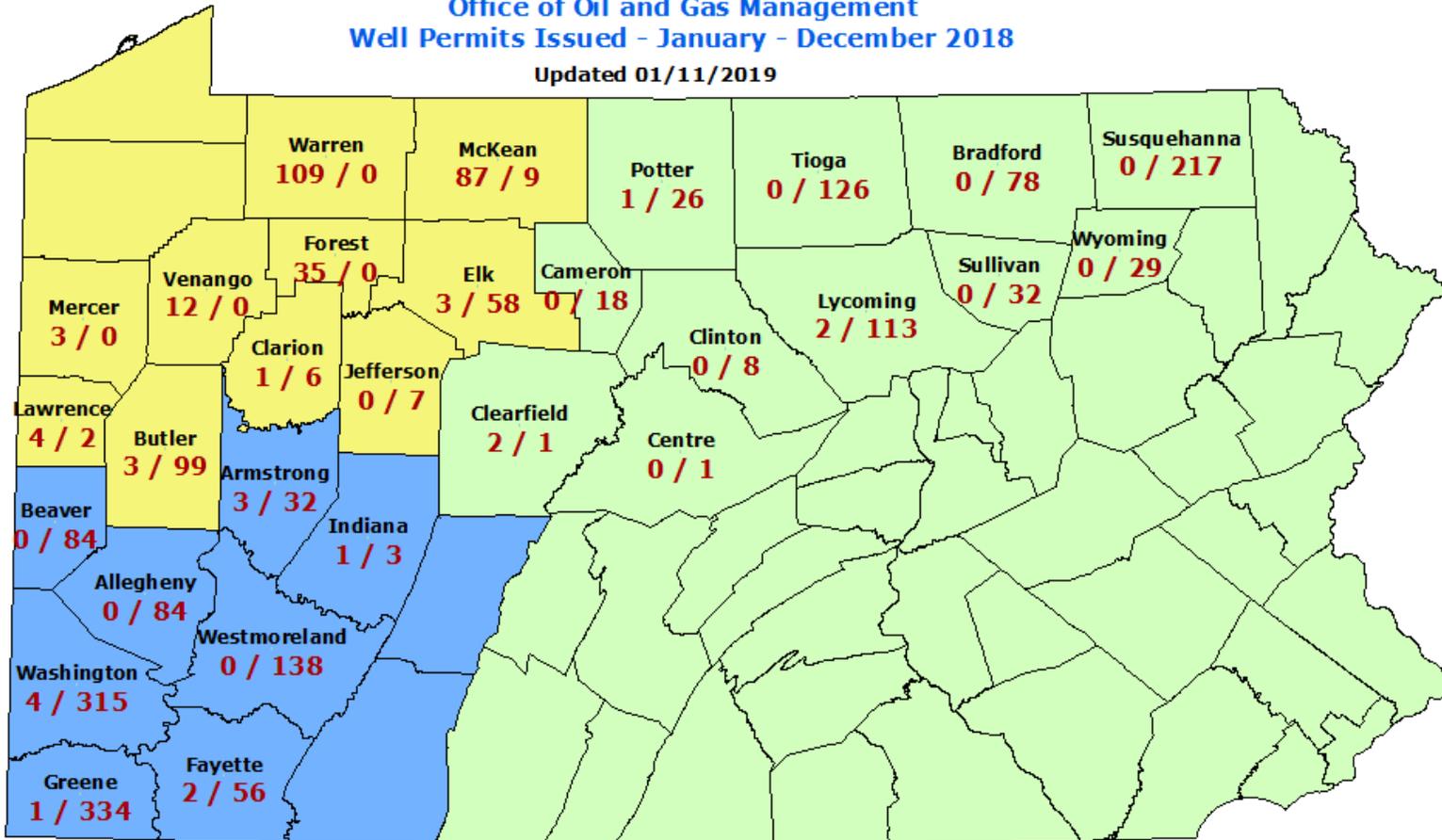


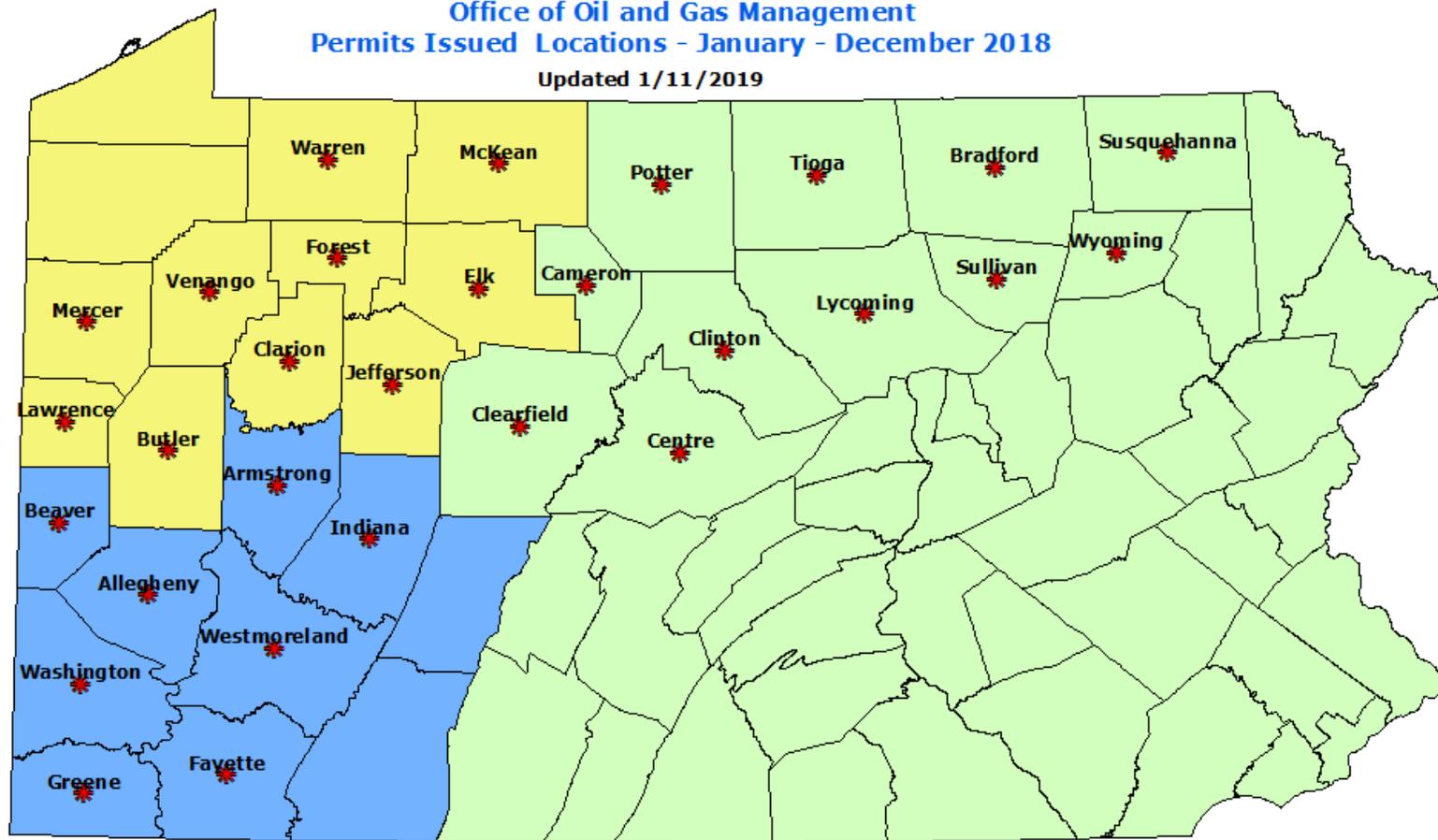
Department of Environmental Protection  
Office of Oil and Gas Management  
Well Permits Issued - January - December 2018

Updated 01/11/2019



Conventional - 273 + Unconventional - 1876 = Total - 2149

Department of Environmental Protection  
Office of Oil and Gas Management  
Permits Issued Locations - January - December 2018  
Updated 1/11/2019



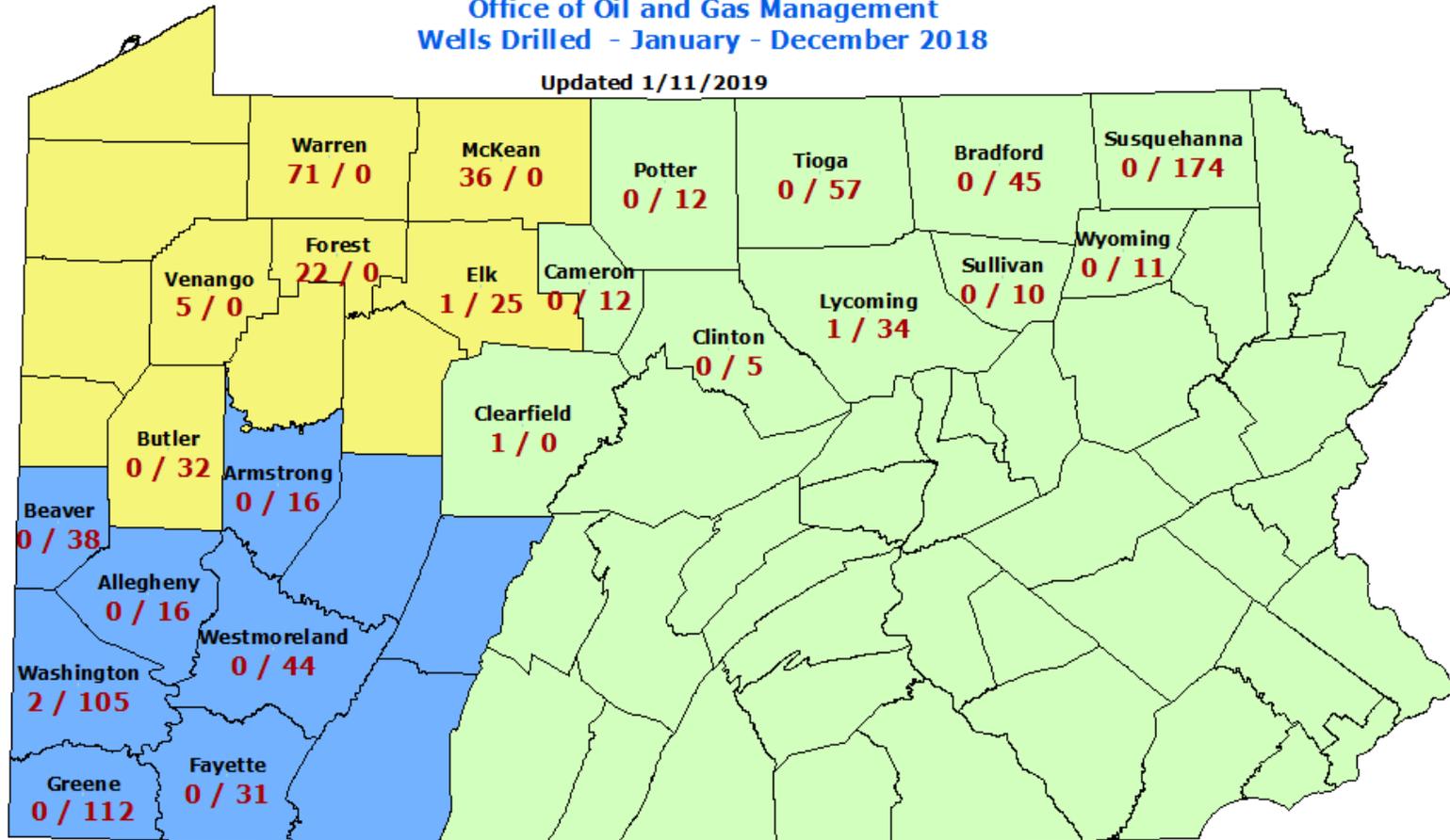
\* Conventional Wells

\* Unconventional Wells

Conventional - 273 + Unconventional - 1876 = Total - 2149

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January - December 2018

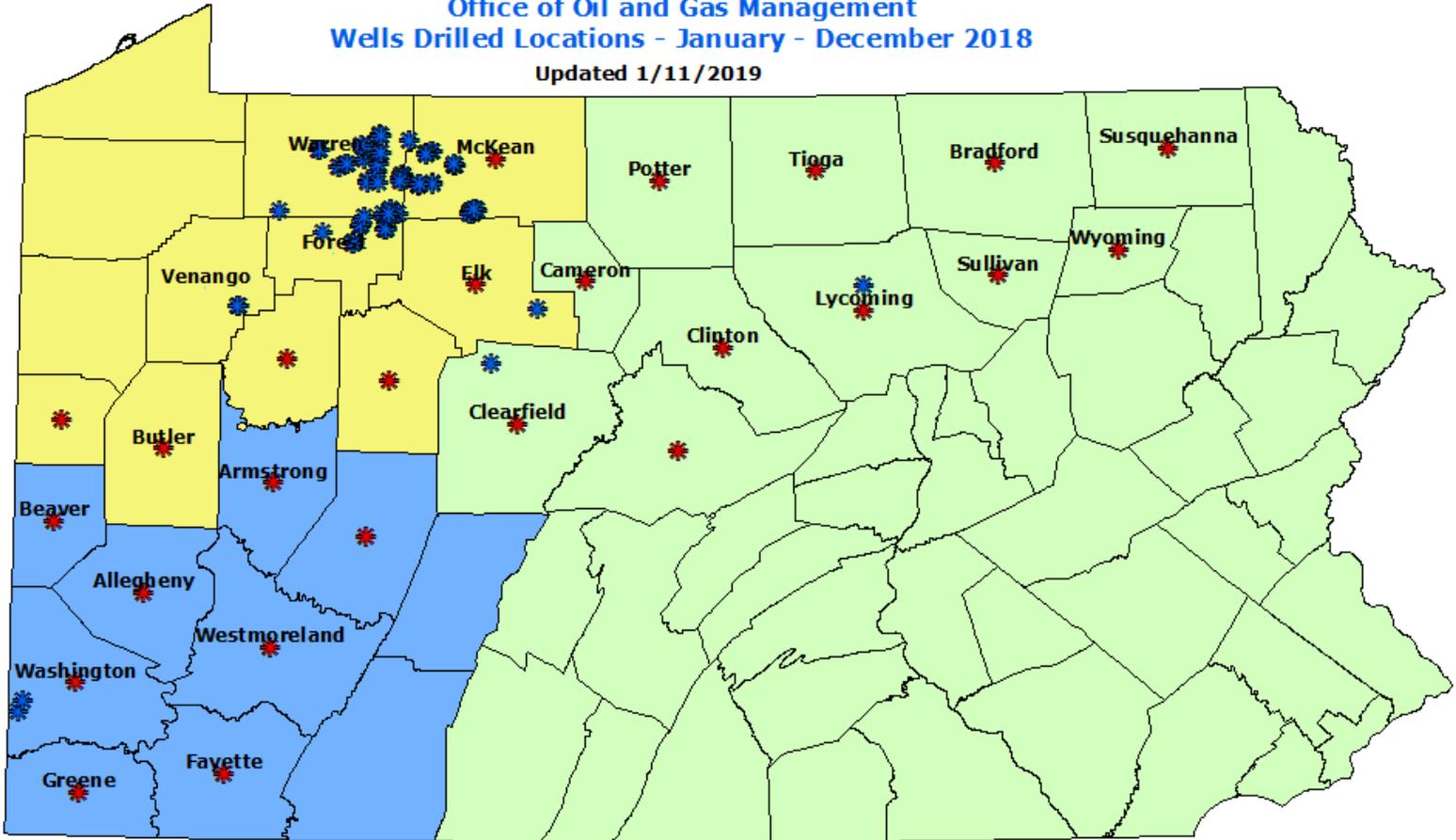
Updated 1/11/2019



(Conventional) - 139 + (Unconventional) - 779 = Total - 918

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January - December 2018

Updated 1/11/2019



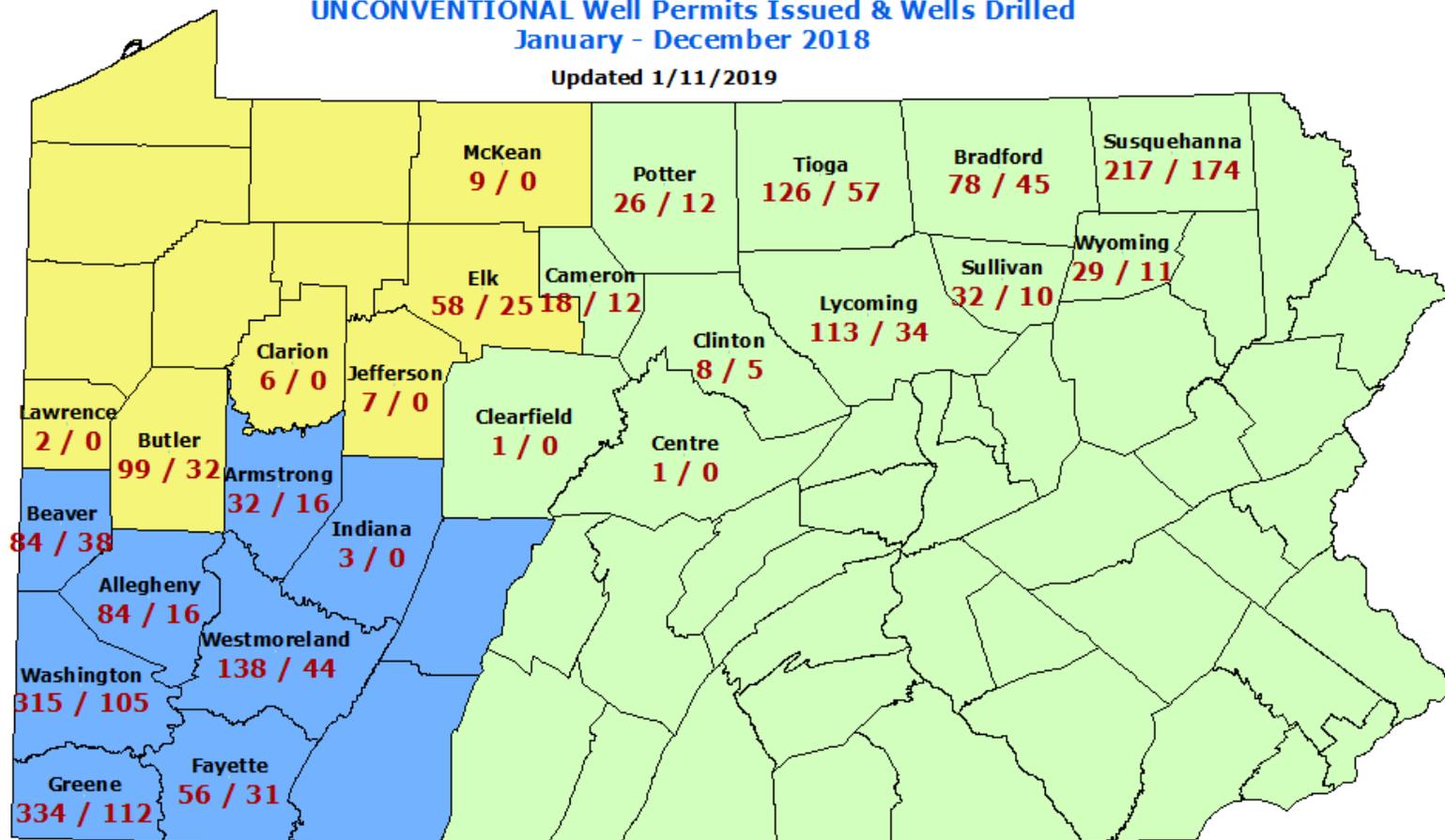
 Conventional Wells

 Unconventional Wells

(Conventional) - 139 + (Unconventional) - 779 = Total - 918

Department of Environmental Protection  
 Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
 January - December 2018

Updated 1/11/2019

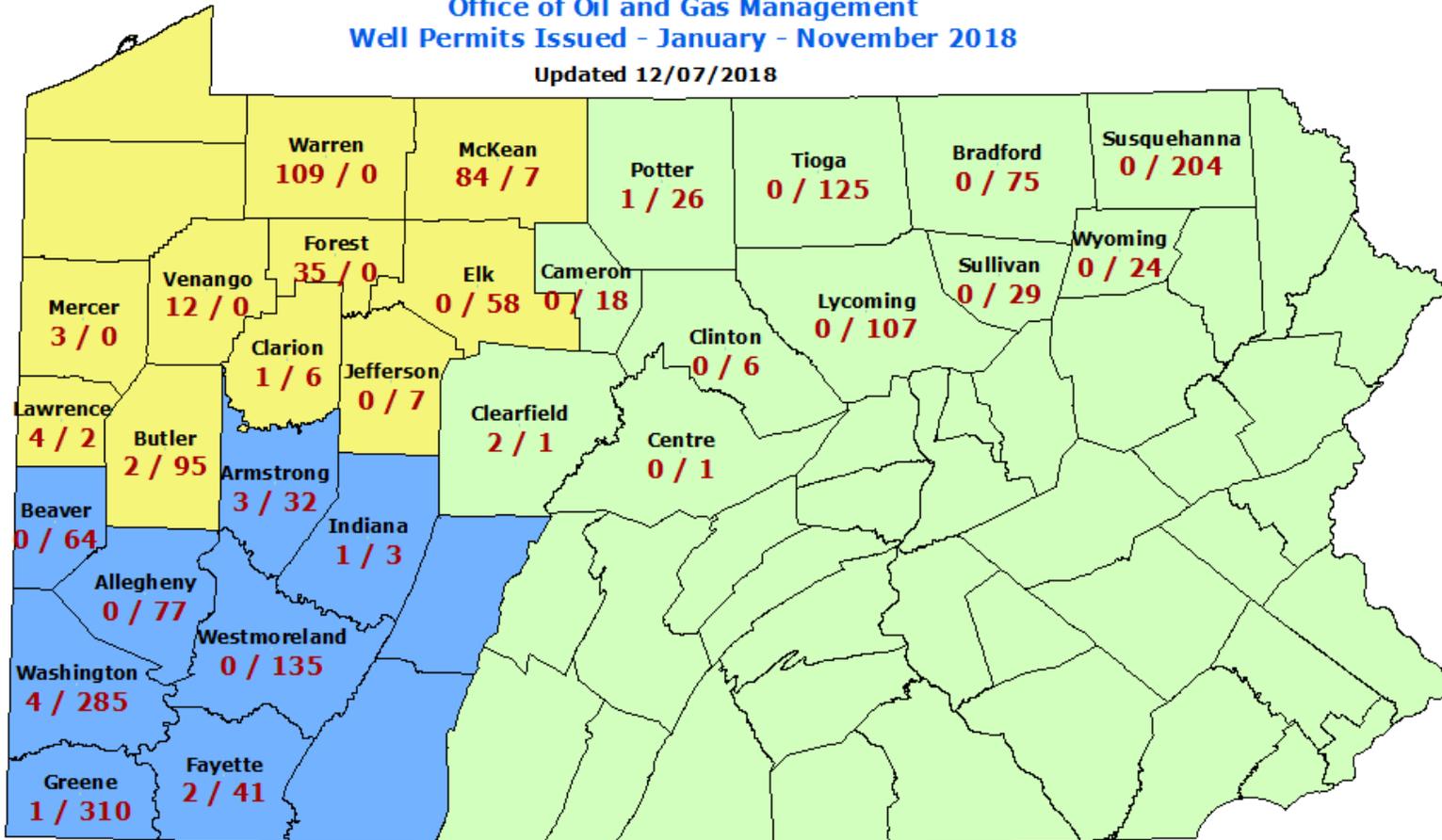


Unconventional Permits Issued - 1876    Unconventional Wells Drilled - 779



Department of Environmental Protection  
 Office of Oil and Gas Management  
 Well Permits Issued - January - November 2018

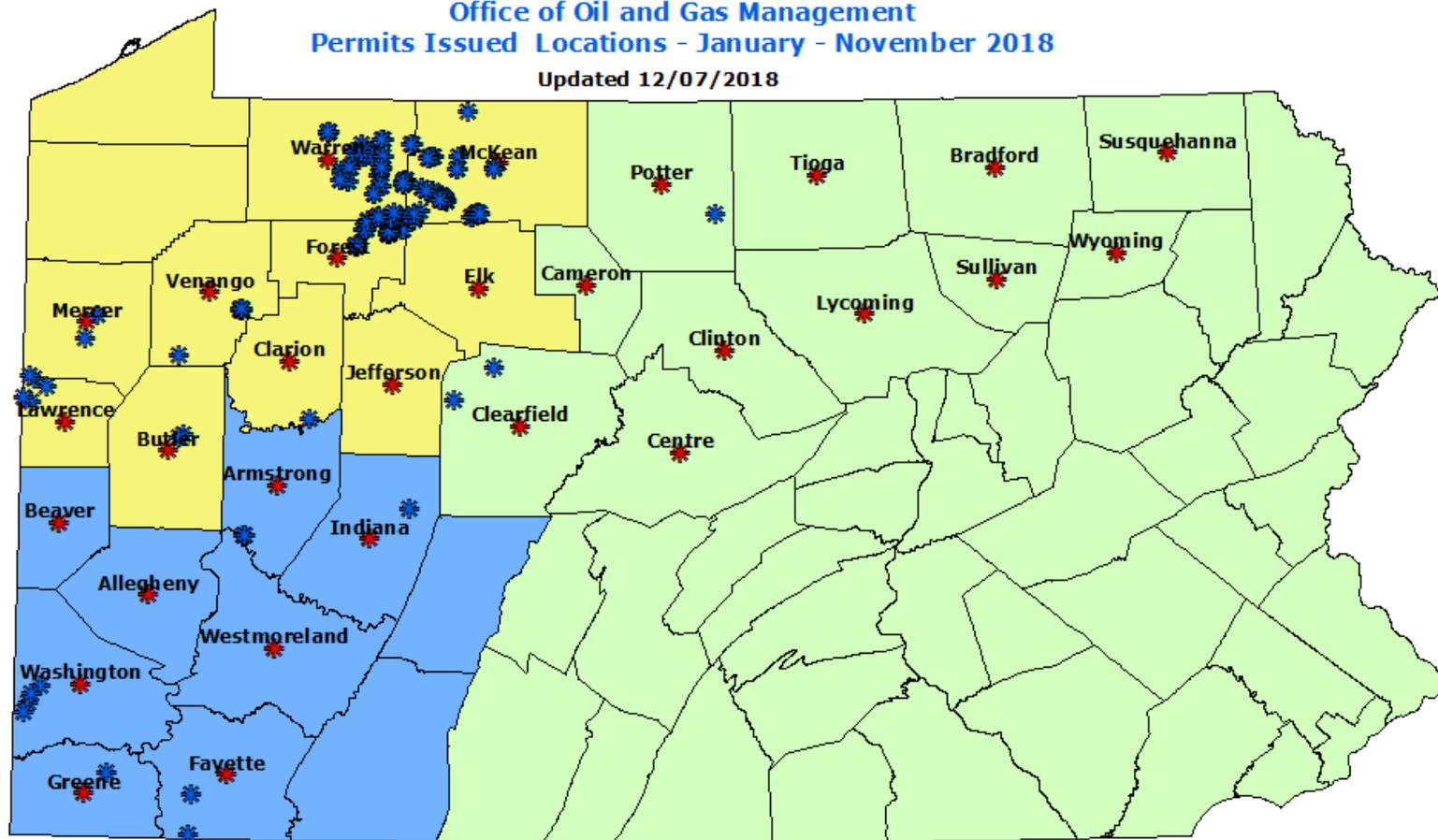
Updated 12/07/2018



Conventional - 264 + Unconventional - 1738 = Total - 2002

Department of Environmental Protection  
Office of Oil and Gas Management  
Permits Issued Locations - January - November 2018

