



Macondo Blowout

Energy Flow

Cement Barrier

Wellhead Seal

Choice of Single String Casing

Single String Completion Casing

Validate Results

Internal Communication

Centralizers

Validate Test Results

Testing after Cement Set

Pressure Testing

Annular Preventors

Pipe Rams

Shear Rams

Certificatio

Blow Out Preventer

Energy Flow

Redirection of HC

Fire & Gas Detection

Alarm and Deluge Systems

Maintenance of F&G Barriers

HC Detection and Mitigation

Fire Fighting System

Explosion

Emergency Preparedness

Evacuation

Barrier Legend

- Man
- Technology
- Organization