



## INJECTION PROJECT PERMITTING & WELLBORE INTEGRITY REVIEWS

A renewed and rigorous enforcement of regulations by the Division of Oil, Gas and Geothermal Resources (DOGGR) in its Underground Injection Control (UIC) program has caused substantial delays for oil and gas operators in obtaining Injection Project approvals and individual well permits from DOGGR. A significant part of UIC compliance is the preparation of casing diagrams (or wellbore diagrams) accurately depicting current state conditions of all wells within the Area of Review (AOR). InterAct's experienced wellbore integrity review team performs detailed analysis of wellbore histories and current geological data, ensuring that no potential pathway exists between injection fluids and protected water as defined by California's Safe Drinking Water Act.

InterAct has prepared over 8,000 wellbore diagrams for many major operators in DOGGR Districts 1, 2, and 4 and has provided operators with expert guidance in navigating the ever changing injection permit application requirements.

### InterAct Wellbore Integrity Review

- Detailed review of well history and mechanical condition, with representation of pertinent data in a wellbore diagram, allowing easy review by DOGGR for evidence that the proposed injection fluids will be confined to the intended zone of injection
- Database driven well diagramming system providing storage, tracking and analysis of detailed wellbore data
- Preliminary isolation review of all wells prior to DOGGR's review, giving operators the opportunity to remediate potential problem wells prior to the permit application submittal.
- Assist operators in working out reasonable and innovative solutions that meet DOGGR requirements and minimize the cost incurred by project delays and/or having to re-abandon or re-cement wells.

### Injection Well Applications- California DOGGR Applications Assistance

InterAct is well qualified in assisting operators with all or a portion of a UIC project application. The major elements of such applications are:

- Statement of purpose of the project
- A detailed engineering and geologic study
- Reservoir and fluid characteristics of each injection zone
- Evidence that plugged and abandoned wells within the AOR will not have an adverse effect on the project
- Casing diagrams and plugging information of wells within the AOR
- Proposed well-drilling and abandonment program
- An injection plan

**InterAct's wellbore diagrams are well recognized within the industry and by DOGGR.**

