



SAN JUAN BASIN: STATUS UPDATE

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OVERVIEW

- Well location and production data
- Midstream permit and registration data
- Structure and completion of surveys

GREATER SAN JUAN BASIN 2014 O&G ACTIVITY DATA – BY WELL TYPE

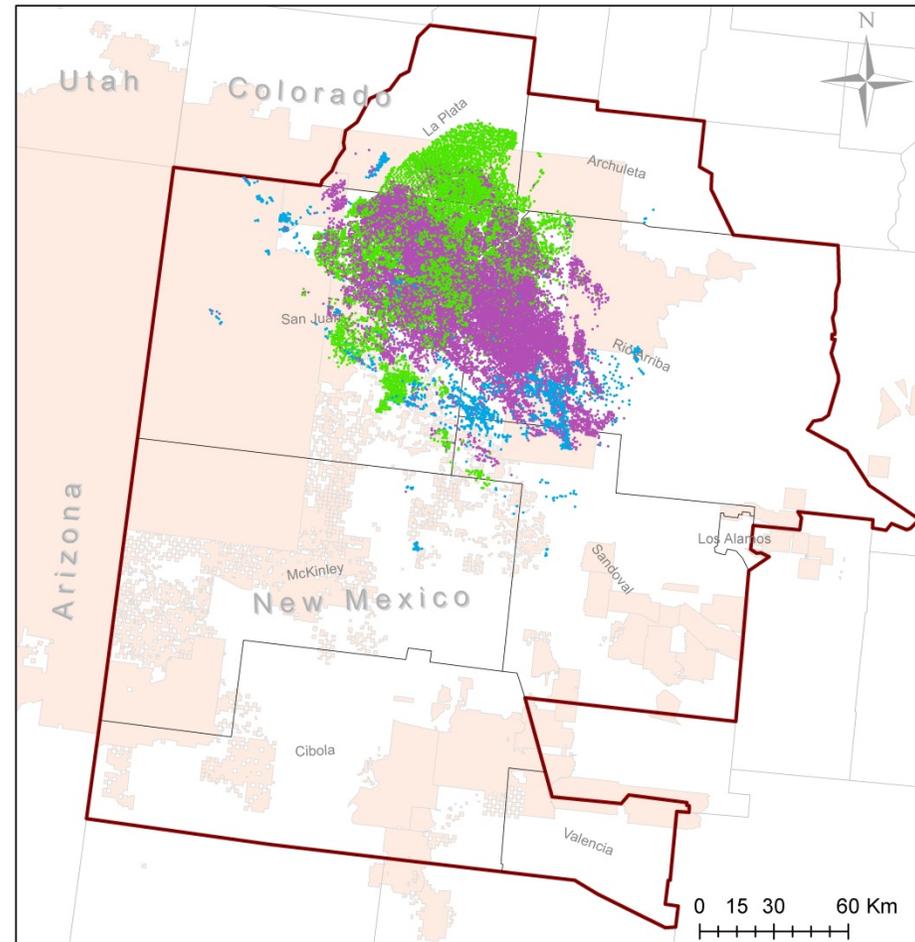
Activity Metric		Basin-wide Totals	Percent by State	
			Colorado	New Mexico
Active Well Count	Gas Wells	16,047	5%	95%
	Oil Wells	1,725	5%	95%
	CBM Wells	7,098	32%	68%
	Total	24,870	13%	87%
Liquid Hydrocarbon Production (Mbbbl/yr)	Primary Oil	4,413	1%	99%
	Condensate	1,653	<1%	>99%
	Total	6,066	1%	99%
Gas Production (BCF/yr)	Natural Gas	427	6%	94%
	Associated Gas	24	<1%	>99%
	Coalbed Methane	610	53%	47%
	Total	1,060	33%	67%

GREATER SAN JUAN BASIN 2014 O&G ACTIVITY DATA – BY MINERAL OWNERSHIP

Activity Metric		Basin-wide Totals	Percent by Mineral Ownership		
			Private/State	Tribal	Federal
Active Well Count	Gas Wells	16,047	18%	15%	67%
	Oil Wells	1,725	19%	30%	51%
	CBM Wells	7,098	34%	13%	54%
	Total	24,870	23%	15%	62%
Liquid Hydrocarbon Production (Mbbbl/yr)	Primary Oil	4,413	22%	12%	66%
	Condensate	1,653	14%	12%	74%
	Total	6,066	20%	12%	68%
Gas Production (BCF/yr)	Natural Gas	427	19%	12%	69%
	Associated Gas	24	18%	16%	66%
	Coalbed Methane	610	45%	19%	36%
	Total	1,060	34%	16%	50%

