

Highlight – Columbiana County, Ohio



*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.

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**Rig Activity Summary**

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	10	12	13	-
PA	27	25	23	-
WV	16	16	14	-
VA	0	0	0	-
KY	0	0	0	-
NY	0	0	0	-
<b>TOTAL</b>	<b>53</b>	<b>53</b>	<b>50</b>	<b>-</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.

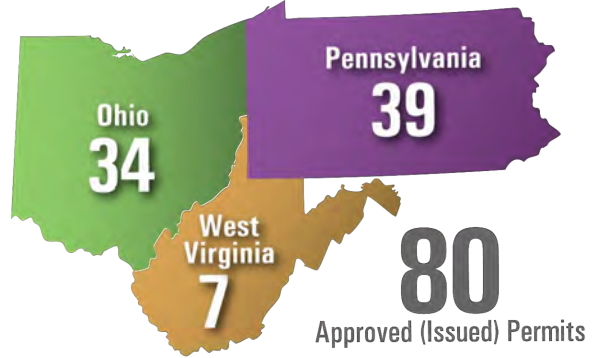
PRODUCT	WEEK 1	WEEK 2	WEEK 3	WEEK 4	Diff +/-
Oil – Crude Tier I	91.310	92.100	90.070	-	- 2.030
Marcellus-Utica Med	91.310	92.100	90.070	-	- 2.030
Marcellus-Utica Light	82.310	83.100	81.070	-	- 2.030
Marcellus-Utica Cond	77.310	78.100	76.070	-	- 2.030
Natural Gas HH	4.572	3.941	4.431	-	+ 0.490
Natural Gas DTI	4.012	3.316	3.764	-	+ 0.448
Natural Gas TCO	4.137	3.441	3.886	-	+ 0.445
NGL - Y Grade	44.561	43.987	44.251	-	+ 0.264

## Permitting Summary by State

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

STATE	WEEK 1	WEEK 2	WEEK 3	WEEK 4	TOTAL
OH	7	18	9	-	34
PA	13	26	*	-	39
WV	1	4	2	-	7
<b>TOTAL</b>	<b>21</b>	<b>48</b>	<b>11</b>	<b>-</b>	<b>80</b>

The Virginia, Kentucky, and New York data has been excluded due to little recent horizontal activity in those states.



## Permit Summary Detail

for the week from February 14 - 20, 2022

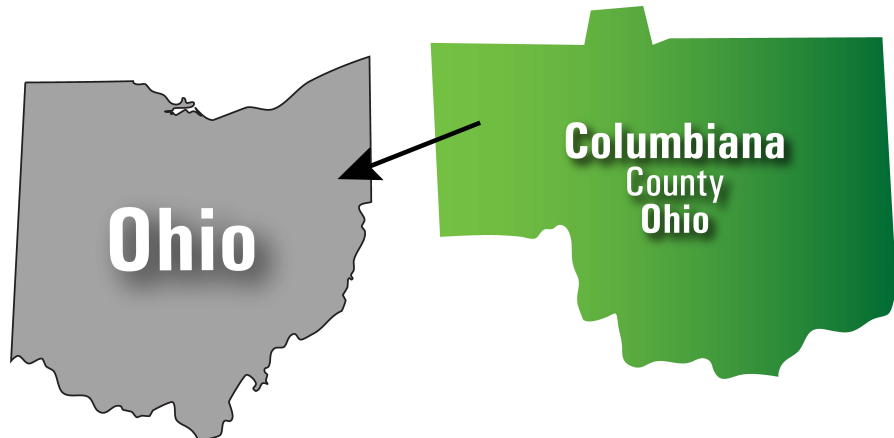
STATE	OPERATOR	NEW	MODIFIED	RENEWED	TOTAL
OH	Ascent	Belmont - 4	-	-	4
OH	Encino	Columbiana - 1	-	-	1
OH	Ascent	Harrison - 2	-	-	2
OH	Ascent	Jefferson - 2	-	-	2
PA	Pennsylvania Permit Information Currently Unavailable				
WV	Antero	Doddridge - 1	-	-	1
WV	SWN	Marshall - 1	-	-	1
<b>TOTAL</b>		<b>11</b>	<b>-</b>	<b>-</b>	<b>11</b>

