

This Week's Highlight – Marcellus

BASIN Digest

A Weekly Overview of Basin Activity October 18 - 24, 2021

The Basin Digest update presents the rig activity, product pricing, and permitting information for the six-state region referred to as the Appalachian Basin.

The Basin Digest is based primarily on data from JKPC's [Appalachian Basin Database](#) covering OH, PA, WV, KY, VA and NY. The database is derived from state reported data and Frac Focus data and includes all horizontal wells ranging from permitted status to producing. Formations in the database include Burkett (Geneseo), Marcellus, Utica, Lower Huron, Clinton and others.

We want your feedback!

Is there an area of horizontal wells that you would like to see in our newsletter as a highlight? Tell us what you would like to see in Basin Digest. [Click here to submit your questions or feedback.](#)

Rig Activity Summary

The table below presents the average weekly horizontal rig count based on information from Baker Hughes and Rig Data.

STATE	WEEK 1	WEEK 2	WEEK 3	WEEK 4
OH	12	11	11	-
PA	20	20	20	-
WV	11	12	13	-
VA	0	0	0	-
KY	0	0	0	-
NY	0	0	0	-
TOTAL	43	43	44	-

Product Pricing Summary

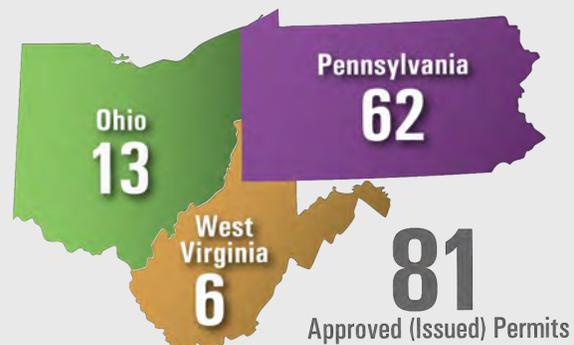
The table below presents the closing weekly prices based on various public data sources (ERGON/DIRECT ENERGY/ICE).

PRODUCT	WEEK 1	WEEK 2	WEEK 3	WEEK 4
Oil – Crude Tier I	78.350	81.280	82.760	-
Marcellus-Utica Med	78.350	81.280	82.760	-
Marcellus-Utica Light	69.350	72.280	73.760	-
Marcellus-Utica Cond	64.350	67.280	68.760	-
Natural Gas HH	5.565	5.410	5.280	-
Natural Gas DTI	4.870	4.733	4.590	-
Natural Gas TCO	4.970	4.828	4.698	-
NGL - Y Grade	46.678	47.346	46.727	-

Permitting Summary by State

The table below presents the approved (issued) permits by week based on various state public data sources (ODNR/PADEP/WVDEP).

STATE	WEEK 1	WEEK 2	WEEK 3	WEEK 4	TOTAL
OH	2	5	6	-	13
PA	26	12	24	-	62
WV	5	0	1	-	6
TOTAL	33	17	31	-	81



The Virginia, Kentucky, and New York data is not up to date although there has been little recent horizontal activity in those states.

The table (below) presents a breakout of the approved (issued) permits for the week from **October 18 - 24, 2021**

STATE	OPERATOR	NEW	MODIFIED	RENEWED	TOTAL
OH	Ascent	Belmont - 1	-	-	1
OH	Ufca Resource Operating	Guernsey - 2	-	-	2
OH	Encino	Harrison - 3	-	-	3
PA	Pennenergy	Butler - 6	-	-	6
PA	Rice	-	-	Greene - 1	1
PA	EQT	Greene - 3	-	-	3
PA	Coterra	Susquehanna - 3	-	-	3
PA	Repsol	Tioga - 6	Tioga - 4	-	10
PA	EQT	Washington - 1	-	-	1
WV	Tug Hill	Marshall - 1	-	-	1
TOTAL		26	4	1	31

Marcellus

The table (below) presents the approved (issued) permits by quarter based on various state public data sources (ODNR / PADEP / WVDEP).