MAP OF WELLS BY WELL TYPE

Greater San Juan Basin



Legend

 Greater San Juan Basin (consistent with GHGRP Subpart W definition)

 Tribal Lands

Well Type

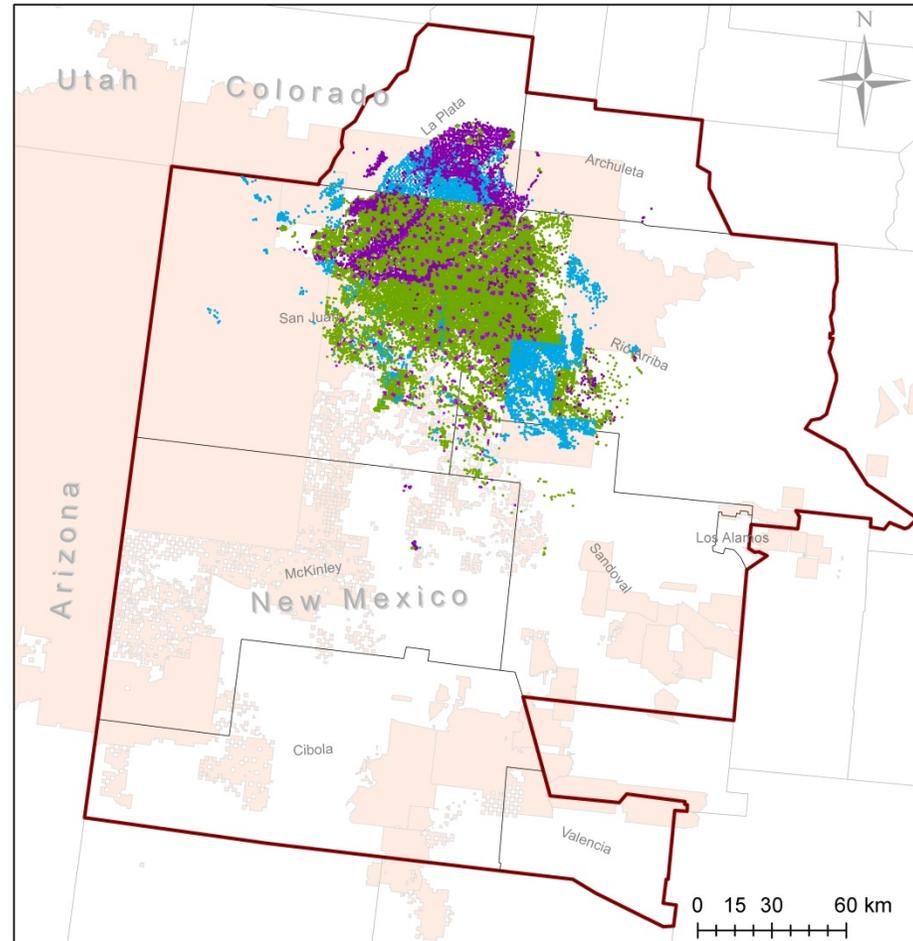
 Oil

 CBM

 Gas

MAP OF WELLS BY MINERAL OWNERSHIP

Greater San Juan Basin



Legend

-  Greater San Juan Basin (consistent with GHGRP Subpart W definition)
-  Tribal Lands

Mineral Ownership (2014 Wells)

