based upon leak-off, fluid clean up, embedment...(if targeting equal fracture volume).