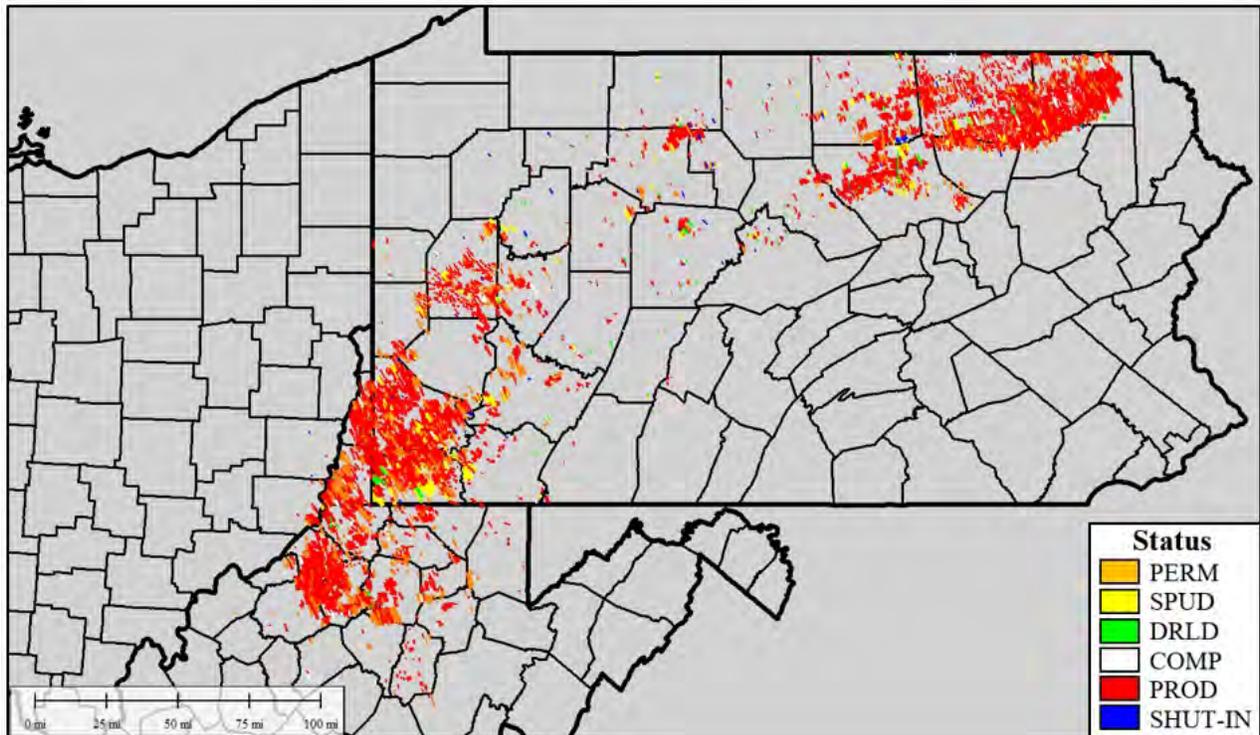
Permit Summary

YEAR	OH	PA	WV	TOTAL
Prior	-	1,220	232	1,452
2010	3	1,435	179	1,617
2011	2	1,510	338	1,850
2012	5	1,108	387	1,500
2013	14	1,208	550	1,772
2014	2	1,030	482	1,514
2015	-	721	411	1,132
2016	1	862	225	1,088
2017	7	1,080	470	1,557
2018	12	951	360	1,323
2019	12	792	409	1,213
2019	3	507	186	696
2021*	-	382	181	563
TOTAL	61	12,806	4,410	17,277

