

## Integrated Technical Management

The technical management unit is carrying out its technical mission in EPD study and operational projects. This mission is reflected in the supervisory, operational and study dimensions. The most outstanding of these current projects are Mansourabad field drilling, Binak field drilling, Siri offshore field drilling comprehensive studies of Sarvestan Saadatabad fields and preparation of EPD documents of Toos field.

The TMD has provided admirable technical and engineering services in many onshore and offshore fields under various contract types and with the most optimal time and cost. This valuable technical reserve is the beacon for success in current projects and in the path forward.ensuring scientific and economic efficiency of oil and gas fields.

- Azadegan Onshore Field Early Production
- Development of Salman Oil & Gas Field
- Nosrat & Farzam Offshore Fields
- Foroozan & Esfandiar Offshore Fields
- Jufeyr Onshore Field
- South Pars Oil Layer Development
- Cheshmeh Khosh Full Field Study
- 12 Exploration Project
- Danan - Susangerd Fast track Study
- Mahan Exploration Block Evaluation
- Technical Screening of 52 IPC Field
- Farzad A & Farzad B Fast track Study
- Foroozan& Esfandiyar Fast track Study
- North Pars Fast track Study
- Soroosh - Nowrooz Fast track Study
- Nosrat - Farzam Fast track Study



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# PEDCO Technical Management Department





# GEOSCIENCE DEPARTMENT

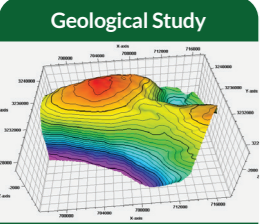
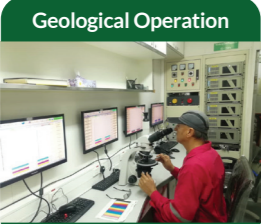

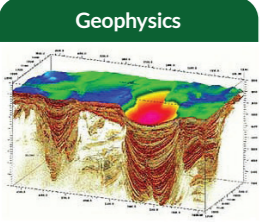
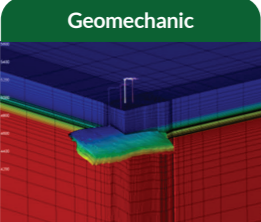
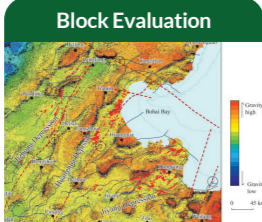
Ever since Petroiran Company was recognized as a well-known company in the field of exploration and production for mega projects, the Geoscience Department has played a decisive role in completing the exploration and production chain. The main objectives of this department are exploration and appraisal 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

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

# GEOLOGICAL OPERATION

**Our Geological Operation**, by performing advanced analyzes on drilling cuttings and drilling logs using state-of-the-art equipment and advanced software and supervising well logging and coring and mud logging services from the time of selecting experienced contractors and applying new technologies and supervising the commissioning of the mentioned services and performing the required tests and calibrations and tapping all the efforts by employing experienced specialists to protect national riches.

# GEOPHYSICAL SERVICES

**Our Geophysics Department**, from the beginning of field exploration to production in three section of Acquisition, Processing and Interpretation, uses its best efforts to provide the highest quality services.

 <p>Seismic 2D and 3D Acquisition for reservoir exploration (Including Camp field, maintenance, surveying, drilling, blasting, construction and Field QC,- Camp boss, Field Geophysicist and ...) * Seismic re-processing and re-interpretation of 2D and 3D. * Interpretative processing with petro-physics and geological data</p>	 <p>Seismic Acquisition, Processing and Interpretation Seismic Inversion with model-based, data based (classic and AI) Seismic Acquisition, Processing and interpretation VSP (com- mon Offset, 3D-VSP, Walkaway VSP)</p>	 <p>Research and Development and software design Software and plug-in design for special processing of seismic data Software design for gravity and non-seismic processing and interpretation Software design for digitizing of logs and seismic data</p>
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# Petroleum Engineering Department