Updated 12/07/2018



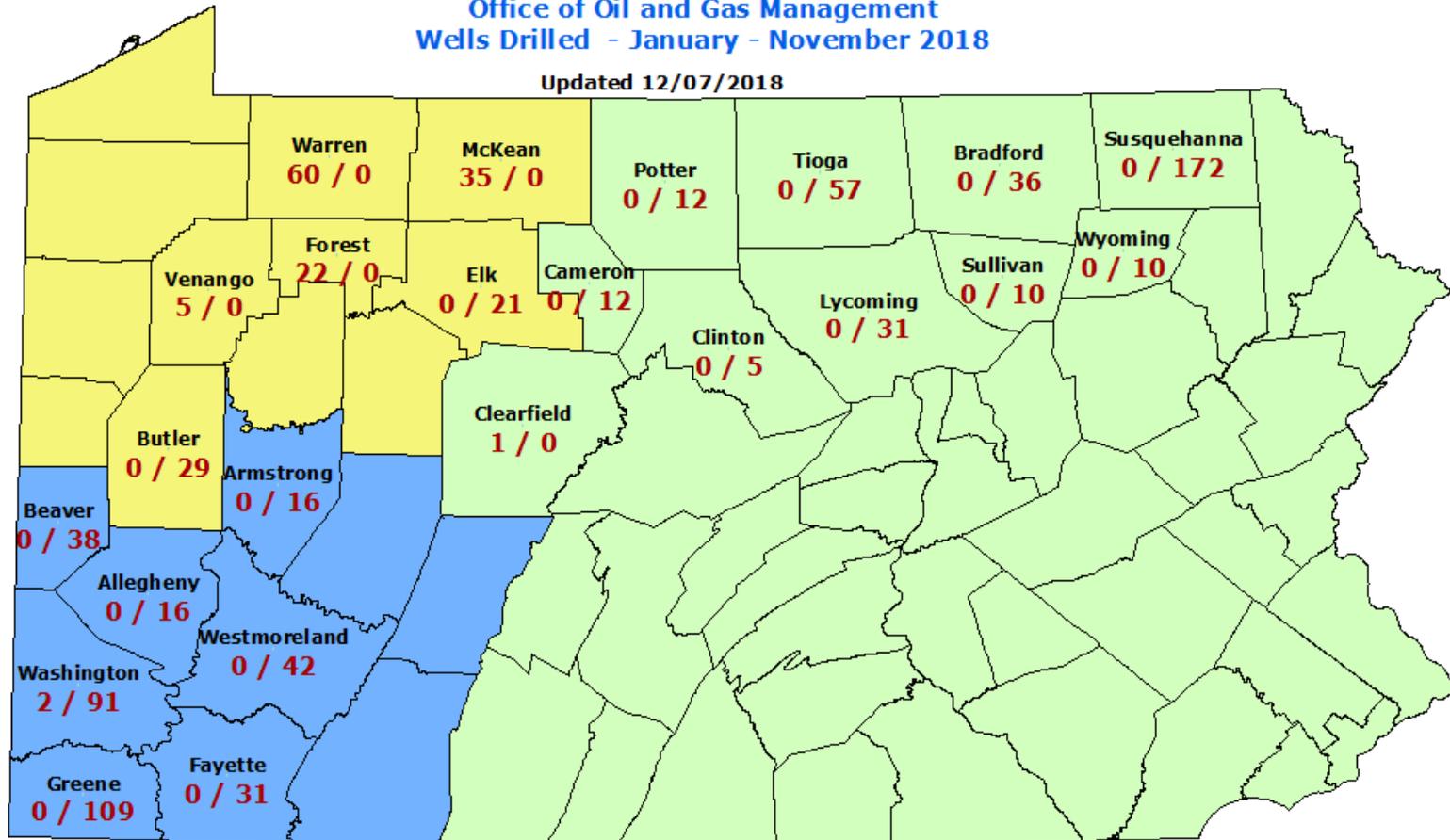
\* Conventional Wells

\* Unconventional Wells

Conventional - 264 + Unconventional - 1738 = Total - 2002

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January - November 2018

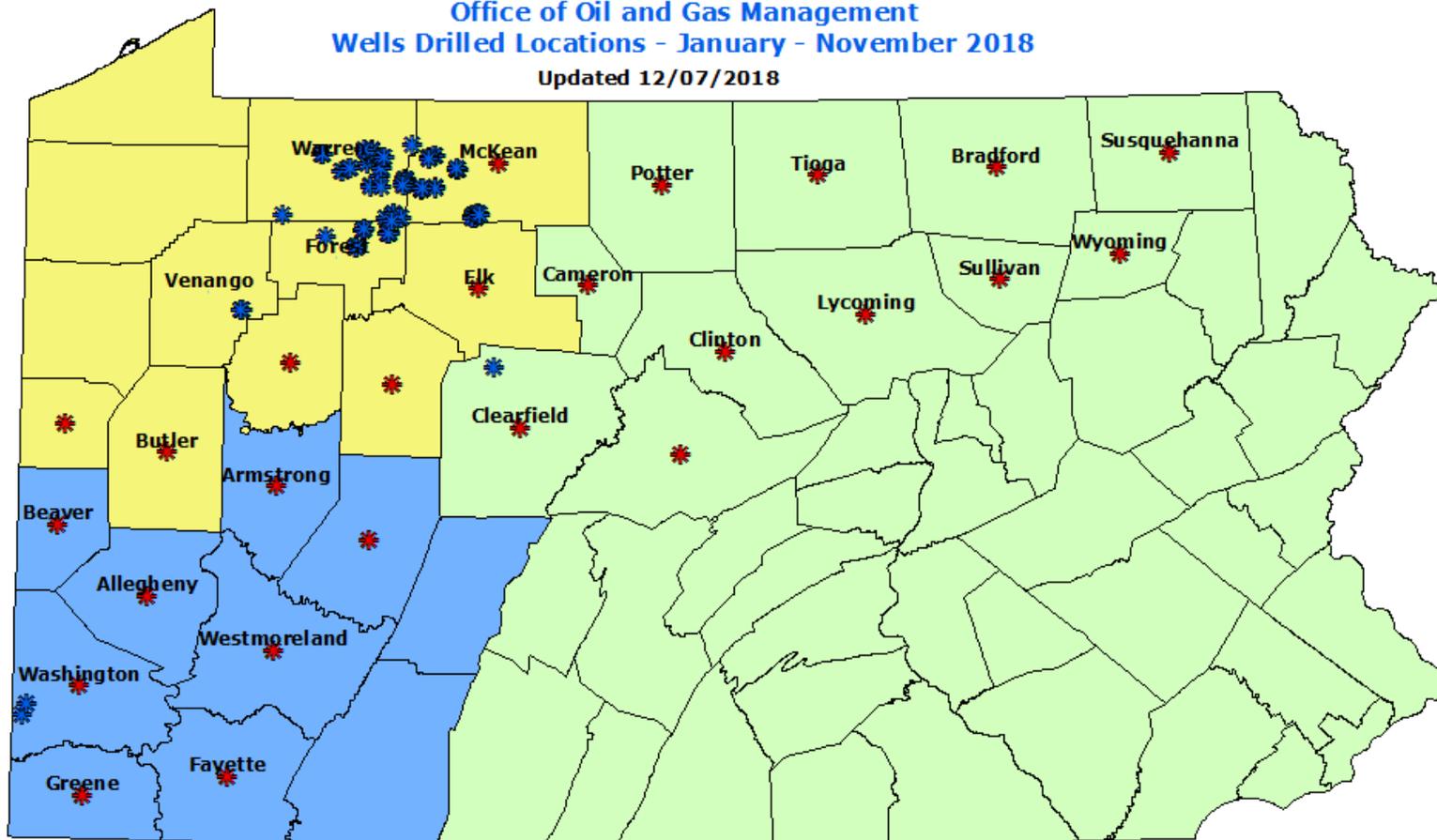
Updated 12/07/2018



(Conventional) - 125 + (Unconventional) - 738 = Total - 863

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January - November 2018

Updated 12/07/2018



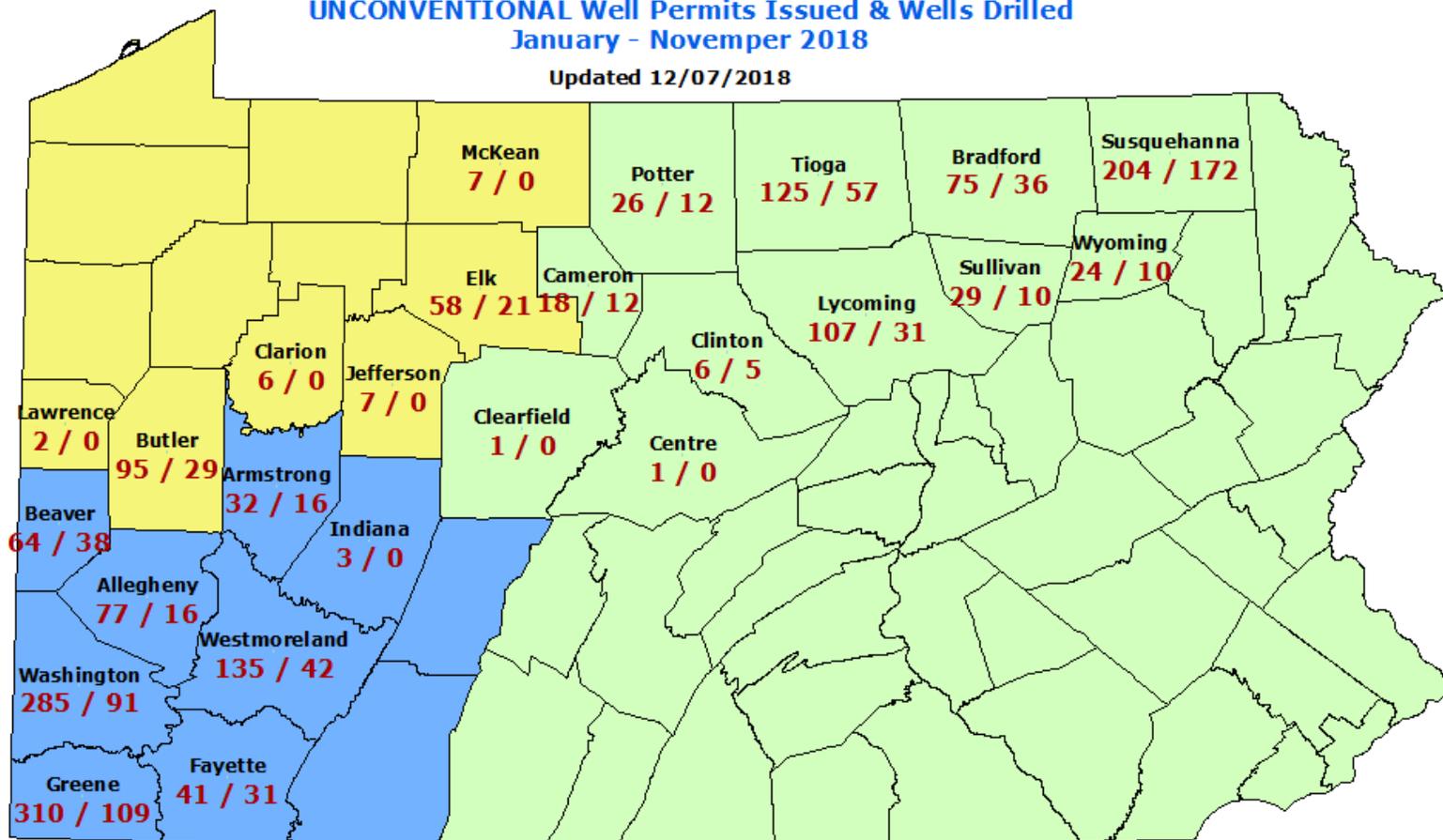
 Conventional Wells

 Unconventional Wells

(Conventional) - 125 + (Unconventional) - 738 = Total - 863

Department of Environmental Protection  
 Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
 January - November 2018

Updated 12/07/2018

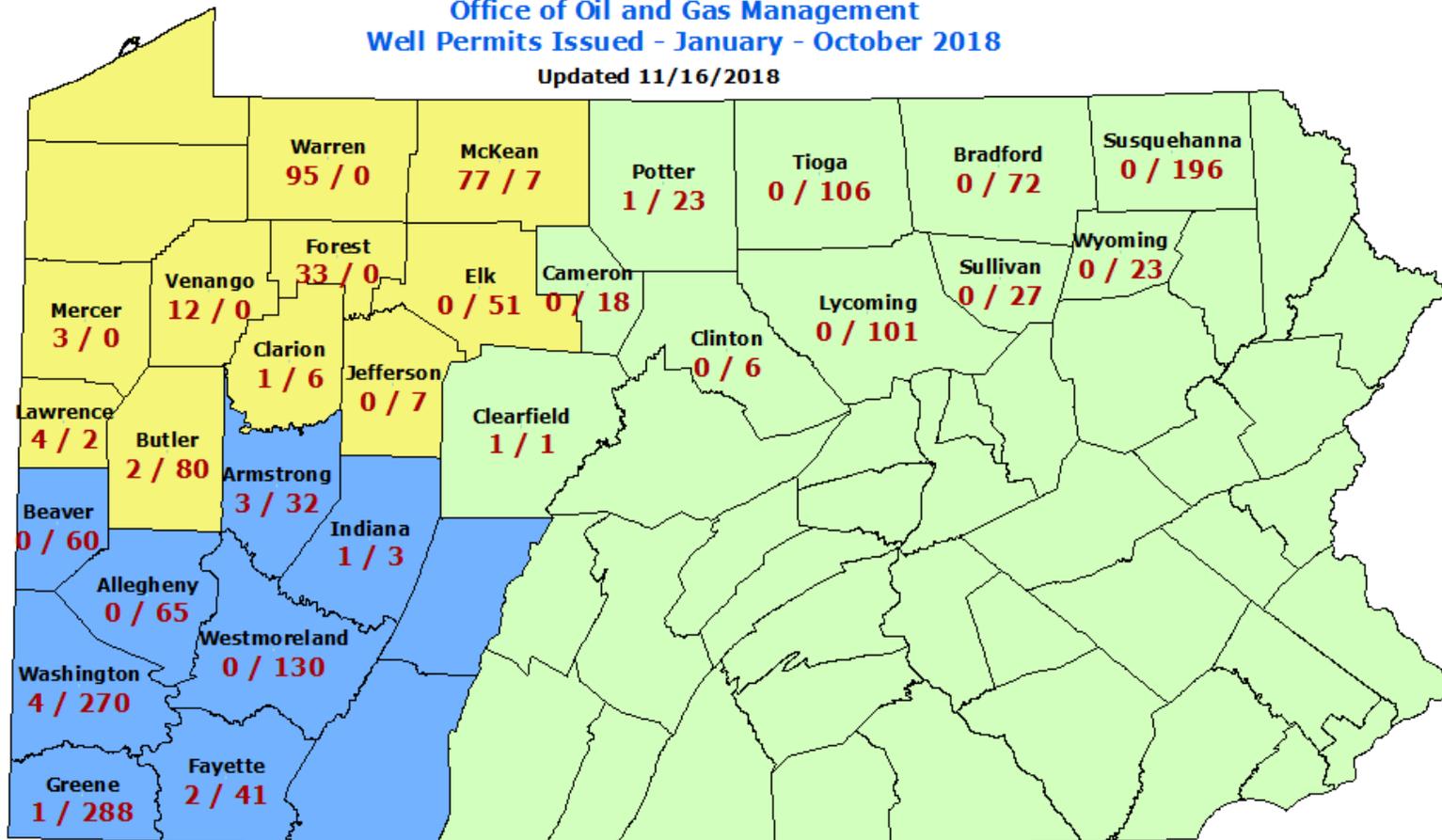


Unconventional Permits Issued - 1738    Unconventional Wells Drilled - 738



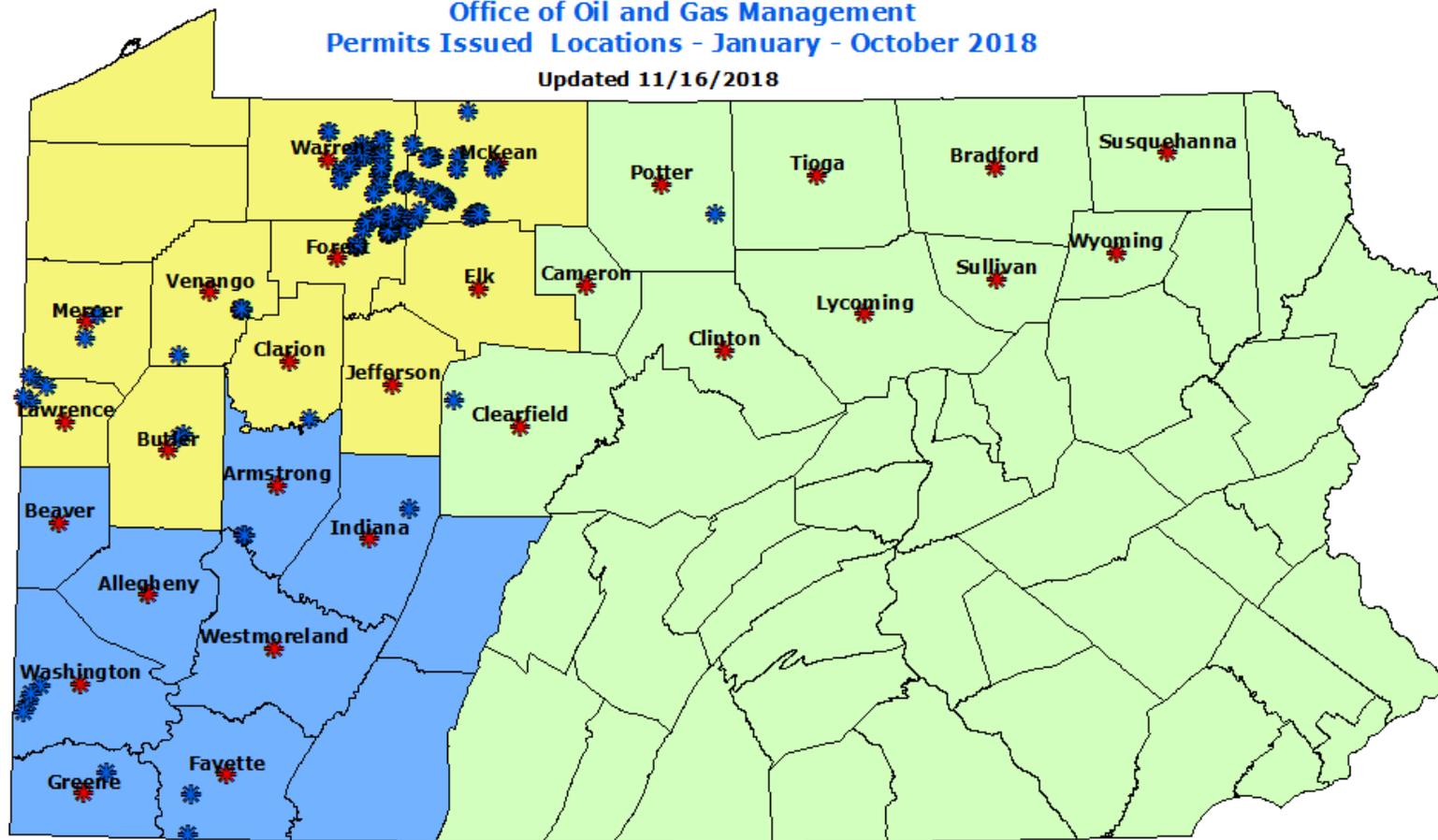
Department of Environmental Protection  
Office of Oil and Gas Management  
Well Permits Issued - January - October 2018

Updated 11/16/2018



Conventional - 240 + Unconventional - 1615 = Total - 1855

Department of Environmental Protection  
Office of Oil and Gas Management  
Permits Issued Locations - January - October 2018  
Updated 11/16/2018



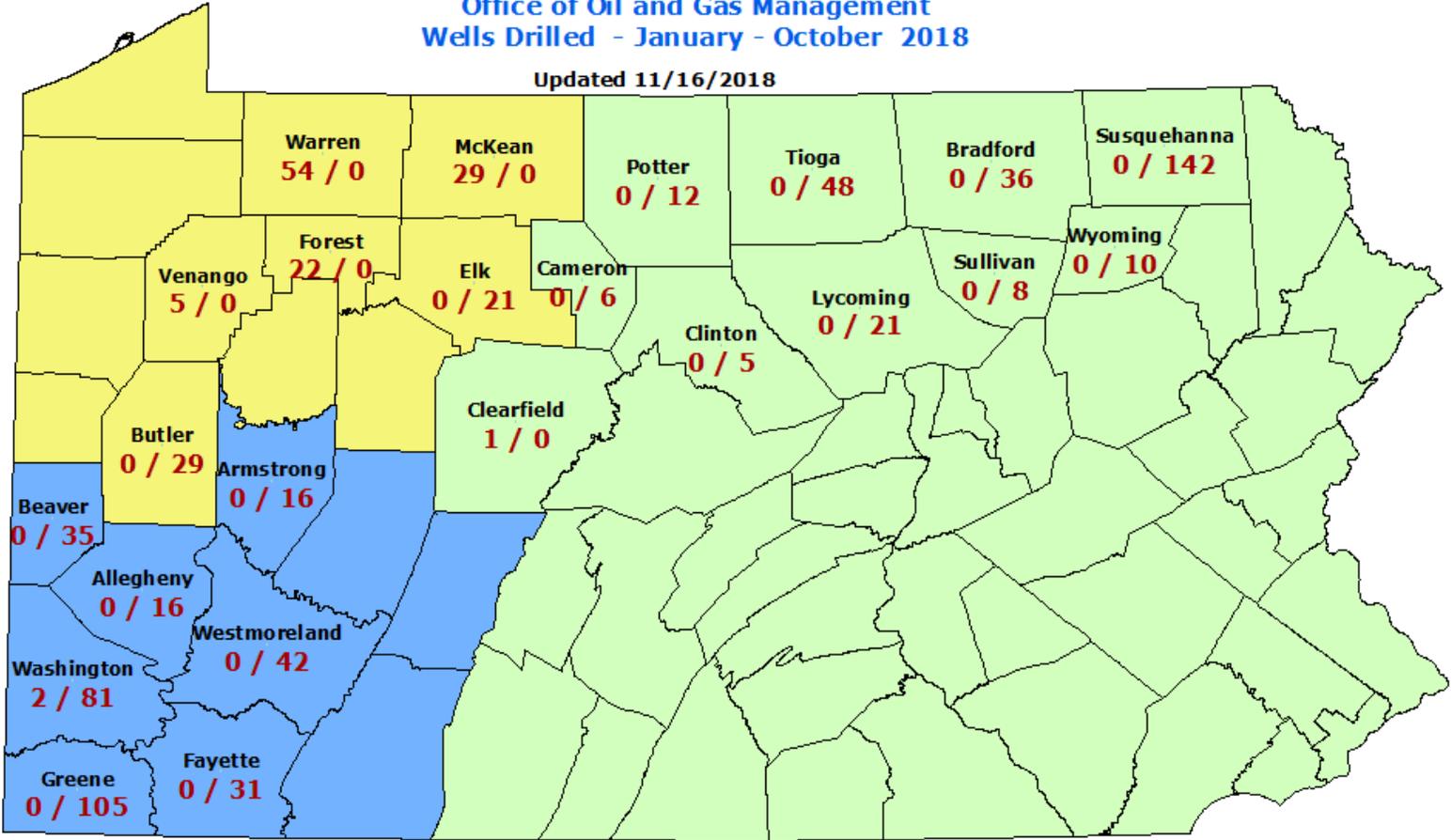
\* Conventional Wells

\* Unconventional Wells

Conventional - 240 + Unconventional - 1615 = Total - 1855

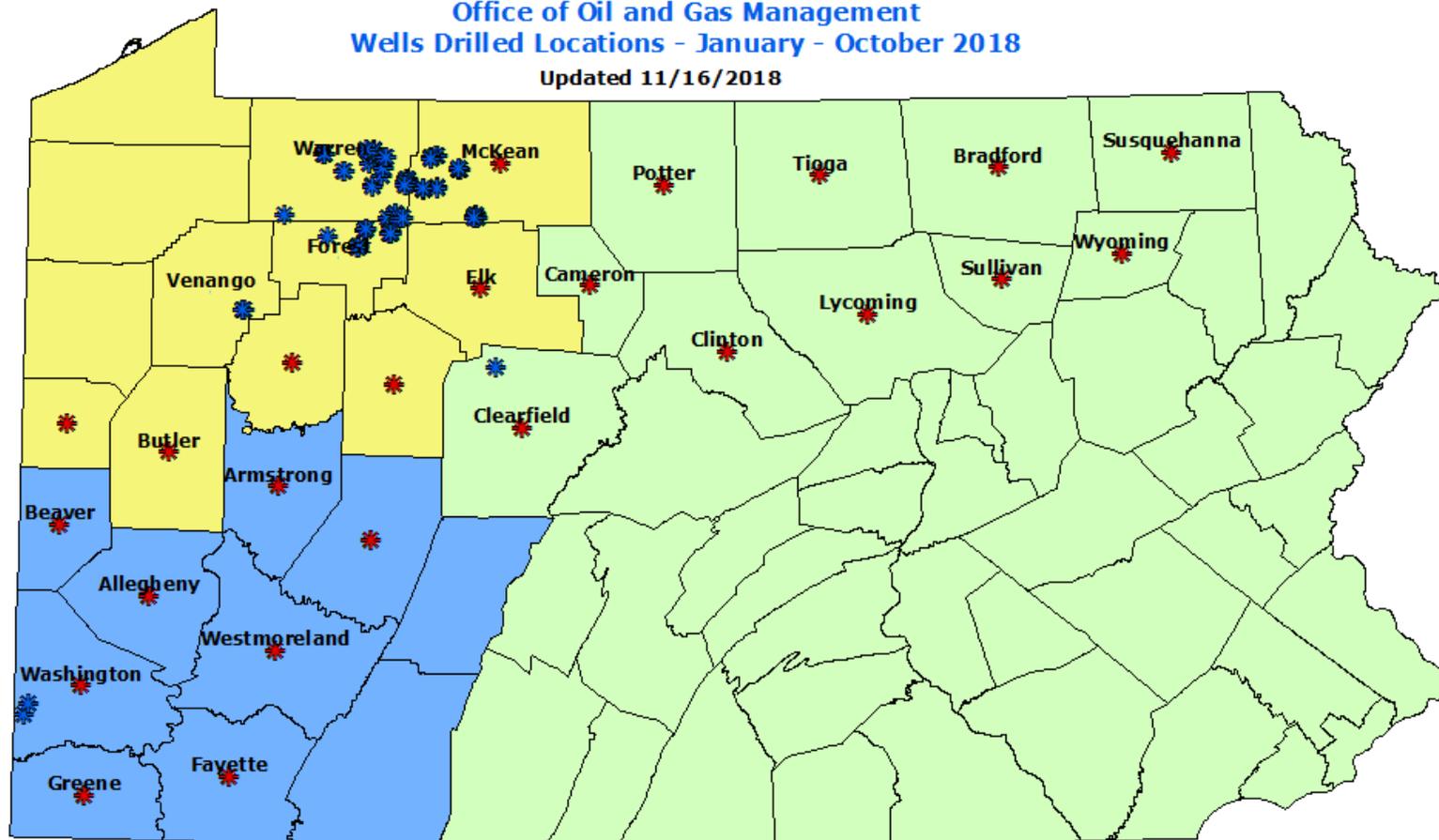
Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January - October 2018

Updated 11/16/2018



(Conventional) - 113 + (Unconventional) - 664 = Total - 777

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January - October 2018  
Updated 11/16/2018



