

DRILL HIGHER PRODUCING WELLS BY IDENTIFYING PRODUCTION BY ZONE

IDENTIFY PRODUCTION BY ZONE WORKFLOW

IDENTIFYING WHICH ASSETS ARE IN THE HIGHEST PRODUCING ZONES CAN BE CHALLENGING. ROCK IN STACKED PLAYS CAN BE UP TO THOUSANDS OF FEET THICK; AND IN SOME PLAYS, NEARLY ALL HORIZONTAL WELLS ARE ASSIGNED TO JUST ONE OR TWO FORMATIONS. DRILLING IN A LOWER PRODUCING ZONE COULD COST UP TO MILLIONS OF DOLLARS. WITH SUCH LOW SPECIFICITY, HOW CAN COMPANIES BE CONFIDENT THAT THE ASSETS THEY ARE CONSIDERING WILL PRODUCE HIGHLY PRODUCTIVE WELLS AND EARN A HIGH RETURN-ON-INVESTMENT?

“ I cannot believe we are able to resolve production by zone so quickly and with such specificity with this workflow. This will really help us move faster and more accurately the next time we are vetting a new opportunity. ”

*Geologist,
E&P Company*

The Identify Production by Zone

workflow is a simple, yet powerful workflow that allows customers to easily identify reported production by zone, quantify average production for each zone, and make confident recommendations about the best landing zones for horizontal wells.

BENEFITS

Find Common Wellbore Landing Targets

The Identify Production by Zone workflow utilizes DI Play Assessments, which comes pre-loaded with extensive subsurface maps that include wellbore landing targets. Running DI Play Assessments on GG&A software, such as DI Transform, allows customers to visualize the most common wellbore landing targets.

Track Where a Specific Well Landed

Customers can easily calculate the number of feet that a wellbore landed in a given zone. Using survey paths, depth grids, and automatically generated well logs, geologists can track the exact zone in which a wellbore landed in minutes. DI Transform allows users to go a step further and identify the specific number of feet that the wellbore was within the zone.

Identify Zones With the Highest Producing Wells

Instead of relying on general production averages for an entire formation, customers can leverage DI Transform to compute average six month cumulative oil production for each landing zone. Compare average production by zone to identify the best assets and opportunities.

PRODUCT HIGHLIGHTS

Identify Production by Zone utilizes two of Drillinginfo’s industry leading products: DI Transform and DI Play Assessments

DI Play Assessments:

- Provides a dynamic, extensive, project-ready foundation to create customized geological interpretations of reservoirs and play areas
- Multiple map layers
- Dynamic with constant updates
- Saves customers over \$1,000,000

DI Transform:

- The oil and gas industry’s only integrated geological, geophysical, engineering, and analytics platform
- Visualize, manipulate, and interpret an unprecedented amount of geoscience data and deliver insights within a single tool
- Visualize over 100,000 wells at once
- Powered by a multi-variate analytics engine that allows for greater detail in analysis
- Saves software and labor costs by integrating four practices into a single platform

Make Confident Recommendations About Landing Zones for Horizontal Wells

Once geologists have pinpointed the best specific zone in stacked plays, they can advise their companies on the best assets and areas in which

to drill. Don’t waste time and money analyzing static, un-customizable reports or incomplete solutions. Identify the best opportunities with less risk, less cost, and less time by using the Identify Production by Zone workflow.



The well logs illustrate which section of the wellbore landed in zone. In this example, the middle well log shows the section that landed within the zone of interest.

