

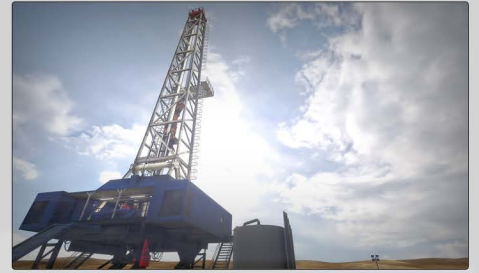


The Next Level of Drilling Simulators

DRILLING SAFETY TRAINING SIMULATORS

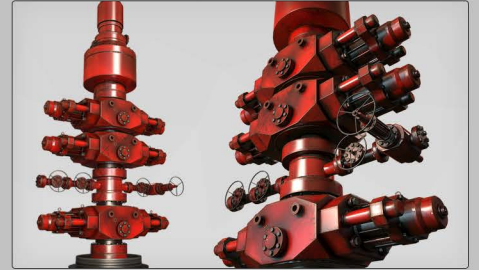
THE NEXT LEVEL OF DRILLING SIMULATORS

Drilling Safety Training Simulators allows you to learn dynamically, preparing operators for drilling operations and well control procedures.



WELL CONTROL

Master correct drilling techniques and learn how to instinctively and properly react to well control to prevent dangerous and costly blowouts.



DRILLING SYSTEMS AND SERVICES

State of the art conventional and unconventional drilling jobs.



ARTIFICIAL INTELLIGENCE

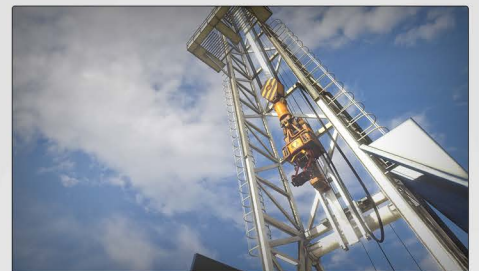
Supervise and give orders to your drilling crew while ensuring that everyone complete the drilling operation safely.



CUSTOMIZATION

The Drilling Safety Training Simulator development group tailors the software to fit the needs of each company, ensuring that all workers are up-to-date with company policies, procedures, and equipment specific to different geological formations.

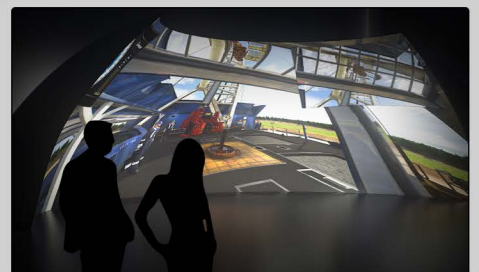
Workers can be trained with safety incidents under simulated high pressures and forces to ensure competence and confidence before rigging up onsite.



CONFIGURATION

The Drilling Simulator software and hardware captures the sights, sounds and feel that drillers and supervisors experience every day.

The simulator can be scaled according to the clients' requirements – drilling rig scale or a desktop application.

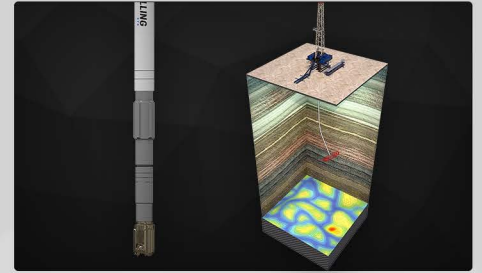


DRILLING SAFETY TRAINING SIMULATORS

TRAINING OBJECTIVES

The ability of the drilling simulator to simulate common and unpredictable workplace scenarios prepares users for different job sites with unique challenges.

The interactive feedback system is useful for new worker training, pre-job planning, competency assessments, and continuing education coinciding with equipment upgrades and new procedures.



HIGH FIDELITY

The drilling simulator reproduces oil and gas behaviors that are largely considered best in class.

An industry demand-driven approach prioritizes safe training with years of field knowledge integrated directly into the software and hardware.



UNRIVALLED SIMULATOR TECHNOLOGY

PRECISE VIRTUAL REALITY DRILLING SYSTEMS USING NUMEROUS CUTTING EDGE TECHNIQUES



DIRECTIONAL DRILLING
Trajectory control in three dimensions



WELL CONTROL METHODS
Drillers, wait and weight, volumetric, concurrent and low choke



DRILLING RIG INSTRUMENTATION
Drilling control and rig automation systems



REALTIME DOWNHOLE VIEW
Interactive geospatial technology



DOWNHOLE EFFECTS
Advanced simulation of downhole conditions



MUD SYSTEMS
Complete drilling fluid system and solids control



WORKER INTELLIGENCE CONTROL
Drilling rig crew operations

ADVANCED ARCHITECTURE

DRILLING STS IS BUILT ON A SOPHISTICATED FRAMEWORK THAT BREEDS REALISM



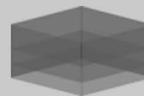
CONSTRUCTABLE FORMATIONS
Variable rock strength, permeability, porosity, friction, and more



REALISTIC GEOPHYSICS
Advanced artificial neural network used for realistic geophysics in real-time



INTELLIGENT ANIMATION
Adaptive and reactive worker and equipment animation



GEOSPACIAL TECHNOLOGY
Interactive geospatial technology



CUSTOMIZABLE EQUIPMENT
Customizable top drive, MWD, mud motor, bit, pipes, and more



ACCURATE MODELLING
State-of-the-art torque-and-drag modelling based on the latest published research

NEXT - GEN VISUALS

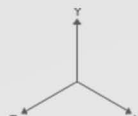
TOP-TIER GRAPHICS SHOWCASING THE LATEST GAME ENGINE TECHNOLOGY



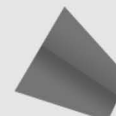
REALTIME POST PROCESSING EFFECTS
State-of-the-art realtime effects



IMAGE-BASED LIGHTING
High quality dynamic lighting with realtime shadows



OPTIMIZED 3D GRAPHICS
Baked ambient occlusion and normal maps for beautiful, optimized graphics



SCREENSPACE REFLECTIONS
Crystal clear environment reflections



HIGH END SHADERS
Custom shader workflow that achieves photo-realistic materials