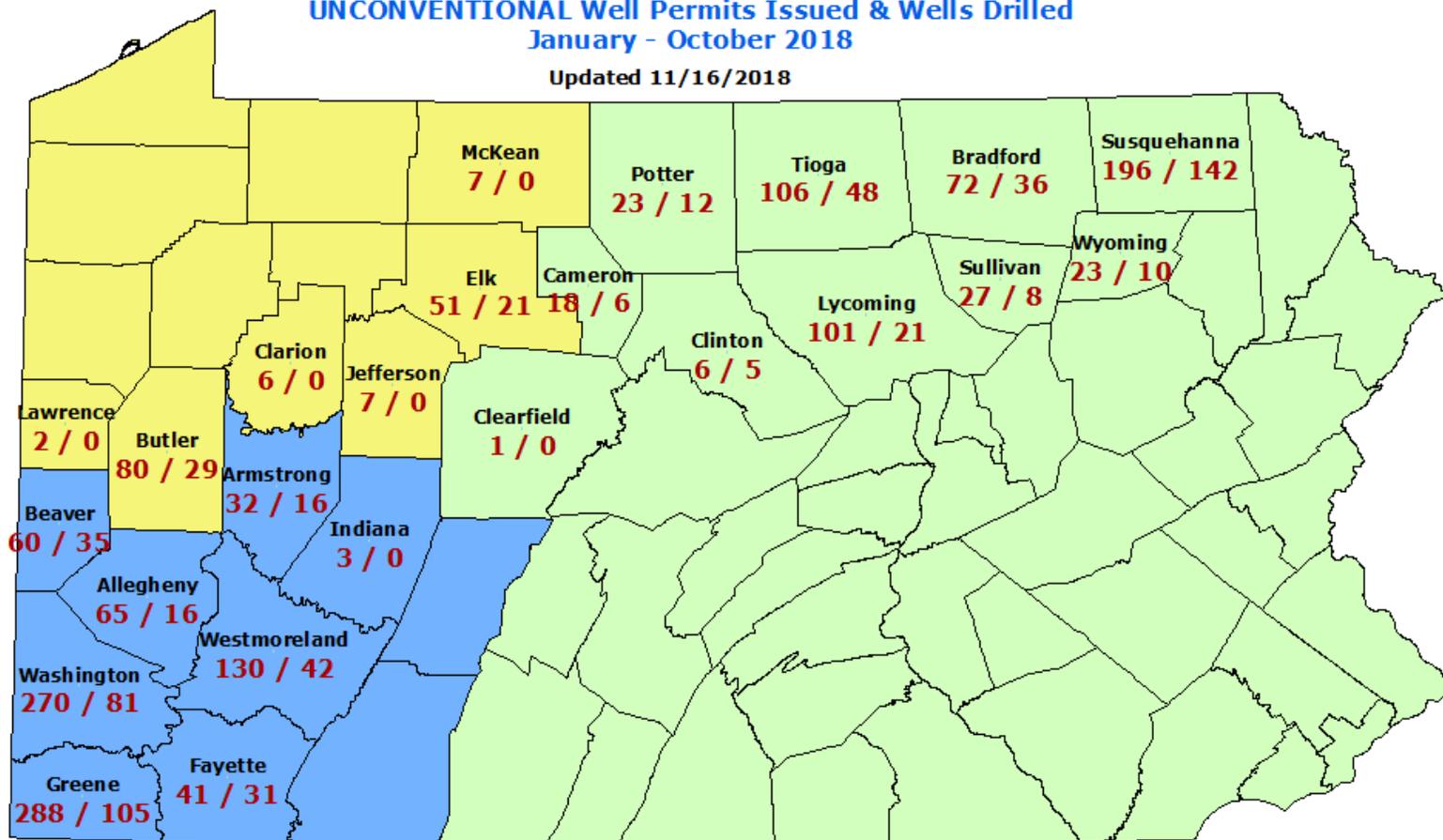
 Conventional Wells

 Unconventional Wells

(Conventional) - 113 + (Unconventional) - 664 = Total - 777

Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - October 2018

Updated 11/16/2018

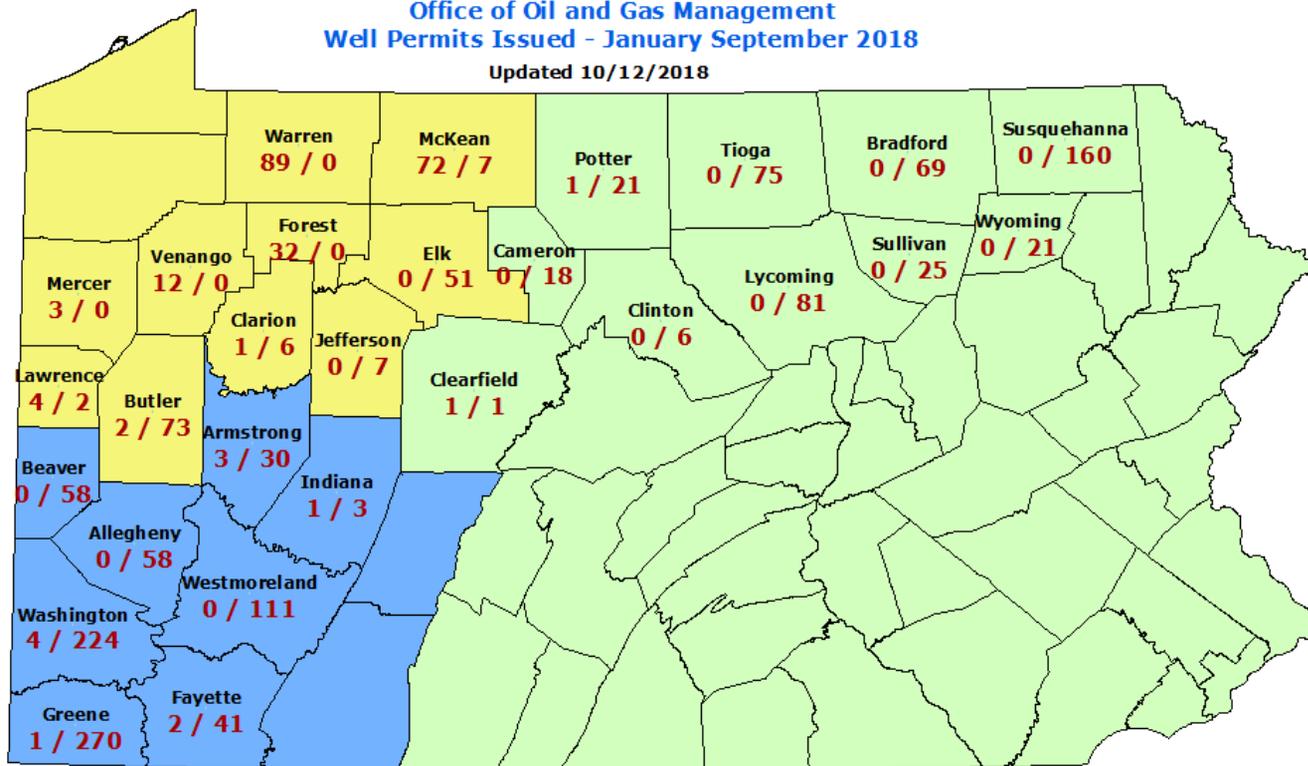


Unconventional Permits Issued - 1615    Unconventional Wells Drilled - 664



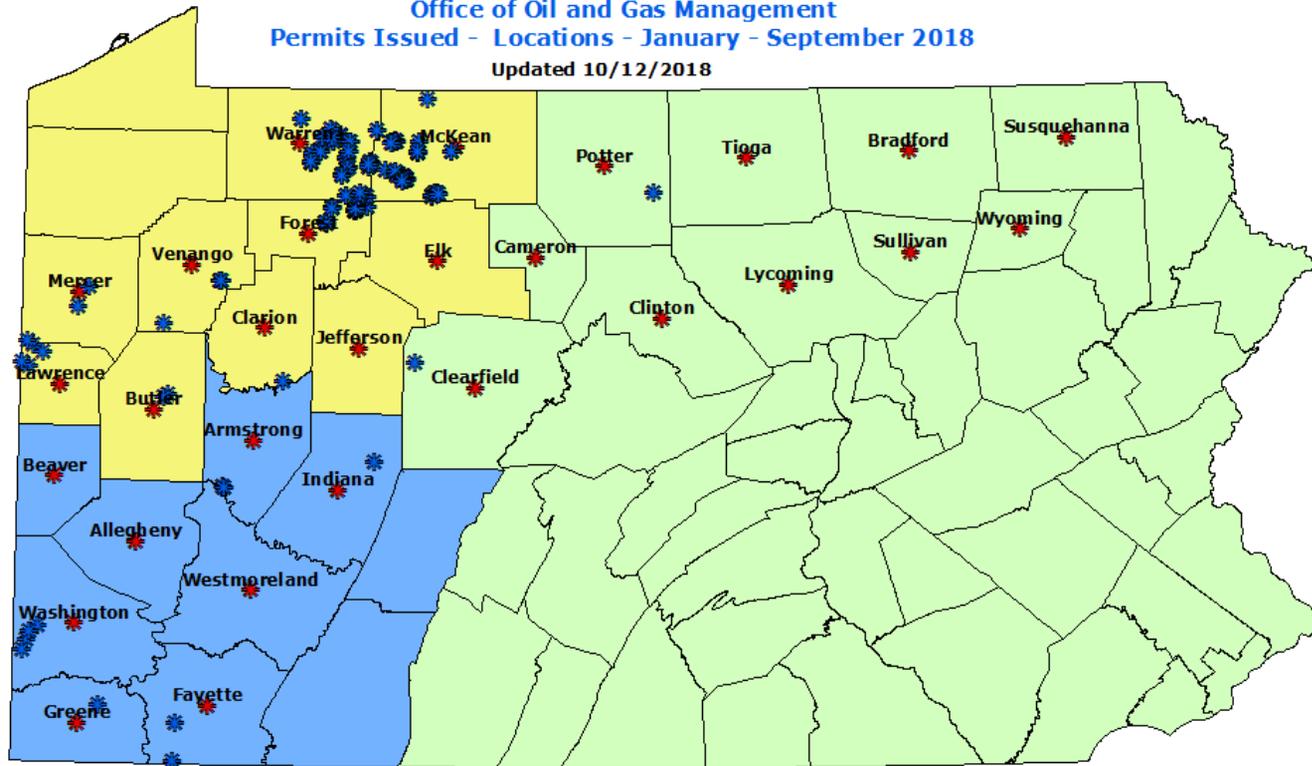
Department of Environmental Protection  
Office of Oil and Gas Management  
Well Permits Issued - January September 2018

Updated 10/12/2018



Conventional - 228 + Unconventional - 1418 = Total - 1646

Department of Environmental Protection  
Office of Oil and Gas Management  
Permits Issued - Locations - January - September 2018  
Updated 10/12/2018



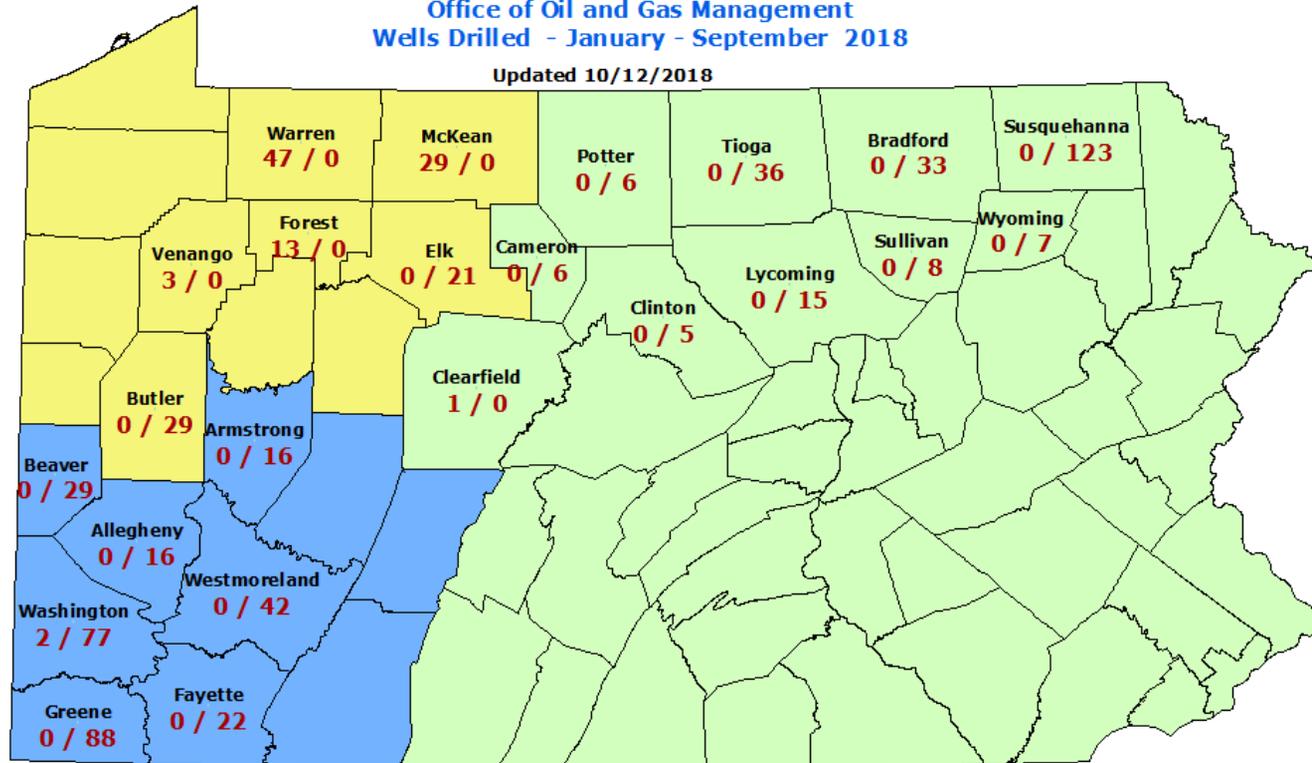
\* Conventional Wells

\* Unconventional Wells

Conventional - 228 + Unconventional - 1418 = Total - 1646

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January - September 2018

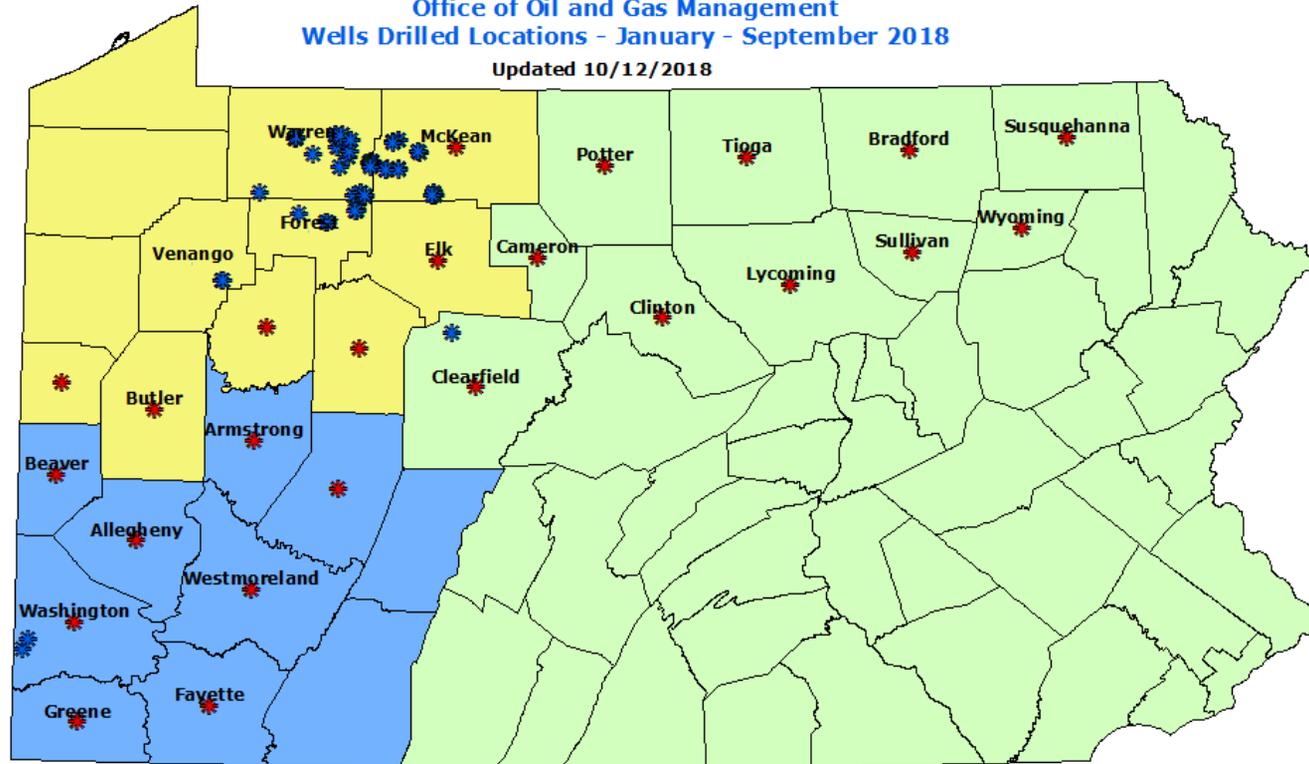
Updated 10/12/2018



(Conventional) - 95 + (Unconventional) - 579 = Total - 674

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January - September 2018

Updated 10/12/2018



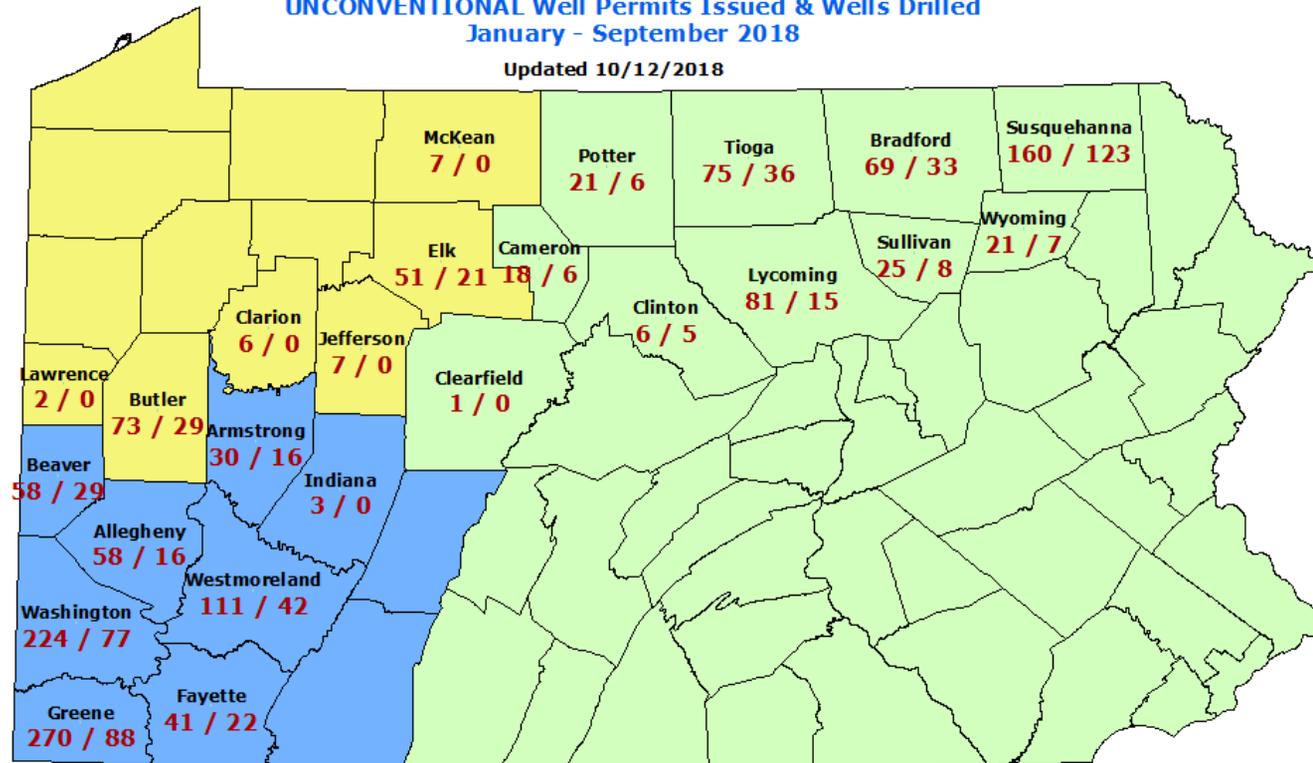
\* Conventional Wells

\* Unconventional Wells

(Conventional) - 95 + (Unconventional) - 579 = Total - 674

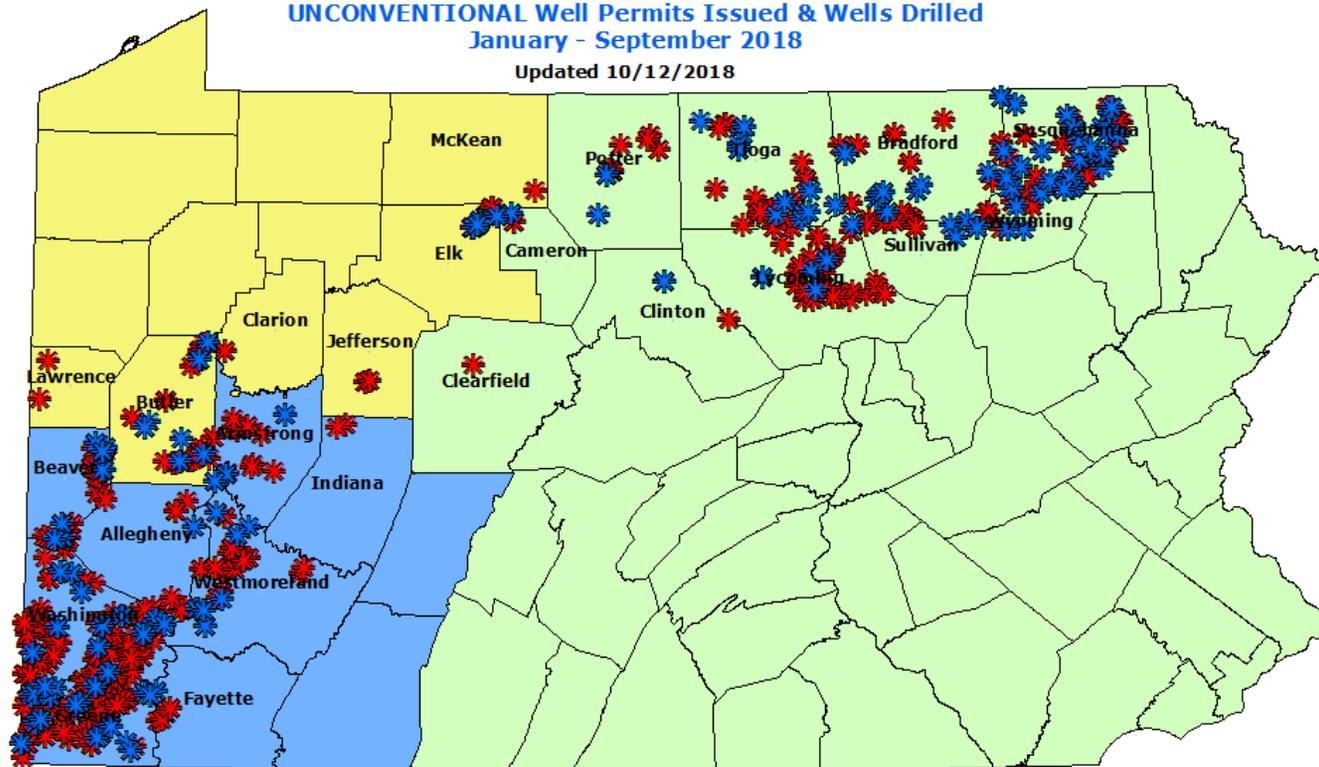
Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - September 2018

Updated 10/12/2018



Unconventional Permits Issued - 1418 Unconventional Wells Drilled - 579

Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - September 2018  
Updated 10/12/2018



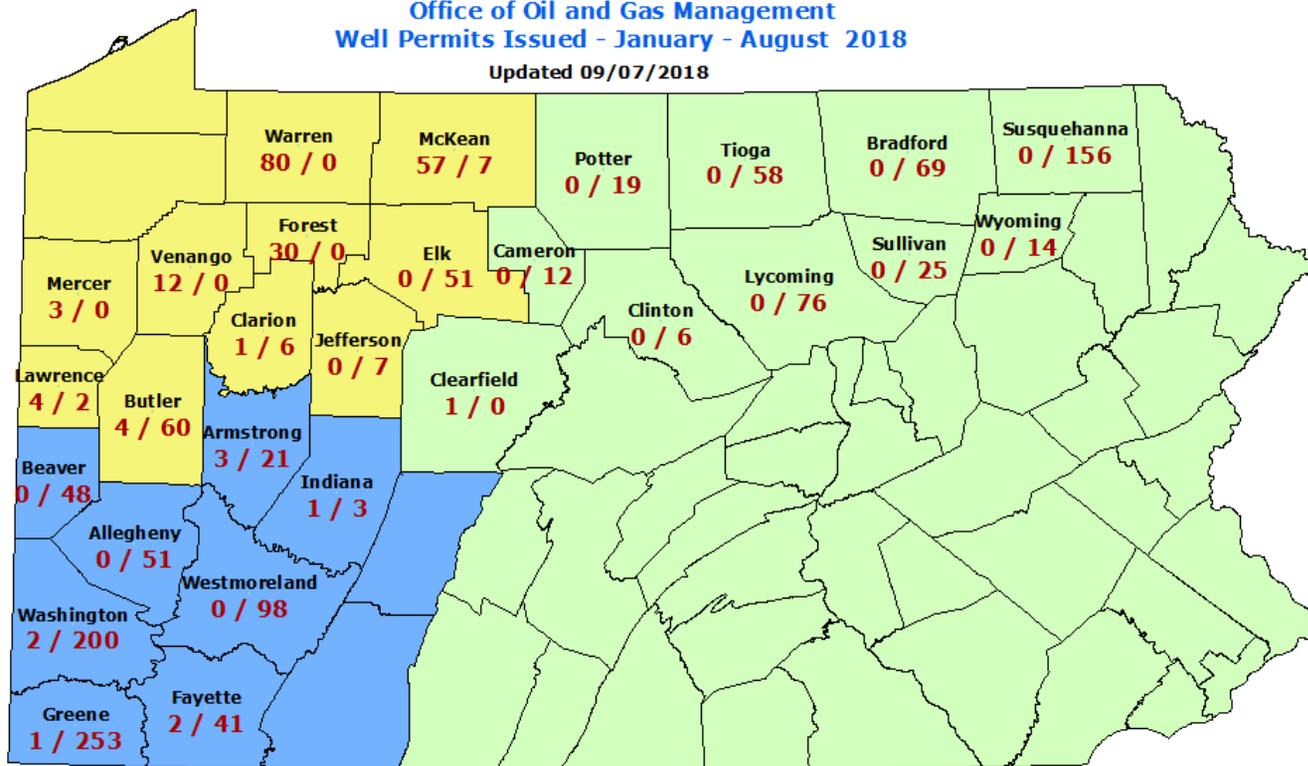
Unconventional Permits Issued - 1418



Unconventional Wells Drilled - 579

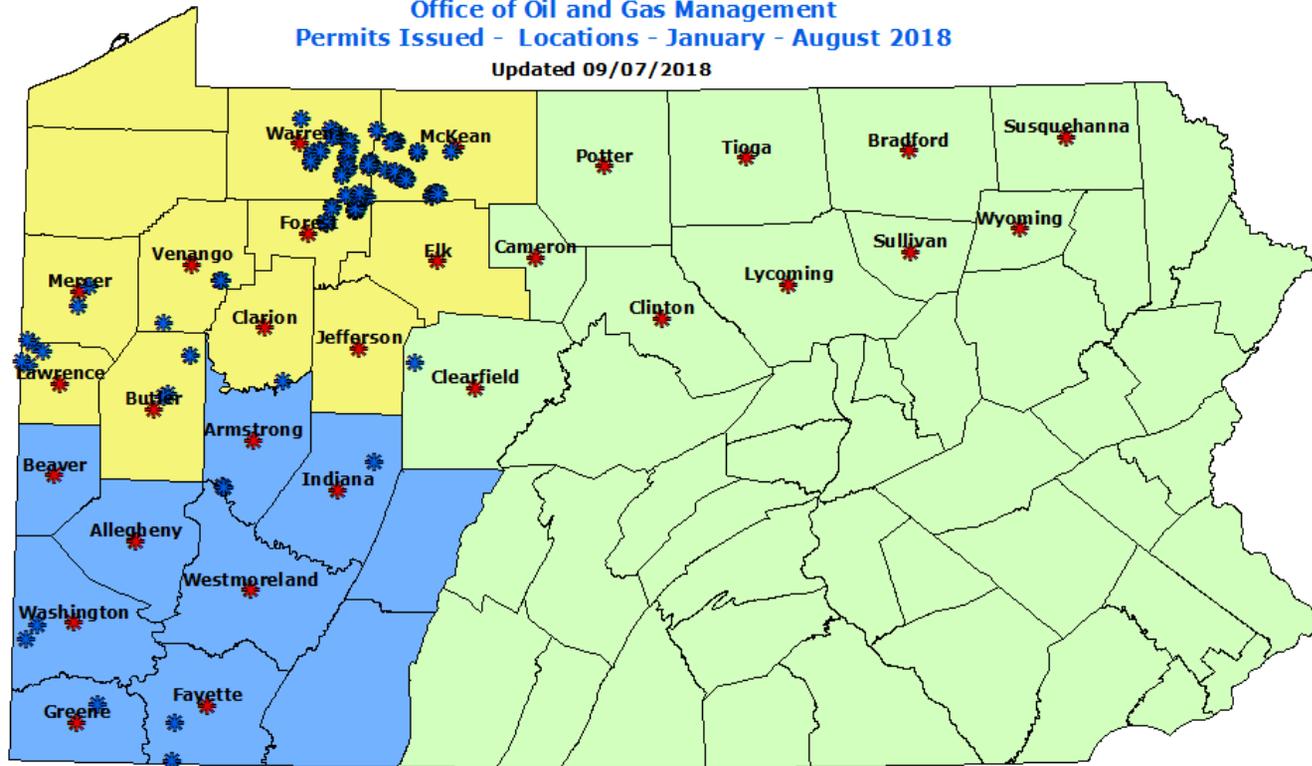
Department of Environmental Protection  
Office of Oil and Gas Management  
Well Permits Issued - January - August 2018

