

2014 Annual Report on Oil and Gas Activities

State Oil and Gas Council
Meeting

April 15, 2015

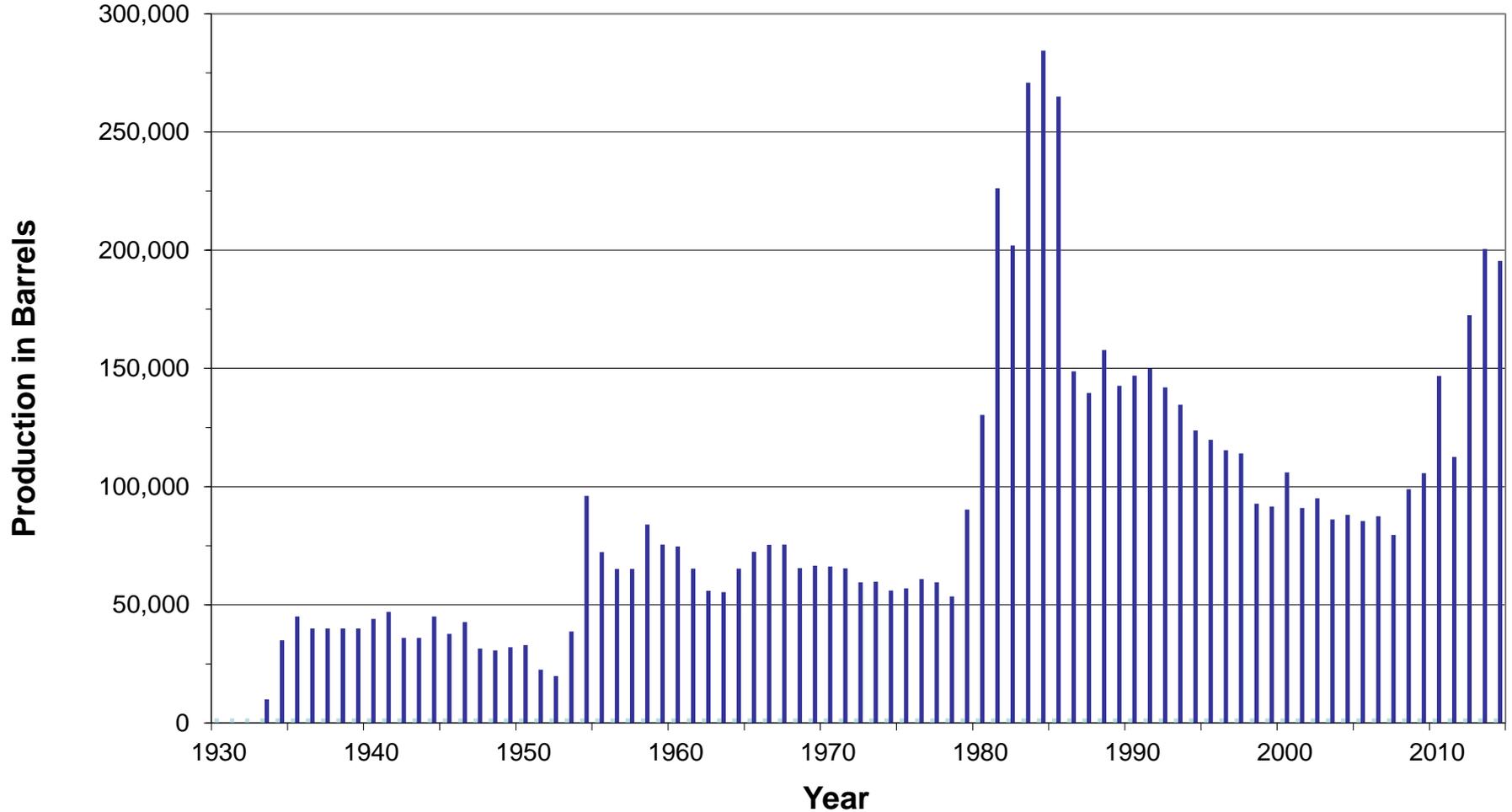
Missouri's Oil Production in 2014

- **601** active producing oil wells in 2014
- **195,481** barrels of oil produced
- Valued at about **\$16.5 million**
- Price per barrel ranged **\$45.50** to **\$98.20**
- Currently produced in six counties
- 14 companies operated in 2014
 - Currently 13 producing companies

