

Consulting Services include deliverability (AOF) projects

for large, field-wide AEUB compliance submissions; producing field/pool/unit reviews for pipeline modeling; and regional studies for Board Initial Deliverability waiver applications. This last category is a conundrum for us, but we believe the client's best interest is paramount. Having AOF requirements waived, when uneconomic and unnecessary, results in substantial cost savings.

Field-Wide AOF/ p_i Submissions

We have managed several large Initial Deliverability (AOF)/Initial Pressure (p_i) submission projects. There are many shallow, low pressure, gas pools these days, with deliverability ranging from high (Colony in the northeast) to low (CBM in the south) to very low (Bluesky in the northwest). The low deliverability gas sands are often in reduced drilling spacing units ($\frac{1}{4}$ - $\frac{1}{8}$ section DSU), some on a line-drive pattern. The Board will, initially, uphold requirements for both AOF & p_i . Projects have thus involved up to 300 AOF/ p_i submissions. We treat these as reporting projects, to achieve cost effectiveness, and manage them through our Technical Reporting office in Red Deer (unlike our regular deliverability analyses).

Regional Waiver Applications

Testing low deliverability gas wells can be uneconomic and unnecessary. One recent Board waiver application project involved 250 wells, same zone, 250 m deep, with the best well at $6.0 \text{ e}^3\text{m}^3/\text{d}$. Organized as a client/consultant team, we were successful with having Initial Deliverability requirements waived by the Board, while significantly reducing pressure test cost (i.e. approval to use AWS surveys despite liquid above perforations sometimes). This result easily saves the client \$250 000 per year.

To Discuss Your AOF Project

Contact our Co-President/Consultant, David Leech, BTEch, who has 29 years experience in reservoir, production, economics, pipelines, and welltesting.

Deliverability/Pipeline Projects

Consulting services have included AOF reviews, on a field/pool/unit basis, for pipeline modeling. One nodal analysis involved 82 wells, none with SCADA. We constructed an isobaric pressure map based on new in-fill well tests. Based on production accounting records we developed AOF relationships as primary input parameters for pipeline modeling software.

More than just PTA!

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