K'NEXION GEOSCIENCE CONSULTING

Integrated geology. Connected decisions.

Development and production geoscience for deepwater operators and asset teams: development well planning, reservoir model QC, structural frameworks and volumes.

- Integrate the data: well logs, core, seismic, petrophysics and structure in one geologic story you can trust.
- Connect your bottleneck to a solution that works, with agentic AI that answers to the geologist.
- Judgment that protects long-term subsurface value.



Ben Hilton

Sedimentologist turned Structural Geomodeler

Senior Geologist & Subsurface Integrator | Founder, K'nexion Geoscience Consulting

Open to contracting and consulting engagements. Full-time positions carefully considered.

15 / 20
Deepwater wells: planned / executed (drilled)
Gulf of America

17
years of industry geoscience (since 2009)
Much of it in the Gulf of America.

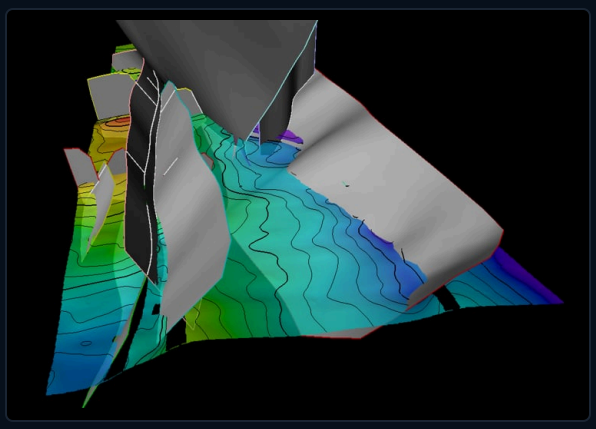
~2 dozen
core workshops
Four to five of them facilitated, with multidisciplinary teams.

Master's educated
BYU BRIGHAM YOUNG UNIVERSITY
UNIVERSITY of HOUSTON

Four Capabilities, Twelve Deliverables

01 **Structural Framework & Fault Modeling**
02 **Well Correlation & Petrophysical Integration**
03 **Mapping & Volumetrics**
04 **Development Well Planning & Reservoir Model QC**

Synthetic demonstration data: all datasets shown were built solely for demonstration purposes and are not client data.



3D fault framework over a teal depth map
Synthetic demonstration data

01

Structural Framework & Fault Modeling

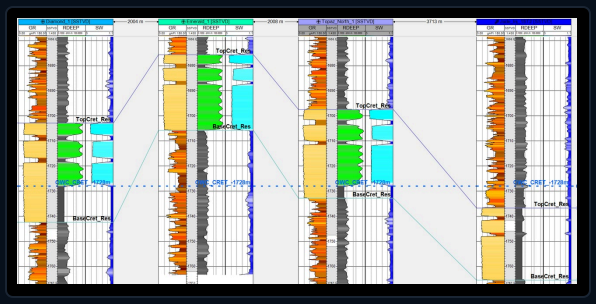
Fault-honest structural frameworks you can drill against, update while drilling and hand straight to simulation.

Output
A QC'd structural framework, ready for 3D modeling.

1.1 **Seismic-to-Model Fault Framework & Structure Mapping**
Output A QC'd structural framework, ready for 3D modeling.

1.2 **Fault Throw, Juxtaposition & Transmissibility**
Output Throw, juxtaposition and fault-property sets for every mapped fault.

1.3 **Structural Scenario Geomodeling for Simulation Updates**
Output Scenario frameworks and grids, each ready for simulation and history match.



4-well correlation in depth (SSTVD) with the OWC
Synthetic demonstration data

02

Well Correlation & Petrophysical Integration

Tops, logs, image logs and petrophysical zone averages reconciled into one QC'd database across every deviated well.

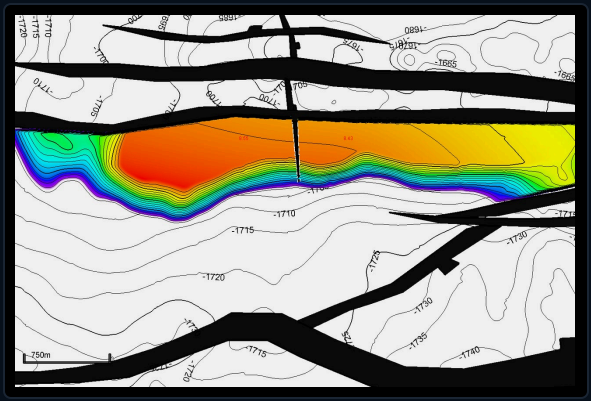
Output
A correlated tops database plus correlation panels.