Average Price for Missouri Oil

- Average price per barrel in 2014 - \$82.38
(↓~7%) (ranging from \$45.50 to \$98.20)
- Average price per barrel in 2013 - \$86.82
(↑~6%) (ranging from \$75.74 to \$91.32)
- Average price per barrel in 2012 - \$83.22
(↓~4%) (ranging from \$69.07 to \$94.22)
- Average price per barrel in 2011 - \$86.94
(↑~25%) (ranging from \$71.28 to \$102.61)

Historic Oil Production



MISSOURI

2014 Crude Oil Production By Operator (Operators Producing >1.0% of Production)

	<u>bbls</u>	<u>% of total</u>
• Kansas Res. Expl. & Dev.-----	92,682	(47.41%)
• Running Foxes Inc.-----	22,079	(11.29%)
• S&B Operating -----	21,875	(11.19%)
• Investment Equipment-----	14,572	(7.45%)
• Colt Energy, Inc.-----	12,249	(6.27%)
• Palo Petroleum-----	10,084	(5.55%)
• Laclede Gas Company-----	10,084	(5.16%)
• Laclede Oil Company-----	5,195	(2.66%)
• L.T Oil -----	2,842	(1.45%)
• TNT Energy -----	2,752	(1.41%)

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2014 Crude Oil Production By Operator (Operators Producing <1.0% of Production)

	<u>bbls</u>	<u>% of total</u>
• Encore -----	150	(0.07%)
• SCZ -----	0	
• IGWT-----	0	
• Zero CO2 -----	0	

2014 Total Crude Oil Production----- 195, 481 bbls

2014 Oil Producing Counties

Vernon Co.
 32,922 bbls
 (17%) \$2,633,612

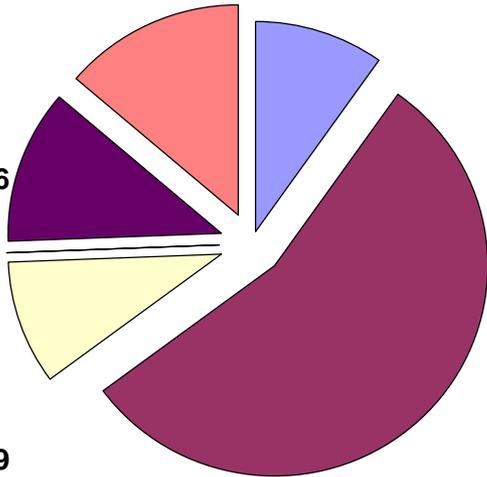
Atchison Co.
 14,572 bbls
 (7%) \$1,141,746

St. Louis Co.
 15,280 bbls
 (8%) \$1,307,606

Ray Co.
 0 bbls (0%)