## HIGHLIGHT: Columbiana County, Ohi

### Permit Summary

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

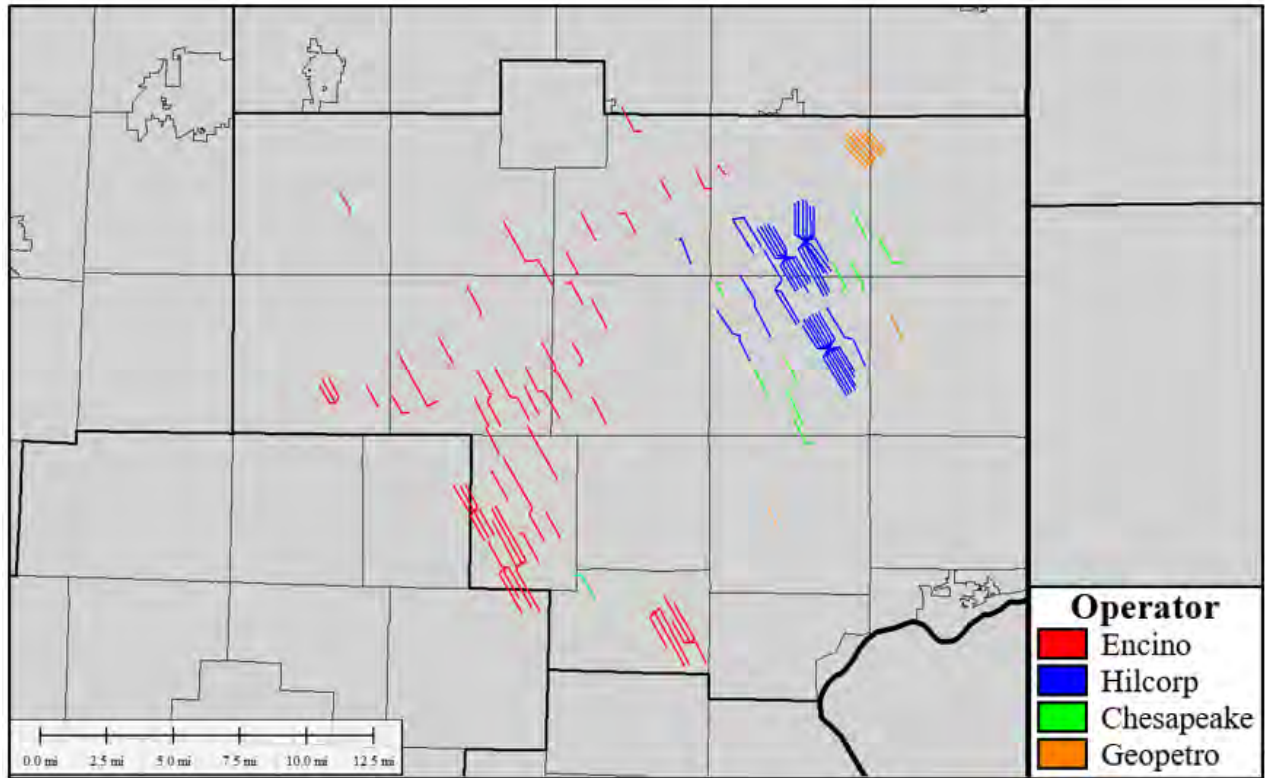
YEAR	PERMITS
Prior	-
2010	-
2011	4
2012	19
2013	25
2014	9
2015	6
2016	12
2017	18
2018	8
2019	4
2020	12
2021	21
2022*	7
<b>TOTAL</b>	<b>145</b>



### Well Count by County by Status by Operator

OPERATOR	PERM	SPUD	DRLD	COMP	PROD	SI	TOTAL
Encino	8	-	-	-	61	-	69
Hilcorp	16	14	-	11	16	-	57
Chesapeake	-	-	1	9	-	-	10
Geopetro	-	-	-	2	7	-	9
<b>TOTAL</b>	<b>24</b>	<b>14</b>	<b>1</b>	<b>22</b>	<b>84</b>	<b>-</b>	<b>145</b>

