

## Fire, Explosion, and Blast Effects Analysis



### **Predict, Plan, Prepare, Prevent**

State-of-the-art computer modeling from Wild Well Advanced Engineering predicts the load, effects, and consequences of fires, explosions, and blasts on oil and gas operations prior to the catastrophic damage they can cause.

Experience the improved accuracy of virtual simulation models and gain a more comprehensive understanding of the potential for critical events during the design phase of a project, minimizing their impact on operations.

In the case an emergency event occurs, the use of 3D computer simulations results in a more efficient, more effective response.

### **Load Analysis**

- Ventilation and gas dispersion modeling
- Explosion and blast load analysis
- Radiant heat modeling

### **Structural Effects**

- Response to blast and fire loading
- Nonlinear behavior, rate-dependent effects, and damage/failure prediction

### **Identification of Consequences**

- Structure vulnerability checks and design for fire and blast
- Prevention and mitigation studies
- Incident investigation
- Gas detector placement