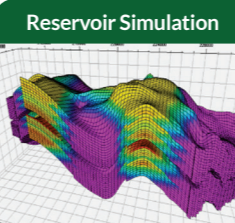

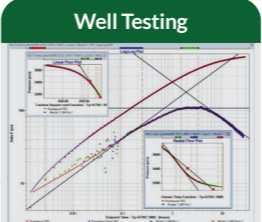
Bridging the gap between the various Geoscience disciplines and Well and Facility Engineering disciplines, Petroleum Engineering Department has always been a prominent and central discipline in PEDCO. Our group is a leading provider of technical petroleum engineering services to upstream E&P business. We offer technical solutions during the entire life-cycle of oil and gas fields.

## Our Commitment

Through our experienced and highly skilled team, we can provide a range of services such as:

- Analytical and numerical analyses
- Creation and execution of dynamic models to predict past and future field/well performance
- Conceptual and detailed designs
- Technical advice for data acquisition strategies
- Technical evaluation of contract tenders
- Quick look evaluations to support the operators
- Supervision and on-site operational support of Logging, Well Completion, and Well Testing

### PETROLEUM ENGINEERING ACTIVITIES INCLUDING

 <p><b>Petrophysics</b></p> <p>CONVENTIONAL LOG INTERPRETATION   ADVANCED LOG INTERPRETATION   LOGGING OPERATION SUPERVISION</p>	 <p><b>Reservoir Engineering</b></p> <p>FLUID ANALYSIS   CORE ANALYSIS   RESERVOIR CHARACTERIZATION   RESERVES ESTIMATION   RESERVOIR PERFORMANCE ANALYSIS</p>	 <p><b>Reservoir Simulation</b></p> <p>BLACK OIL &amp; COMPOSITIONAL SIMULATION   FIELD DEVELOPMENT PLANNING IOR-EOR ASSESSMENT   RISK &amp; UNCERTAINTY ASSESSMENT</p>
 <p><b>Completion Engineering</b></p> <p>COMPLETION DESIGN   TUBING SIZE &amp; MATERIAL SELECTION ARTIFICIAL LIFT DESIGN   WELL STIMULATION DESIGN   NODAL ANALYSIS   SUPERVISION</p>	 <p><b>Well Testing</b></p> <p>WELL TEST DESIGN ON-SITE SUPERVISION WELL TEST INTERPRETATION</p>	 <p><b>Production Engineering</b></p> <p>Production Performance Analysis Production Allocation Production Surveillance Production Forecasting</p>

# Well Management and Engineering

**PEDCO's Well Management & Engineering Department** offers a team of experts that provide a wide range of services concerning well engineering and well construction activities, from discrete engineering studies, through reviews and training and on to complete drilling project management.

### Well Management Services

According to our clients requirements our well management teams can take full or partial responsibility for all aspects of a well construction project, including well design and planning, budget and cost control, HSE and risk analysis, procurement and contracting, permitting, emergency response, operations management and preparation of final well and close-out reports.

- On behalf of our clients we have successfully managed construction of more than 112 wells over the last 15 years.
- The wells we have managed span the full range from rank wildcats through appraisal and complex development wells.
- We have experience from a wide range of onshore and offshore operating environments, including HPHT, ERD, remote locations and environmentally sensitive areas.

### Well Engineering Studies, Reviews and Training

Through our highly skilled personnel and our specialist and proprietary software solutions we can provide a range of services, including:

- Well engineering studies
- Conceptual and FEED evaluation of field development, well design and well management options
- Development of well delivery processes and management systems suited to well construction
- Workshops, Audits and peer reviews, Well examination services
- Well integrity reviews, manuals and training based on the NISOC/API standard
- BOP & well control equipment assessment
- Performance monitoring and benchmarking
- Accident and incident investigation
- Commercial support and due diligence
- Incident investigation