

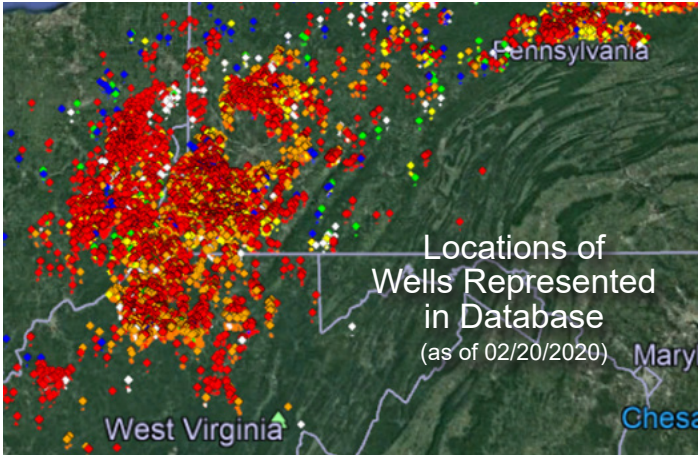


Database Background

JKPC has developed an extensive horizontal well database for the Appalachian Basin based on state reported data. Database development began in 2012 as the beginning stages of basin horizontal well drilling.

The database includes all unconventional wells ranging in status from permitted to producing. Formations include: **Marcellus, Utica, Burkett (Geneseo), Lower Huron, Clinton** and other unconventional formations.

We at JKPC are devoted to providing the best and most current horizontal well data available. We utilize our database on a daily basis resulting in continual review for data accuracy and quality.



Database Overview

Horizontal Well Data for **Kentucky, Ohio, Pennsylvania, Virginia and West Virginia** includes:

- 1.) Basic header information
- 2.) Permitted and completion dates
- 3.) Completion summary data
- 4.) Lateral lengths/stages, sand and water volumes
- 5.) Drilling, cementing and frac company identification
- 6.) Frac focus data
- 7.) Production, reserve and EUR data

(see sample information below)

Download

Database is available in Excel (with mapping files and pdf's of production histories and forecasts) or in Landmark Aries (with associated mapping files).

- **Over 20,600** permitted, spud, drilling, drilled, completed and producing wells
- **Over 14,500** producing horizontal wells
- **Interactive mapping** including surface, landing and bottom hole locations (KMZ and shapefiles)
- **Monthly oil, natural gas and water production volumes** and forecasted 50 year EUR

22,000 permitted, spud, drilling, drilled, completed and producing wells

14,500 producing horizontal wells

Sample Appalachian Basin Horizontal Well Database Data					
API#	Well Name	State	County	Reservoir	Total Treated Length
34-013-21084-0000	LEE CLR BL 2H	OH	BELMONT	UTICA	5,905
34-013-21087-0000	LEE CLR BL 4H	OH	BELMONT	UTICA	7,178
37-125-28616	MELE UNIT 8H	PA	WASHINGTON	MARCELLUS	8,208
37-125-28617	MELE UNIT 9H	PA	WASHINGTON	MARCELLUS	5,466
47-017-06744	WETZEL CATHY 516233	WV	DODDRIDGE	MARCELLUS	6,787
47-017-06745	WETZEL CATHY 516234	WV	DODDRIDGE	MARCELLUS	6,310

Database Updates

Regular updates to the database include addition of new well permits, updating well status changes and inclusion of supplemental completion, production and EUR data as it becomes available.

- **Monthly updates** – include new permits, well status changes, updated mapping and production volumes
- **Biannual updates** – In addition to monthly update data, update all production decline curves, 50-year EURs and associated EUR per 1,000' values.
- **Monthly Newsletter (Basin Digest)** – Summary of Appalachian Basin activity and database changes from prior month

Database Updates

JKPC also offers customizable data packages on county, state, or regional levels utilizing Spotfire analytics.

Pricing available upon request.

Visit www.jkpcinc.com for the latest edition or subscribe to receive in your mailbox.

August 2019

BASIN Digest

AN OVERVIEW OF APPALACHIAN BASIN ACTIVITY - BETTER DATA - BETTER ANSWERS



Important Updates

- Pennsylvania production through June 2019
- Ohio second quarter production
- West Virginia second quarter production
- Additional wells and status updates for Ohio, Pennsylvania, and West Virginia

Upcoming Updates

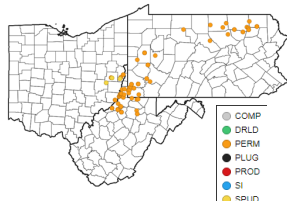
- Updated production decline curves and EURs

About the Database

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Appalachian BASIN HORIZONTAL WELL DATABASE

New Well Locations – 145 Wells



Status Updates – 309 Wells – 309 Wells



Legend for both maps:

- COMP
- DRLD
- PERM
- PLUG
- PROD
- SI
- SPUD

Proudly Serving the Appalachian Basin since 1988

Purchase Options

Our database is available by wells or by state. Purchase of select data is also available as a one-time data purchase.

Annual Subscriptions

All Wells:	\$5,500
By State:	OH - \$2,500
	WV - \$3,000
	PA - \$4,000

Purchase of an **Annual Subscription** allows for:

- database usage
- updates
- access to our database support team for your entire organization

Monthly, quarterly and semi-annual payment options available upon request.

Discounts available for first time users and referrals.



Appalachian Basin Horizontal Well Database

Fair Market Value Reports | Reserve Reports | Production Monitoring and Analysis | Acquisition and Divesture Services

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