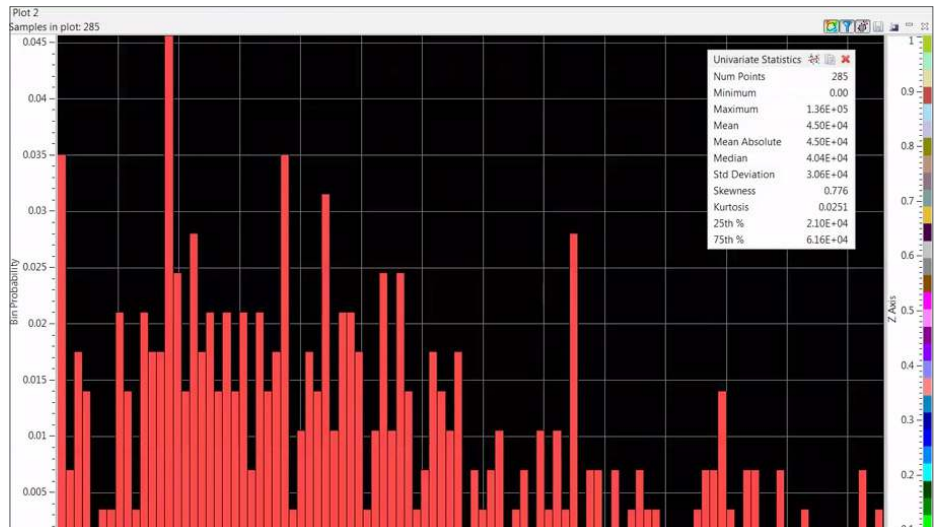
MAKE DECISIONS IN MINUTES THAT COULD SAVE YOU MILLIONS

- *Drillinginfo is the only provider to integrate dynamic geologic data with subsurface mapping and a geologic framework*
- *Eliminate the time-consuming, labor-intensive process of gathering data and developing in-house algorithms to perform initial analysis*
- *Make confident recommendations on acquisition and drilling targets*
- *Pinpoint the highest producing reservoir zones*

WORKFLOW STEPS

Identify Production by Zone is an easy-to-use tool to resolve production by zone. Within minutes, users can understand the breakdown of horizontal wells by zone, identify the zone in which a given wellbore landed, compute average production by zone, and pinpoint the best assets to acquire and areas in which to drill. Make decisions that could save you millions of dollars with these few easy steps:

1. Identify wellbore landing relative to zones
2. Create sample well logs of wells landing in each zone of interest
3. Classify well as landing above, below, or within the zone of interest
4. Calculate number of feet that the wellbore is within the zone of interest
5. Compute average six month cumulative oil production for each zone



Use statistical analysis within DI Transform to compute average six month cumulative oil production for each zone. We can see that wells landing in the Bone Springs 3rd Sand average 45,000 barrels in the first six months.

CUSTOMER PROBLEM	BENEFIT
How can I find common wellbore landing targets?	Visualize the most common wellbore landing targets through subsurface mapping
How can I track where a specific well landed?	Identify the exact zone in which a specific well landed
Which zones have the highest producing wells?	Compute average six month production for each landing zone

ABOUT DI TRANSFORM

A next-generation tool to answer even the most complex of questions, DI Transform is the oil and gas industry's only integrated Geological, Geophysical, Engineering, and Analytics platform. Leverage the multi-variate analytics engine to visualize over 100,000 wells at a time, determine how and where to drill to maximize production and return-on-investment, and visualize the subsurface in 3D.

Uncover hidden patterns by integrating public and proprietary data into a single platform. With a maximum amount of data at your fingertips and DI Transform's 3D stimulation tool, you can test various drilling scenarios in a matter of minutes instead of weeks. Remove the manual work of picking tops with the patent-pending automated tops picker. Maximize production and minimize risk with a superior tool to help you work smarter and faster.

ABOUT DI PLAY ASSESSMENTS

Take actions in minutes, not months, with comprehensive and dynamic land, geology, and analytics intelligence on demand for plays across the United States. DI Play Assessments provides project-ready data to help customers create customized geological interpretations of reservoirs and play areas better and faster than ever before.

DI Play Assessments are dynamic; not just simple, static reports. They are enhanced daily, in addition to regular robust quarterly updates. Drillinginfo customers can make confident decisions based on up-to-date data, while their competitors are building reports based on data that will be outdated before the report is even finished.

Generating the analysis contained in each play assessment would require more than 12 months of full-time work and at least \$1,000,000 in up-front costs, as well as more than \$250,000 per year in maintenance. Make better decisions faster and with fewer costs.



PROACTIVE



EFFICIENT



COMPETITIVE

By monitoring the market, Drillinginfo continuously delivers innovative oil & gas solutions that enable our customers to sustain a competitive advantage in any environment.

Drillinginfo customers constantly perform above the rest because they are more efficient and more proactive than the competition.

Learn more at www.drillinginfo.com