Jackson Co.
 15,395 bbls
 (8%) \$1,305,469

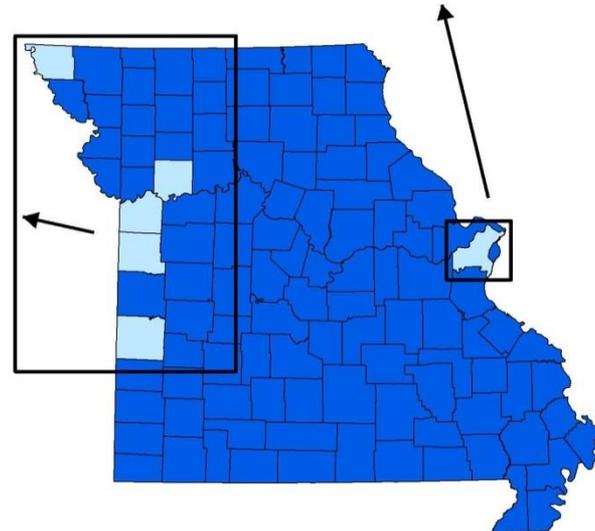
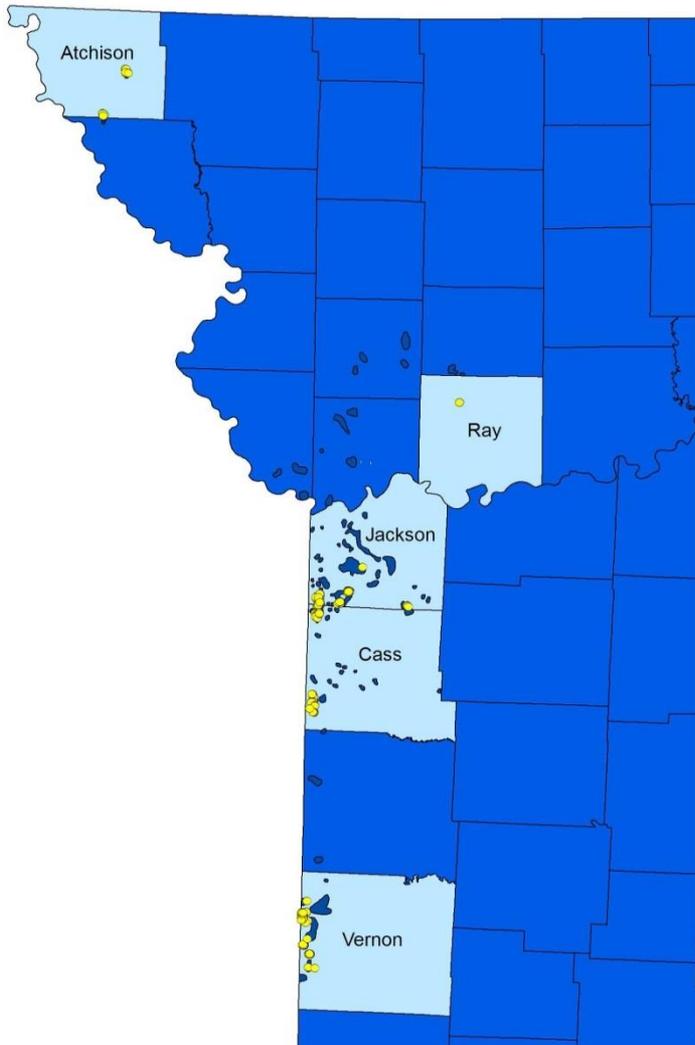
Cass Co.
 117,310 bbls
 (60%) \$10,097,654



Total Production 195,480 bbls

Total Value \$16,486,090

Oil Producing Counties and Known Fields



Cass Co.

