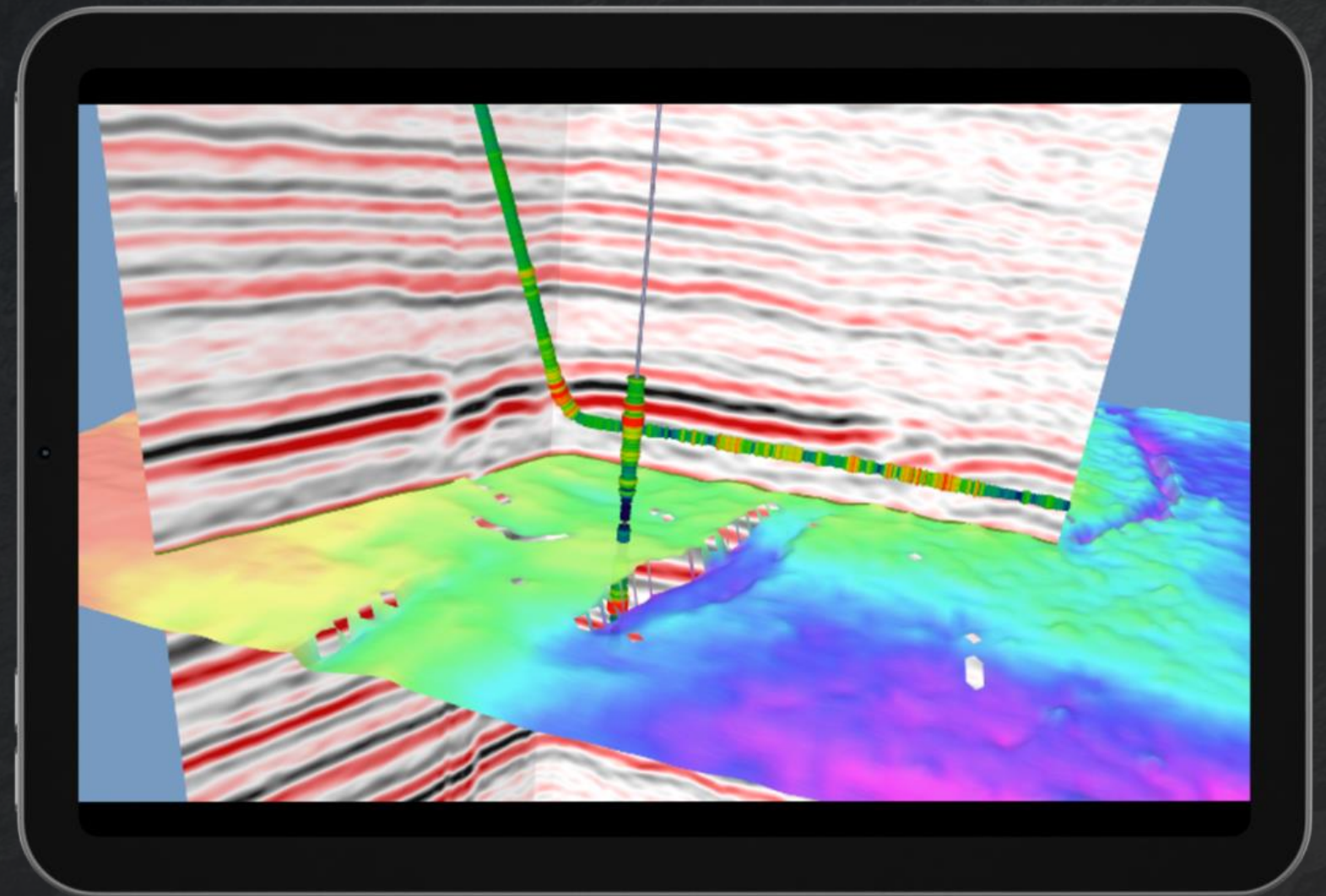




The GG&E Cloud System for
Drilling,
Geosteering,
& Completions for
Advanced Collaboration
and Success.



Proven ROI in Drilling & Completions Workflows

ZoneVu: The First Cloud Application for Unconventional GG&E Workflows

Built for Asset Teams:

From Operations Geologists to Completion Engineers.

