Lognormal Solutions

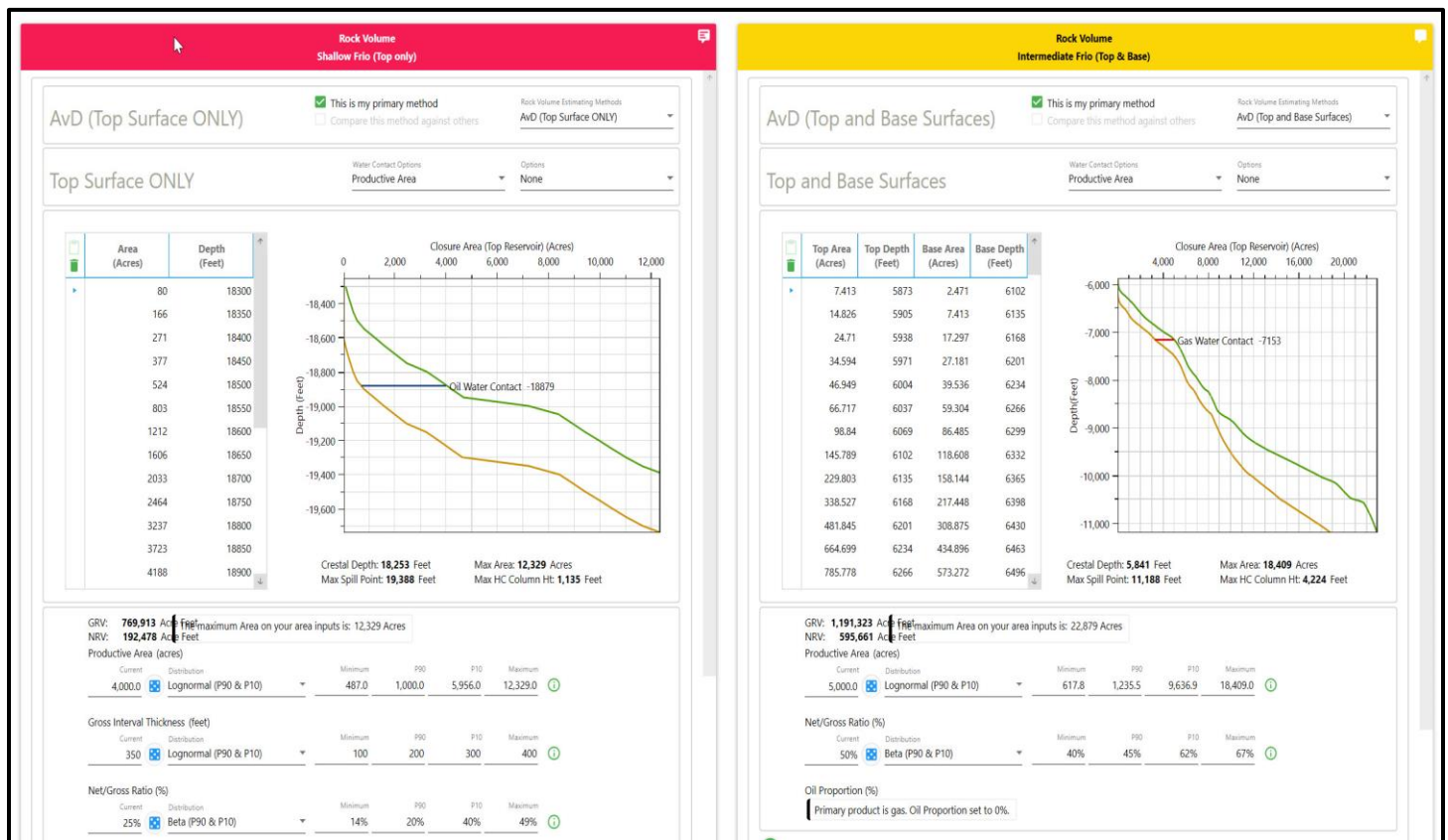# RoseRA: Prospect Resource and Chance Assessment

ADVANTAGES

- Intuitive guided workflow ensures Day-1 operation
- Customizable to implement corporate best practices and ensure consistency
- 'Cards' enable multiple zones to be assessed and aggregated in a single prospect analysis file
- Key intermediate simulation displays and tables ensure inputs are reality checked
- No third-party software required

MULTIPLE ZONES

An unlimited number of zones can be modeled for a prospect and probabilistically aggregated in a single analysis. This provides flexibility, efficiency and a much more intuitive and logical workflow. It also facilitates quality control, reality checking, and comparisons of the modeled zones. Using the Active/Inactive designation in the RoseRA Setup tab enables the user to easily activate any selection of zones and create a new prospect assessment. This functionality provides a very significant time saving and offers tremendous flexibility for building both lateral and vertical dependencies within a single analysis.