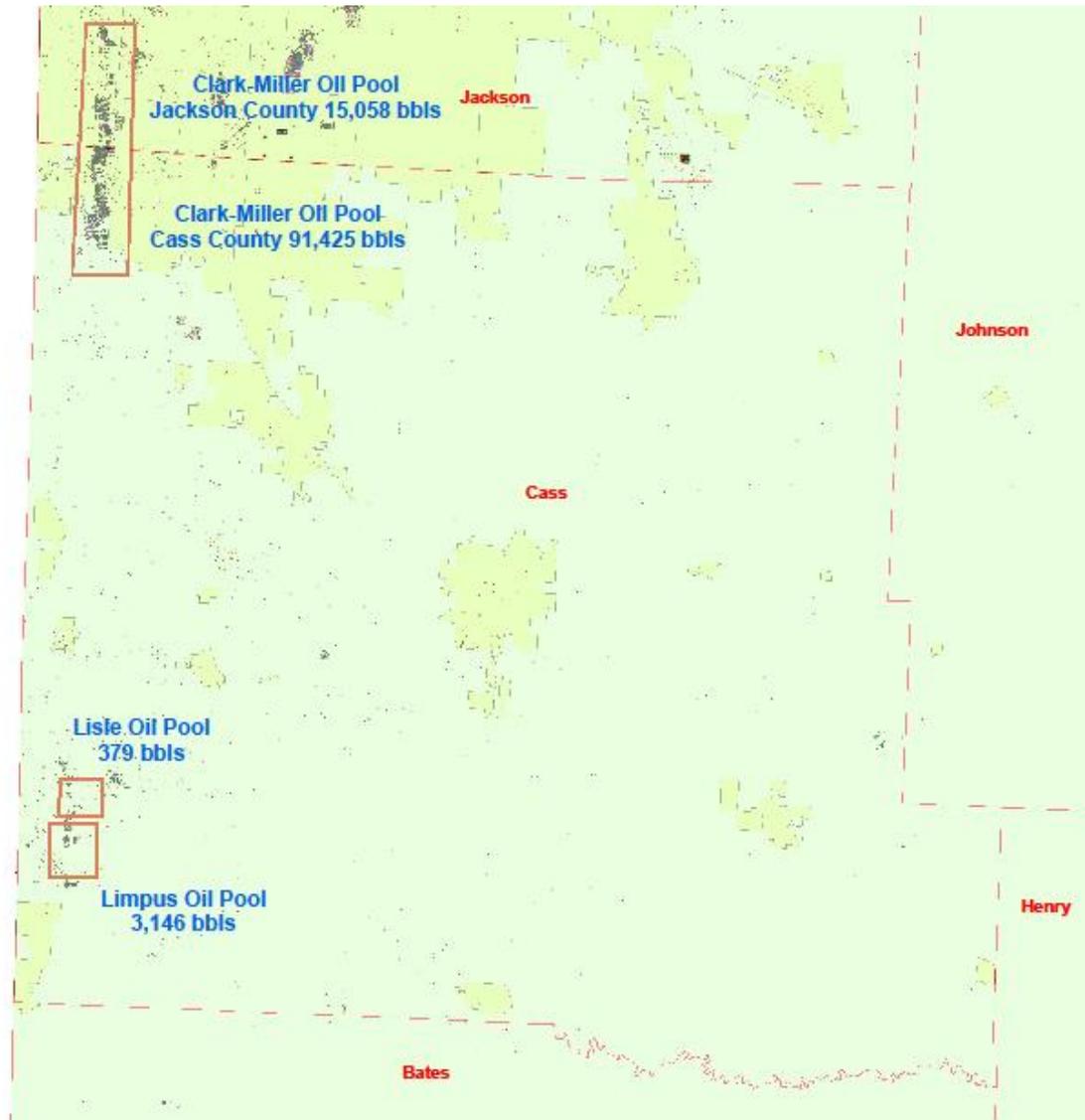
Missouri's Top Oil
Producing County

- **117,310 bbls**
- **60%** of the total oil
produced in Missouri

Clark-Miller Oil Pool

Missouri's Top
Oil Producing Pool

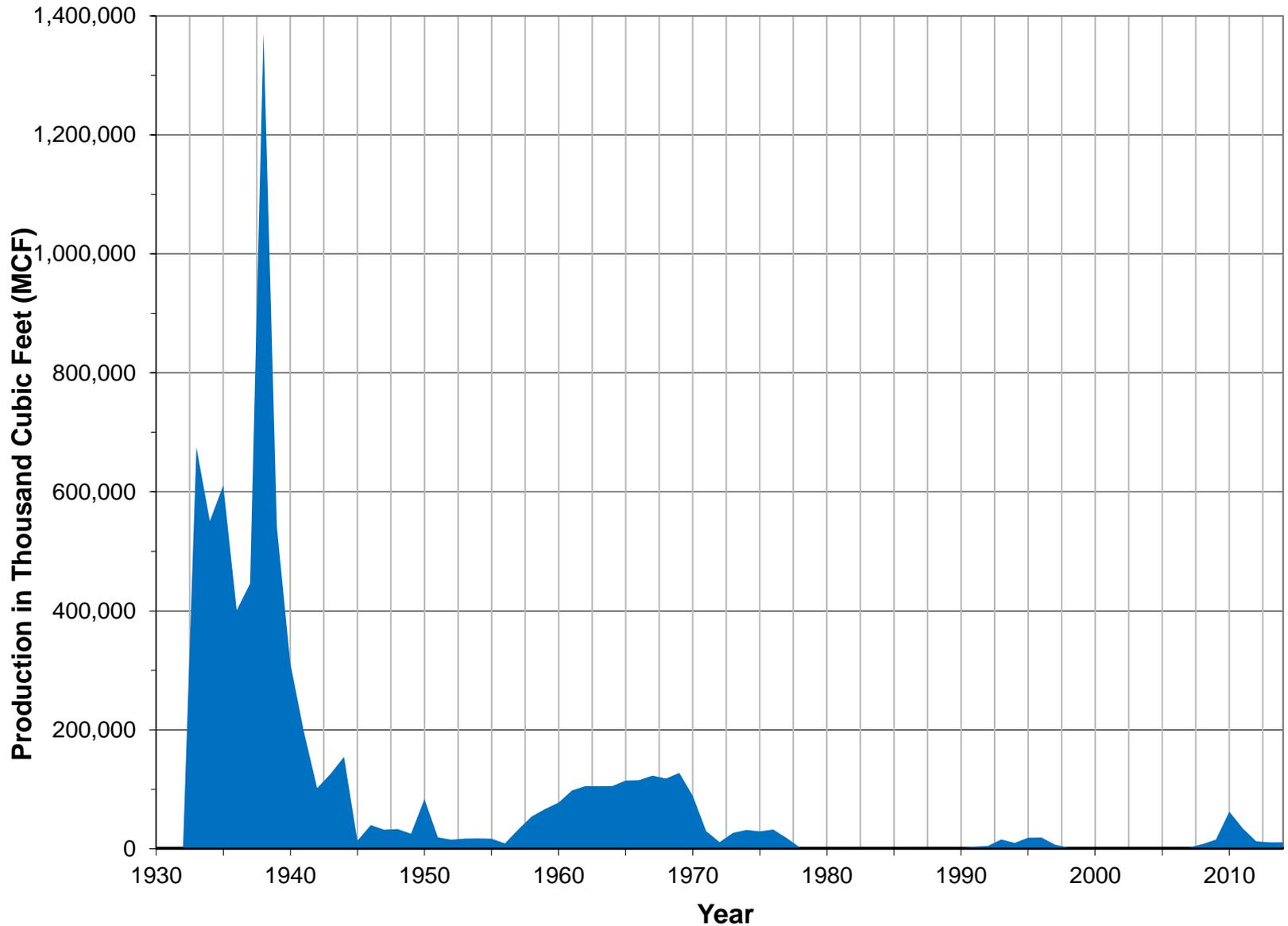
- **126,807 bbls**
- **65%** of total oil produced
in Missouri



Missouri's Commercial Gas Production in 2014

- **7** active producing commercial gas wells in 2014
- Over **8,777** MCF of gas produced
- Valued at over **\$36,249** Price per MCF averaged **\$4.13**
- **83%** in Vernon County, **17%** in Clinton
- **2** active company / 0 inactive

