

## ADVANCED GEOMECHANICS SOLOUTIONS

G&G Department of PEDCO is a one of Iranian Geomechanical expertise which providing the oil and gas industry with practical and specialized solution such as following topics:

### Drilling Geomechanics

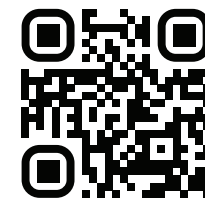
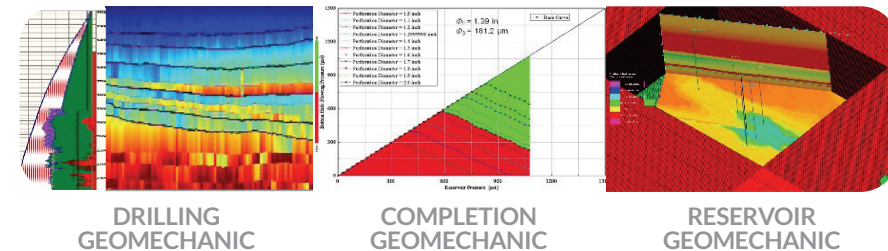
- Wellbore stability and well trajectory optimization
- Casing collapse
- Real time Drilling Geomechanics
- Advanced horizontal drilling, evaluation and its completion

### Completion Geomechanics

- Sand Production modeling & analysis
- Perforation Optimization
- Hydraulic fracturing optimization

### Reservoir Geomechanics

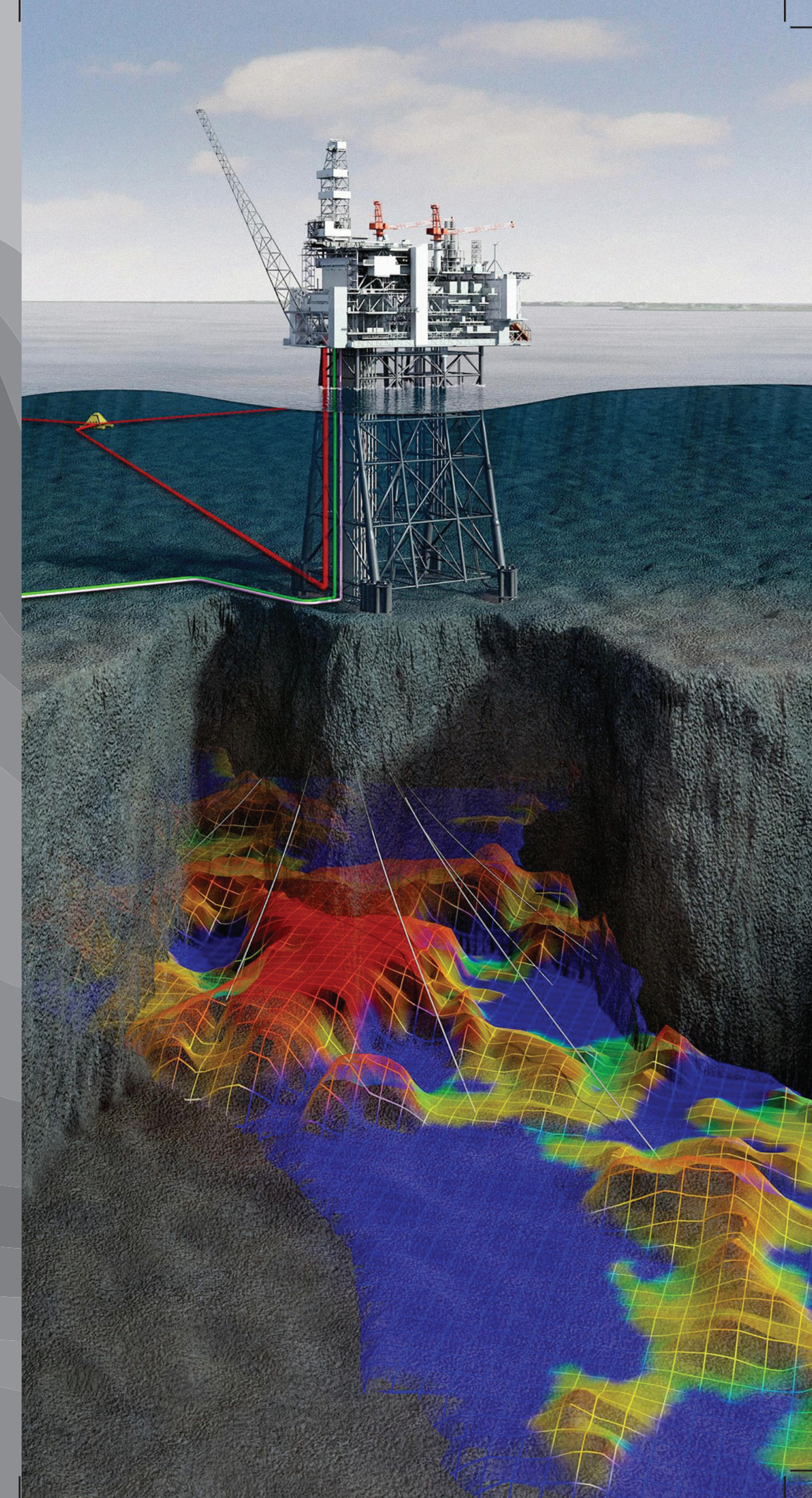
- Compaction/Subsidence and permeability evolution
- Cap rock Integrity
- 3D Geomechanical model & 4D couple of reservoir Geomechanics



