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Aspen Engineering Services, LLC Solutions for the Oil and Gas Industry

Crude Oil Stabilization and Recovery (COSR)



Plaguing Problems for the Oil Industry



CRUDE OIL VENTING



CRUDE OIL STABILIZATION







REVENUE



What If One Process Could Eliminate this...





...and this...







...While Providing a Payback to the Producer?

	Uncontrolled	COSR	
Vent recovery	0%	100%	
Reid vapor	17.2 psi	7.6 psi	
pressure			
Maximum storage	44° F	113° F	
temperature			
Recovered vent	\$0	\$161,241	



What Causes Tank Venting?



- Flashing loss due to depressurization.
- Breathing loss caused by temperature changes.
- Working loss from inventory variation.



COSR Lite







COSR with Liquid Recovery





Technology Comparison

	VRU	Combustion	COSR	Flash Stabilizer
Vent Capture	100%	100%	100%	50%
Vent Recovery	0%	0%	100%	50%
Crude Oil Stabilization	No	No	Yes	Yes



COSR is Patent Pending

Reference: Meyer, J. (2015). Crude Oil Stabilization and Recovery, U.S. patent application 14/663,064 and Canada 2,885,455.

