

# Survey-based Emission Sources by Well Type

Phase	Survey-based Source Category	Gas	CBM	Oil
<b>Drilling &amp; Completion Phase</b>	Drill Rigs	X	X	X
	Completions and Recompletion Venting and Flaring	X	X	X
	Fracing Engines	X	X	X
	Mud Degassing	X	X	X
<b>Production Phase</b>	Blowdowns	X	X	X
	Condensate and Oil Tanks	X		X
	Dehydrators	X	X	X
	Oil and Condensate Well site Truck Loading	X		X
	Heaters	X	X	X
	Fugitives Devices	X	X	X
	Pneumatic Controllers	X	X	X
	Pneumatic Pumps	X	X	X
	Compressor Engines (exhaust, startup/shutdown, fugitives)	X	X	X
	Workover Rigs	X	X	X
	Artificial Lift Engines			X
	CBM water pump/dewatering engines		X	
	Miscellaneous engines	X	X	X

\* Gas composition data will be collected and used to estimate venting source emissions

# Draft Greater San Juan Sub-basins

<b>CBM Wells</b>
Fruitland Coal
<b>Gas Wells</b>
Dakota Sandstone
Mesaverde Group
Pictured Cliffs Sandstone
Mancos Shale
<b>Oil Wells</b>
Gallup
Dakota
Mancos

- The listed sub-basins capture the vast majority (>90%) of O&G activity metrics (i.e. well count, oil production, and gas production) in the Greater San Juan Basin
- Sub-basin specific data will not necessarily be collected for all well site emission source categories
- Sub-basin specific data expected to be collected for gas composition, tanks, and dehydrators
- Whether data is collected by sub-basin for additional source categories is still being decided