Historic Commercial Gas Production



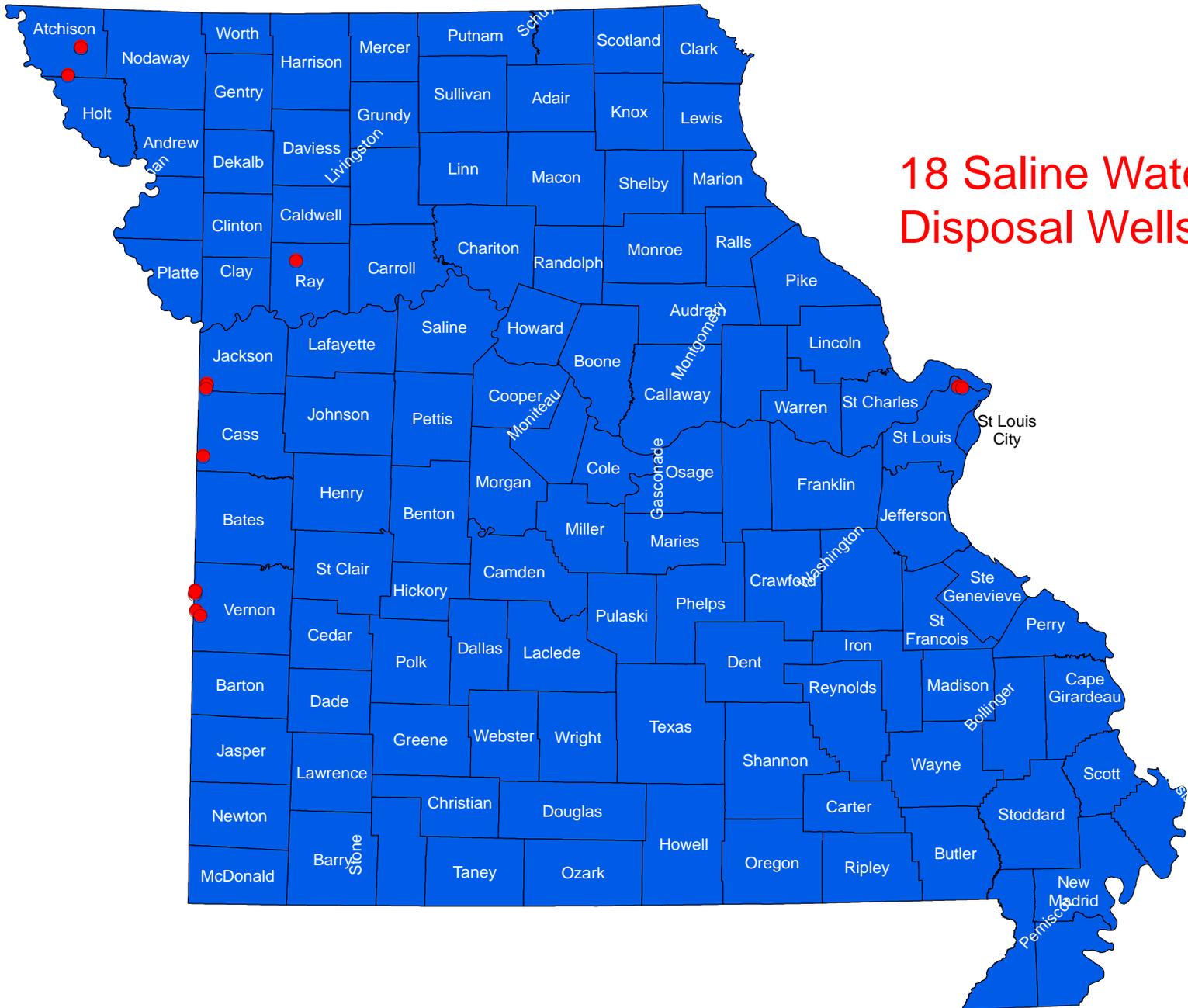
Missouri's Private Gas Wells

- **464** private gas wells
- **60** are active
 - **39** are in Cass County
- **404** wells with unknown status
- Five (**5**) counties have Active private gas wells
 - Cass, Clay, Clinton, Platte and Jackson
- Production reporting is exempted