Mission-Critical Capabilities:

Subsurface visualization, drilling, geosteering, completions design & stage visualization – all in one system.

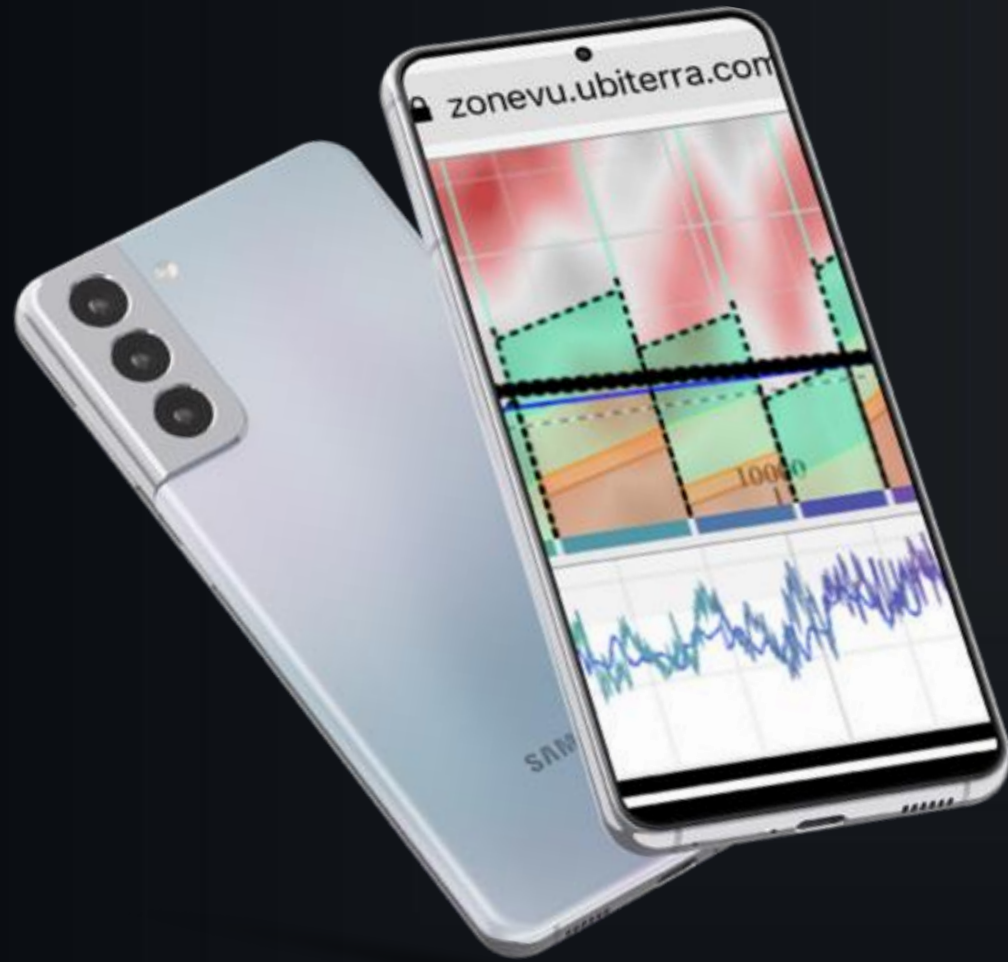
Real-Time Collaboration:

Empowering seamless team integration from a browser.

Boosts Efficiencies for Better Outcomes, Faster.



