

## Highlight – Wetzel County, West Virginia



*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, and WV. 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, Marcellus, and Utica.

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### Rig Activity Summary

The average weekly horizontal rig count based on information from Baker Hughes.

STATE	WEEK 1	WEEK 2	WEEK 3	WEEK 4
OH	11	11	-	-
PA	24	24	-	-
WV	14	14	-	-
<b>TOTAL</b>	<b>49</b>	<b>49</b>	-	-

### Product Pricing Summary

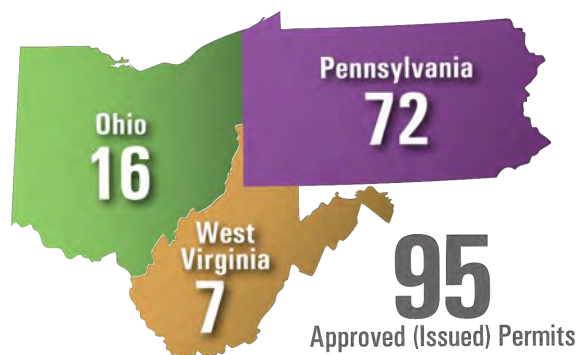
The table below presents the closing weekly prices based on various public data sources (ERGON/DIRECT ENERGY/ICE). Diff +/- is the difference in price between the current week and the previous week.

PRODUCT	WEEK 1	WEEK 2	WEEK 3	WEEK 4	Diff +/-
Oil – Crude Tier I	103.790	96.590	-	-	<b>-7.200</b>
Marcellus-Utica Med	103.790	96.590	-	-	<b>-7.200</b>
Marcellus-Utica Light	94.790	87.590	-	-	<b>-7.200</b>
Marcellus-Utica Cond	89.790	82.590	-	-	<b>-7.200</b>
Natural Gas HH	6.034	7.016	-	-	<b>+0.982</b>
Natural Gas DTI	5.309	6.231	-	-	<b>+0.922</b>
Natural Gas TCO	5.364	6.331	-	-	<b>+0.967</b>
NGL - Y Grade	43.491	43.071	-	-	<b>-0.420</b>

## 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	5	11	-	-	16
PA	38	34	-	-	72
WV	7	0	-	-	7
<b>TOTAL</b>	<b>50</b>	<b>45</b>	<b>-</b>	<b>-</b>	<b>95</b>



## Permit Summary Detail

for the two-week period from July 1 - 15, 2022

STATE	OPERATOR	NEW	MODIFIED	RENEWED	TOTAL
OH	Ascent	Jefferson - 4	-	-	4
OH	Encino	Carroll - 4 Jefferson - 2	-	-	6
OH	EOG Resources	Carroll - 1	-	-	1
OH	Gulfport	Belmont - 1	-	-	1
OH	Hilcorp	Columbiana - 4	-	-	4
PA	Apex Energy	Westmoreland - 5	-	-	5
PA	Chesapeake	Bradford - 4 Susquehanna - 2 Wyoming - 3	Bradford - 2	-	11
PA	Clean Energy	Tioga - 8	-	-	8
PA	CNX	Washington - 6	Washington - 1	-	7
PA	Coterra	Susquehanna - 6	-	-	6
PA	Inflection Energy	-	-	Lycorning - 1	1
PA	Laurel Mountain	-	-	Clarion - 4	4
PA	Repsol	Bradford - 6	-	-	6
PA	Olympus Energy	Allegheny - 6 Westmoreland - 12	-	-	18
PA	Pennenergy	Armstrong - 1	-	-	1
PA	Range Resources	Washington - 3	-	-	3
PA	SWN	-	-	Bradford - 2	2
WV	Antero	Doddridge - 7	-	-	7
<b>TOTAL</b>		<b>85</b>	<b>3</b>	<b>7</b>	<b>95</b>

# HIGHLIGHT: Wetzel County, WV

## Permit Summary

The graph (below) presents the approved (issued) permits by year based on various state public data sources (WVDNR).