2.1 **Tops Picking, Fault Cuts & Correlation Panels**
Output A correlated, QC'd tops database plus correlation panels.

2.2 **Stratigraphy: Image-Log, Log & Seismic Well-Top Harmonization**
Output Harmonized well tops with facies and environment calls, mapped at the scale you need.

2.3 **Well Pointsets: Zonal Thickness & Petrophysical Zone Averages**
Output Maps plus spreadsheets, built to be easily maintained and updated as new wells are drilled.

/ Synthetic demonstration data: all datasets shown were built solely for demonstration purposes and are not client data.



Net-pay / HC-column map by fault compartment
Synthetic demonstration data

03

Mapping & Volumetrics

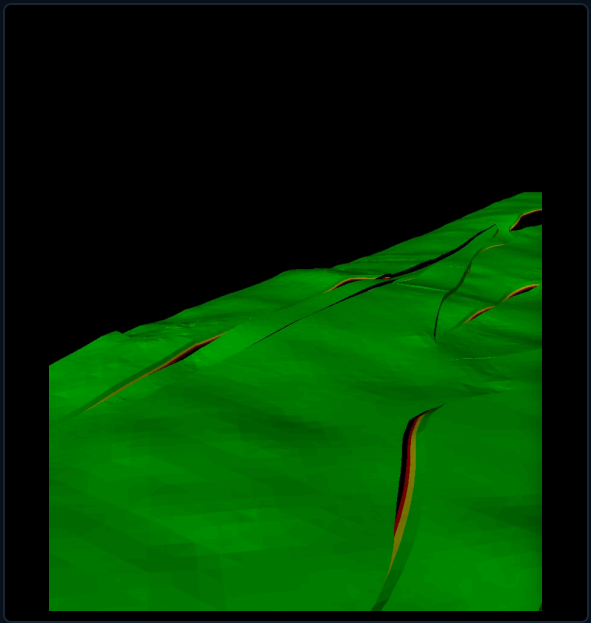
Thickness maps, zone averages and in-place volumes by fault block that survive peer review in structurally complicated fields.

Output
In-place and recoverable volumes by segment, with maps.

3.1 Bulk Rock Volume Assurance for Structurally Complicated Fields
Output QC'd thickness pointsets and maps, and a BRV that is consistent across faults.

3.2 2D Map-Based Volumetrics: Independent Volumetric Assurance
Output Independent STOIIP / GIIP with a clear audit trail of inputs.
Technical assurance, not a certified reserves audit.

3.3 Volume Ranges by Segment: P90 / P50 / P10
Output In-place and recoverable volumes by segment, with maps and range charts.



Zone 4–6 property filter, 3D grid
Synthetic demonstration data

04

Development Well Planning & Reservoir Model QC

Well plans, regulatory volume inputs and model checks that hold up from prognosis to simulation.

Output
Well-planning volume inputs, Sw updates and a QC'd, handoff-ready grid for reservoir engineering.

4.1 Well Planning & WCD Volumetric Foundation
Output Zone-by-zone WCD inputs and well-placement maps.

4.2 Seismic-Conditioned Reservoir Properties / Pseudo-4D
Output Seismic-conditioned Sw and property models, seismic net pay maps, and remaining-HC maps and volumes.

4.3 Fault Transmissibility & Simulation Handoff
Output A QC'd fault model, TMULTs and grid, packaged for simulation and history match.

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How to engage

The same five steps on every engagement. Scoped per project, no fixed length.

1
NDA
Signed before any data is shared.

2
60-minute consultation call
Free, on Microsoft Teams: your field, data and decision.

3
Paid scoping
A short data review, sized to the problem.

4
Written proposal
Scope, deliverables and a Gantt timeline, agreed up front.

5
The work
A pilot on one fault block or zone, or a full field study, with checkpoints and handoff.

Shorter projects: half-day to multi-week quick consults, QC of an operator's existing work, and data-room evaluations for bid rounds.

Credentials

- Memberships: SPE and AAPG
- Texas Professional Geoscientist (PG) certification in progress.
- Master's educated
- 17 years of industry geoscience (since 2009), much of it in the Gulf of America.

How we work

- An NDA on every engagement.
- HSE and drug-and-alcohol compliance available on request.
- Remote delivery · Houston, TX · Petrel and RMS on your license

Let's map your next development well.

Book a free 60-minute consultation call: your field, data and decision, and where the subsurface risk sits.

knexionenergy.com/book/

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