-  Private/State
-  Tribal
-  Federal

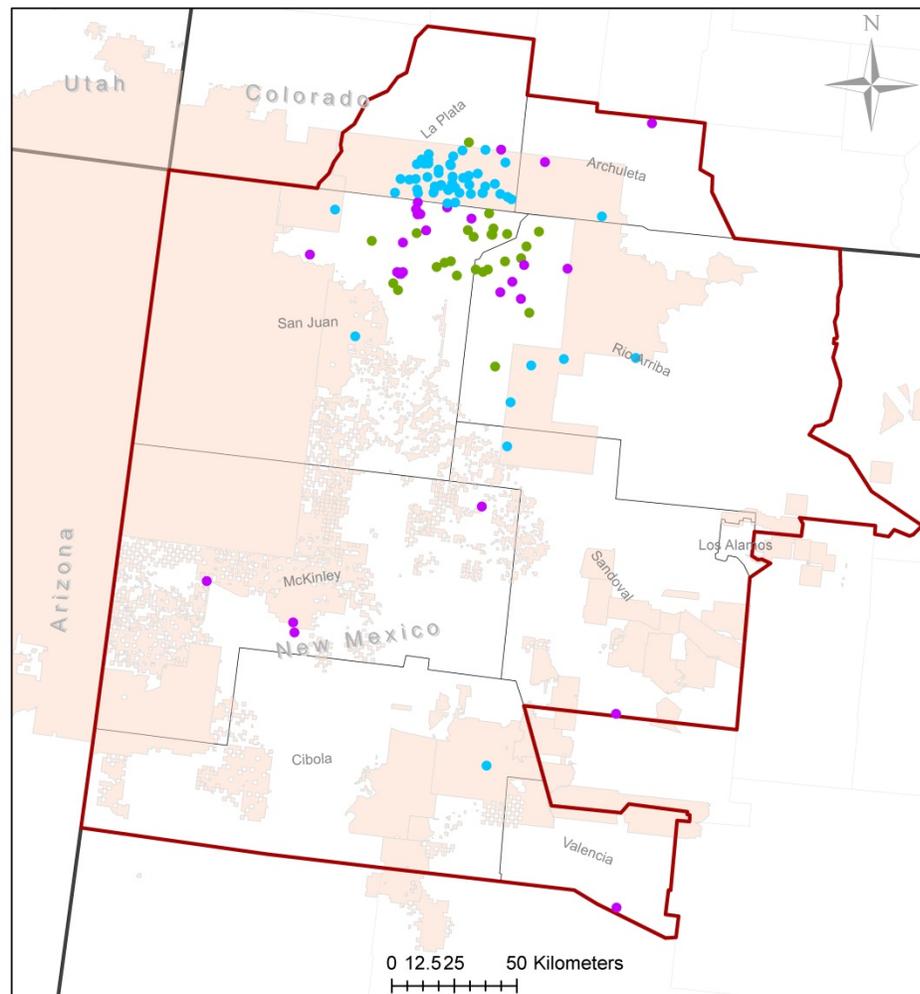
MIDSTREAM PERMITTED EMISSION SUMMARY

By Emission Data Source					
Emission Data Source	NOx	VOC	CO	PM10	SO2
Colorado Dept. Public Health	89	26	88	2	0
New Mexico Environment Dept.	7,651	3,000	5,114	270	186
EPA Region 8 (Tribal MNSR)	609	449	803	11	1
EPA Region 6 (Title V/Part 71)	618	377	257	4	0
EPA Region 8 (Title V/Part 71)	249	126	0	1	0
Total	9,216	3,979	6,262	287	187

By Surface Ownership					
Mineral Ownership	NOx	VOC	CO	PM10	SO2
Federal	2,572	1,806	2,907	62	19
Private/State Fee	2,927	1,021	1,831	129	157
Tribal	3,717	1,152	1,524	96	11
Total	9,216	3,979	6,262	287	187

Greater San Juan Basin

MAP OF MIDSTREAM FACILITIES BY SURFACE OWNERSHIP



Legend

-  Greater San Juan Basin (consistent with GHGRP Subpart W definition)
-  Tribal Lands

Ownership

-  Federal
-  Private/State
-  Tribal

SURVEY OVERVIEW

- Timeline
 - Draft survey sent out for comment in September 3, 2015
 - Final survey sent to operators on September 19, 2015
 - Request completion of survey by mid-November
- Survey leverages data collected/submitted as part Subpart W GHGRP
- Survey includes request for the following
 - GHGRP Subpart W Submission by well type
 - GHGRP Subpart W Supplemental Information
 - Supporting Data (lab analyses, model input/output)
 - Survey Data (for source categories where Subpart W data is not sufficient/available to estimate criteria pollutant emissions)

QUESTIONS

Emission Inventory Technical

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