Key Differentiators



CLOUD
BASED

Centralized Data Management &
Multi-Disciplinary Workflows

RIG DATA
AUTOMATION

Real-time Drilling Decisions:
Stay in Zone, Precision Placement

3D SEISMIC
INTEGRATION

Superior Subsurface Visualization
During Drilling

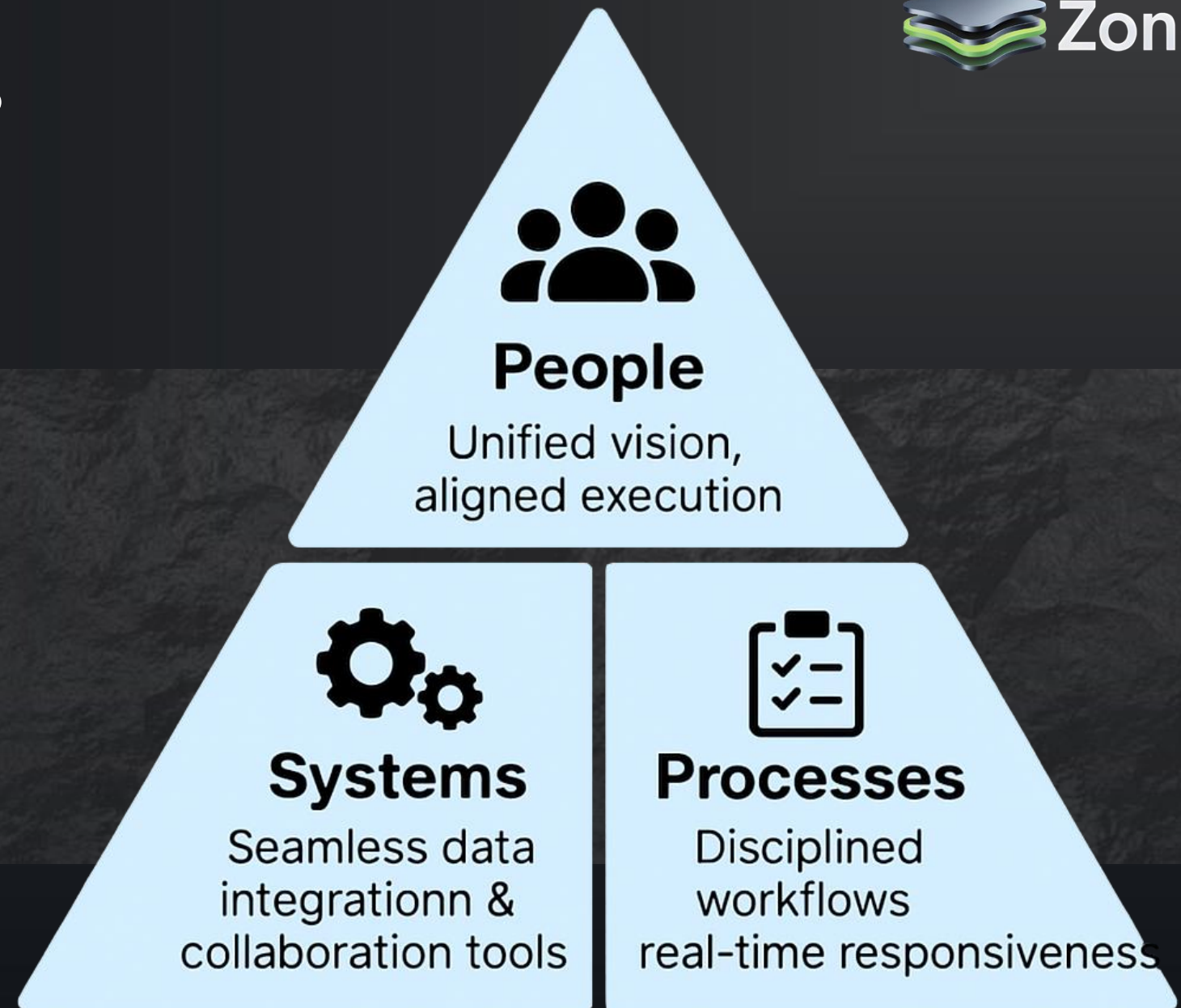
GEOSTEER
+ FRAC

Unified Drilling, Geosteering, &
Frac Workflow = Better Outcomes

Empower Asset Teams

ZoneVu is the system.

ZoneVu empowers
Talented GG&E Staff
To execute Superior Processes.



Outcome: Better drilling & completions success.