### Wells by Operator

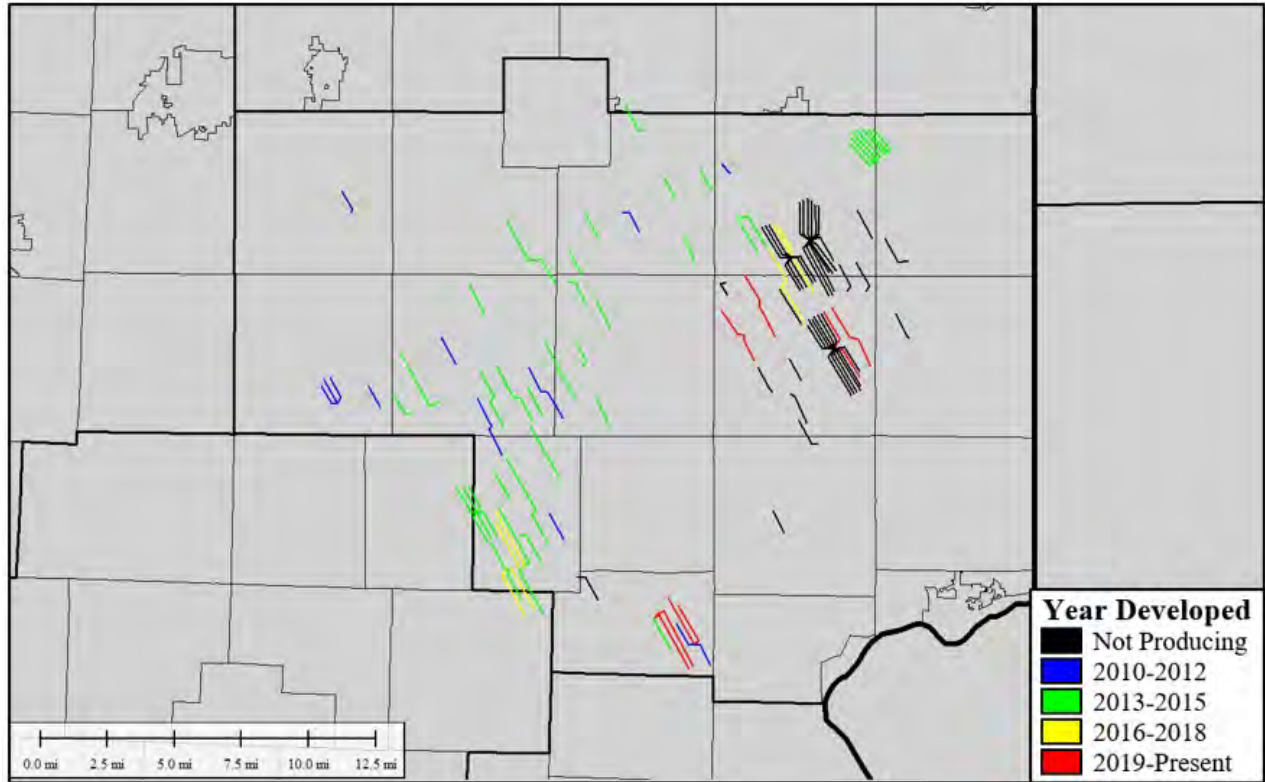


### Well Count by Reservoir by Status

RESERVOIR	PERM	SPUD	DRLD	COMP	PROD	SI	TOTAL
Burkett	-	-	-	-	-	-	-
Marcellus	-	-	-	-	-	-	-
Ulica	24	14	1	22	84	-	145
<b>TOTAL</b>	<b>24</b>	<b>14</b>	<b>1</b>	<b>22</b>	<b>84</b>	<b>-</b>	<b>145</b>



## Wells by Year Developed

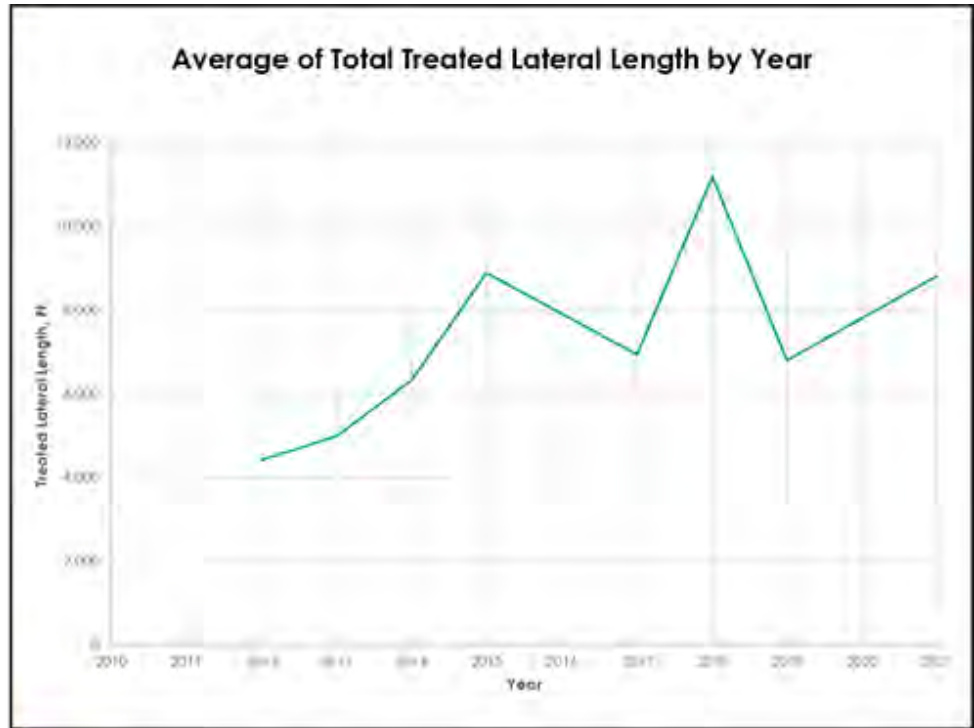


## Producing Well Summary

YEAR	PROD WELLS BY YEAR	CUMULATIVE TOTAL
Prior	-	-
2010	-	-
2011	-	-
2012	15	15
2013	20	35
2014	20	55
2015	8	63
2016	-	63
2017	7	70
2018	2	72
2019	10	82
2020	-	82
2021	2	84
2022*	-	84
<b>TOTAL</b>	<b>84</b>	<b>84</b>

## Columbiana County Producing Well Average TTL by Year

YEAR	AVERAGE TTL
Prior	-
2010	-
2011	-
2012	4,430
2013	4,997
2014	6,345
2015	8,904
2016	-
2017	6,939
2018	11,204
2019	6,811
2020	-
2021	8,828
2022*	-
<b>AVERAGE</b>	<b>7,307</b>



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*Don't respond to the words of a fool with more foolish words,  
 or you will become as foolish as he is! Proverbs 26:4*

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