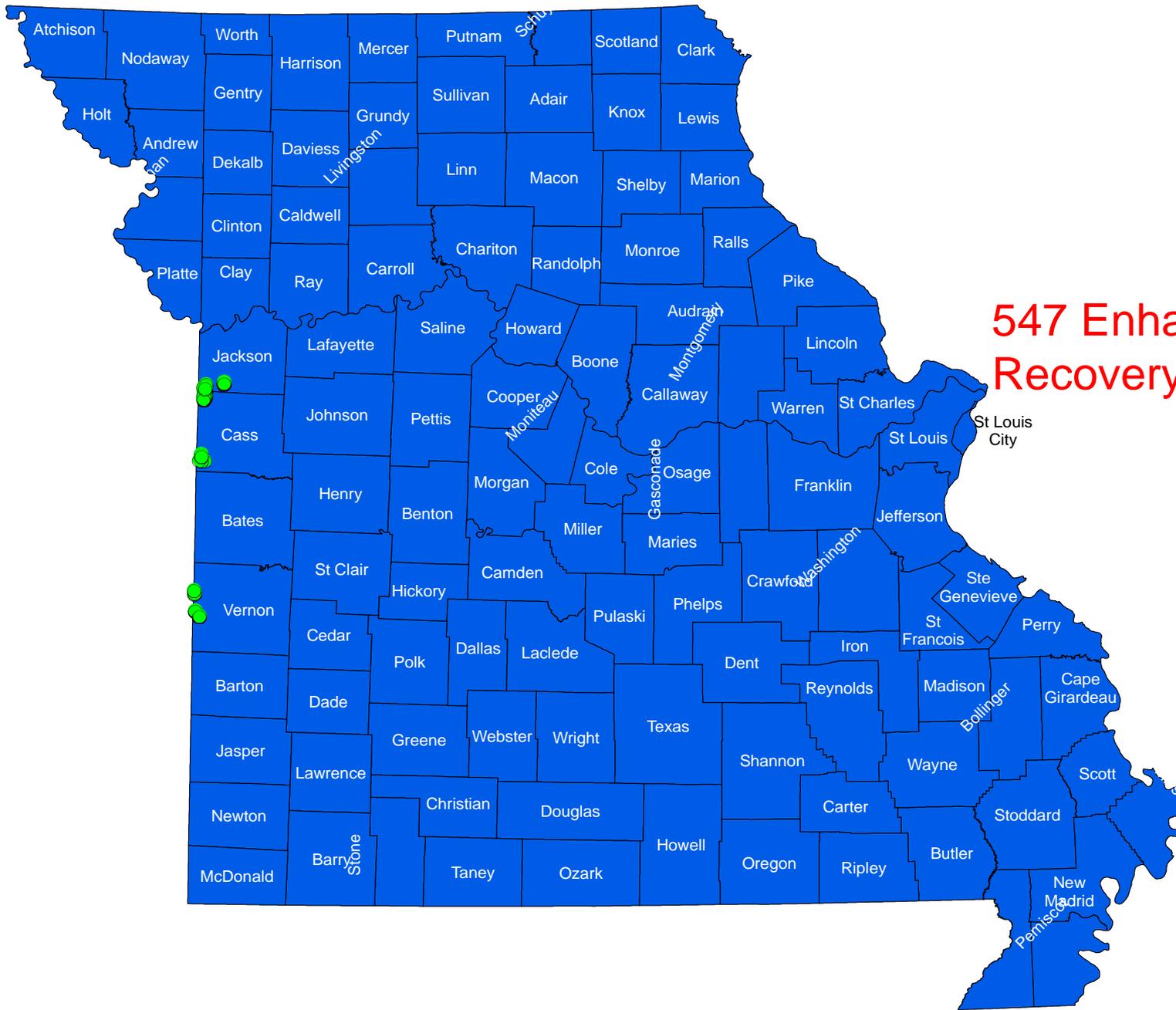


Class II Injection Wells

- Wells that inject fluids in connection with oil/gas production
 - Disposal of produced salt water
 - Injection of gas as a liquid in a storage project
 - Injection of fluids for enhance recovery
- Missouri has **565** Class II wells
 - Saline Water Disposal - **18**
 - Gas Storage – **54** (Technically UIC Class V Wells)
 - Enhanced Oil Recovery - **547**