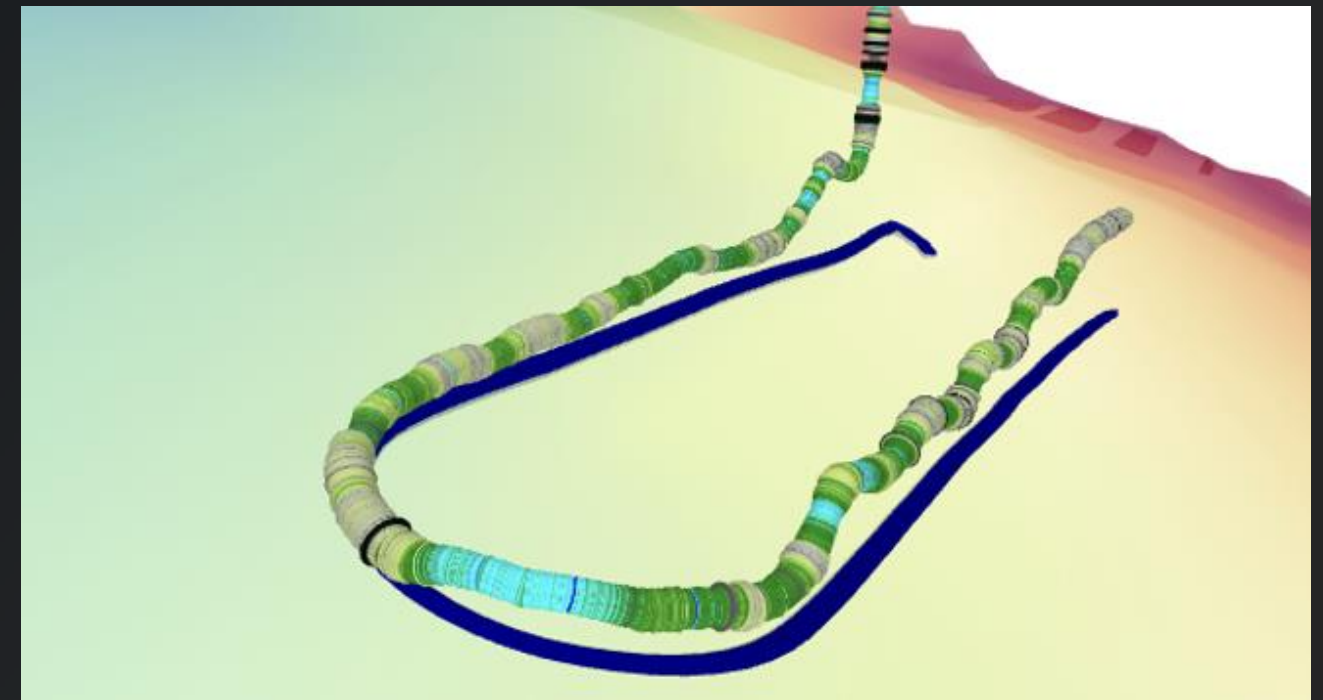
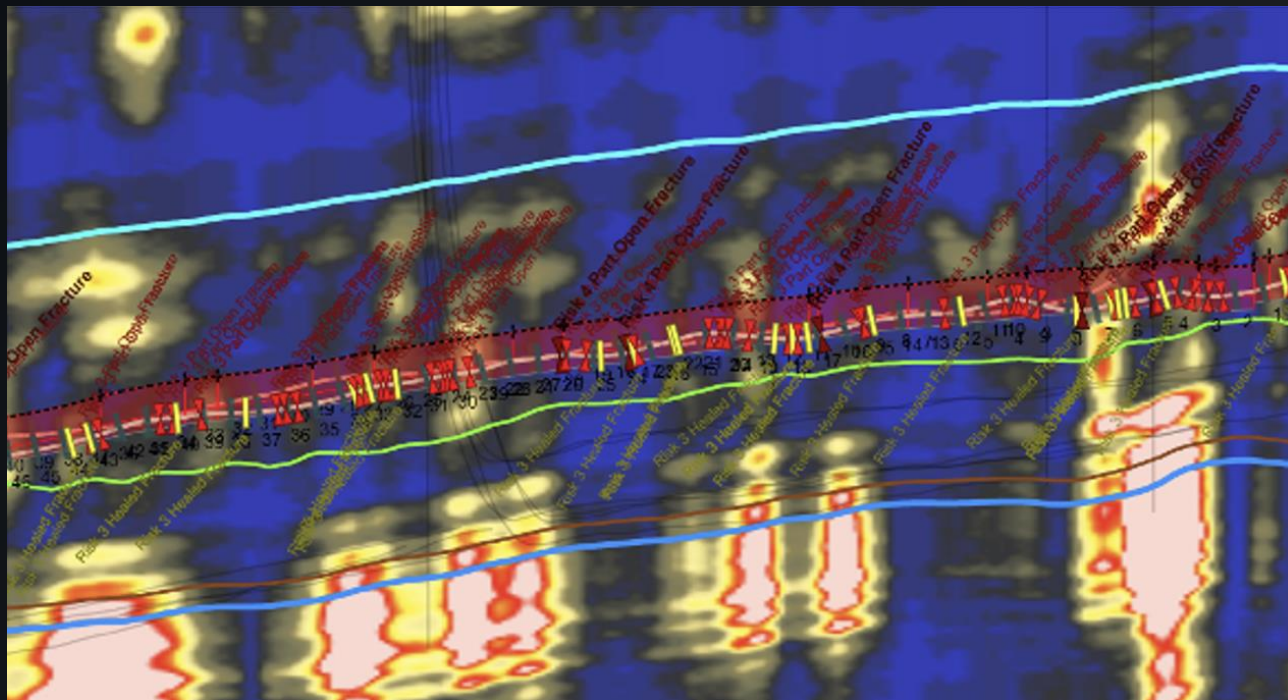
Two Case Studies