YEAR	PERMITS
Prior	46
2010	30
2011	65
2012	86
2013	105
2014	55
2015	54
2016	25
2017	35
2018	18
2019	13
2020	22
2021	61
2022*	16
<b>TOTAL</b>	<b>631</b>



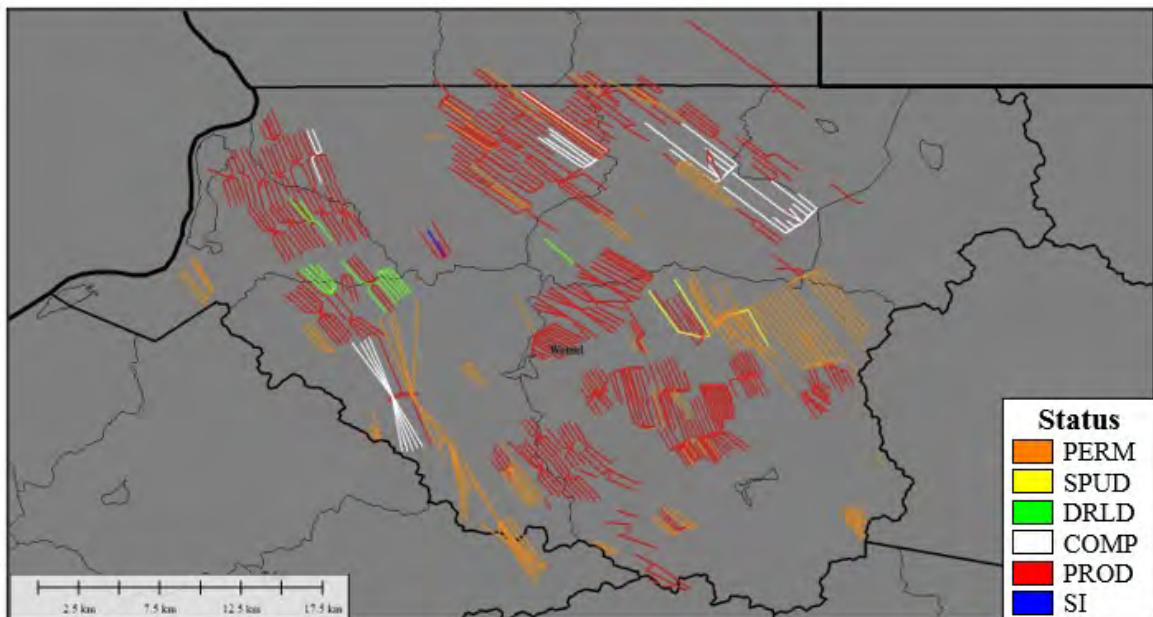
## Wetzel County, WV Recent Permitting Activity (2022)

NO.	API	PERMIT DATE	TOWNSHIP	OPERATOR	RESERVOIR
1	47-103-03474-0000	01/18/2022	Green	EQT	Marcellus
2	47-103-03476-0000	01/13/2022	Green	Tribune	Marcellus
3	47-103-03477-0000	01/18/2022	Green	Tribune	Marcellus
4	47-103-03467-0000	02/11/2022	Proctor	Tug Hill	Utica
5	47-103-03479-0000	03/02/2022	Green	Antero	Marcellus
6	47-103-03480-0000	03/02/2022	Green	Antero	Marcellus
7	47-103-03481-0000	03/02/2022	Green	Antero	Marcellus
8	47-103-03482-0000	03/02/2022	Green	Antero	Marcellus
9	47-103-03478-0000	03/02/2022	Green	Antero	Marcellus
10	47-103-03494-0000	04/28/2022	Green	Antero	Marcellus
11	47-103-03493-0000	04/28/2022	Green	Antero	Marcellus
12	47-103-03496-0000	04/28/2022	Green	Antero	Marcellus
13	47-103-03497-0000	04/28/2022	Green	Antero	Marcellus
14	47-103-03495-0000	04/28/2022	Green	Antero	Marcellus
15	47-103-03507-0000	06/28/2022	Proctor	SWN	Marcellus
16	47-103-03508-0000	06/28/2022	Proctor	SWN	Marcellus

### Well Count by Status by Operator

OPERATOR	PERM	SPUD	DRLD	COMP	PROD	SI	TOTAL
EQT	65	3	13	16	282	1	380
SWN	16	-	-	5	88	-	109
Tribune	7	-	-	-	47	-	54
Antero	28	-	-	9	2	-	39
Ascent	8	-	-	-	-	-	8
Eclipse	-	-	-	-	7	-	7
Trans Energy	6	-	-	-	-	-	6
Stone Energy	3	-	1	1	-	-	5
American Energy	4	-	-	-	-	-	4
Statoil	4	-	-	-	-	-	4
Triad Hunter	-	-	-	-	4	-	4
DAC	2	-	1	-	-	-	3
Gaslar	3	-	-	-	-	-	3
Tug Hill	3	-	-	-	-	-	3
Jay Bee	-	-	-	-	2	-	2
<b>TOTAL</b>	<b>149</b>	<b>3</b>	<b>15</b>	<b>31</b>	<b>432</b>	<b>1</b>	<b>631</b>

