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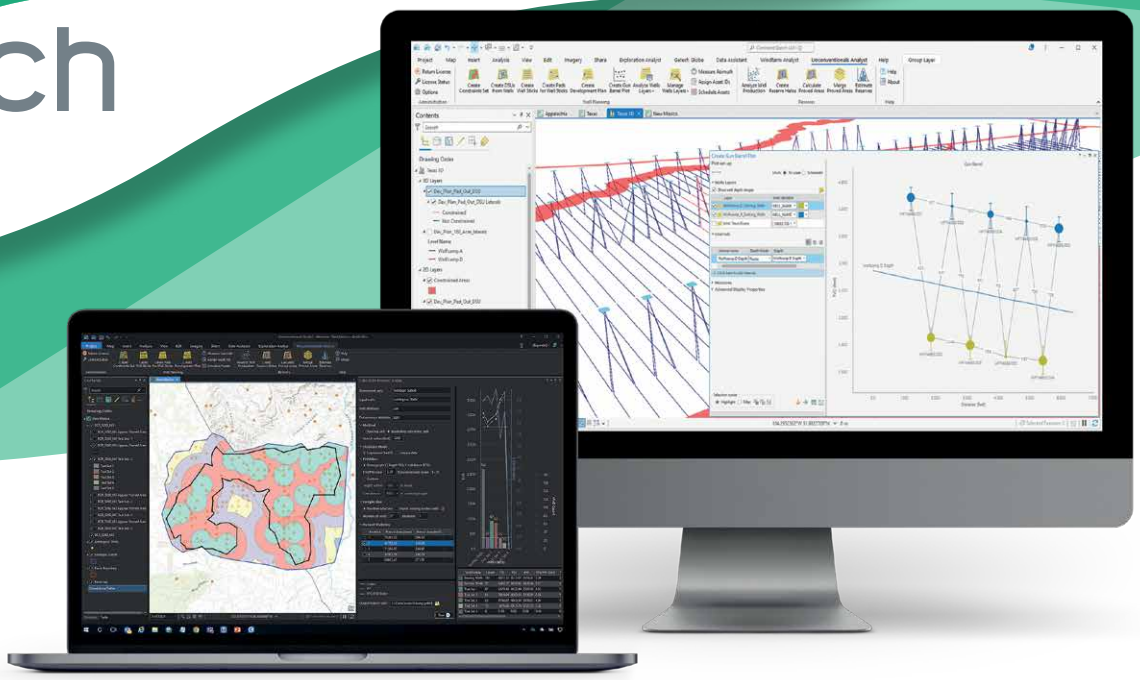


Unconventionals Analyst

Plan Well Developments and Evaluate Reserve Areas

Unconventionals Analyst is an extension to Esri's ArcGIS Pro software for use in unconventional resource projects such as shale gas, shale oil, coal bed methane (CBM) or coal seam gas (CSG). It enables land, drilling, analytics and subsurface teams to holistically plan field developments in order to streamline operations; and to evaluate reserve areas and forecast volumes during production.

USES

Using Unconventionals Analyst, you can dramatically cut complex, time-consuming and data intensive well planning and reserve area evaluation workflows:

- Identify allowable areas for operations by creating setbacks from access, land use and surface factors.
- Manage sub-surface constraints to positioning well bores at depth.
- Calculate spacings between existing wells to better understand production regimes.
- Plan and manage well inventory by modelling how wells fit across your area of interest.
- Identify the most efficient well development plan, placing pads and laterals so that you minimize surface footprint while maximizing lateral lengths.
- Easily run complex map-based statistical workflows such as PRMS and SPEE "Monograph 3".
- Forecast reserve addition through time.

BENEFITS

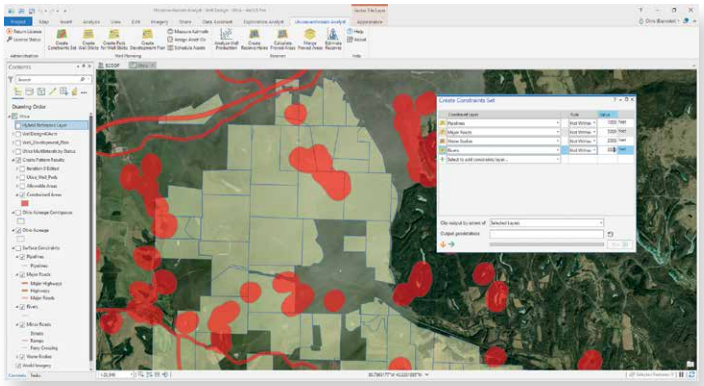
The benefits of using Unconventionals Analyst are as follows:

- Reduce well development planning projects from months to days.
- Enhance inventory planning by quickly and accurately assessing spatial relationships between wells.
- Avoid pad redesign costs by holistically planning field developments up-front.
- Plan for alternate development scenarios under different price environments.
- Improve communication between land, drilling and subsurface teams.
- Ensure regulatory compliance in reserve area management and booking.
- Easily run and iterate "Monograph 3" workflow to statistically determine the proved area of a resource play.

KEY FUNCTIONALITY & FEATURES

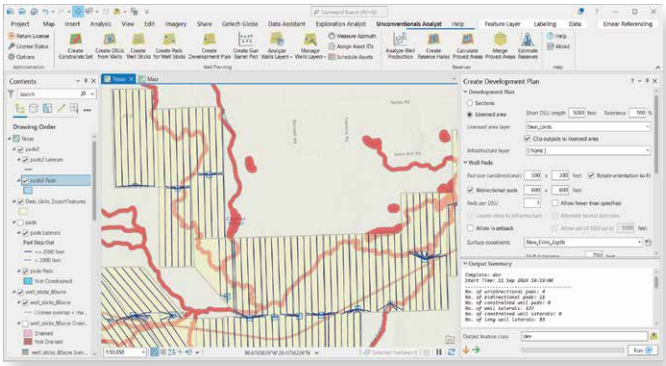
ANALYZE SETBACKS

When planning unconventionals developments it is likely that there will be zones where you cannot place a well or pad. This may be due to pre-existing operations, land access, environmental sensitivities or human developments. Easily build setback scenarios for well modelling by specifying multiple layers of constraining features and creating setback rules to ensure that operations are not planned in prohibited areas.



ANALYZE WELL SPACING RELATIONSHIPS

Accurately calculate lateral spacings and analyze parent/child relationships between wells to determine infill potential and/or production interference. Once spacing analysis has been conducted, you can easily calculate the most productive future inventory spacing.

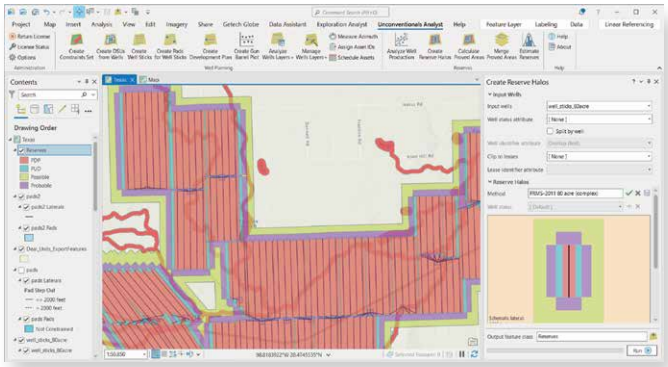


MODEL WELLS AND PLAN DEVELOPMENTS

Quickly assess how many wells are required to work up a given set of contiguous leases, or to estimate reserves using a “per well” methodology. Create holistic plans of well pads and multilaterals within a set of sections or contiguous leases. Identify the most efficient mixture of lateral lengths and pads to minimize surface footprint while maximizing lateral lengths for increased production. Surface setbacks are applied to ensure optimum well pad location, and subsurface constraints can be defined to flag where the horizontal section of a well will meet interference.

EVALUATE RESERVE AREAS

Unconventionals Analyst enables you to calculate accurate reserve areas using configurable deterministic reserve classification methods (e.g. PRMS) and the SPEE “Monograph 3” statistical workflow for determining the proved area of a resource play. Users can select between spacing unit and expanding concentric radii methods, while supporting tools are provided to investigate well production distributions and assess minimum well sample sizes for running the workflow at sub-Monograph target/confidence precision.



To learn more about Unconventionals Analyst email **software@getech.com** or visit **www.getech.com**

ABOUT GETECH

Getech applies its world-leading geoscience data and unique geospatial software products to accelerate the energy transition by locating, developing and operating geoenergy and green hydrogen projects.

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