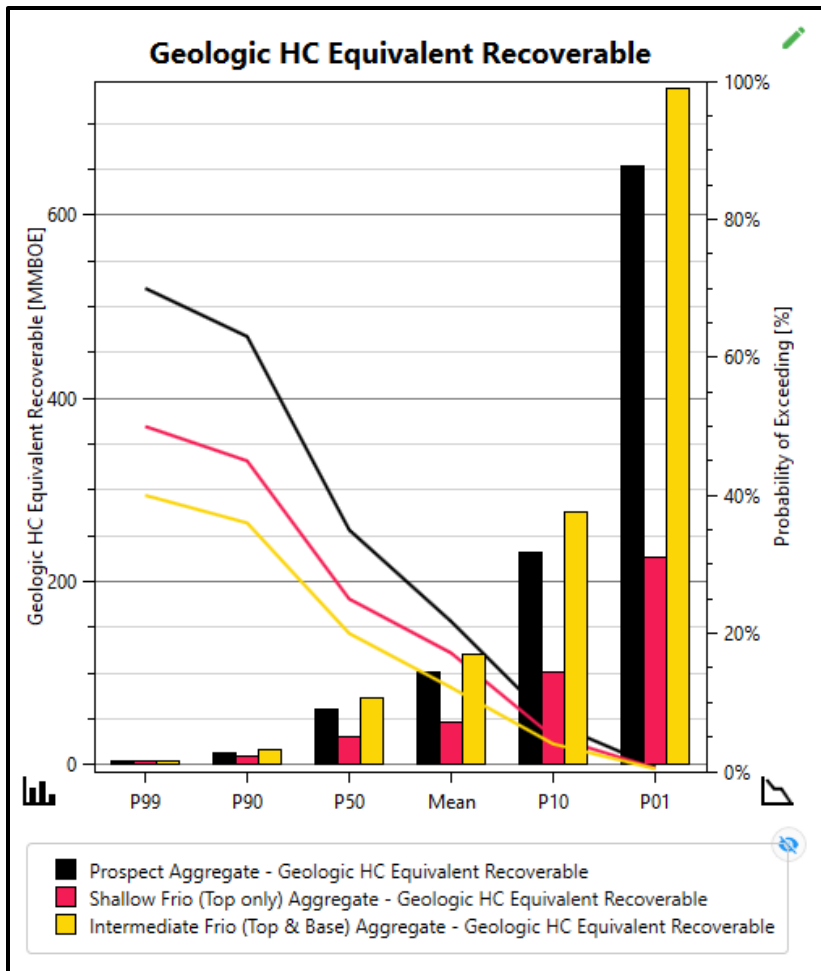**MULTIPLE ZONES AND ASSESSMENT METHODS IN A SINGLE PROSPECT ANALYSIS**

REALITY CHECKING

The user is provided instant feedback when inputting distributions to ensure that the extremes (P99 and P01) are reality checked. Other tools make this cumbersome resulting in the user skipping this crucial step that can lead to unrealistic pre-drill estimates. Multiple estimating methods for a single zone can be saved and directly compared for improved quality control (for example, building rock volumes using Area vs Depth and quickly comparing these to workstation-derived probabilistic rock volumes).

REALITY CHECKING OF INPUT DISTRIBUTIONS

Productive Area (acres)

Current	Distribution	Minimum	P99	P90	P50	Mean	P10	P01	Maximum	P10:P90
4,000.0	Lognormal (P90 & P10)	487.0	487.0	1,000.0	2,440.5	3,073.7	5,956.0	12,310.9	12,329.0	5.96

Gross Interval Thickness (feet)

Current	Distribution	Minimum	P99	P90	P50	Mean	P10	P01	Maximum	P10:P90
350	Lognormal (P90 & P10)	100	170	200	245	248	300	354	400	1.5

Net/Gross Ratio (%)

Current	Distribution	Minimum	P99	P90	P50	Mean	P10	P01	Maximum	P10:P90
25%	Beta (P90 & P10)	14%	14%	20%	29%	30%	40%	49%	49%	2

Legend:
- **Prospect Aggregate** - Geologic HC Equivalent Recoverable
- **Shallow Frio (Top only) Aggregate** - Geologic HC Equivalent Recoverable
- **Intermediate Frio (Top & Base) Aggregate** - Geologic HC Equivalent Recoverable

COMPREHENSIVE OUTPUTS

RoseRA provides a comprehensive set of outputs including standard charts of prospect assessment results, user defined charts, easy-to-read tabulated input and output distributions, full access to all the trial data using powerful filtering tools, and the ability to export to external tables for use with data visualization/analytical tools.

CUSTOMIZABLE OUTPUT CHARTS BY AGGREGATE, ZONE, AND PRODUCT

SCENARIOS

Individual zones can be toggled on or off in a single analysis to allow additional analyses to be considered or scenarios modeled. This functionality provides a significant time savings and offers tremendous flexibility for modeling many assessment challenges such as lateral and vertical dependencies or uncertainty in fluid phase.

SUMMARY

RoseRA is the premiere industry tool for modeling prospect resources and assessing chance. Combined with R&A's 20+ years of training and consulting in applying the concepts encoded in the tool, RoseRA provides a powerful and easy mechanism to generate, quality control, rank, and post-appraise exploration opportunities for your company.