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# PEDCO Geology & Geophysics Services

Technical  
Management  
Department





# GEOSCIENCE DEPARTMENT

Ever since Petroiran Company was recognized as a well-known company in the field of exploration and production for mega projects, the Geoscience Department has played a decisive role in completing the exploration and production chain. The main objectives of this department are exploration and appraisal as well as carrying out geological operations for ensuring scientific and economic efficiency of oil and gas fields.

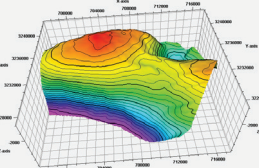


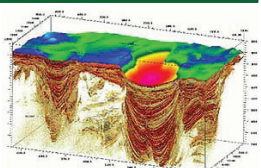
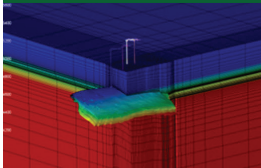
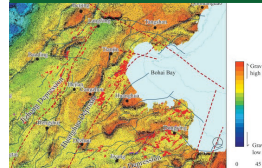
## Our Commitment

Our Mission is to provide geological information based on the latest scientific advances in the least time and cost in line with the wishes of respected clients with respect to safety standards and environmental protection. Our main goal is to meet the diverse and growing demands of our clients in a dynamic and innovative work environment.

Our Vision is to find solutions to the challenges of geological sciences in our projects or the ones owned by contractors or clients. Our goal is first to be the leading petroleum geology company in Iran and secondly in the competitive global market.

Our Work reflects our value, which includes customer orientation, respect and flexibility, best service delivery, teamwork and strong relations, innovation and progress, flagship and standards technology, and rule of law.

### GEOSCIENCE ACTIVITIES INCLUDING

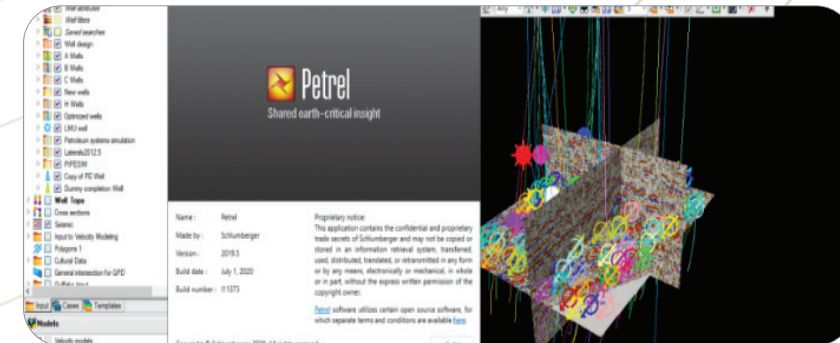
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|---|---|--|
| <b>Geological Study</b><br><br>STRUCTURAL GEOLOGY<br>SEDIMENTOLOGY<br>PALEONTOLOGY<br>3D GEO-MODELLING | <b>Geological Operation</b><br><br>WELL PROGRAMMING<br>WELL SITE GEOLOGY<br>SUPERVISION ON GEOLOGICAL SERVICES / GEOSTEERING | <b>Geological Lab Test</b><br><br>THIN SECTION AND<br>CORE STUDIES                      |
| <b>Geophysics</b><br><br>ACQUISITION<br>PROCESSING<br>INTERPRETATION                                   | <b>Geomechanic</b><br><br>WELLBORE GEOMECHANIC<br>COMPLETION GEOMECHANIC<br>RESERVOIR GEOMECHANIC                            | <b>Block Evaluation</b><br><br>PROSPECT   MAPPING<br>EVALUATION / VOLUMETRIC<br>RANKING |

