CASE STUDY: 97.8% REDUCTION IN FUGITIVE EMISSIONS

As the industry leader in Desanding technology, SDI has taken an aggressive and proactive approach to meet the challenge of reduced emissions during flowback and initial production. With our unique ability to measure/monitor the sand inside the vessel in real-time, in conjunction with high sand storage capacities, our Desanders are cleaned out **only as needed** and release only a **finite and predictable amount of gas** with each blowdown. Precise data allows us to calculate the total emissions released compared to competing technologies and minimize the environment's overall impact. Specialized Desanders is on the vanguard of the worldwide emissions reduction initiative.

See our related SPE Paper (196142) and its real world application below to learn more about how we can support your EHS goals:

Emissions Reductions - Delaware Basin Case Study

Prior to installing Desanders, 2 Cyclonic Sand Separators per well were utilized and blown down every 15 minutes. For these calculations we assume Cyclonics are blown down once every hour on average.

Days on Site	46
Wells	6

Vertical Cyclonic Sand Separators	
2	Vessels per Well
24	Blowdowns per Day per Vessel
13,248	Estimated Blowdowns
145.48	scf Emissions per Blowdown (1000 psi, 68 °F)
1,927,367.95	Estimated Total Cyclonic Emissions (scf)

SDI 42420 Tilt Desanders	
1	Vessel per Well
695.8	lbs of Produced Sand per Cleanout (avg)
115	Total Cleanouts/Blowdowns for all 6 wells
372.69	scf Emissions per Blowdown (1000 psi, 68 °F)
42,858.81	Calculated SDI 42420 Tilt Emissions (scf)

1,884,509 scf Reduction in Fugitive Emissions Discharged during Initial Production Operations
97.8% Reduction in Emissions from 1 SDI Tilt Desander vs. 2 Vertical Cyclonics per well

SPECIALIZED DESANDERS

desanders.com