

RECON NEWSLETTER

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AGM

Special points of interest:

- AGM at the AAPG
- Recon Cascade Technology™ examples
- Recon on the SGI Onyx4 UltimateVision

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AGM at the AAPG in Dallas

AGM will be exhibiting at the annual AAPG meeting in Dallas from April 18-21. We invite you to visit us in booth #1351 and see why the industry is switching to Recon™ from traditional geological interpretation tools.

Reserve your Complimentary AAPG Pass

AGM is offering complimentary passes to the Exhibit to our Customers and Friends. These are available on a first come / first served basis. To submit your request for a pass, please contact sales@austingeo.com or Bev Taylor at btaylor@austingeo.com.

Schedule your Personal Recon™ Demonstration

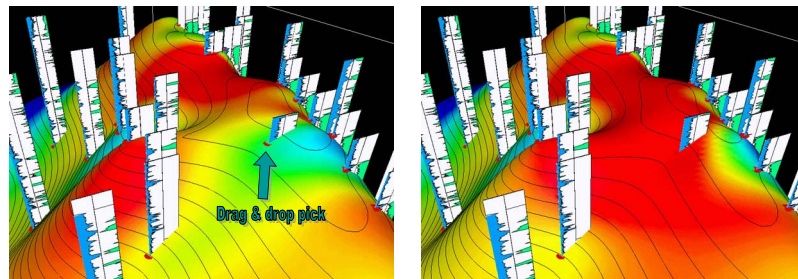
To schedule your personal demonstration of the latest release of Recon™, please contact sales@austingeo.com or Bev Taylor at btaylor@austingeo.com.



Visit AGM at the AAPG in Dallas

Recon Cascade Technology™

Recon's Cascade Technology was specifically developed to significantly reduce your interpretation cycle time. Any changes to your interpretation are automatically propagated throughout the entire 3-D interpretation environment. The advantage is that you free up time to focus on improving the quality of your geological interpretation instead of having to waste time on tedious button-push exercises.



Recon Cascade Technology: After you drag & drop a pick, Recon will automatically update all structures, isochores, and zone average distributions.



Interpretation changes are broadcast throughout Recon's 3-D interpretation environment using Cascade Technology

“Recon’s Cascade Technology™ significantly reduces your interpretation cycle time.”

Problem Statement

Updating interpretations is a difficult and tedious process in traditional interpretation software.

Integrating new data for an existing field is a time-consuming undertaking, expending time better used to improve the quality of the geological interpretation.

Unfortunately, first and second generation geological interpretation software applications have been too focused on replicating the “paper log workflow” and thus failed at contributing new improvements to the geological interpretation workflow.

Geologists think in 3-D

Interpreting geology is a challenge requiring a highly creative, cyclical process of analysis and deduction.

Geologists are experts at mentally recreating complex subsurface reservoir architectures in 3-D.

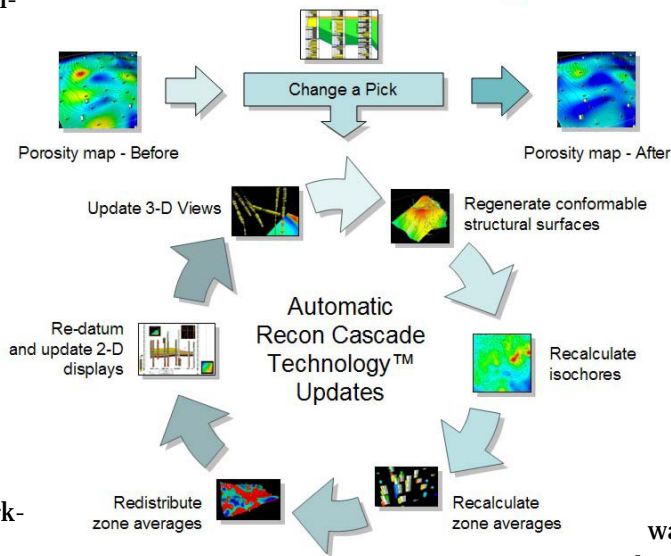
If this statement is true, why are not more geoscientists working in 3-D inter-

pretation software environments?

The reason is that up until now most geology applications have been 2-D oriented (e.g. basemap & cross-section workflows).

Also, applications visualizing reservoir data in 3-D have focused on the geophysical and engineering realms instead of on the geological interpretation domain.

Recon Cascade Technology™



Solution

Recon was specifically created to solve these problems by introducing the first 3-D geological interpretation environment designed to save time and to increase interpretation quality.

Recon eliminates the drawbacks of traditional interpretation systems while enhancing the productivity

of the geological interpreter by enabling them to combine 2-D basemap and cross sections views with a true 3-D interpretation environment.

Recon Cascade Technology™

Recon’s Cascade Technology offers the following major advantages:

1. Any interpretation change is immediately broadcast throughout the system, thus significantly reducing interpretation cycle time.
2. All interpretation dependencies are automatically tracked and managed so the interpreter can focus on interpretation quality improvement without the need to waste time “driving the software”.
3. All three Recon windows are linked in Real Time, providing a true, integrated 3-D interpretation environment.

Examples of Cycle-Time Reduction

Quick Interpretation Updates in Gulf of Mexico field

In this Gulf of Mexico example, twenty five horizons have been interpreted and tied to the picks in the wells.