## Geological Studies Capabilities

Sedimentology, stratigraphy, and paleontology

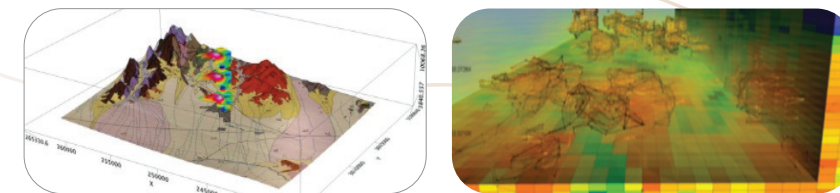


Static modeling and geological studies



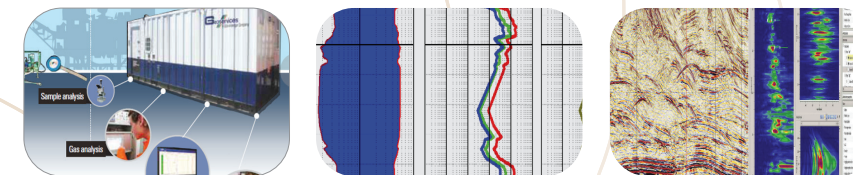
## Geophysical Capabilities

Exploration and use of geophysical methods is the first phase of the chain of activities of PEDCO company, which is done with the aim of evaluating the underground potential of oil and gas reservoirs and the final confirmation of the existence of the reservoir.



- Acquisition, Processing and Interpretation of offshore and onshore Fields
- Seismic structural and stratigraphic study
- Seismic attribute evaluation on reservoirs
- Reservoir Geophysics Studies
- Implementation and study of Non-seismic methods
- Research and development and providing special software

# We are Committed to Excellence



## Geological Operation Capabilities

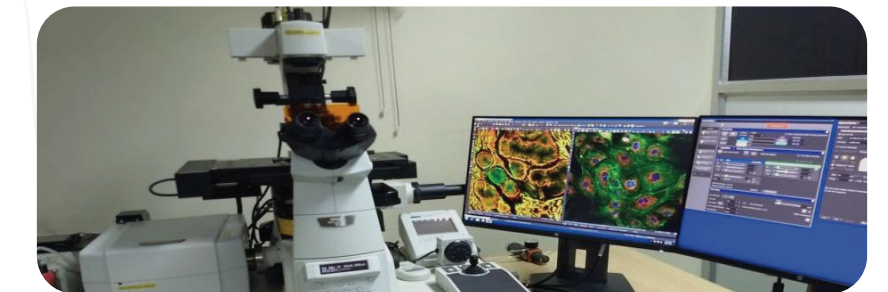
- Supervising of Coring, Mudlogging, LWD, MWD Services
- Drilling Data Management and Analysis
- Real Time Monitoring of Engineering Parameters
- Cutting Analysis
- Pore Pressure Analysis
- Geological Thin Section Preparation and Description

## Special Capabilities in the G&G Department

Providing the monitoring and control service of the well path (Geosteer)



providing geological laboratory services for petrography and thin section studies



Providing manpower services related to equipping and complementing geological operations personnel



Providing services related to one-dimensional, three-dimensional and geomechanical coupling studies