Well Count by Status by County

STATE	COUNTY	PERM	SPUD	DRLD	COMP	PROD	SI	TOTAL
PA	Washington	289	98	2	10	1,739	35	2,173
PA	Susquehanna	163	70	8	31	1,660	7	1,939
PA	Bradford	143	59	15	23	1,387	8	1,635
PA	Greene	221	165	27	9	1,113	16	1,551
PA	Lycoming	103	81	19	15	889	18	1,125
PA	Tioga	82	124	12	13	681	31	943
WV	Doddridge	140	-	-	12	583	2	737
WV	Marshall	212	-	6	18	460	17	713
PA	Butler	101	37	4	14	478	7	641
WV	Tyler	126	-	3	13	452	-	594
OH/PA/WV	Other (53)	1,122	311	102	112	3,475	104	5,226
TOTAL		2,702	945	198	270	12,917	245	17,277

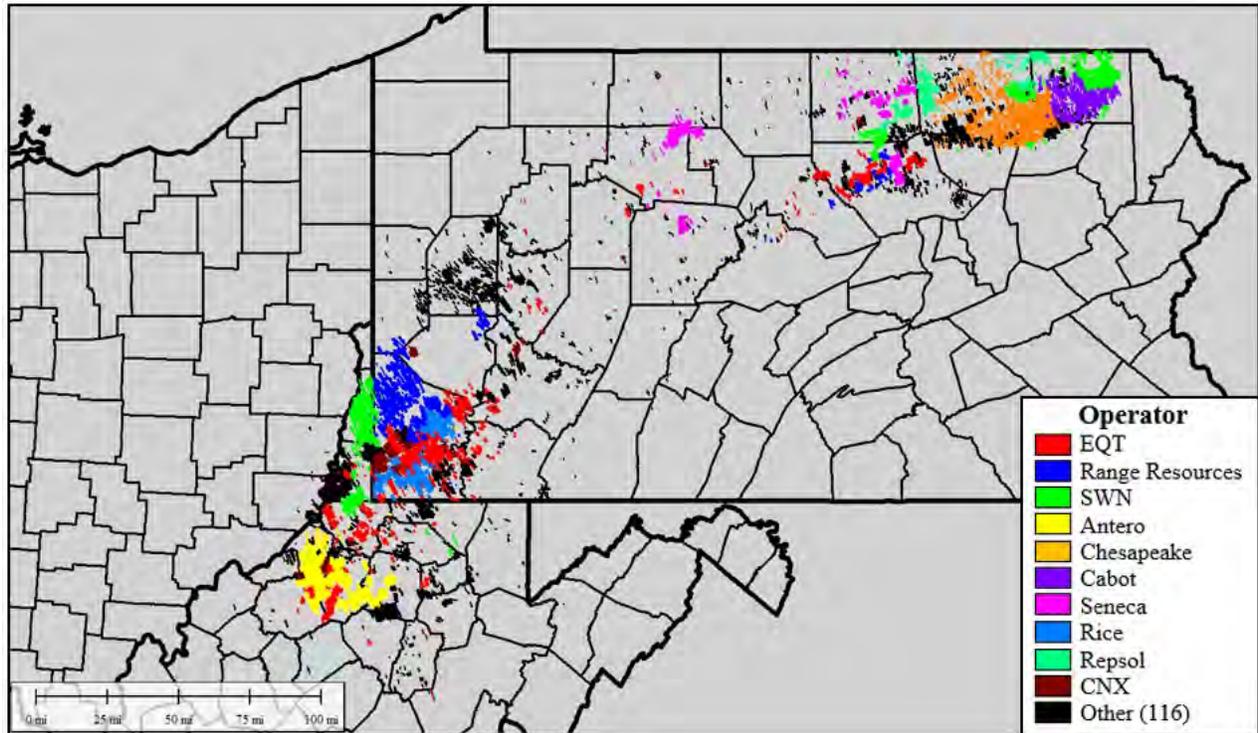
Marcellus Wells by Status



Well Count by Status by Operator

OPERATOR	PERM	SPUD	DRLD	COMP	PROD	SI	TOTAL
EQT	371	94	21	19	2,041	26	2,572
Range Resources	171	66	4	9	1,380	22	1,652
SWN	254	31	8	15	1,257	24	1,589
Antero	260	-	10	13	1,054	6	1,343
Chesapeake	133	37	8	17	990	6	1,191
Cabot	66	32	-	22	864	3	987
Seneca	31	61	28	8	755	15	898
Rice	147	85	15	10	474	8	739
Repsol	39	27	5	1	611	3	686
CNX	99	37	12	8	442	4	602
Other (116)	1,131	475	87	148	3,049	128	5,018
TOTAL	2,702	945	198	270	12,917	245	17,277