18 Saline Water Disposal Wells

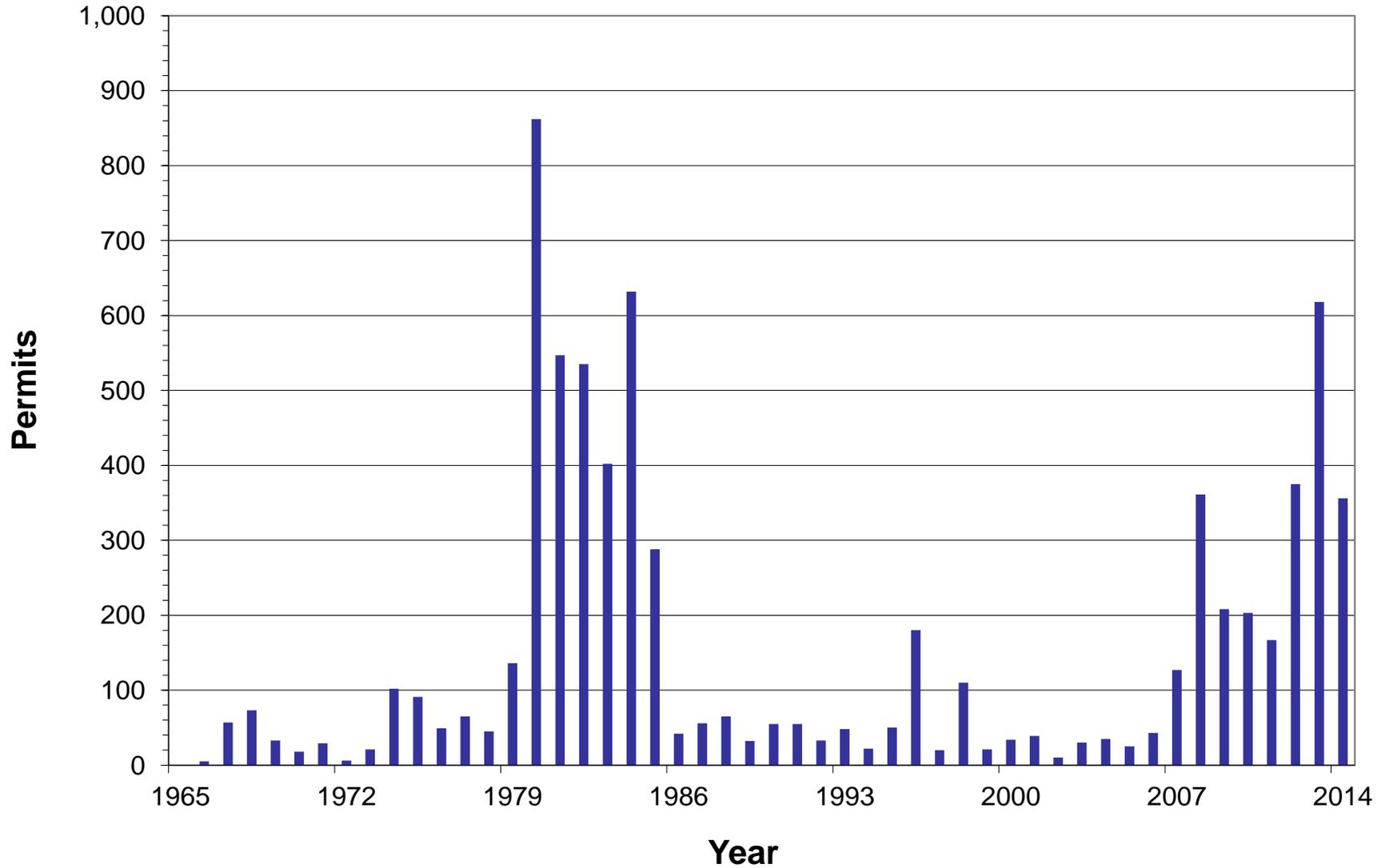


547 Enhanced Oil Recovery Wells

2014 Permits Issued by MGS

- Cass Cnty. (21) 9 TNT Energy LLC.
 7 S & B Operating LLC
 4 Kansas Resource Exploration & Development
 1 Plexus Group 1, Inc.
- Jackson Cnty. (1) 1 Barbra A. Giblin Revocable Trust
- Vernon Cnty. (229) 226 Murchison Oil & Gas, Inc.
 1 Palo Petroleum, Inc.
 1 Epic Oil Extractor
 1 Zero-CO₂, LLC
- Barton County (108) 108 Murchison Oil & Gas, Inc
- **Total Permits - 359**

Historic Permitting



2014 Permitted Well Types

Well Type	Total	Active	Under Construction	Shut-in	Temporarily Abandoned	Plugged	Cancelled
Oil Production	18	13	0	0	0	1	4
Injection EOR	5	5	0	0	0	0	0
Injection SWD	1	1	0	0	0	0	0
Stratigraphic Test	335	0	0	0	0	335	0
Observation Well	0	0	0	0	0	0	0
Private Gas	0	0	0	0	0	0	0
Commercial Gas	0	0	0	0	0	0	0
Total	359	19	0	0	0	336	4

Missouri Wells Plugged

(oil/gas/injection/stratigraphic test)

2011	Wells Plugged	34
2012	Wells Plugged	44
2013	Wells Plugged	348
2014	Wells Plugged	354

Mechanical Integrity Tests & Lease Visits

- MIT were performed on **20** wells total in 2014.
- MGS staff witnessed **12** (60%) of all MIT conducted.
- **9** lease visits were performed in 2014
- Prepped and plugged **0** abandoned wells with O&G remedial funds
- The unit responded to over **1,229** oil/gas phone calls and inquiries during 2014.

Oil and Gas Remedial Fund Balance on 03/15/15

\$52,600

Includes Funds to plug Osborn Energy Wells

**Total Bonding Held as of
03/15/15**

\$1,709,899



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

