

Profile:

Through close cooperation of a group of faculties and alumni's of the school of Chemical and Petroleum Engineering, Shiraz University, we provide high quality integrated services mainly to the upstream sector of the oil and gas industries. Our distinguished partners and associates are among the front lines in providing innovative reservoir development technologies for Underground Gas Storage, Enhanced Oil Recovery, Improved Oil and Gas condensate Recovery along with high quality Petroleum Lab Instruments and Petroleum Lab Services in the Middle East. There is a wide variety of high quality products and professional services to the industry:

- Well, Reservoir and Field management services
- Rock and Fluid Analysis Services
- Rock and Fluid Lab Equipment

Identify the assets to improve the gains

- Specialized Petroleum Lab Equipment
- Reservoir Development Services
- Specialized Petroleum Lab Services



PETRO AZMA



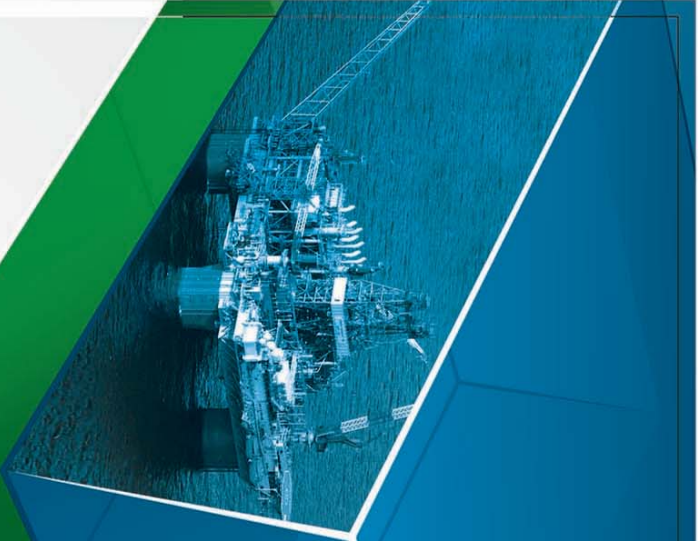
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Fars Science and Technology Park
Dr. Hesabi Blvd., Shiraz, I.R. Iran

Your companion from the lab to the field



PETRO AZMA
Professional Lab Services



PETRO ASA
Integrated Reservoir Solutions

Specialized Petroleum Lab Equipment

Fluid Lab Instruments (PVT)

- PVT Equipment
- Reservoir Condition Viscometer
- Density Measurement System
- GOR Apparatus
- Manual Gasometer
- Wax Appearance Temperature Equipment
- Reservoir Condition Asphaltene Analysis Setup
- Asphaltene Content Measurement System
- Recombination Cell Setup



EOR Lab Instruments:

- Core Flooding Setup (EOR Equipment)
- Slim Tube Equipment
- Vanishing Interfacial Tension Equipment
- Spinning Drop Tensiometer
- Fractured Reservoir rig (Gravity Drainage)
- High Pressure Micro-model rig
- Steam Injection Setup

Other Petroleum Lab Instruments:

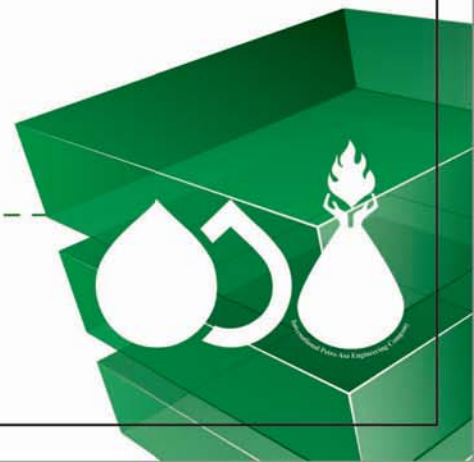
- High Pressure Injection Pumps
- Core Acidizing Setup
- Hydraulic Fracturing Setup
- Zeta Potential Setup



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Specialized Petroleum Lab Equipment

Petro Asa and its distinguished partners and associates are among the vanguards in providing high quality specialized lab instruments for hydrocarbon reservoir characterization including Routine Core Analysis (RCAL), Special Core Analysis (SCAL), Fluid Analysis (PVT) Enhanced Oil Recovery (EOR) apparatuses and any other customized lab setups for oil companies, research institutes and the individuals. The products can be customized for a wide range of pressure and temperature conditions.

