



## Pore Pressure Peer Reviews and Studies for Well Planning and Drilling Operations

### Pore Pressure: the Risks Demand Experienced Judgement

Our trusted specialists bring onshore and offshore experience from all the global energy hubs to this critical area of well operations.

AGR has the world's largest independent team of geomechanical support professionals for pre-drill planning, real time analysis and post-well studies and reviews. We integrate petrophysical, velocity and seismic data for offset wells using software we have built for this very purpose, with our clients benefitting from the collective experience of specialists who work on all types of drills across six continents.

#### A source of world-class Pore Pressure services

Nobody can afford shortcuts, when the stakes are this high.

Few aspects of geology in the energy industry are more important than Pore Pressure (PP). It's the source of many drilling challenges, is critical to casing design and in preventing reservoir damage. Poor interpretation of PP conditions can lead to lost circulation, kicks or even catastrophic loss of the well.

It's why AGR has built one of the most experienced teams of specialists in PP in the exploration and production sectors. We help energy companies accurately interpret wellbore stability issues in real-time and through review, with our experts able to recognise if problems stem from erroneous geo mechanical pre-drill models or drilling practices.



2500+ wells analysed

#### The difference we make: depth of knowledge and breadth of experience

We are proud of our leading reputation and the proven track-record which includes:

- Unrivalled knowledge, with 2,500+ wells analysed worldwide
- An extensive library of offset well data available through in-house softwares
- The largest group of in-house geoscience and subsurface professionals on the Norwegian Continental Shelf
- Expert training in Pore Pressure and industry software applied to the regional experience of the well location
- Hands-on support in streamlining processes and data management

Our mission is to help our clients to optimise their drilling process to enable safe and efficient project completion.

Access to extensive offset well data library combined with 30 years' industry knowledge



operational support



geomechanics



well data

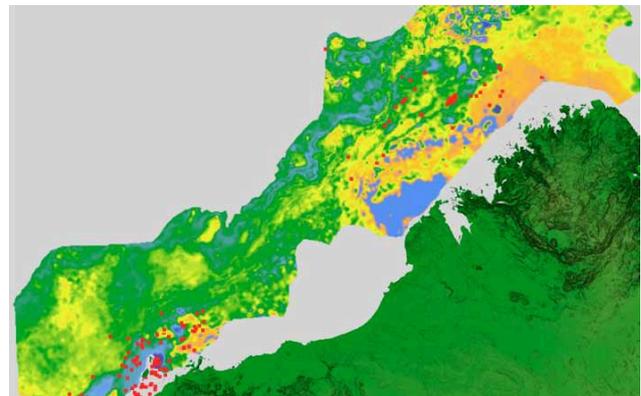


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### Regional Geo-Pressure Study

From regional studies to single well analysis, AGR offers regional geo-pressure study where overpressured zones are present

The Australian study includes the analysis of 100 wells – 60 in the Carnarvon Basin and 40 in the Browse and Bonaparte Basins – using traditional industry methods. The second part of the study involves a 3D pore pressure model, calculated from AGR's regional hiQbe™ velocity model. This model, which covers the entire North West Shelf, predicts the regional distribution of compaction disequilibrium over-pressures.



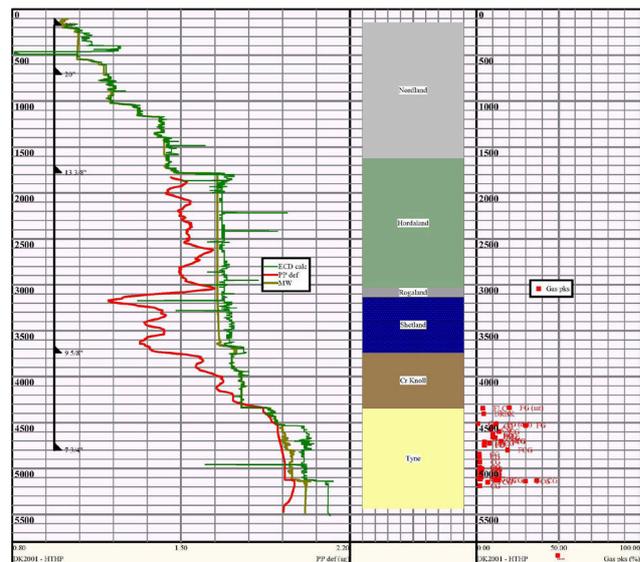
Integration of Seismic and well data for the North West Shelf of Australia

### Listening to the Well

When a business works only with quantitative data, they have limited insight and struggle to see a complete picture of the pore-pressure regime. For a view over everything – from gas mud weight-rate of penetration (ROP) relationship to produced gases, gas, temperature, cavings, lithology, geopressure profiles, torque, drag and fill – qualitative data is also needed.

In High Pressure High Temperature (HPHT) and deepwater wells, the mud window between the PP and FG can be tight, with complications such as supercharging easily leading to misleading gas indications.

Our powerful combination of experience and state-of-the-art technology helps clients manage these risks, offering them a live and accurate overview of geopressures. This helps businesses make informed decisions and avoid costly problems.



For more information and to discuss how AGR can support your requirements, please contact us on [porepressure@agr.com](mailto:porepressure@agr.com)