### Wells by Status - Wetzel County, WV



### Well Count by Reservoir by Status

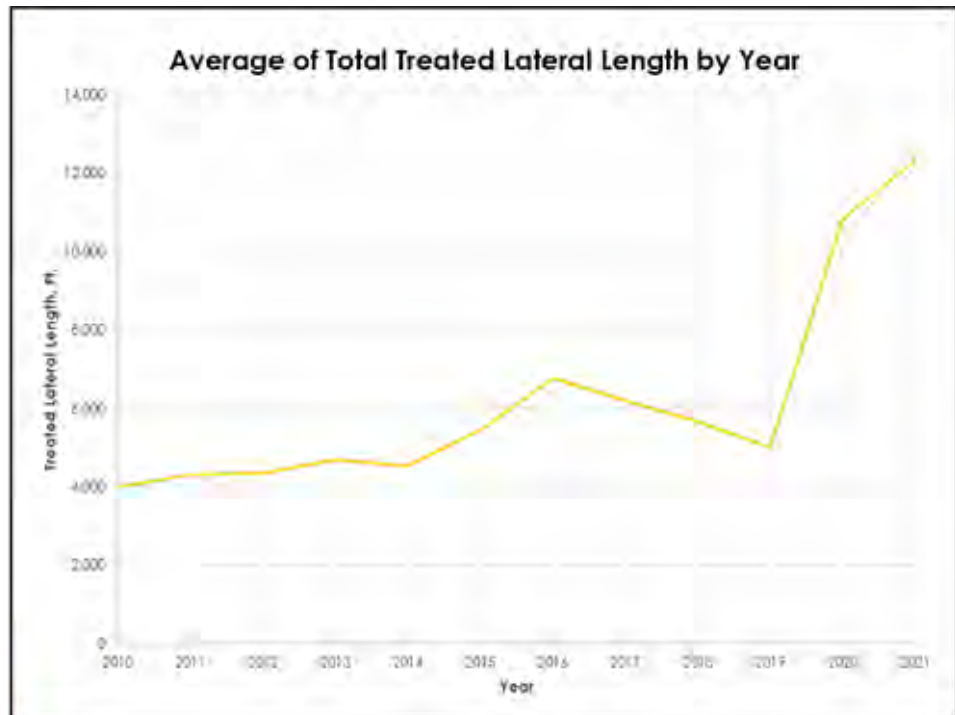
RESERVOIR	PERM	SPUD	DRLD	COMP	PROD	SI	TOTAL
Burkett	16	-	-	-	20	1	37
Marcellus	122	3	15	31	408	-	579
Ulica	11	-	-	-	4	-	15
<b>TOTAL</b>	<b>149</b>	<b>3</b>	<b>15</b>	<b>31</b>	<b>432</b>	<b>1</b>	<b>631</b>

## Producing Well Summary

YEAR	PROD WELLS BY YEAR	CUMULATIVE TOTAL
Prior	15	15
2010	23	38
2011	29	67
2012	35	102
2013	78	180
2014	86	266
2015	55	321
2016	18	339
2017	24	363
2018	39	402
2019	6	408
2020	15	423
2021	9	432
2022*	-	432
<b>TOTAL</b>	<b>432</b>	<b>432</b>

## Wetzel County, WV Producing Well Average TTL by Year

YEAR	AVERAGE TTL
Prior	3,846
2010	3,995
2011	4,315
2012	4,330
2013	4,696
2014	4,539
2015	5,437
2016	6,749
2017	6,208
2018	5,658
2019	4,985
2020	10,833
2021	12,317
2022*	-
<b>AVERAGE</b>	<b>5,993</b>



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AN OVERVIEW OF BASIN ACTIVITY

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*Rejoice always. Pray without ceasing.  
In all circumstances give thanks, for this is the will of God for you in Christ Jesus.  
1 Thessalonians 5:16-18*

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