Updated 09/07/2018



Conventional - 201 + Unconventional - 1283 = Total - 1484

Department of Environmental Protection  
Office of Oil and Gas Management  
Permits Issued - Locations - January - August 2018  
Updated 09/07/2018



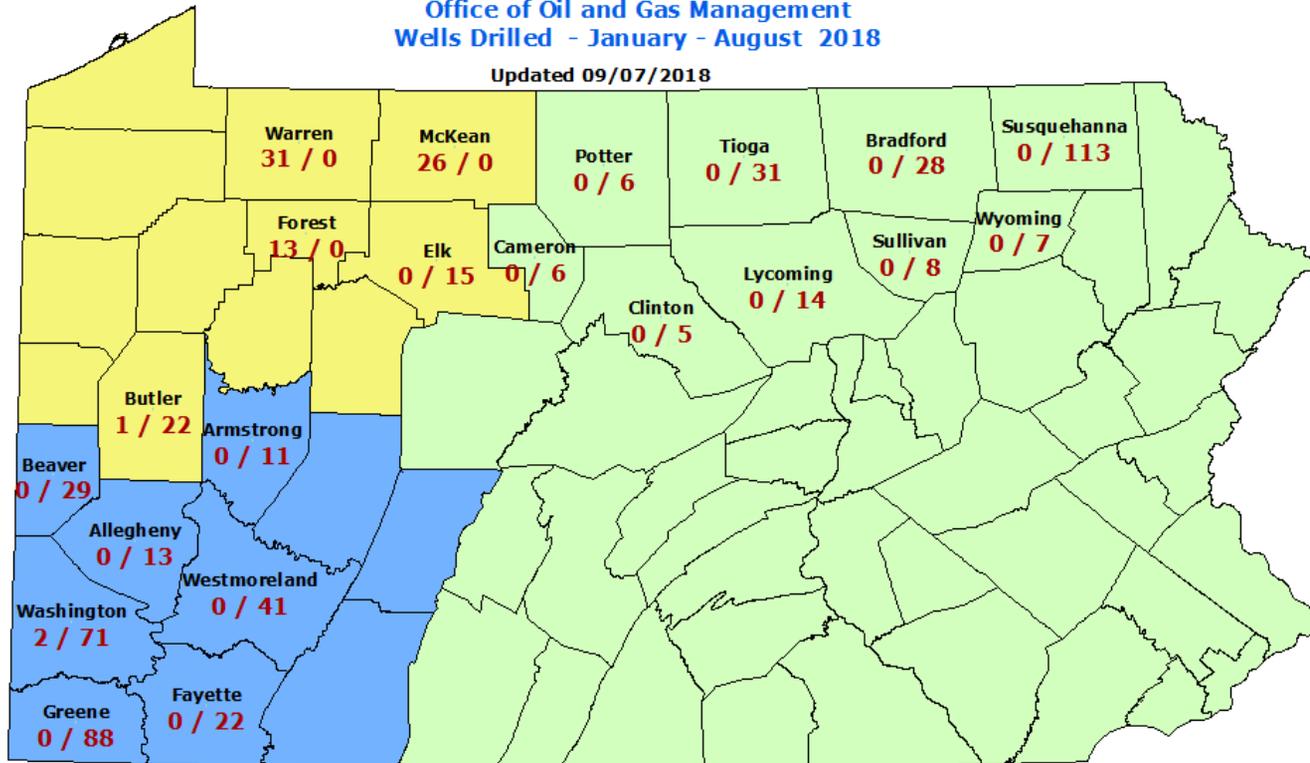
\* Conventional Wells

\* Unconventional Wells

Conventional - 201 + Unconventional - 1283 = Total - 1484

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January - August 2018

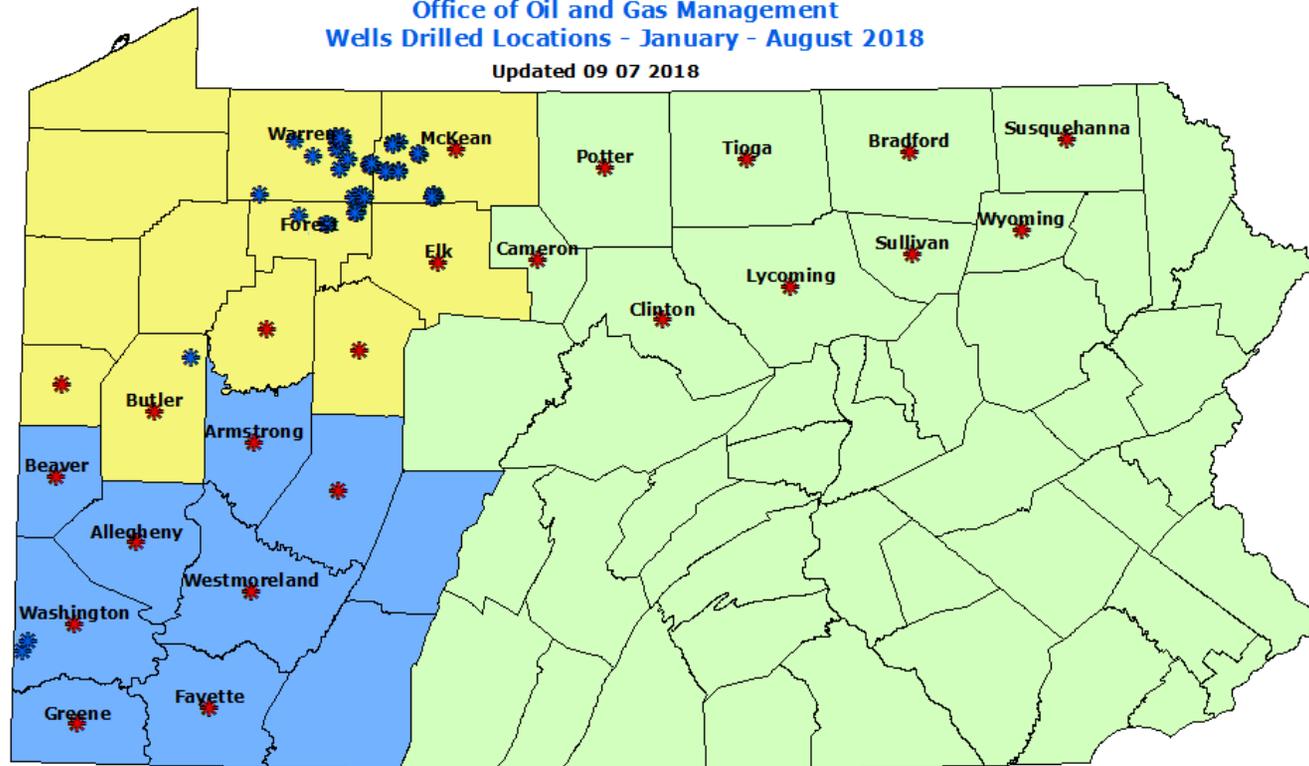
Updated 09/07/2018



(Conventional) - 73 + (Unconventional) - 530 = Total - 603

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January - August 2018

Updated 09 07 2018



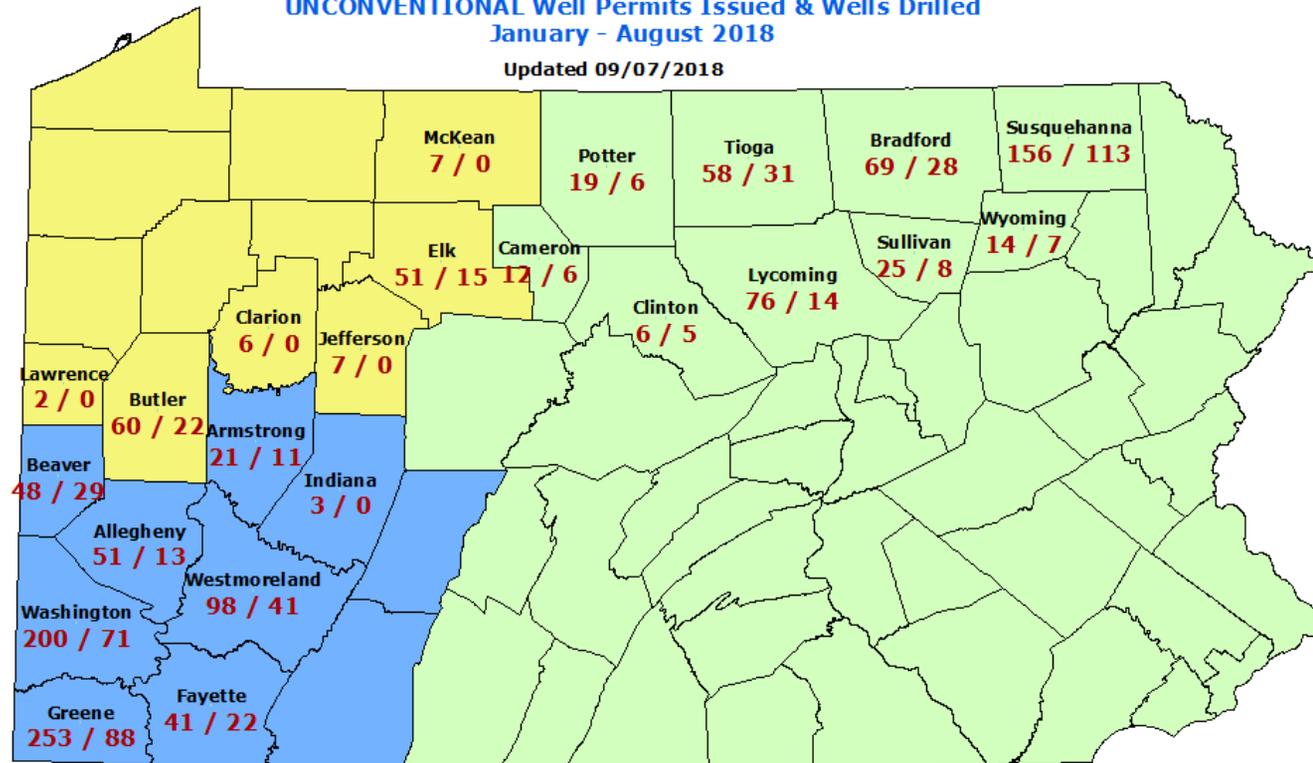
 Conventional Wells

 Unconventional Wells

(Conventional) - 73 + (Unconventional) - 530 = Total - 603

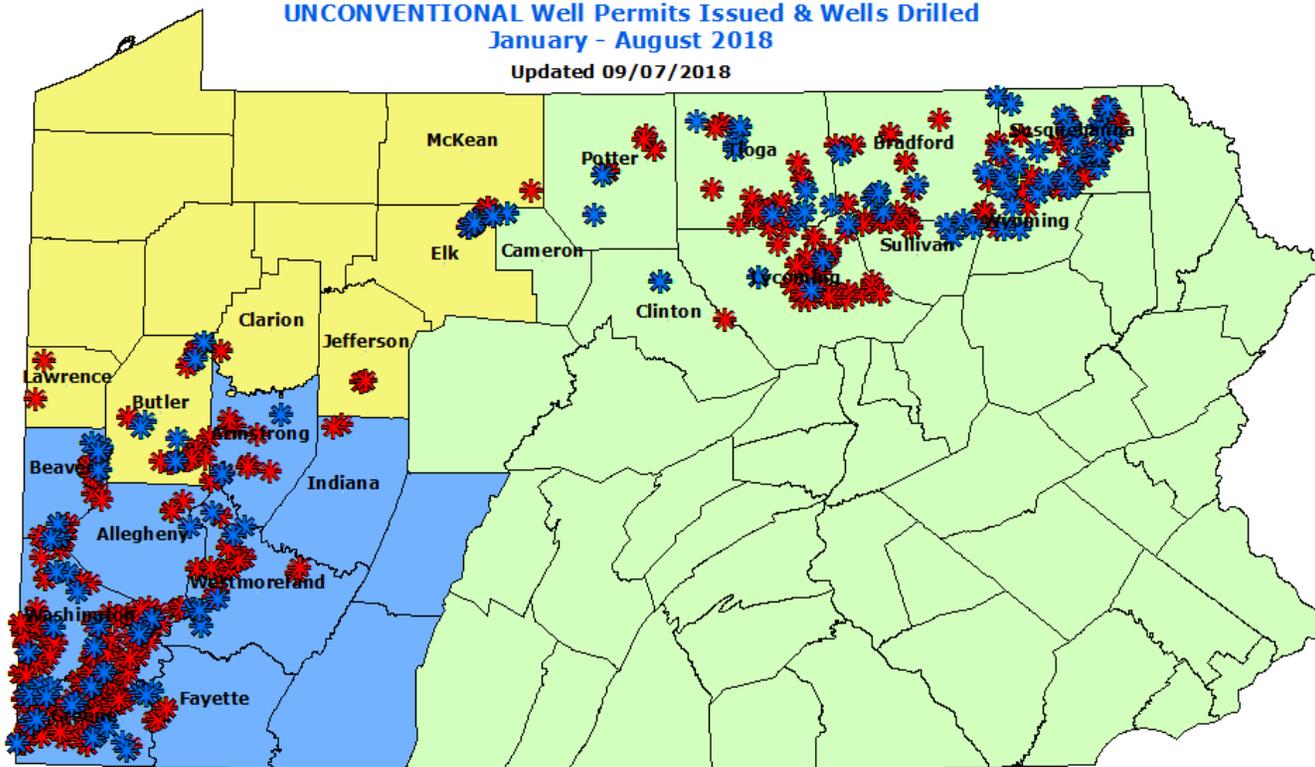
Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - August 2018

Updated 09/07/2018



Unconventional Permits Issued - 1283    Unconventional Wells Drilled - 530

Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - August 2018  
Updated 09/07/2018



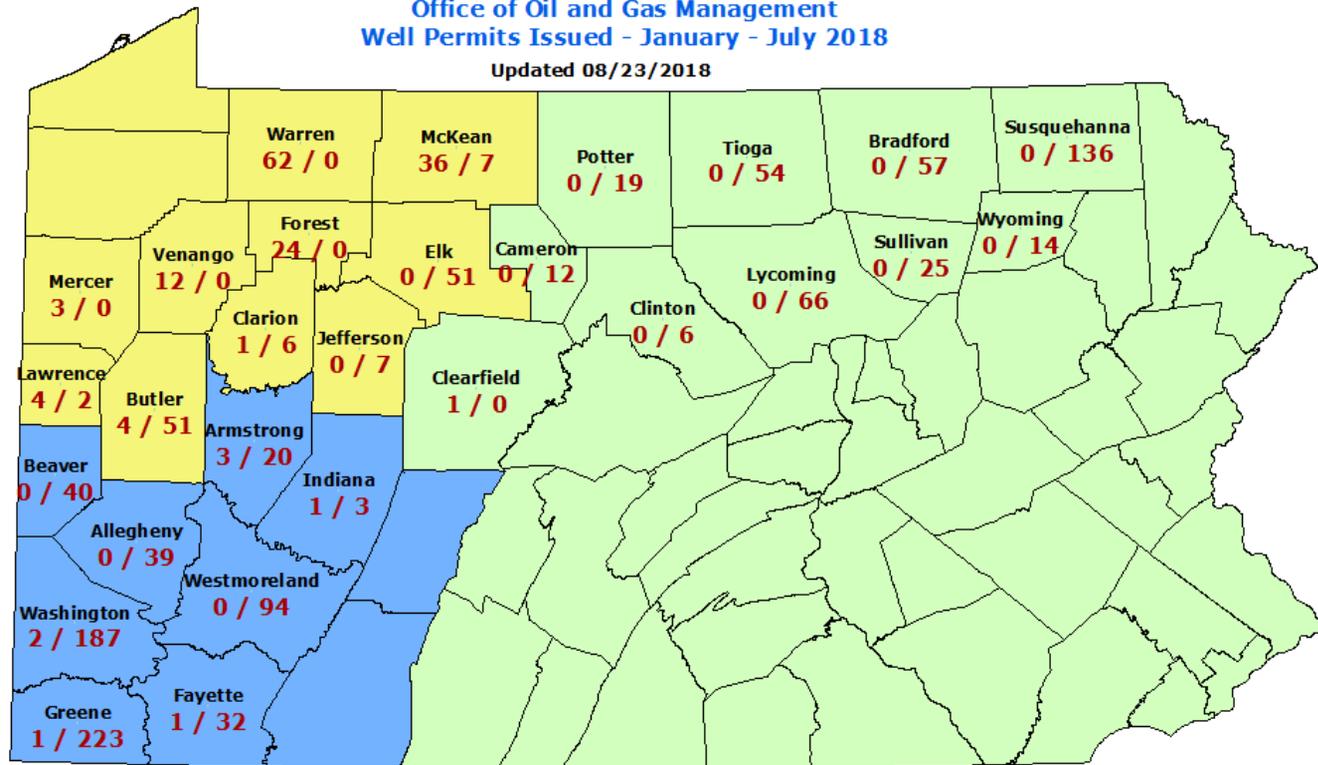
Unconventional Permits Issued - 1283



Unconventional Wells Drilled - 530

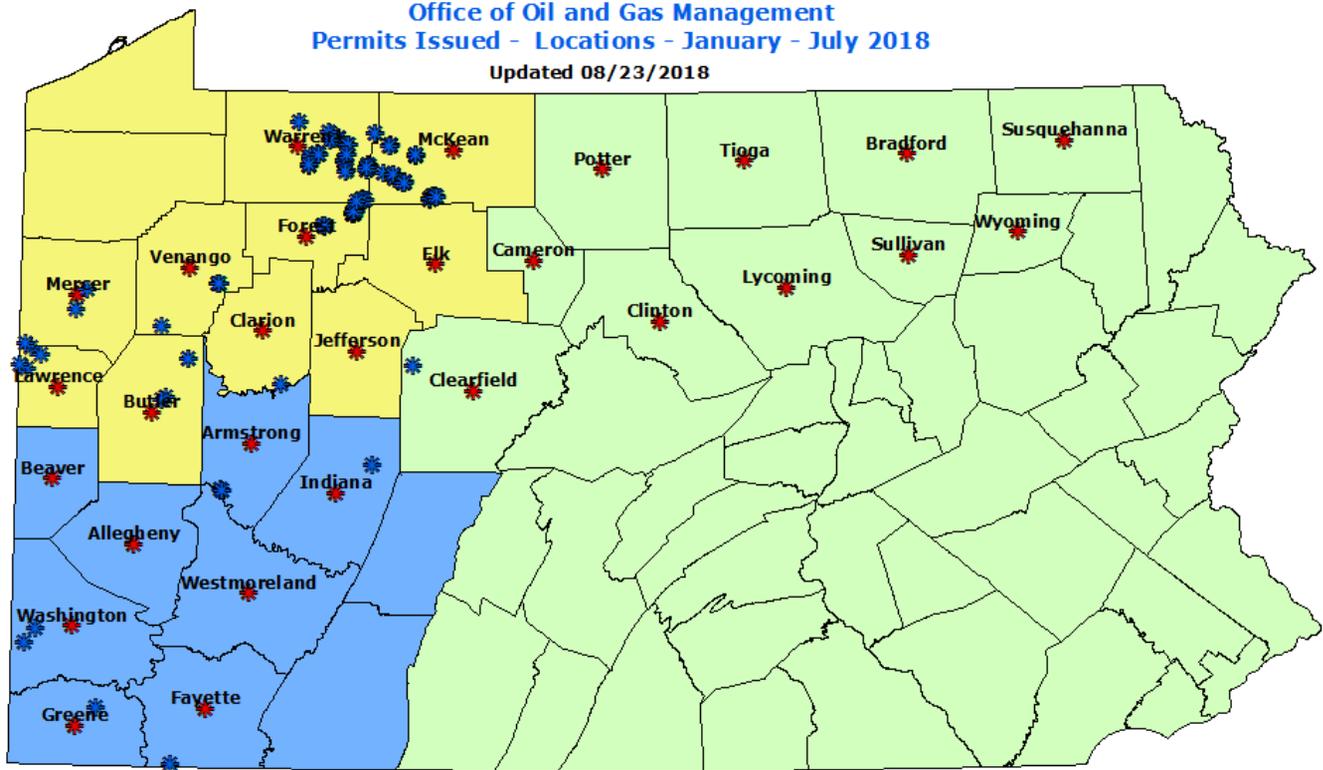
Department of Environmental Protection  
Office of Oil and Gas Management  
Well Permits Issued - January - July 2018

Updated 08/23/2018



Conventional - 155 + Unconventional - 1151 = Total - 1306

Department of Environmental Protection  
 Office of Oil and Gas Management  
 Permits Issued - Locations - January - July 2018  
 Updated 08/23/2018