Marcellus Wells by Operator



Well Production Summary

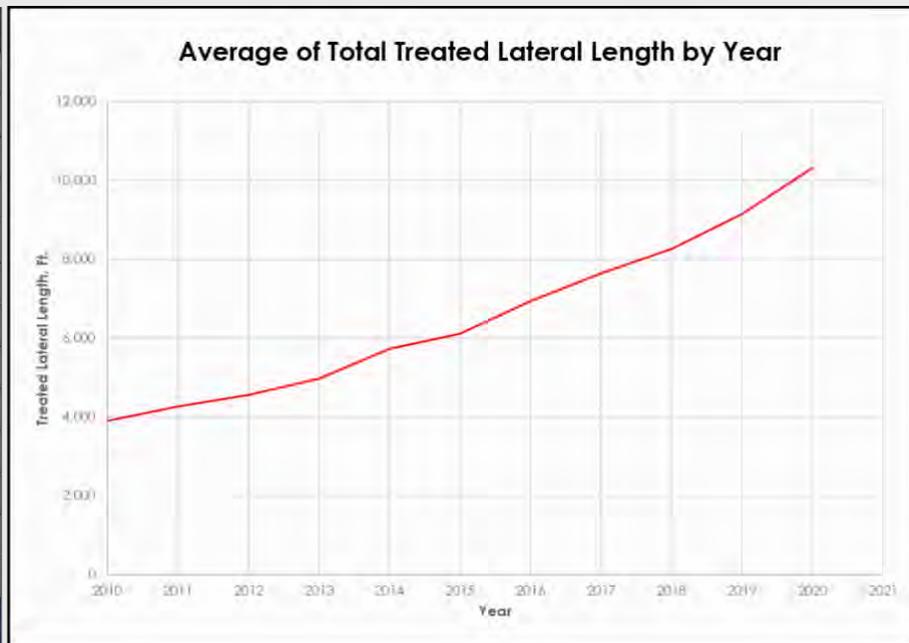
YEAR	GAS (MCF)	OIL (BBL)
Prior	78,405,621	332,010
2010	450,267,898	779,980
2011	1,218,720,005	1,477,521
2012	2,342,460,309	2,783,231
2013	3,618,807,807	7,774,081
2014	4,878,371,147	10,565,176
2015	5,588,665,322	12,162,838
2016	6,080,943,879	10,836,405
2017	6,514,867,018	13,162,740
2018	7,341,467,380	16,505,011
2019	7,774,249,010	18,420,076
2020	8,318,447,906	18,662,241
TOTAL	54,205,673,301	113,461,311

Producing Well Summary

YEAR	PROD WELLS BY YEAR	CUMULATIVE TOTAL
Prior	337	337
2010	809	1,146
2011	1,396	2,542
2012	1,506	4,048
2013	1,509	5,557
2014	1,550	7,107
2015	1,166	8,273
2016	675	8,948
2017	889	9,837
2018	1,073	10,910
2019	980	11,890
2020	718	12,608
2021*	309	12,917
TOTAL	12,917	12,917

Marcellus Producing Well Average TTL by Year

YEAR	AVERAGE TTL
Prior	2,941
2010	3,909
2011	4,274
2012	4,558
2013	4,968
2014	5,733
2015	6,117
2016	6,937
2017	7,651
2018	8,271
2019	9,145
2020	10,319
2021*	9,698
AVERAGE	6,502



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*Listen well to wise counsel and be willing to learn from correction
so that by the end of your life you'll be known for your wisdom.
Proverbs 19:20*

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