Porosity, permeability, and water saturation maps have been created in Recon for the 25 zones in the field.

Three new deviated wells are drilled in quick succession and the geological interpretation needs to be updated.

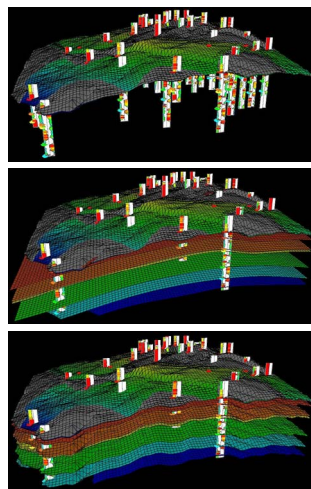
In traditional software workflows, multiple applications would be needed to update the geological interpretation, to remap the 25 structures, isochores, and zone average maps, and to visualize the results in 3-D in order to update the interpretation. This outdated process takes hours to days to complete.

All these steps are performed in Recon in a matter of minutes using Recon's Cascade Technology. After you perform the initial steps:

- Import the new wells
- Interpret the 25 horizon picks on the new wells

Recon will automatically:

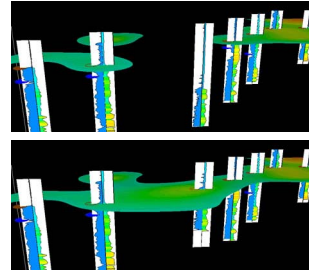
1. Regenerate the structural horizons using the new well picks, while honoring the conformable relationships between the picks and the seismic horizons
2. Recalculate the isochores for all 25 zones
3. Use these new isochores to regenerate the zone averages at the wells for porosity, permeability, and water saturation for all wells in the project
4. Redistribute porosity, permeability, and water saturation for all 25 zones
5. Apply filters and cutoffs and display the results in all Recon views



Automatic recursive conformable gridding of seismic horizons following the interpretation of picks in three new wells

Detailed Channel Interpretation in 3-D

In this mid-continent example, 3-D fluvial channels were interpreted in Recon using hundreds of wells.

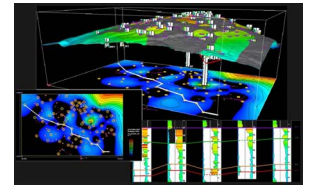


Result of single top of channel addition in Recon

The above picture shows the result of the addition of a single top of channel pick in the third well from the left.

Recon's Cascade Technology™ will automatically:

1. Regenerate the top of channel structure
2. Regenerate the base of channel surface
3. Redatum all wells stratigraphically using the new top of channel surface
4. Regenerate the zone average values for the channel
5. Apply the porosity cutoff filter highlighting the channel distribution
6. Show the results in 3-D



Recon's 2-D and 3-D views are always automatically updated during interpretation

“All interpretation dependencies are automatically tracked and managed so you can focus on interpretation quality improvement instead of on ‘driving the software’.”

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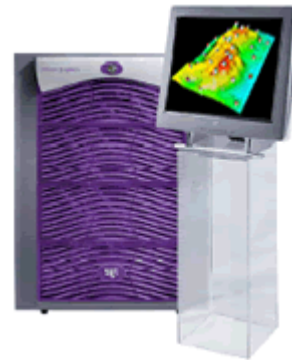
AGM

*Ultimate 3-D Geological
Interpretation Solutions*

Visit AGM on the Web
www.austingeo.com

Founded in 1996, AGM has been helping high tech oil & gas companies implement next-generation geological interpretation solutions. Customers depend on AGM to provide powerful, easy-to-use software that directly contributes to their business bottom line. AGM is proud to bring exciting new 3-D geological interpretation tools to your desktop.

For more information on AGM's innovative 3-D geological interpretation solutions, contact Bev Taylor at (713) 952-4141 or send him an email: btaylor@austingeo.com



**Recon on
SGI Onyx4 UltimateVision**

AGM Releases Recon on SGI's Most Powerful Advanced Visualization System

AGM, in collaboration with Silicon Graphics (NYSE: SGI) has optimized and released its showcase product, Recon™ on the Silicon Graphics® Onyx4™ UltimateVision™ visualization system.

AGM's Recon software combined with the Onyx4 UltimateVision system enables geoscientists to visualize their reservoirs and the models that simulate how they work, thereby maximizing the profitability of their fields.

The release of Recon on the Onyx4 UltimateVision platform is the result of collaboration between SGI software engineers and per-

sonnel at AGM, which has been an SGI independent software vendor since its founding in 1996.

"SGI is pleased to work with AGM to deliver a combined software and hardware solution that can manage the toughest data and modeling challenges the industry can offer. Reservoir problems are not getting smaller or easier and Recon's innovative and scalable approach is the platform for the next decade of optimizing reservoir performance, delivery and profitability," said Bill Bartling, Senior Director of Market Strategy, Energy, SGI.

"In 2002, AGM pioneered the first integrated 2-D/3-D interpretation environment using state-of-the-art SGI technology," said Robin Dommissie, AGM's CEO. "Recon is the first 3-D geological interpretation tool specifically designed to take advantage of continuing advancements in graphics and computing technology. This flexibility has enabled us to provide our clients with innovative new workflows resulting in cycle-time reductions, more accurate interpretations, and improved success."