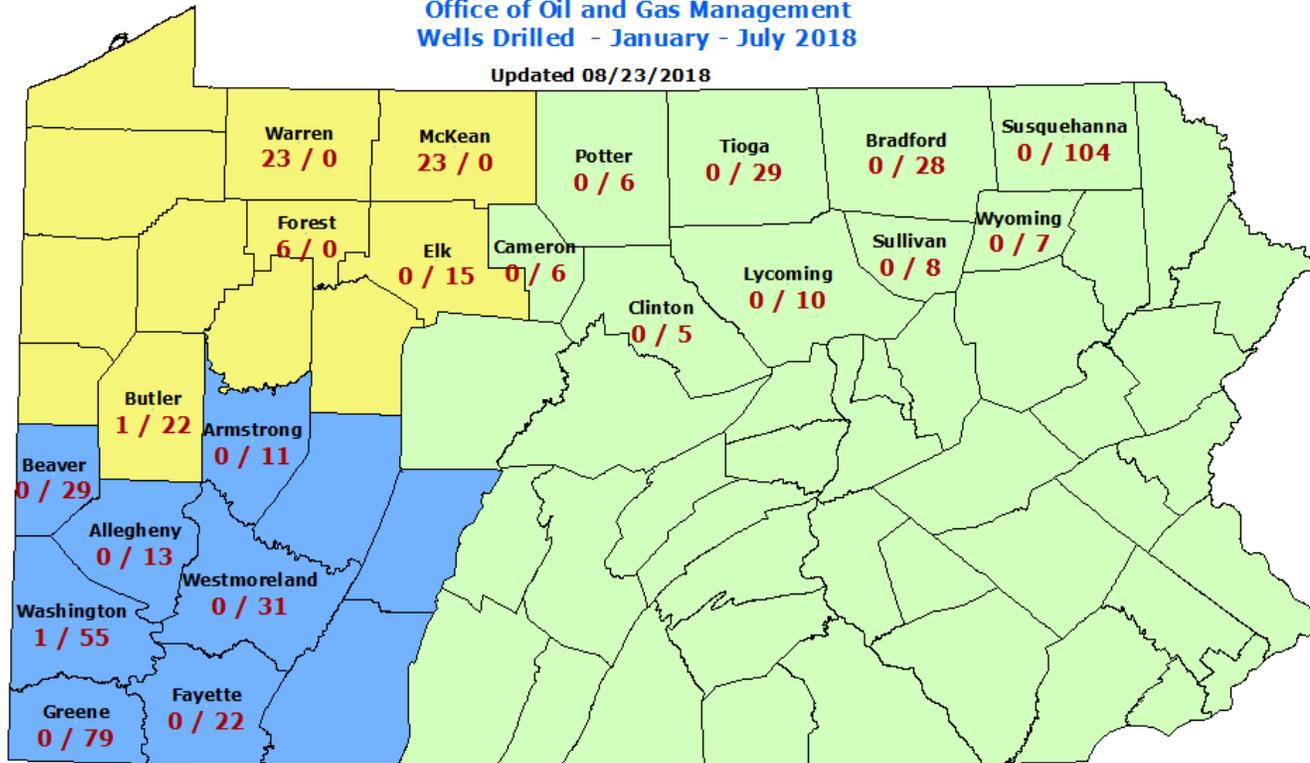


**\* Conventional Wells**                      **\* Unconventional Wells**

Conventional - 155 + Unconventional - 1151 = Total - 1306

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January - July 2018

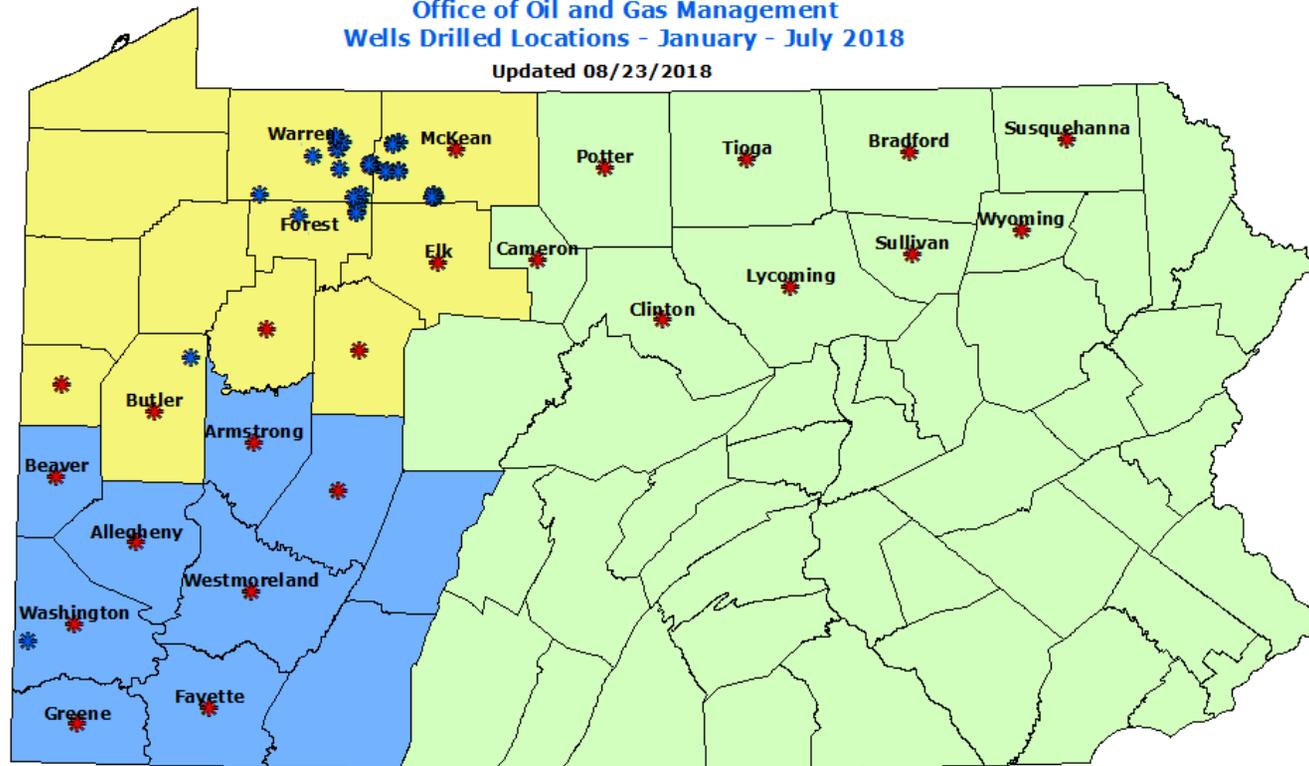
Updated 08/23/2018



(Conventional) - 54 + (Unconventional) - 480 = Total - 534

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January - July 2018

Updated 08/23/2018



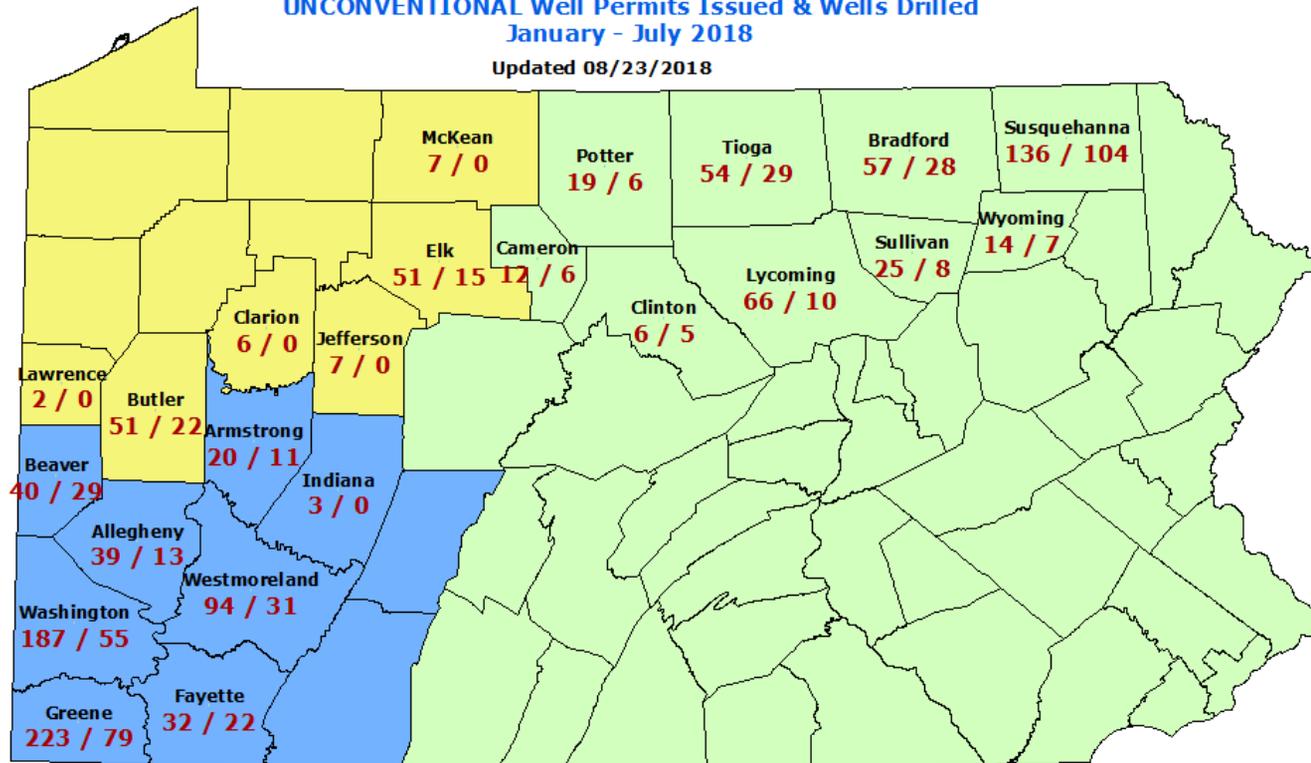
 Conventional Wells

 Unconventional Wells

(Conventional) - 54 + (Unconventional) - 480 = Total - 534

Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - July 2018

Updated 08/23/2018

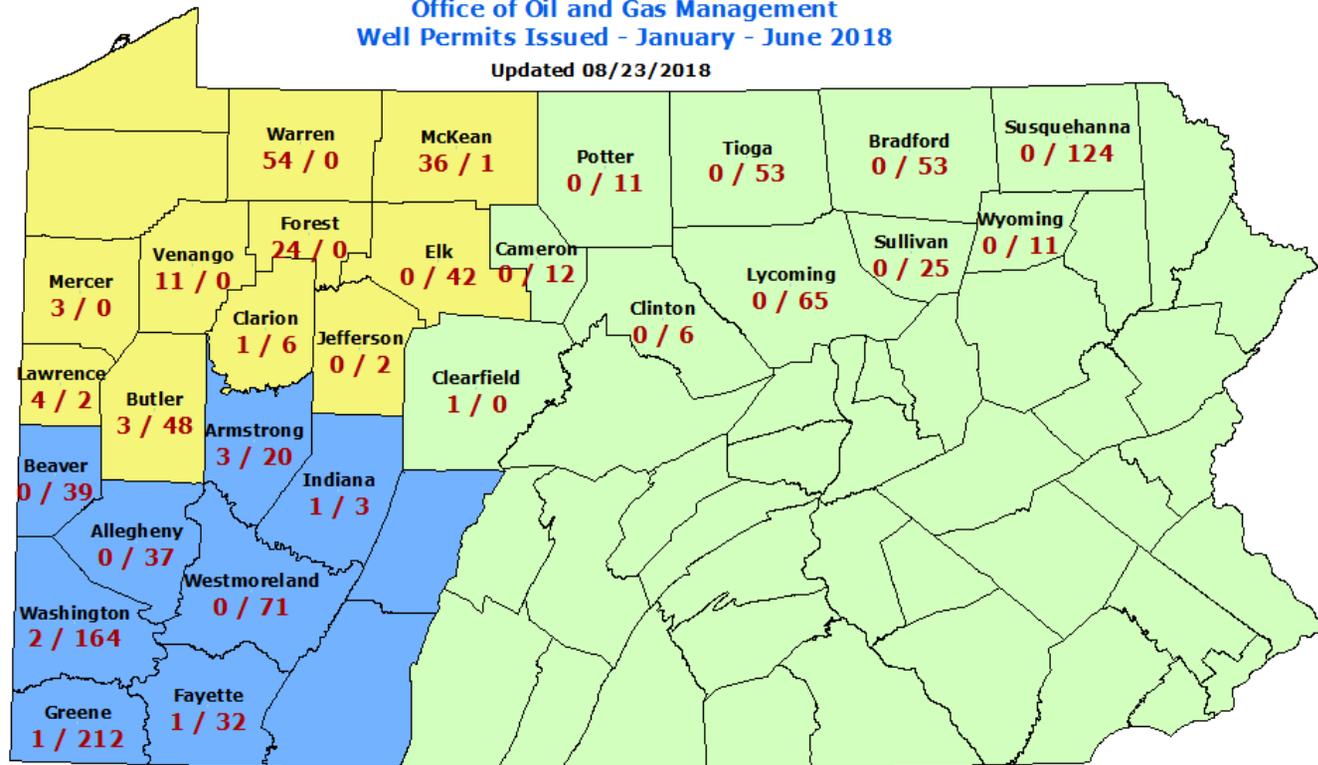


Unconventional Permits Issued - 1151    Unconventional Wells Drilled - 480



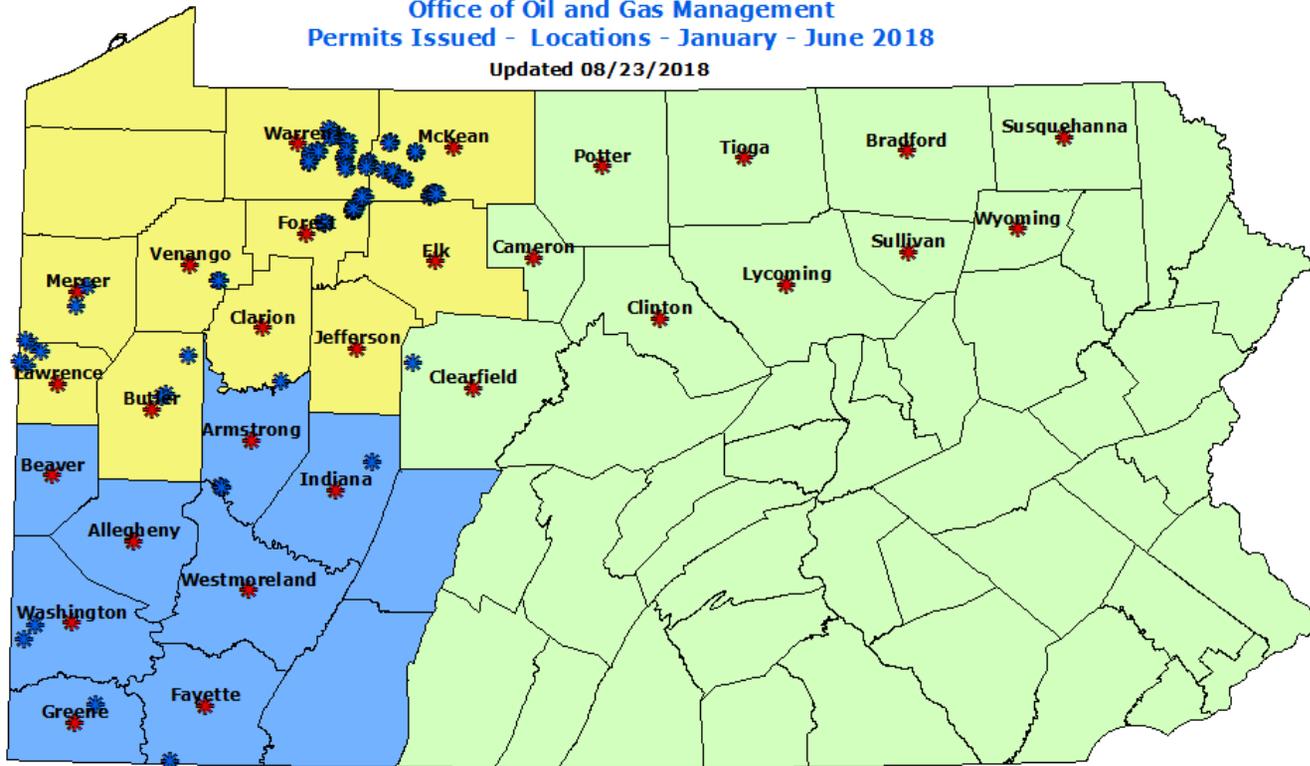
Department of Environmental Protection  
Office of Oil and Gas Management  
Well Permits Issued - January - June 2018

Updated 08/23/2018



Conventional - 145 + Unconventional - 1039 = Total - 1184

Department of Environmental Protection  
Office of Oil and Gas Management  
Permits Issued - Locations - January - June 2018  
Updated 08/23/2018



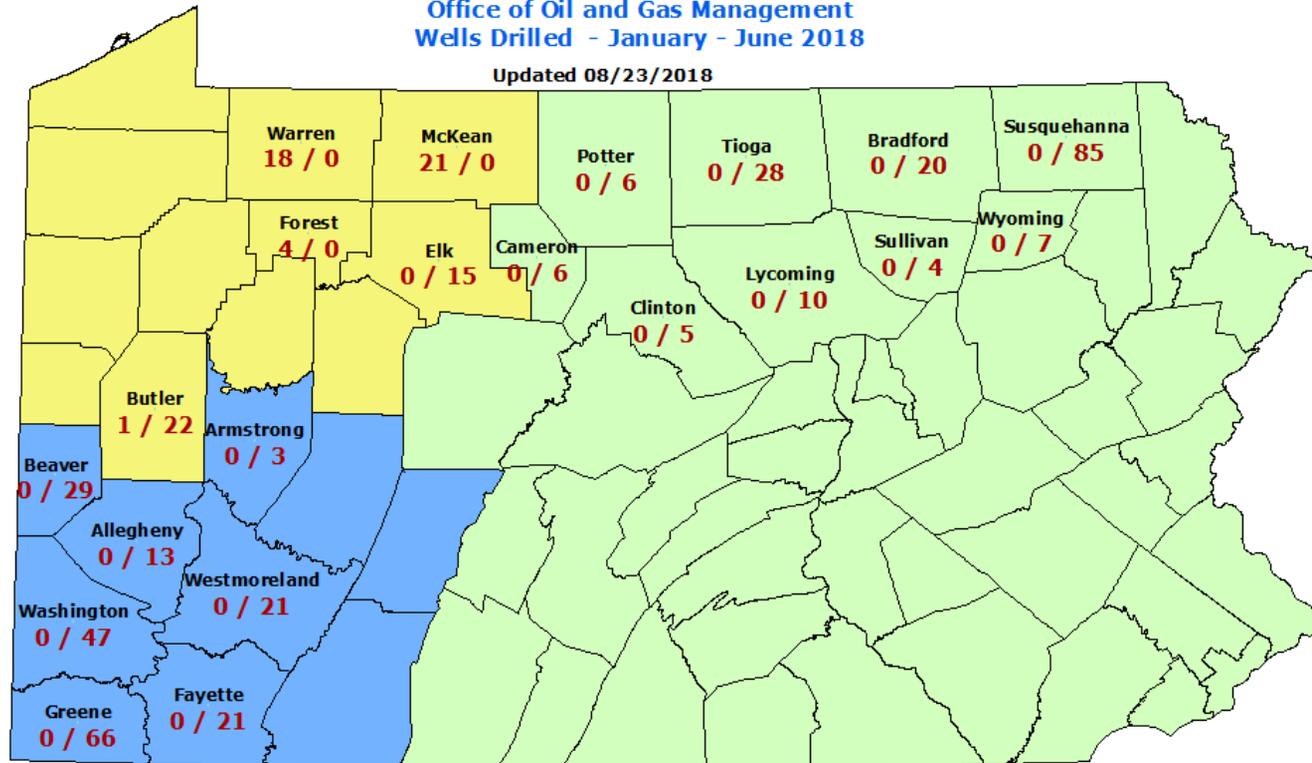
\* Conventional Wells

\* Unconventional Wells

Conventional - 145 + Unconventional - 1039 = Total - 1184

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January - June 2018

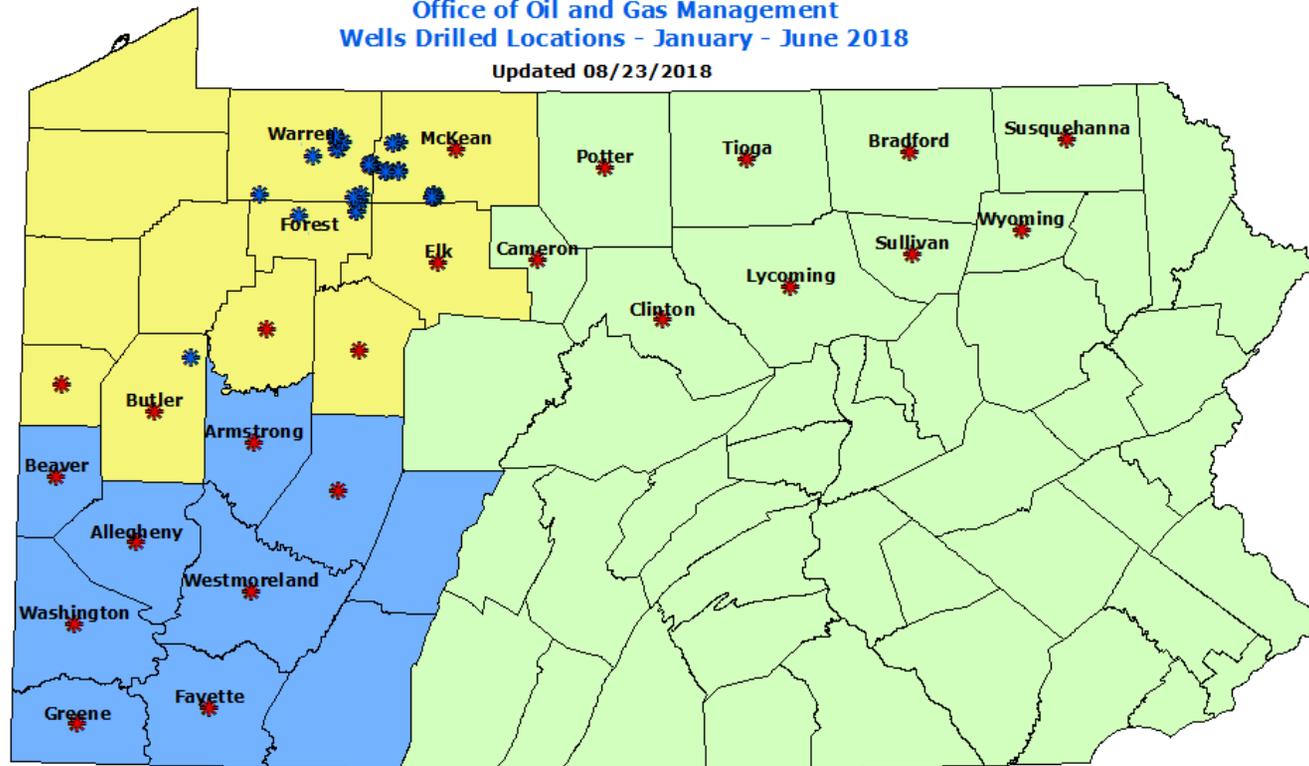
Updated 08/23/2018



(Conventional) - 44 + (Unconventional) - 408 = Total - 452

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January - June 2018

Updated 08/23/2018



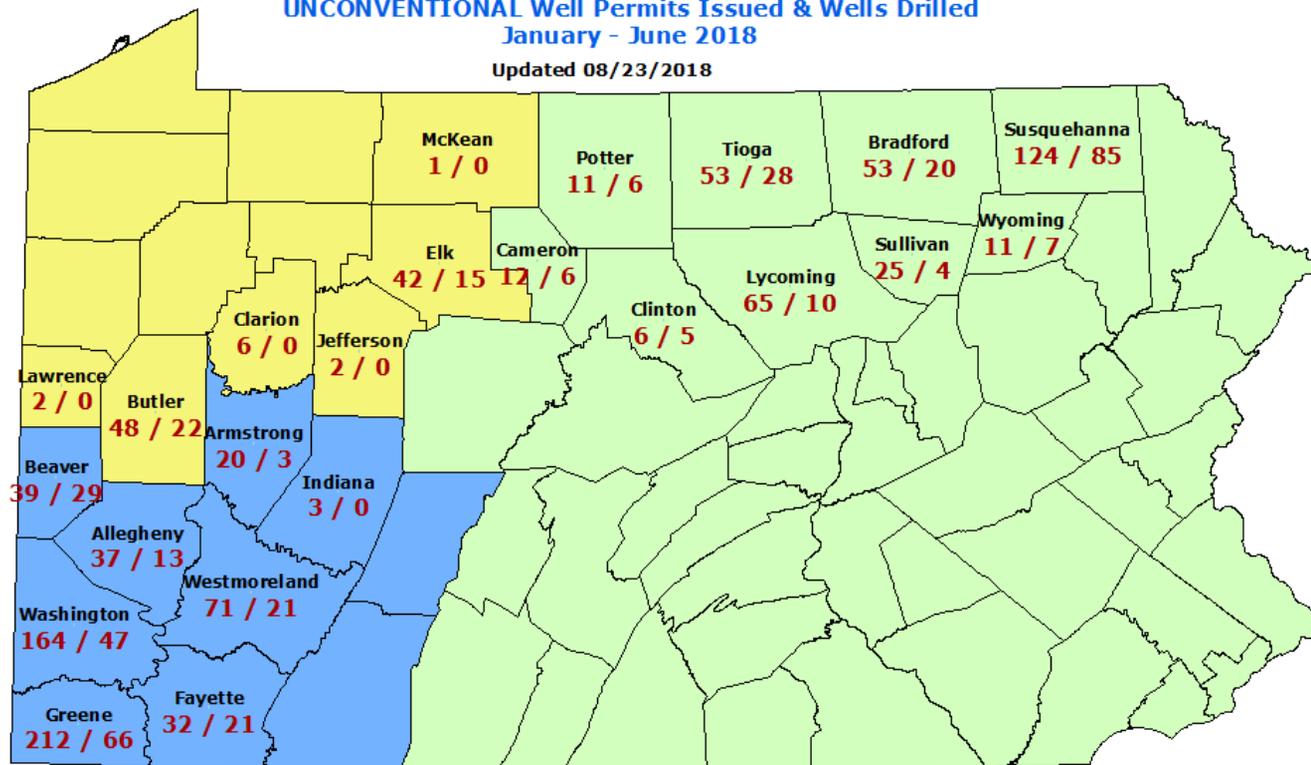
\* Conventional Wells

\* Unconventional Wells

(Conventional) - 44 + (Unconventional) - 408 = Total - 452

Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - June 2018

Updated 08/23/2018

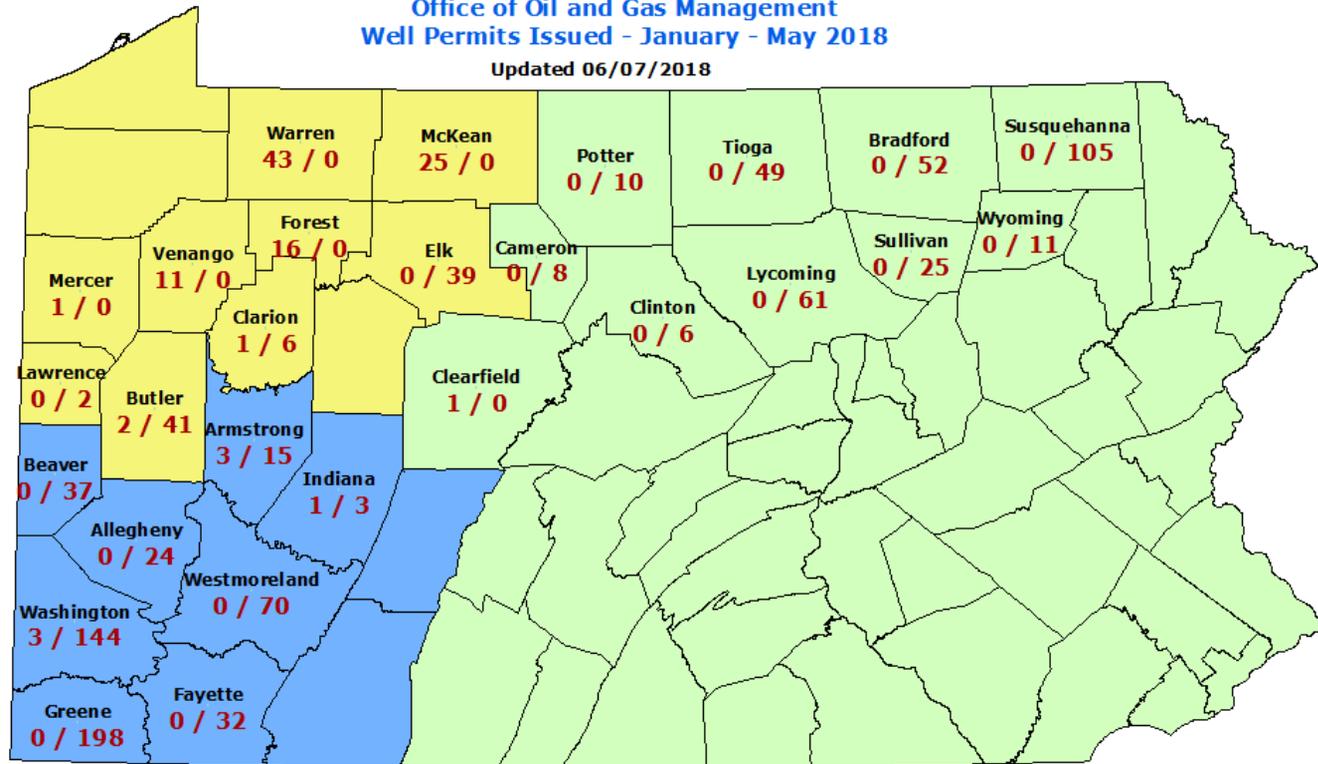


Unconventional Permits Issued - 1039    Unconventional Wells Drilled - 408



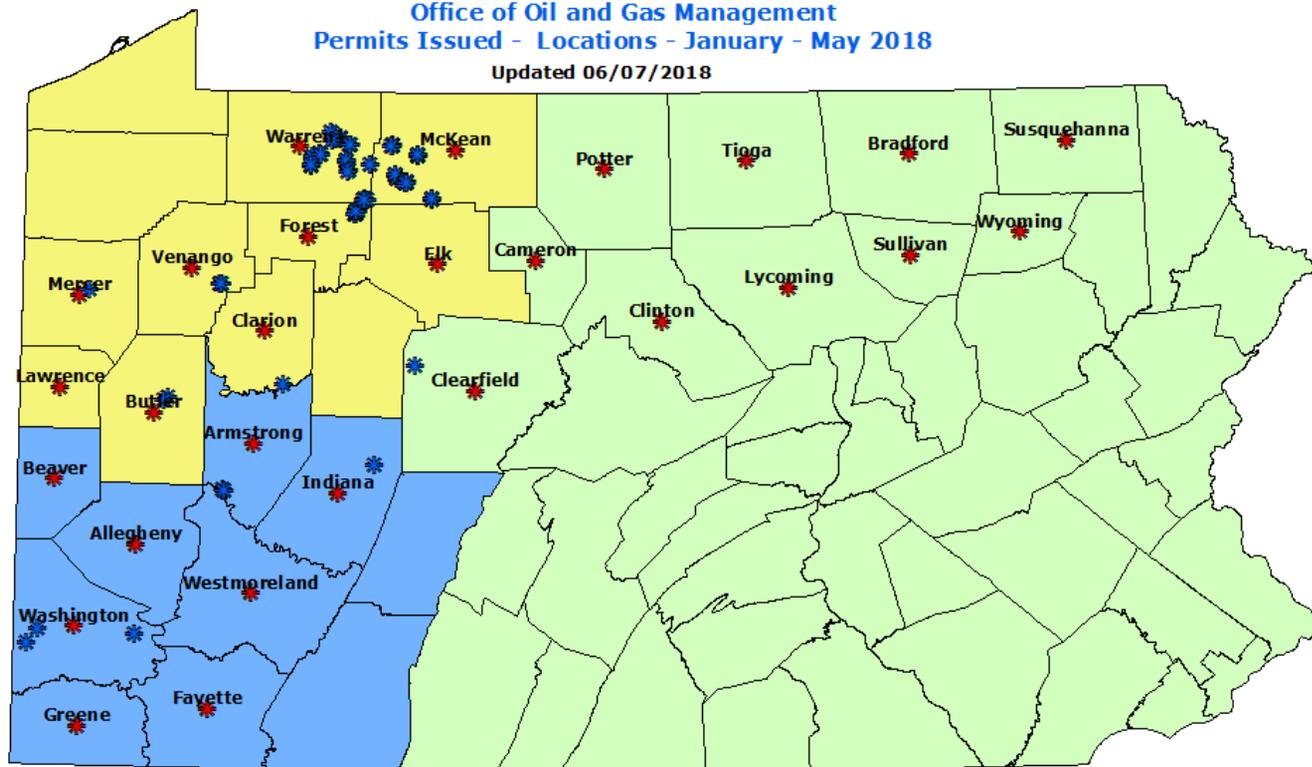
Department of Environmental Protection  
Office of Oil and Gas Management  
Well Permits Issued - January - May 2018

Updated 06/07/2018



Conventional - 107 + Unconventional - 938 = Total - 1045

Department of Environmental Protection  
Office of Oil and Gas Management  
Permits Issued - Locations - January - May 2018  
Updated 06/07/2018