ZoneVu's Strategic Impact



1) Black Mountain Oil & Gas
Big Frac Savings with ZoneVu

2) Greenlake Energy
U-Turn Precision, Savings with ZoneVu





Big Frac Savings with ZoneVu

Black Mountain strategically operates the Austin Chalk – a geologically complex, hidden gem. ZoneVu helped them execute their proactive completions strategies.

Black Mountain used ZoneVu on a 2-Well, Austin Chalk Zipper Frac to

- ✓ Geo-engineer their Frac designs
- ✓ Prevent these expensive issues:

Screen-Outs

- Sand blockages, typical completions issue
- Costs ~\$20K+ per remediation flush / stage
- Losses in time & reservoir contact

Casing Deformation

- Stressed casing under Frac'ing can buckle, collapse
- Remediation ~\$250K-\$1M+ per incident
- Worst case, total wellbore loss

Predictive Planning + Real-Time Monitoring

With ZoneVu, Black Mountain was able to:

- **Strategize** with geoscience + engineering data for better planning & during Frac mitigation.
- **Avoid** casing deformation with tailored Frac designs around risky faults.
- **Save** big costs with fast diagnostics that pinned proppant size (not geology) as screen-out cause.

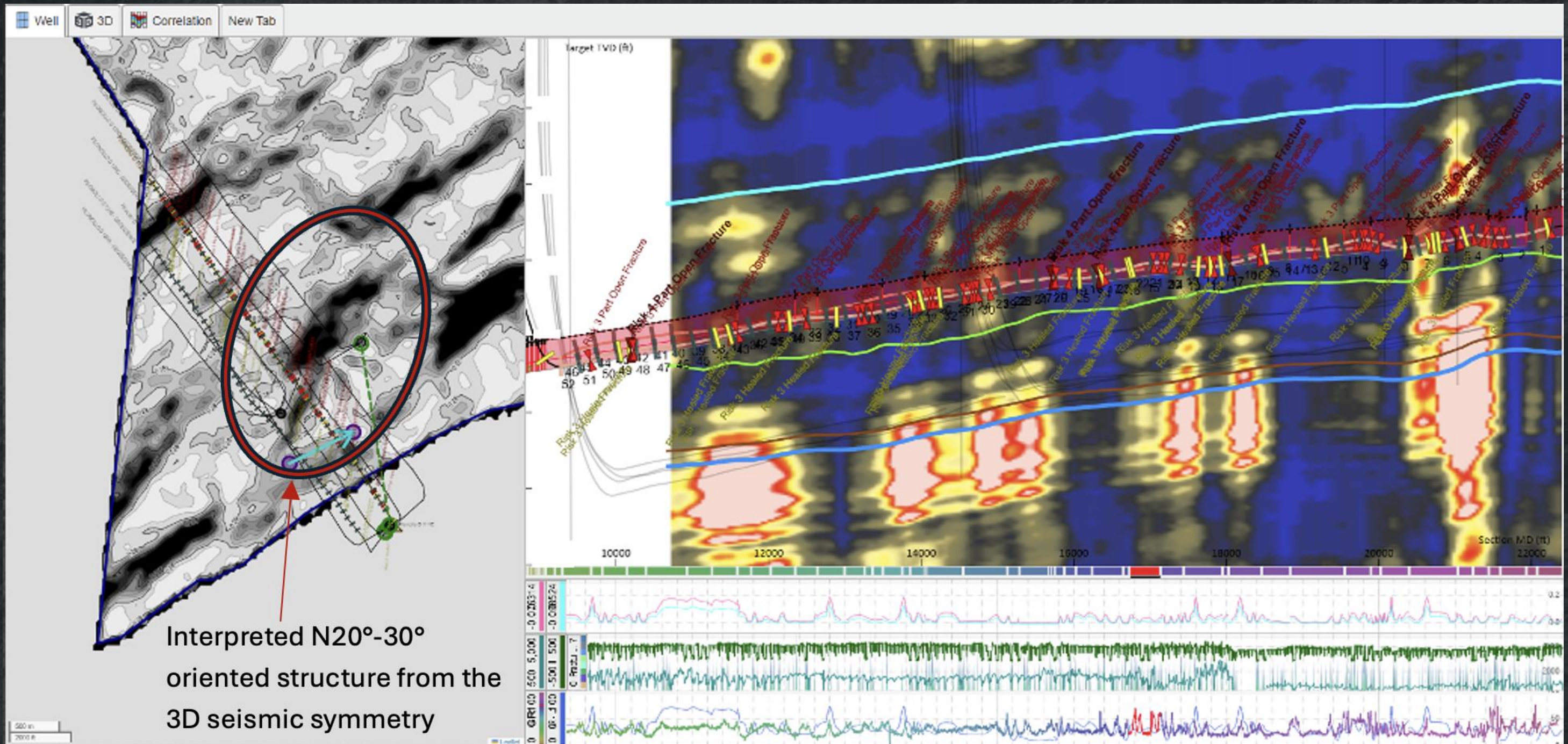


"ZoneVu helped us be more predictive and avoid expensive problems."

– Jon Holt, Director of Completions, Black Mountain Oil & Gas



Avoided Fault-Induced Wellbore Collapse



Interpreted N20°-30° oriented structure from the 3D seismic symmetry



2-Well Success & Savings with ZoneVu

0

Casing Deformation Events

Prevented High-Cost Problems
No Fault Slips

85%+

Reduced Screen-Outs

Fast Fix of Proppant Size Issue
7 Screen-Outs Avoided

\$1MM+

Potential Savings

All Risks Combined

Direct Savings with ZoneVu:

\$140K–\$160K: Avoided screen-out flushes

Production Outcomes:

Both wells averaged type curve +

Potentially avoided \$250,000–\$1MM+ in casing deformation remediation.

U-Turn Well Precision, Savings with ZoneVu

Greenlake Energy drilled 6 U-turn wells in the geologically complex Delaware Basin. Their technical mastery + ZoneVu turned complex drilling into precision excellence.

