

Cost/ft	Notes
\$10.04	Equipment rental and personell + expendibles
\$0.13	Rig modifications for installation of closed loop system.
\$1.31	375 kW generator required, cannot run off of rig generator
\$1.25	Needed to cut drilled solids buildup
\$0.79	Bermed area (60' X 40') w/ pit liner
	Catch tank to drying area. Rental on backhoe plus fuel. Excavator to
\$3.68	stir cuttings and promote drying
-\$2.12	Subtract "normal" pit costs
\$0.73	Mud additives lost to closed loop solids removal equipment
	Fast ROP limits mud retention time in pits and reduces shale shaker
h	efficiency
\$0.39	Pull water from drying area
\$0.42	Choke line usually routed to reserve pit
	Returns usually routed to reserve pit
\$3.38	250 yd^3 per well
	250 yd^3 per well
\$0.28	
\$0.34	3 frac tanks
\$0.24	3 Frac tanks
	400 bbl. Not re-usable due to drilled solids content and "souring". Cost
	to re-use mud exceeds disposal costs.
\$0.36	
	Needed to transfer runoff from rig ditches, move sluriles and mud
\$0.35	around location.
	0.5 days extra rig up time, 1 day reduced ROP due to drilled solids in
	system increasing mud weight, 0.5 days due to maitenence and repair
\$10.31	on closed loop system equipment.