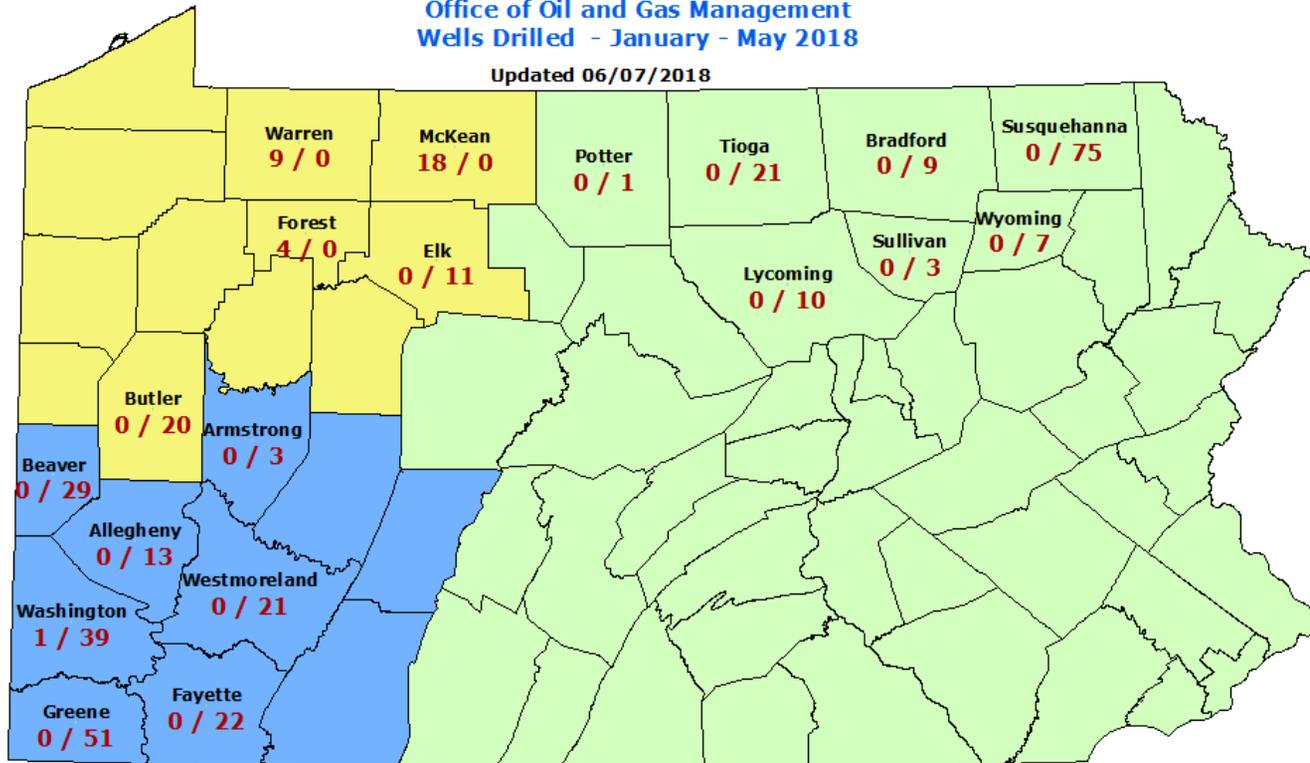
\* Conventional Wells

\* Unconventional Wells

Conventional - 107 + Unconventional - 938 = Total - 1045

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January - May 2018

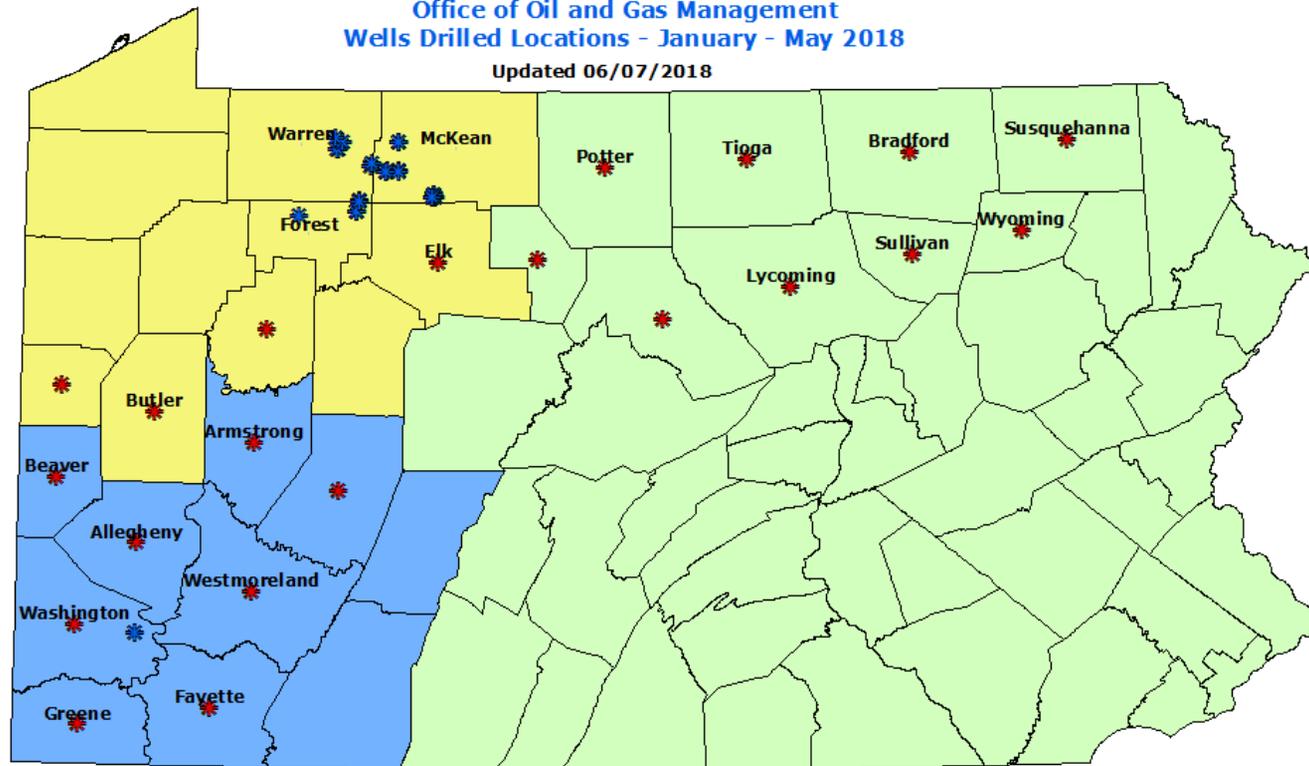
Updated 06/07/2018



(Conventional) - 32 + (Unconventional) - 335 = Total - 367

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January - May 2018

Updated 06/07/2018



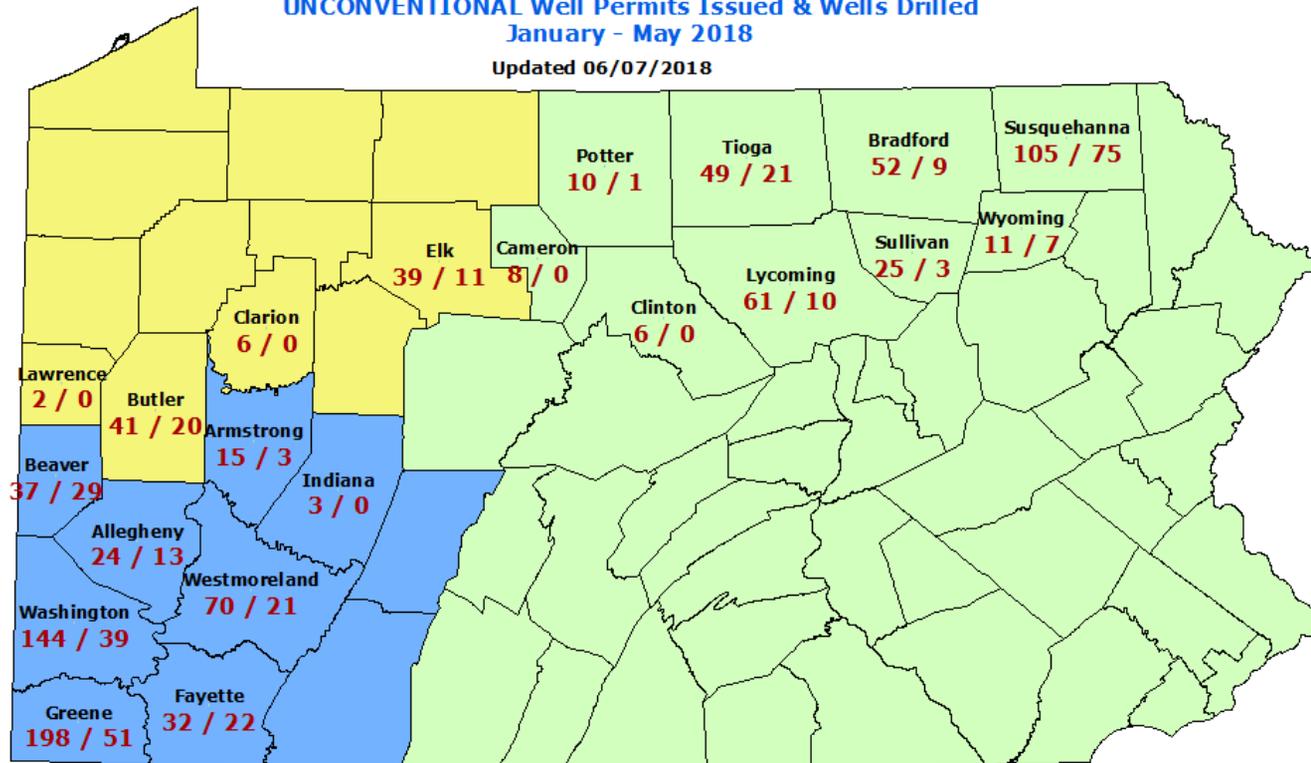
 Conventional Wells

 Unconventional Wells

(Conventional) - 32 + (Unconventional) - 335 = Total - 367

Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - May 2018

Updated 06/07/2018

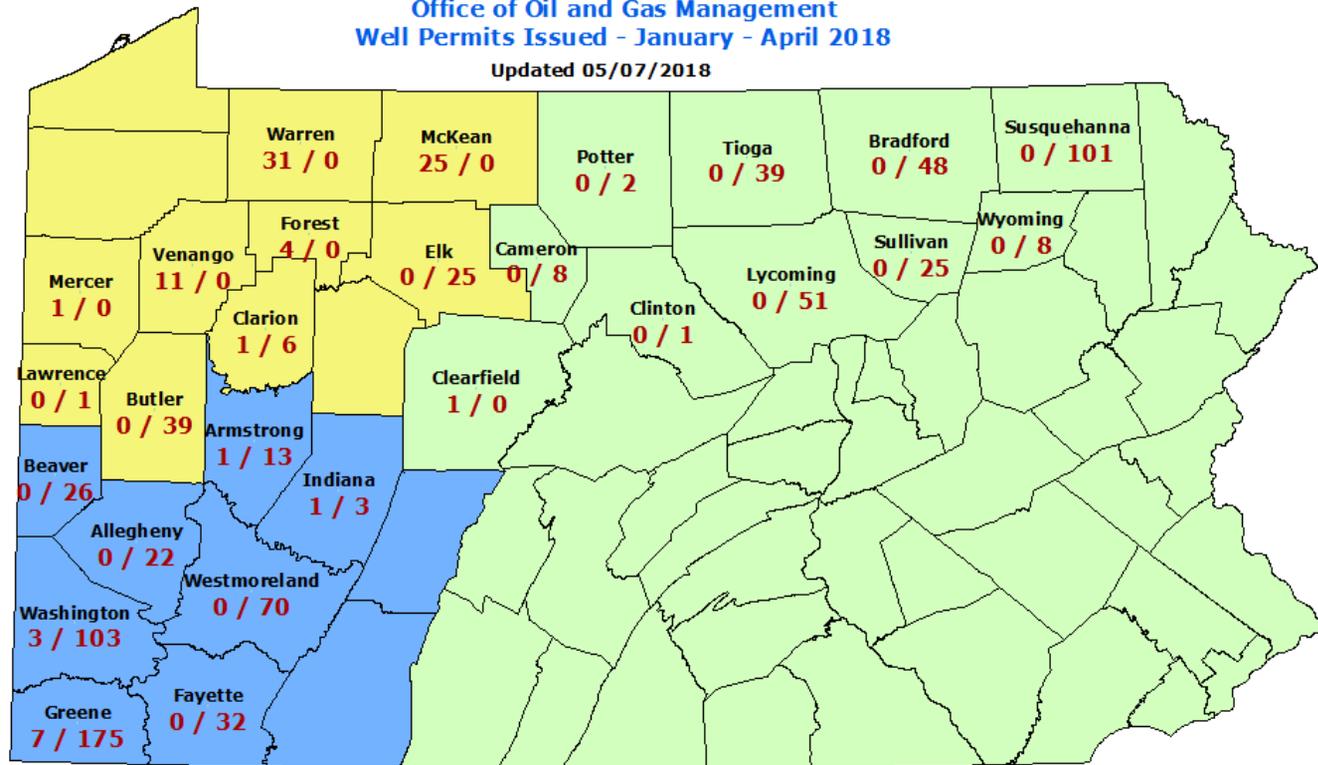


Unconventional Permits Issued - 938    Unconventional Wells Drilled - 335



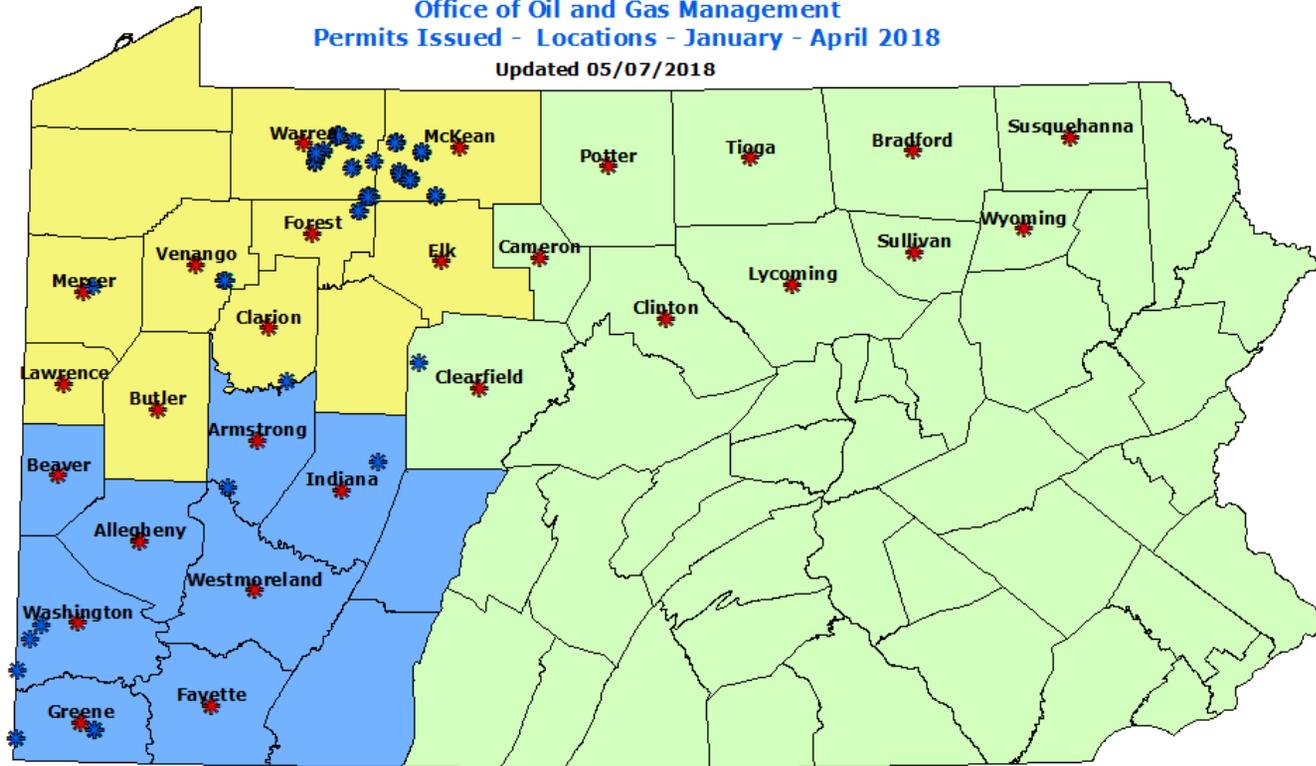
Department of Environmental Protection  
Office of Oil and Gas Management  
Well Permits Issued - January - April 2018

Updated 05/07/2018



Conventional - 86 + Unconventional - 798 = Total - 884

Department of Environmental Protection  
Office of Oil and Gas Management  
Permits Issued - Locations - January - April 2018  
Updated 05/07/2018