Complex U-Turn Well Drilling

3D Visualization is Key

- Multidimensional paths
- Avoid geohazards
- Maximize % in zone

Reservoir Positioning

- Minor deviations, out of zone risk
- Geology changes, ↑ BHA wear
- Risk time, remedial expenses

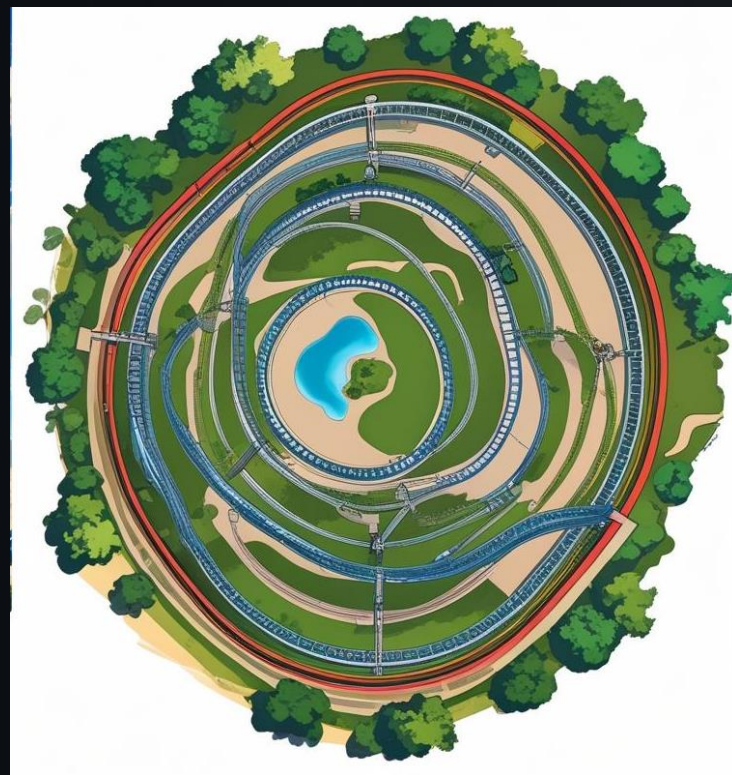
Wellbore Instability Risks

- Acute builds ↑ wellbore stress
- Wellbore instability, collapse
- High torque/drag, stuck pipe

Limits of Conventional Geosteering Displays

Typical geosteering visuals project well paths in 2D.

Complexity is lost in 2D, risking critical spatial misunderstandings.



