Dilution Cost — Calculation Sheet

Five steps from the daily reports to a dollar number nobody can argue with. Work one interval (one hole section) at a time.

Rig / unit: _____	Date: _____	Shift: ■ Day ■ Night	Inspector: _____

#	Step	Value
1	Hole volume drilled this interval (from geometry × washout)	____ bbl
2	Total new mud built / delivered over the interval (from mud reports)	____ bbl
3	Dilution factor DF = Step 2 ÷ Step 1	DF = ____
4	Benchmark DF from the best offset on the same interval & mud type	DF■ = ____
5	Excess mud attributable to solids control = (DF – DF■) × Step 1	____ bbl

Turn barrels into money

Line	Value
Mud cost per barrel (built, incl. chemicals & barite)	$ ____ /bbl
Excess-dilution cost = Step 5 × cost/bbl	$ ____
Add waste side: excess discard × haul/treatment $/bbl	$ ____
TOTAL avoidable cost this interval	$ ____
Per foot: total ÷ interval footage	$ ____ /ft

What the number is for

This is the sentence that unlocks budget: “We spent $____ more than the best offset on the same section — and here is which machine it points to.” A single neglected train has produced $48,000-per-section recoveries in documented cases. Independent, standards-referenced version of this analysis: scdrilltech.com (Services). Interactive version: the dilution calculator on the homepage.