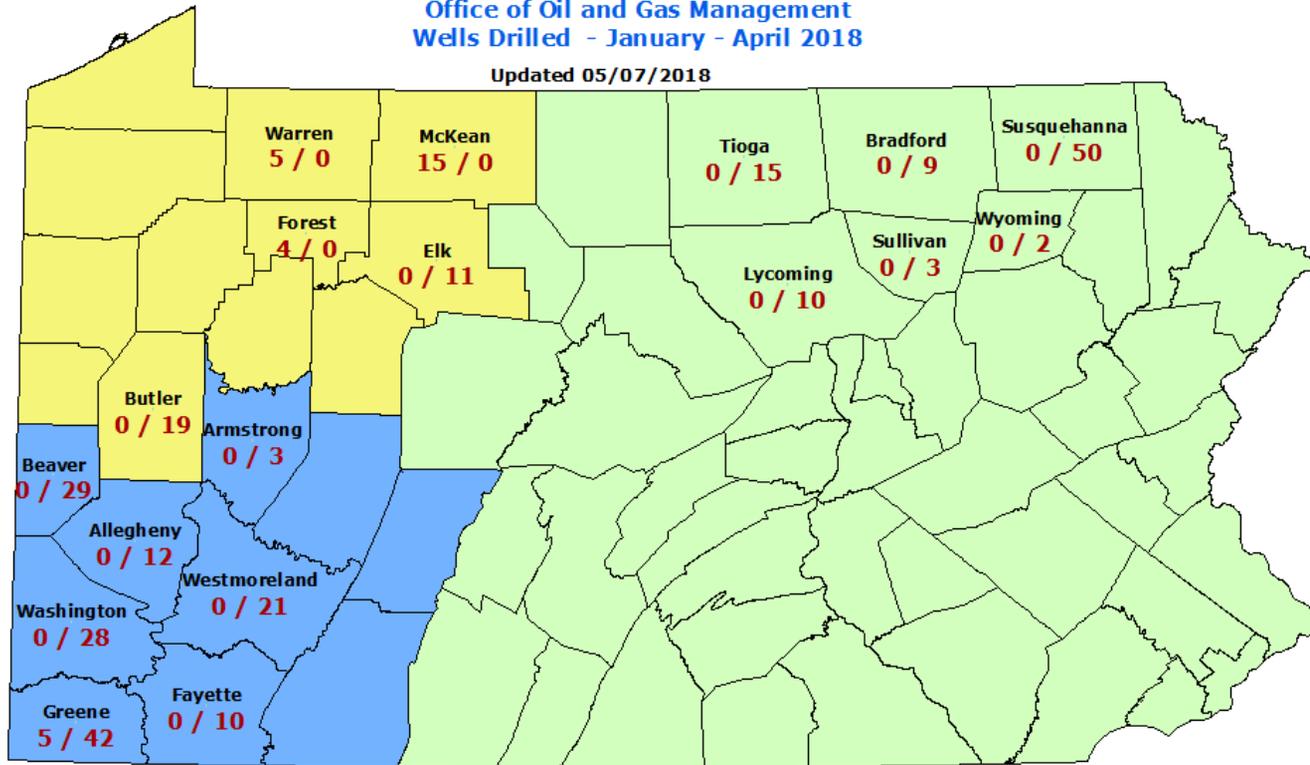
\* Conventional Wells

\* Unconventional Wells

Conventional - 86 + Unconventional - 798 = Total - 884

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January - April 2018

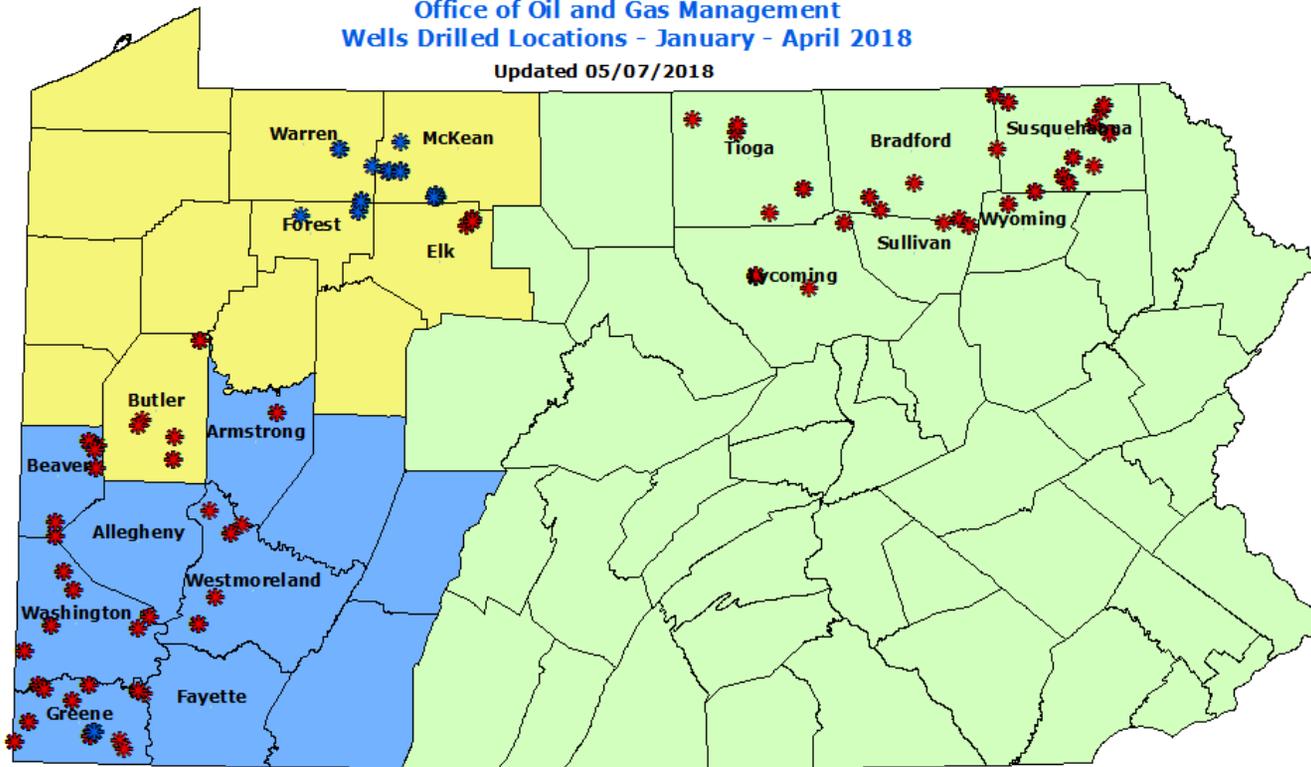
Updated 05/07/2018



(Conventional) - 29 + (Unconventional) - 264 = Total - 293

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January - April 2018

Updated 05/07/2018



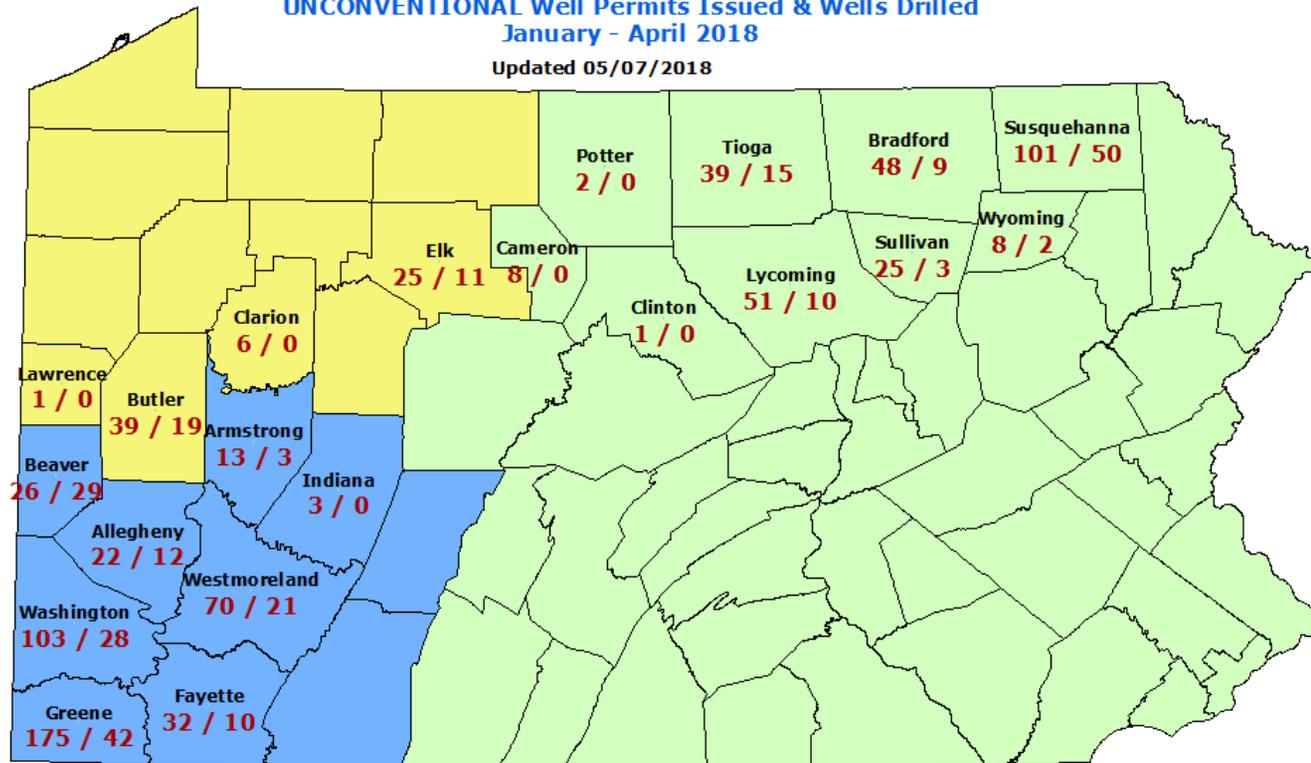
 Conventional Wells

 Unconventional Wells

(Conventional) - 29 + (Unconventional) - 264 = Total - 293

Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - April 2018

Updated 05/07/2018

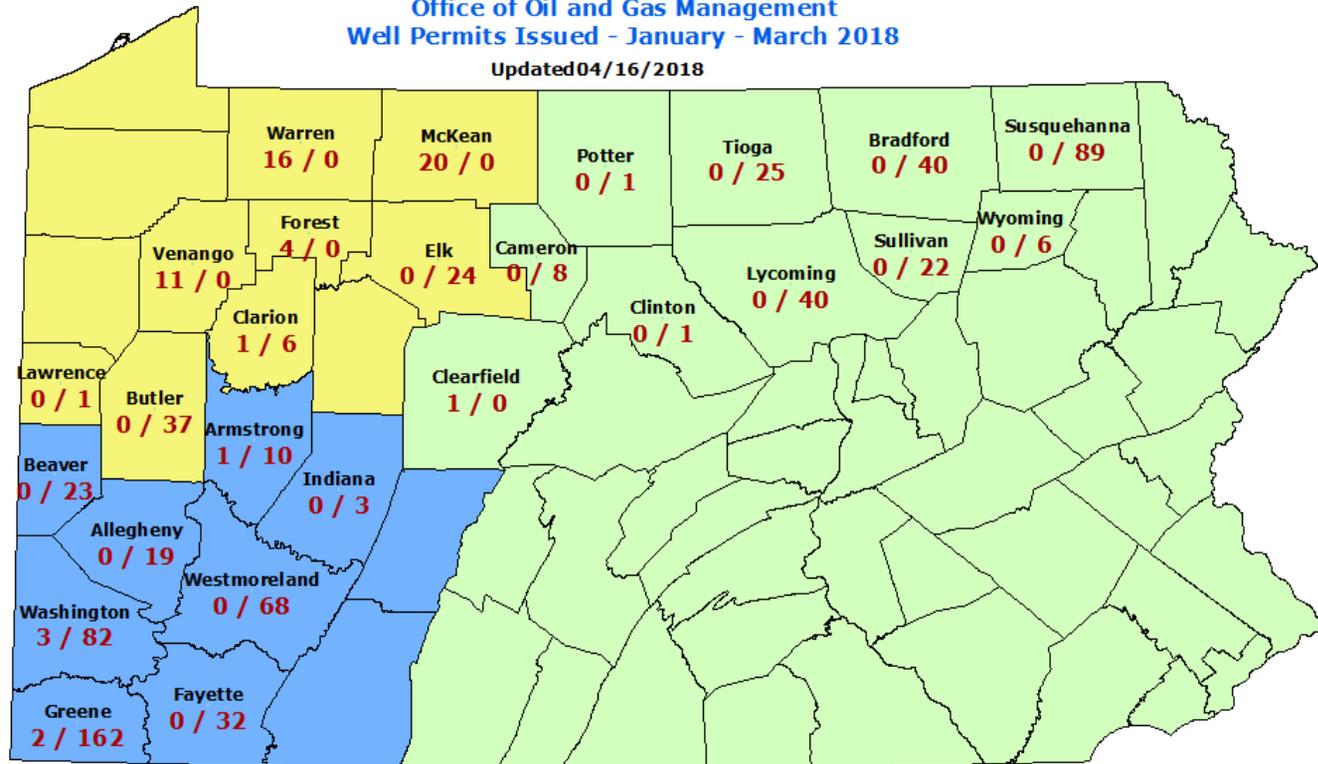


Unconventional Permits Issued - 798    Unconventional Wells Drilled - 264



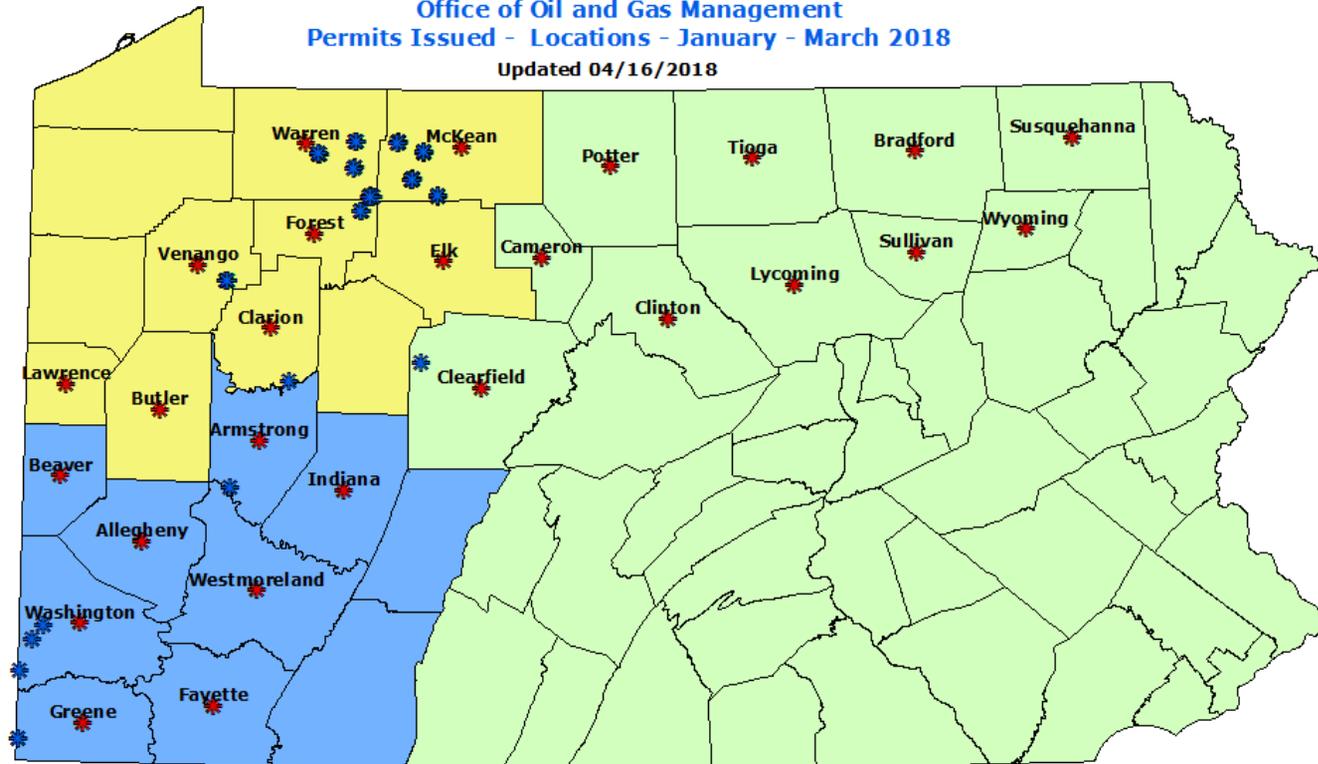
Department of Environmental Protection  
Office of Oil and Gas Management  
Well Permits Issued - January - March 2018

Updated 04/16/2018



Conventional - 59 + Unconventional - 699 = Total - 758

Department of Environmental Protection  
Office of Oil and Gas Management  
Permits Issued - Locations - January - March 2018  
Updated 04/16/2018



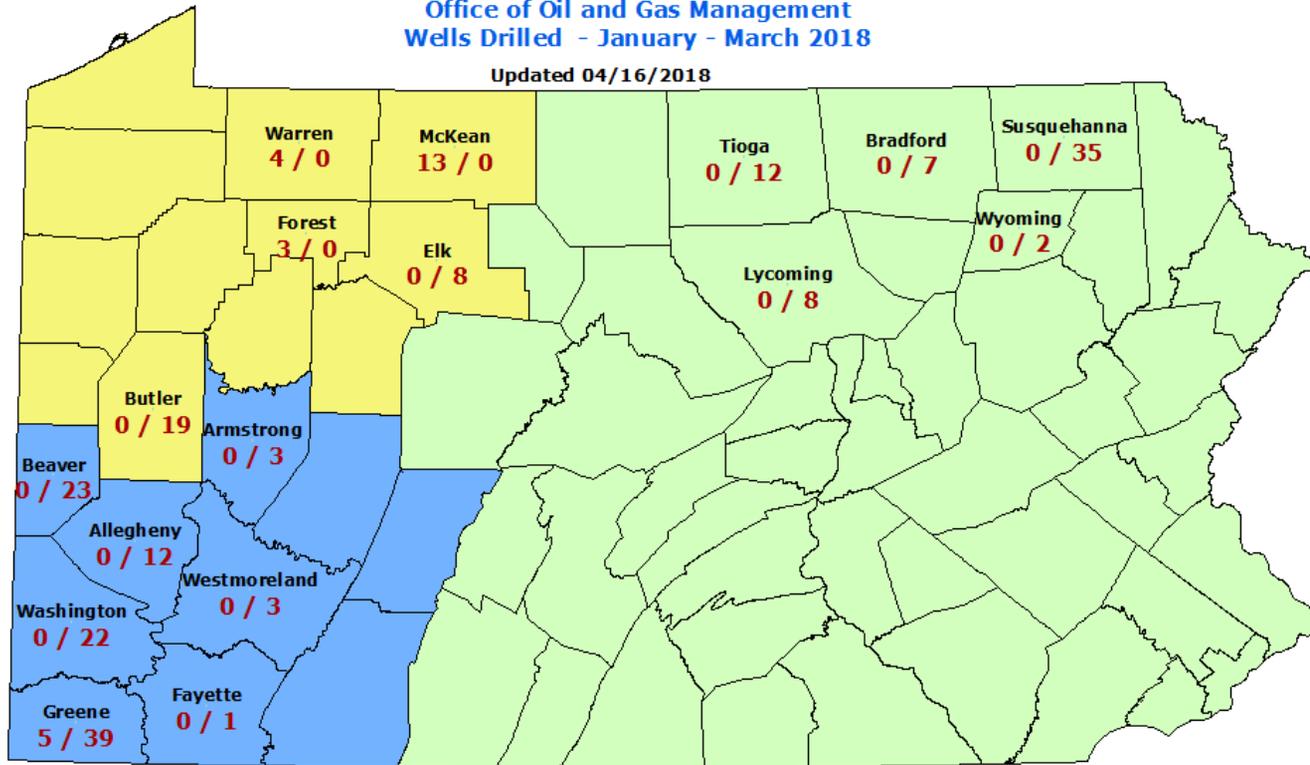
\* Conventional Wells

\* Unconventional Wells

Conventional - 59 + Unconventional - 699 = Total - 758

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January - March 2018

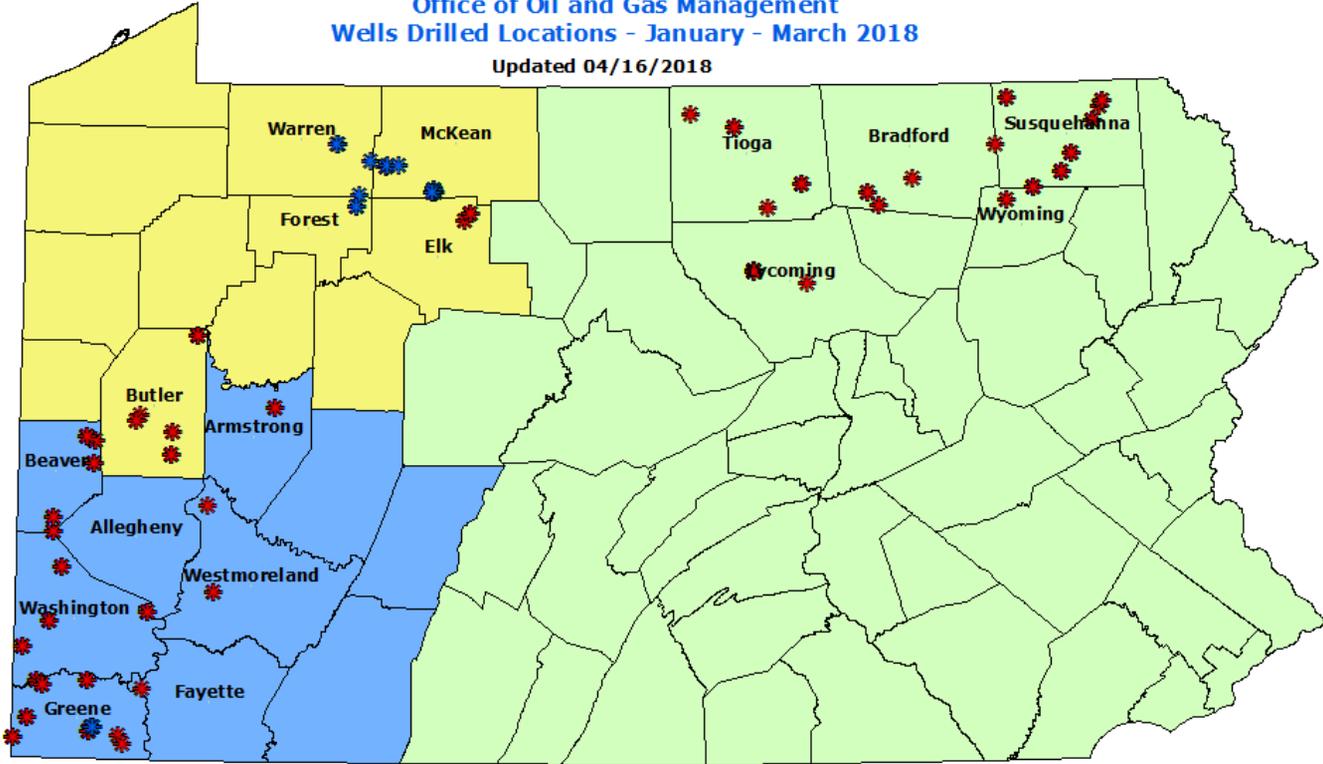
Updated 04/16/2018



(Conventional) - 25 + (Unconventional) - 194 = Total - 219

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January - March 2018

Updated 04/16/2018



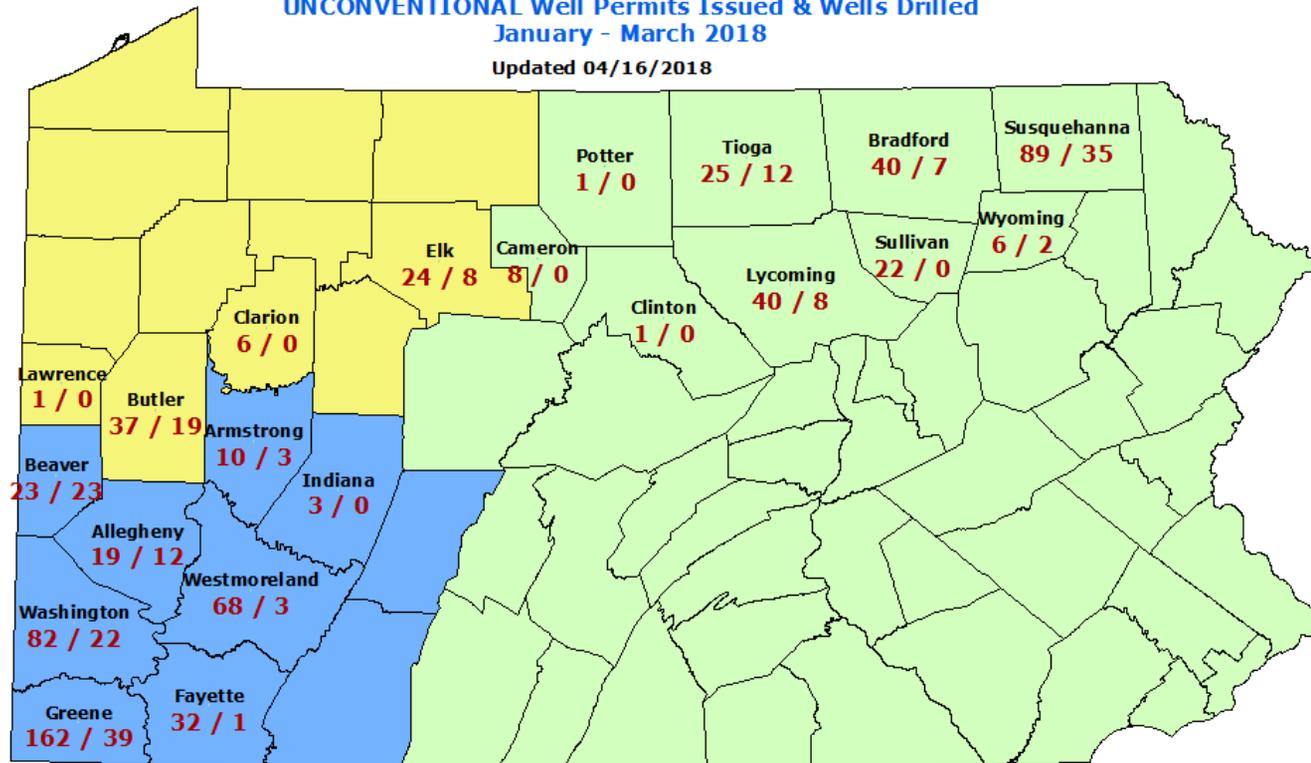
 Conventional Wells

 Unconventional Wells

(Conventional) - 25 + (Unconventional) - 194 = Total - 219

Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - March 2018

Updated 04/16/2018

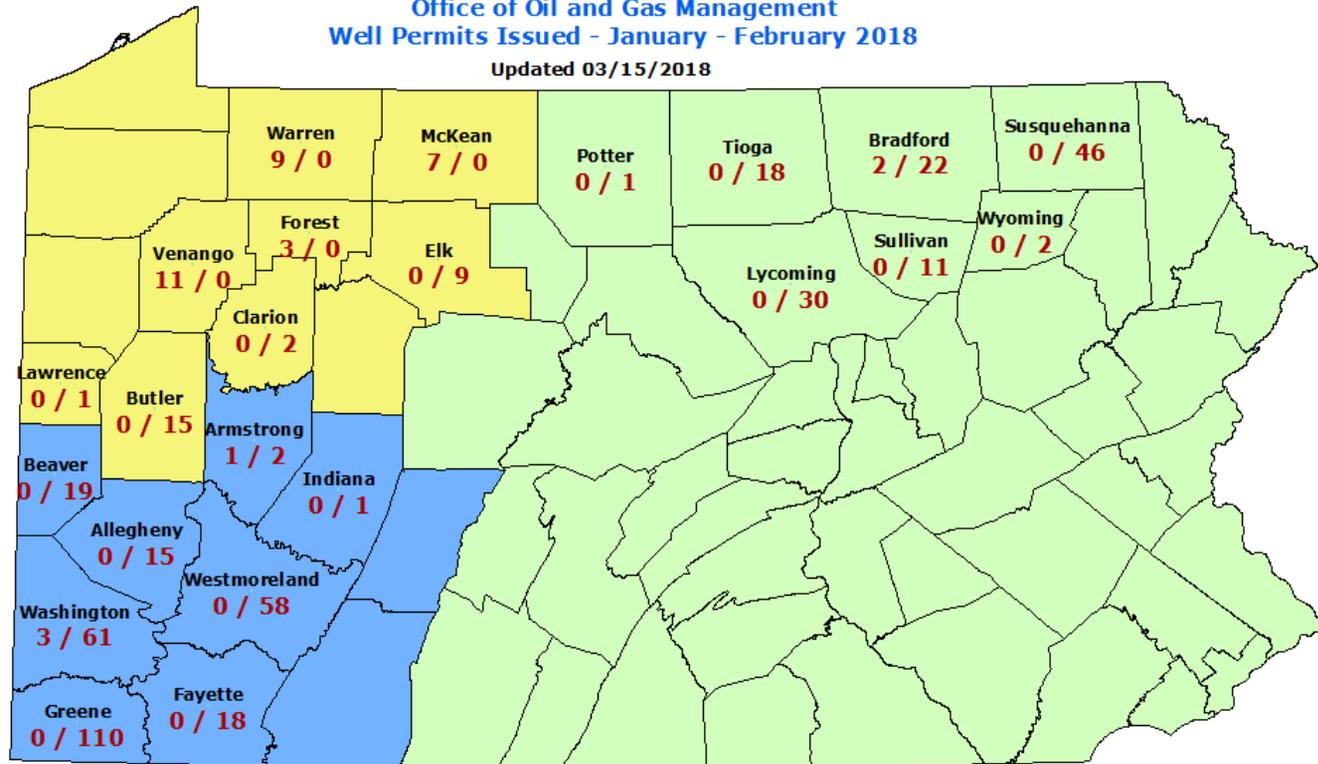


Unconventional Permits Issued - 699 Unconventional Wells Drilled - 194



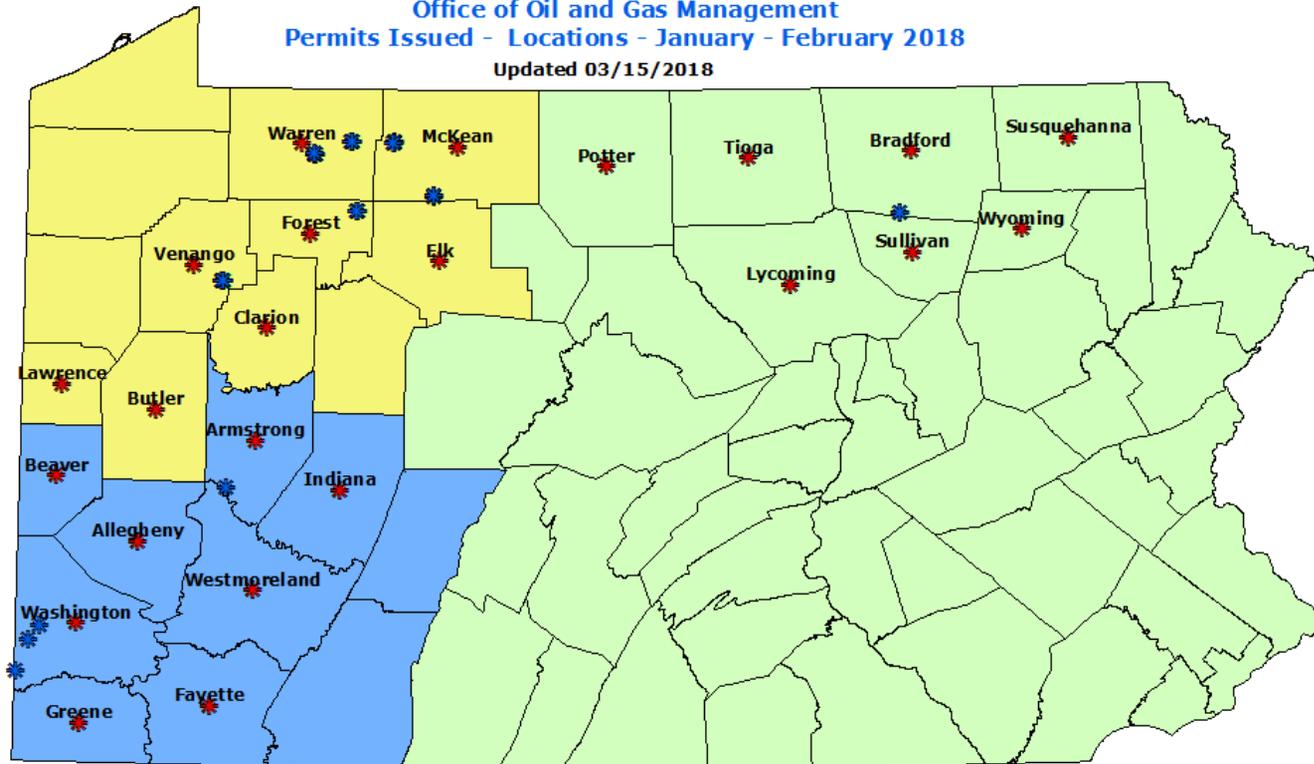
Department of Environmental Protection  
Office of Oil and Gas Management  
Well Permits Issued - January - February 2018

Updated 03/15/2018



Conventional - 36 + Unconventional - 441 = Total - 477

Department of Environmental Protection  
Office of Oil and Gas Management  
Permits Issued - Locations - January - February 2018  
Updated 03/15/2018