Petro Asa Products:

Routine Core Lab Instruments:



- Core Plugging, Preparation and Cleaning Sets
- Helium Porosity Equipment
- Air Permeability Equipment
- Liquid Permeability Equipment
- Saturation determination Sets



Special Core lab Instruments:



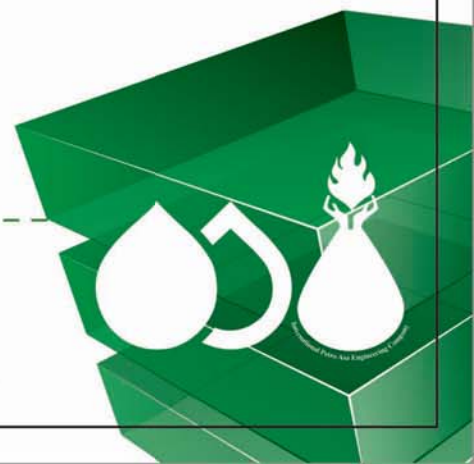
- Sample Preparation Sets
- Reservoir Condition PoroPerm Equipment
- Two Phase Relative Permeability Setup (Steady & Unsteady State)
- Centrifuge Capillary Pressure System
- Porous Plate Capillary Pressure System
- Resistivity Index and Electrical Properties System
- Wettability determination Instruments
- High Pressure IFT and Contact Angle Equipment



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Specialized Petroleum Lab Services

The elements of *PetroAzma* RCAL services includes:

- **Core Handling, Preparation and Cleaning**
- **Plug and whole Core Analyses**
- **Fluid Saturation**
- **Porosity** (0.01 to 60 %, accuracy = 0.01%)
- **Permeability** (Gas and liquid permeability measurement, 0.01 to 15000 mD, accuracy = 0.1%)
- **Spectral Gamma Logging**
- **Core Archiving**



The elements of *PetroAzma* SCAL services includes:

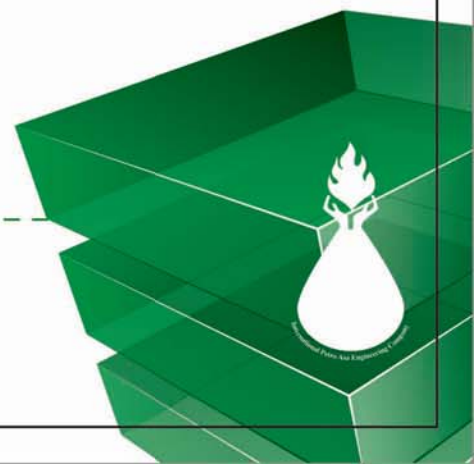
- **Sample Preparation** includes wettability restoration, mounting of unconsolidated sand and fractured carbonates, preparation of composite core plugs
- **Electrical Properties**
 - Formation Resistivity Factor: Cementation Factor (m) at both ambient and reservoir conditions
 - Resistivity Index: Saturation Exponent (n), at both ambient and reservoir conditions
 - Cation Exchange Capacity (CEC), by wet chemistry or by Core Conductivity Method (CCM)



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RCAL Services

In *PetroAzma* Routine Core Analysis Lab, measurement of common petrophysical properties of core plugs are determined by well trained professionals using high quality facilities. Through statistically targeted point analysis, our RCAL services aimed at the quantification of a series of key petrophysical parameters, the service commences at the well site extends through the lab and ends in the core store. These services are available at client's place and well sites through our mobile lab facilities.

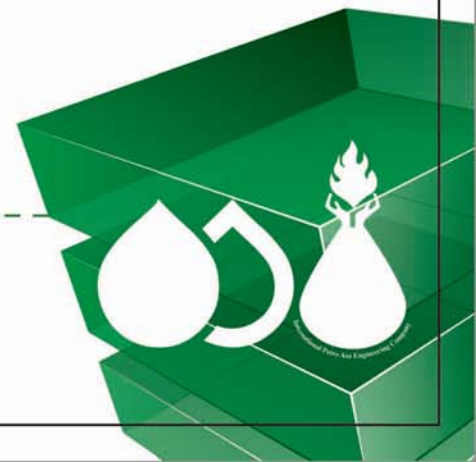
SCAL Services

PetroAzma Special Core Analysis Lab offers particular services for characterizing the properties of reservoir rocks at reservoir conditions or lab conditions by well-trained professionals using high quality facilities. Our SCAL services offers a wide range of SCAL preparation and testing formats and can be customized to suit the specific objectives of the client. The *PetroAzma* SCAL services is associated with complimentary services whenever asked by the client. The service also includes program design, data interpretation and integration formation evaluation and reservoir model input.

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Specialized Petroleum Lab Services

- **Core Properties at Overburden Stress**
 - Porosity and Pore Volume Compressibility
 - Specific and Effective Permeability to air, brine and oil
- **Capillary Pressure**
 - Centrifuge Capillary Pressure Services
 - Air-Brine and Oil-Brine by the Porous Plate technique at ambient and overburden pressures
- **Wettability and IFT**
 - Amott test
 - USBM method
 - Combined Amott/USBM method
 - Contact Angle method
 - Interfacial Tension by pendant drop method at ambient and reservoir conditions
 - Interfacial Tension by Spinning drop method
- **Relative Permeability**
 - Both Unsteady and Steady State displacement options
 - Ambient and reservoir conditions, with dead and live crude oil
 - Drainage and Imbibition Full Curves and end Points
 - Displacement of mobile phase by gas, water or oil
 - Trapped (Residual) Saturations
- **Cap Rock Analyses**
 - Capillary pressure
 - Relative Permeability
 - Compressibility
 - Cap Rock Failure Point



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