Map View

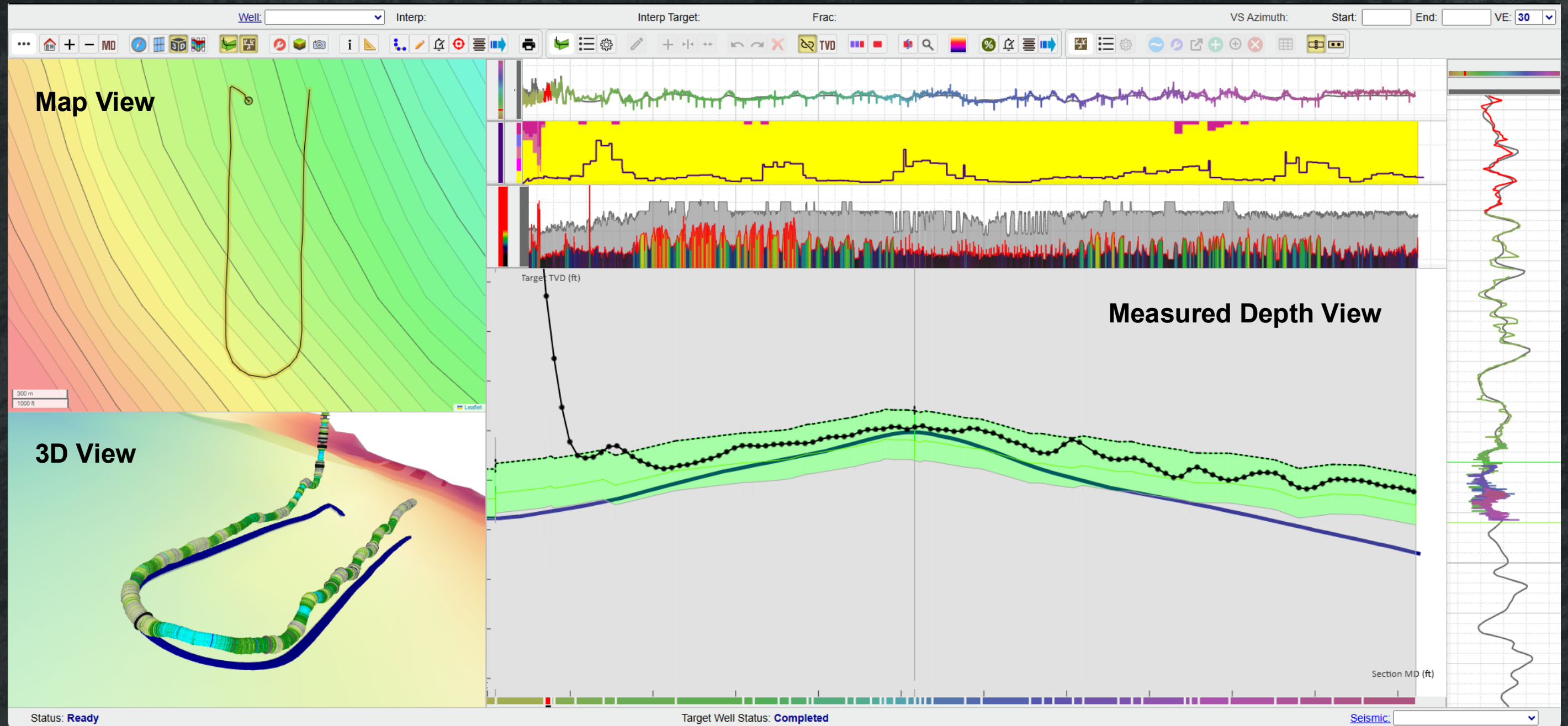


3D View

What Can Result:

- ⚠ Risk of increased BHA changes
- ⚠ Unplanned target zone exits
- ⚠ Risk of collision

Better Visuals, True 3D + MD Geosteering



The ZoneVu Solution

A multi-disciplinary, integrated view of the subsurface.

Better spatial clarity for more effective well placement.

Full 3D Visualization

- Entire wellbore's true spatial position
- Seismic data, faults, grids, etc.

MD-Mode Geosteering

- Actual drilled length
- Not just a 2D projection

Hazard Detection

- ZoneVu Alerts™ – live texts & emails
- Faults, rock types, existing wells, lease & permit boundaries

Teamwide Alignment

- Entire teams see instant visuals
- Live bit location, geologic context

Success & Savings



Greenlake's success and strategic approach with ZoneVu.
For the 6 U-Turn wells drilled to date:

1

Bit Trip, First 4 Wells

ZoneVu's ease, live 3D display kept the team & rig on track.

17%

Under AFE, First Well

Geosteering spatial context, smoother drilling, fewer trips.

11%

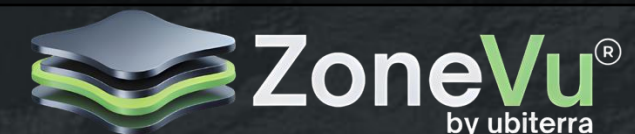
Under AFE, All 6 Wells

A standout achievement for technically demanding projects.



"ZoneVu brought real-time geologic context and 3D clarity to every screen. It enabled our team to stay aligned and execute our technical strategies seamlessly."

- Samuel Simmons, Director of Geoscience



Proven ROI: Completions & Drilling Workflows

ZoneVu delivered big wins in different plays & different challenges.

Black Mountain Oil & Gas
South Texas, Austin Chalk Frac

\$1MM+

Potential Savings

Screen-Out & Casing Deformation Risks.

Greenlake Energy
Delaware Basin, U-Turn Drilling

17%

Under AFE, First Well

11% Savings, Across all U-Turns Drilled.

These are not isolated wins.

Integrated visuals & real-time decisions translate directly to capital efficiency.

Proven ROI: Completions & Drilling Workflows

- ✓ Reduce execution risk.
- ✓ Shorten execution cycles.
- ✓ Protect production potential.

These 3 levers directly improve well-level IRR & margins.
Same dollars drill more productive feet, lower risk exposure.

ZoneVu is not just a subsurface visualization & workflow platform...

It's the strategic tool for capital discipline & competitive advantage for Oil & Gas.



Make better wells with ZoneVu.

Teams collaborate better.
Decisions get sharper.
Execution gets smarter.