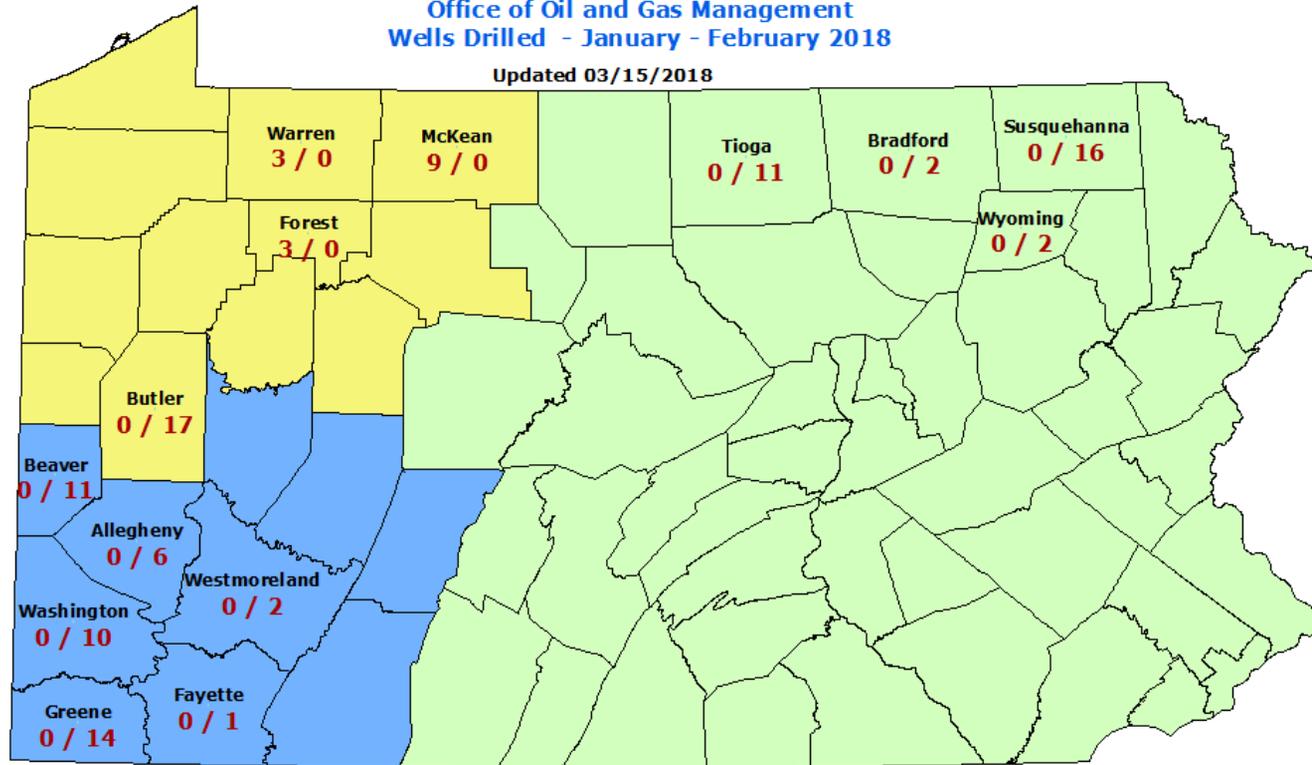
\* Conventional Wells

\* Unconventional Wells

Conventional - 36 + Unconventional - 441 = Total - 477

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January - February 2018

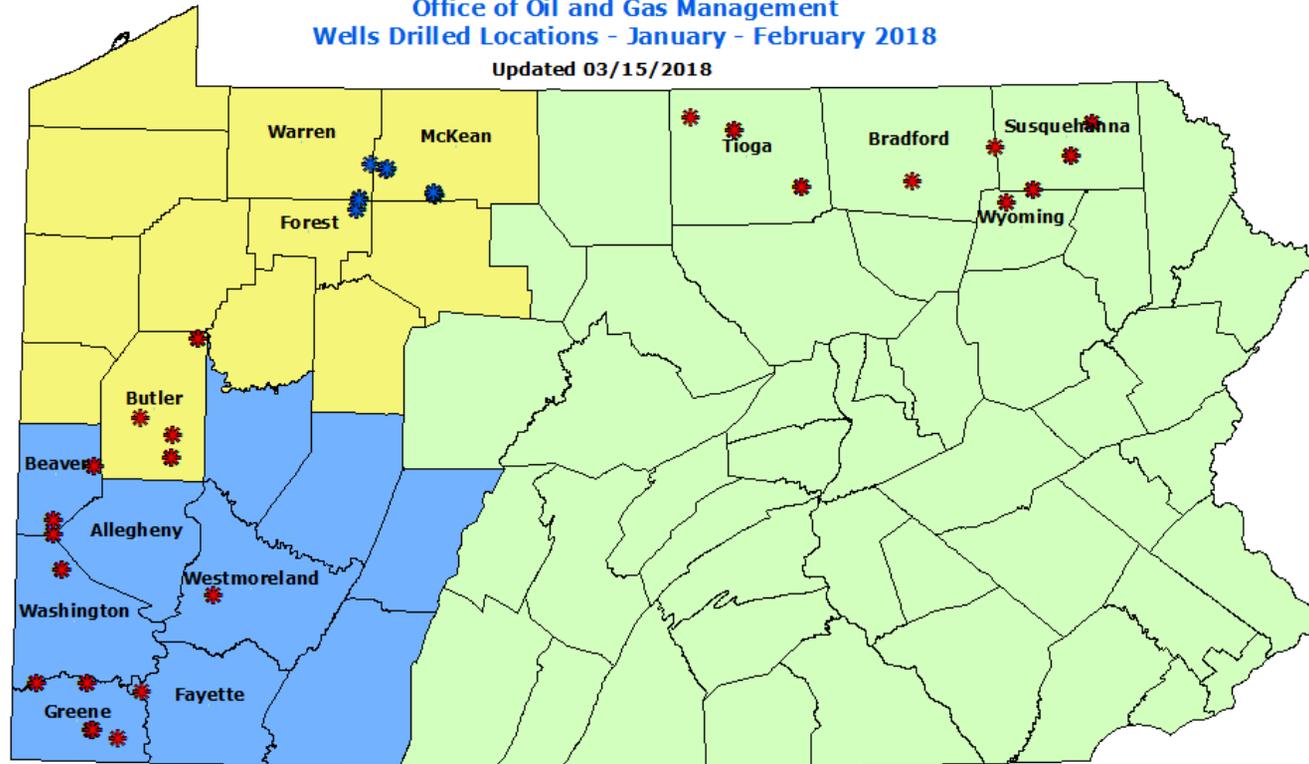
Updated 03/15/2018



(Conventional) - 15 + (Unconventional) - 92 = Total - 107

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January - February 2018

Updated 03/15/2018



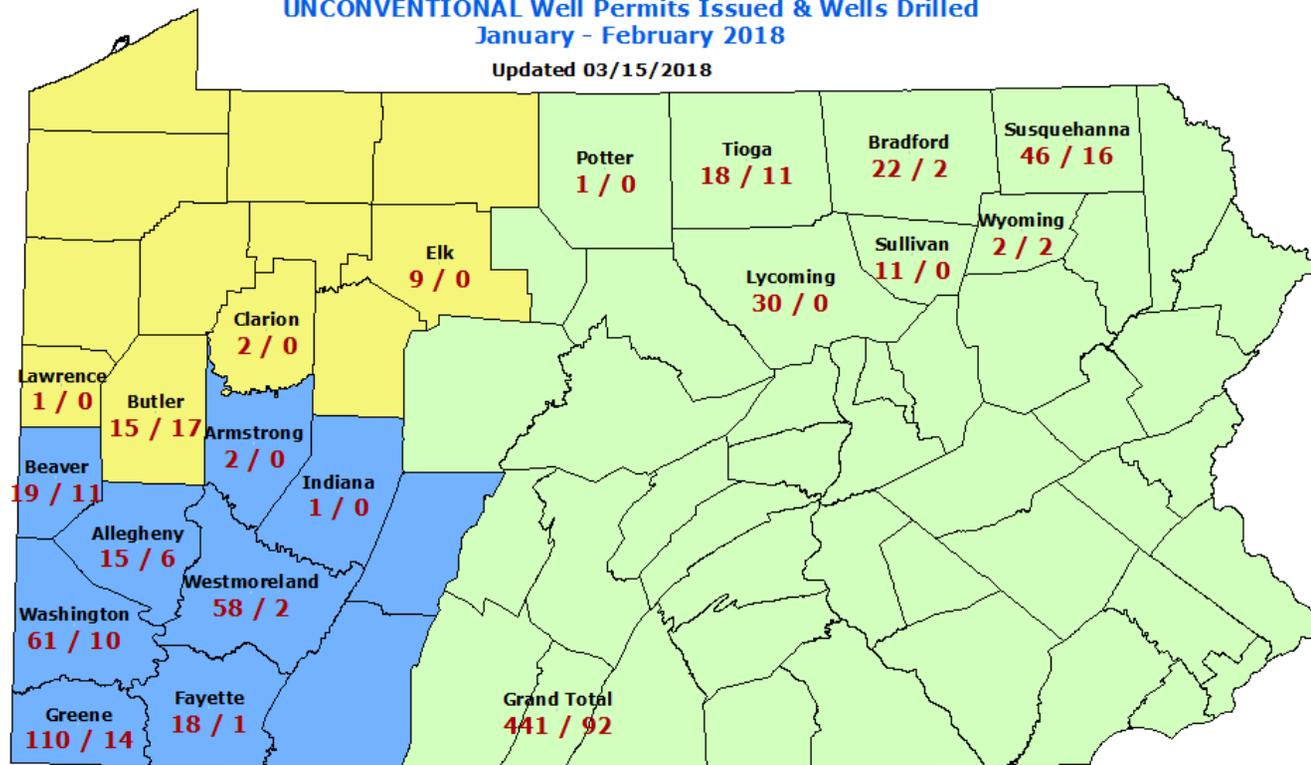
 Conventional Wells

 Unconventional Wells

(Conventional) - 15 + (Unconventional) - 92 = Total - 107

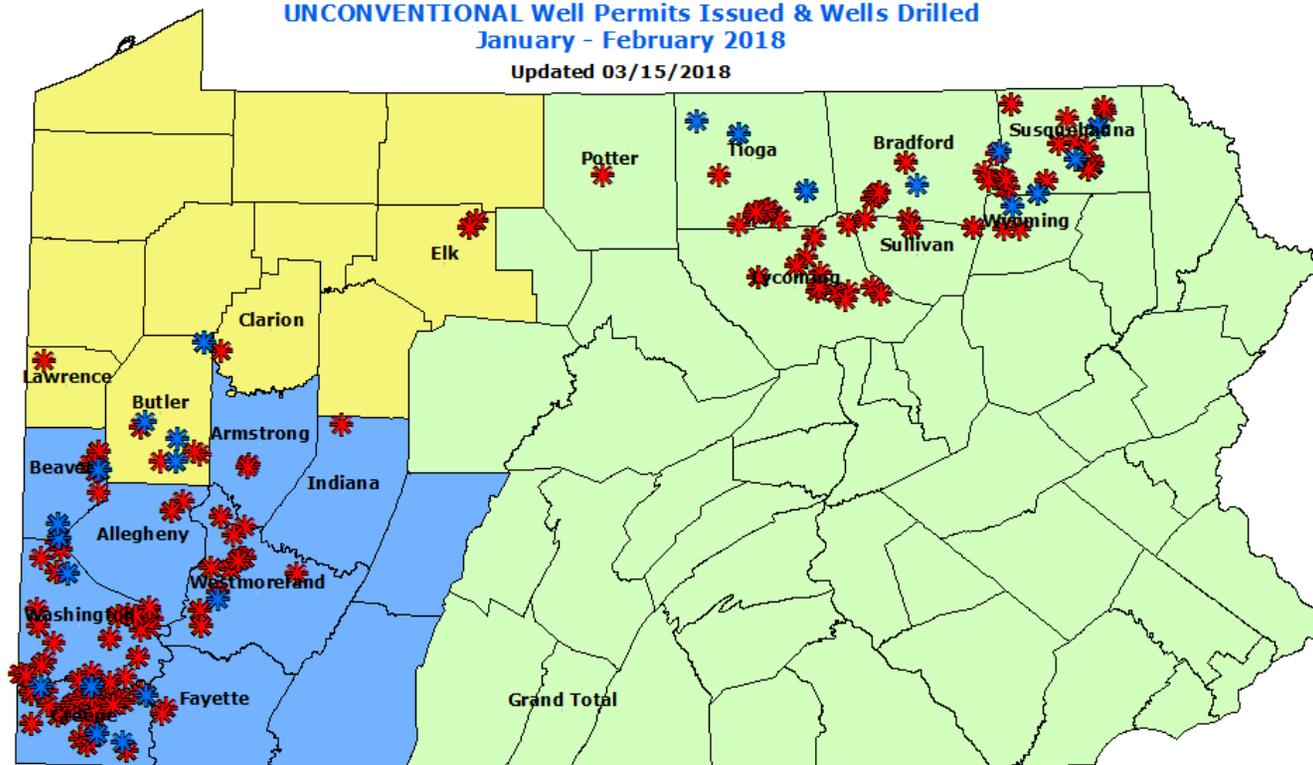
Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - February 2018

Updated 03/15/2018



Unconventional Permits Issued - 441    Unconventional Wells Drilled - 92

Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January - February 2018  
Updated 03/15/2018



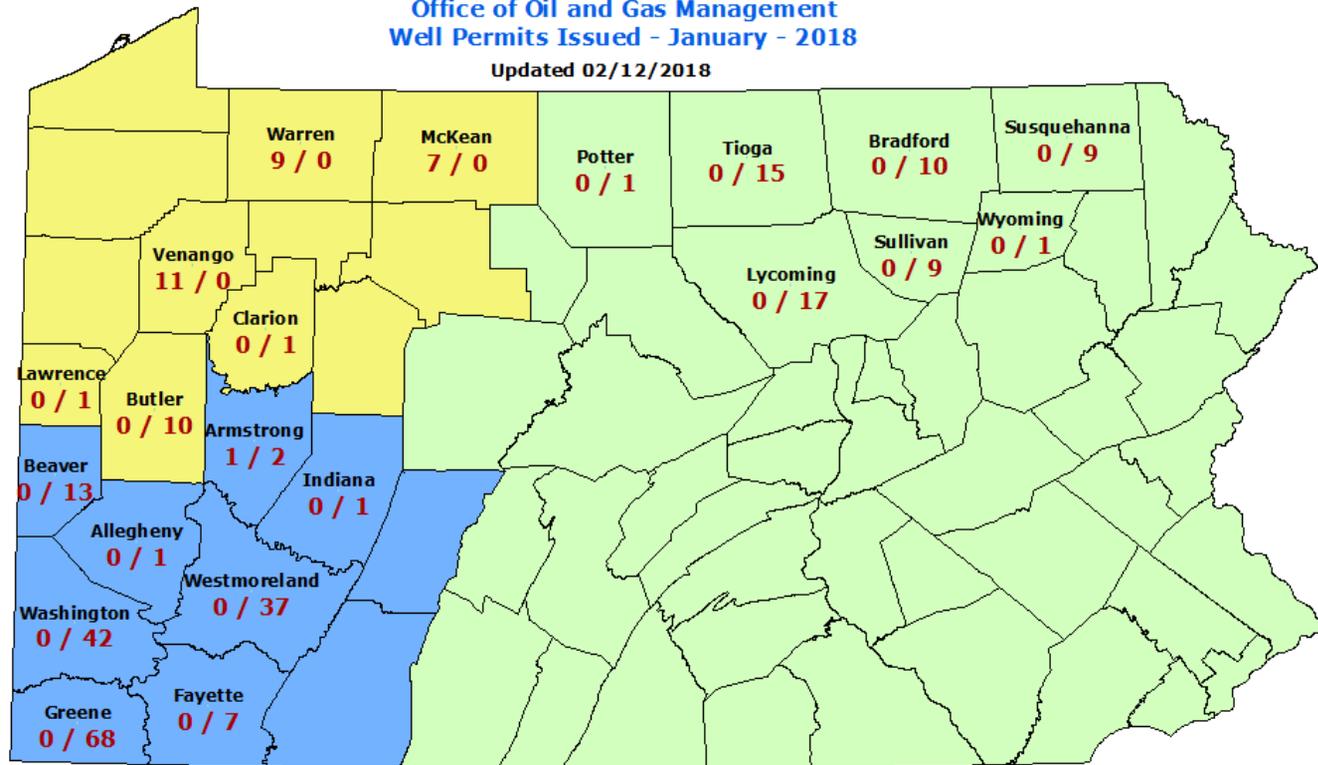
Unconventional Permits Issued - 441



Unconventional Wells Drilled - 92

Department of Environmental Protection  
Office of Oil and Gas Management  
Well Permits Issued - January - 2018

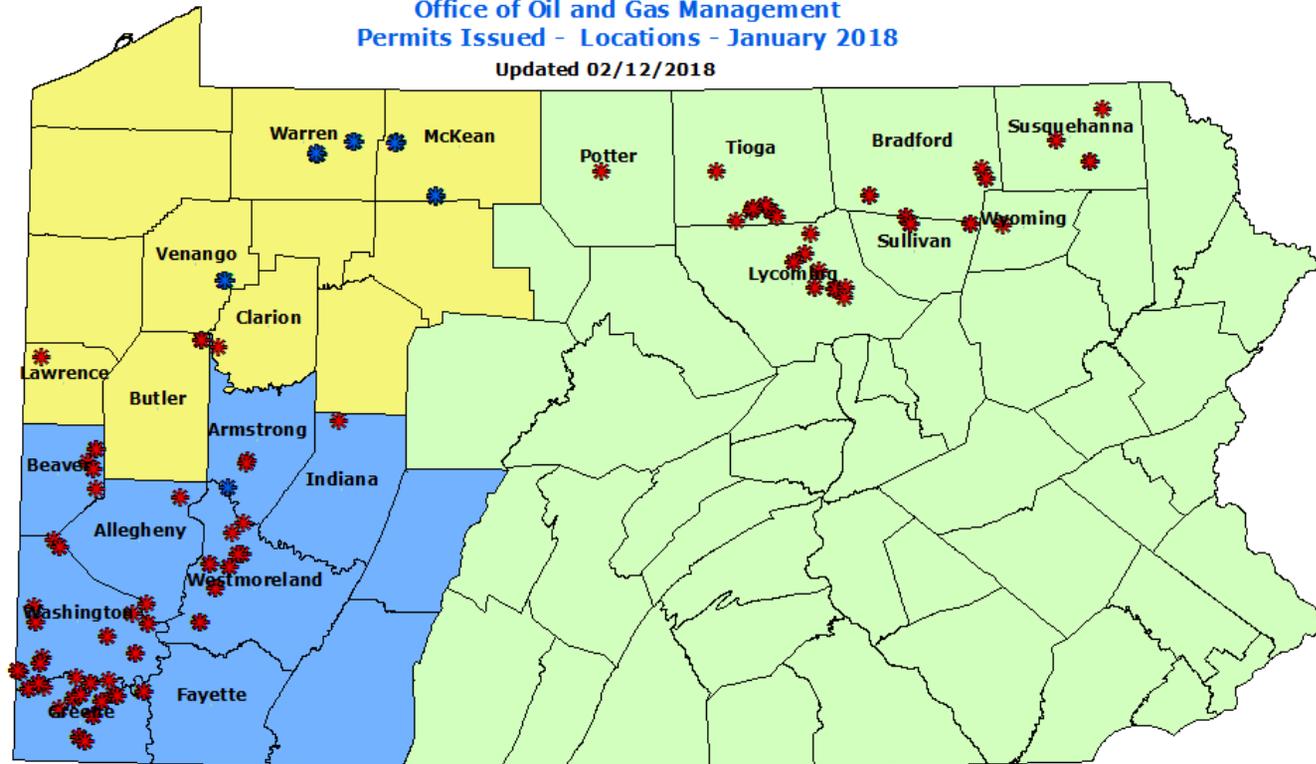
Updated 02/12/2018



Conventional - 28 + Unconventional - 245 = Total - 273

Department of Environmental Protection  
Office of Oil and Gas Management  
Permits Issued - Locations - January 2018

Updated 02/12/2018



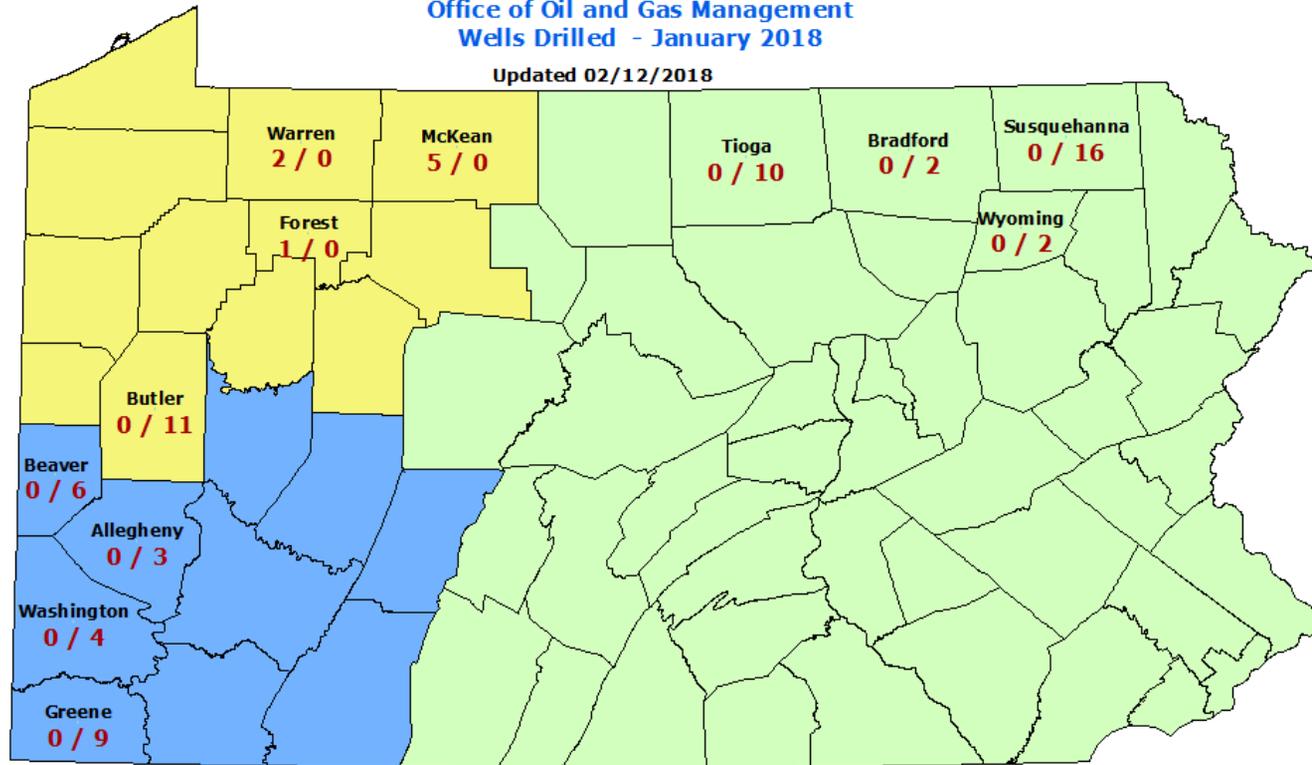
 Conventional Wells

 Unconventional Wells

Conventional - 28 + Unconventional - 245 = Total - 273

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled - January 2018

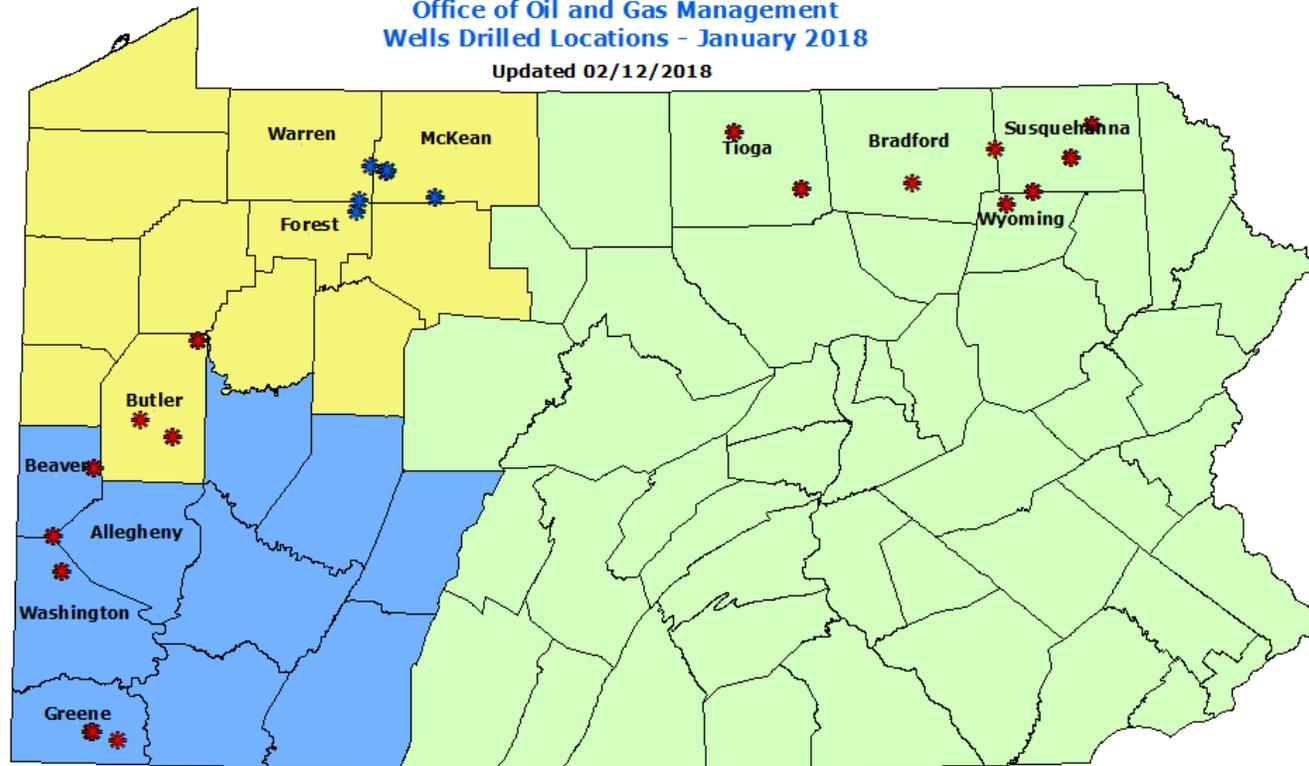
Updated 02/12/2018



(Conventional) - 8 + (Unconventional) - 63 = Total - 71

Department of Environmental Protection  
Office of Oil and Gas Management  
Wells Drilled Locations - January 2018

Updated 02/12/2018



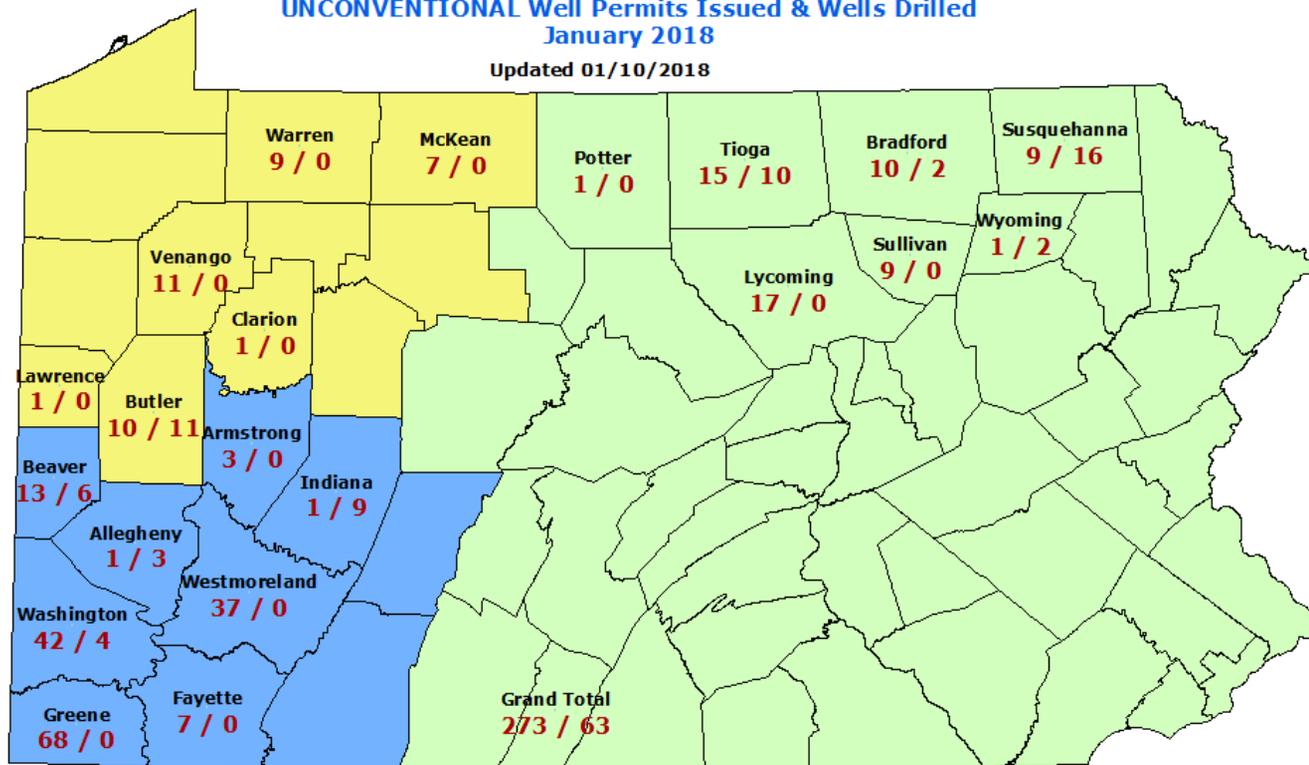
\* Conventional Wells

\* Unconventional Wells

(Conventional) - 8 + (Unconventional) - 63 = Total - 71

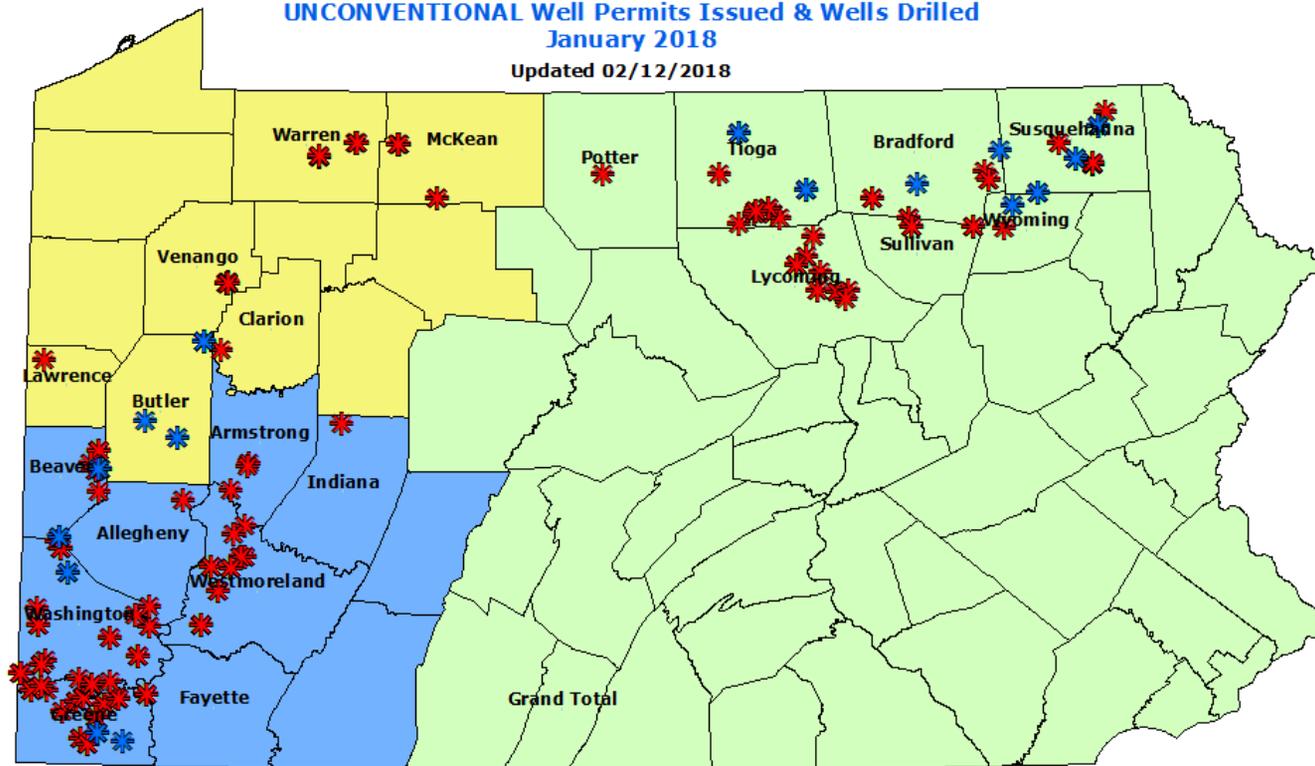
Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January 2018

Updated 01/10/2018



Unconventional Permits Issued - 273    Unconventional Wells Drilled - 63

Department of Environmental Protection  
Office of Oil and Gas Management  
**UNCONVENTIONAL Well Permits Issued & Wells Drilled**  
January 2018  
Updated 02/12/2018



Unconventional Permits Issued - 273



Unconventional Wells Drilled - 63