

**ROYAL TECH OIL AND GAS FIELDS SERVICES LLC**

شركة رويال تك لخدمات حقول النفط والغاز ذ.م.م



**ROYAL TECH**

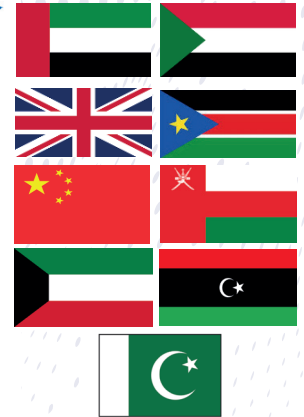
OIL AND GAS FIELDS SERVICES LLC

شركة رويال تك لخدمات حقول النفط والغاز ذ.م.م

*Innovative Solutions for Sustainable Future*



## Royal Tech Global Network



Royal Quality General Trading LLC  
Incorporated in 2013  
Dubai, United Arab Emirates



Royal Quality Fuel and Petroleum  
Incorporated in 2013  
Dubai, United Arab Emirates



R. Quality General Trading Ltd  
(Company No. 15765114)  
Incorporated in June 2024  
Brentford, United Kingdom



Royal Quality General Trading LLC  
Incorporated in 2023  
Juba, South Sudan

### COOPERATION AGREEMENT

合作协议



## ROFS Company Overview

Royal Tech Oil and Gas Fields Services LLC is a comprehensive services provider in oil and gas industry, offering a wide range of solutions and supplies. Our services include oil field development, asset management and environmental solutions, focusing on production enhancement, reservoir management, HSE, bioremediation and green energy initiatives. The company also integrates smart technologies such as AI, nanotechnology and field digitization to optimize operations. Additionally, We supply essential oil and gas equipment, including drilling and production tools, artificial lift systems as well as chemicals for production, drilling and enhanced oil recovery.



### Our Vision :

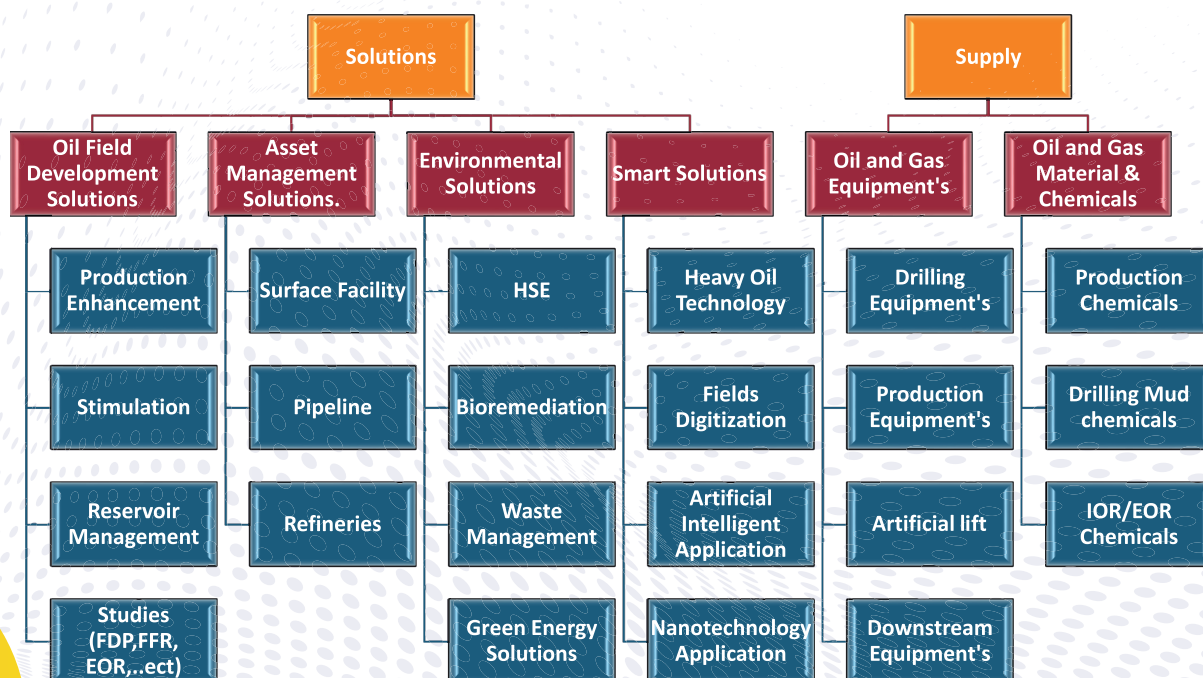
Our vision is to grow to be the trusted name in the Middle East and Africa, providing outstanding services and innovative solutions for oil and gas fields that are efficient, sustainable and green.

### Our Mission:

The firm focuses on solving oil and gas field challenges through scientific investigation, expert collaboration and customized sustainable solutions. It emphasizes continuous research, innovation and developing cutting-edge technology for client challenges.

Additionally, the firm provides competitive oil and gas services, high-quality equipment and materials at competitive prices. Our goal is to enhance productivity, maximize asset returns, ensure safety and environmental standards and create value for stakeholders through a win-win business approach

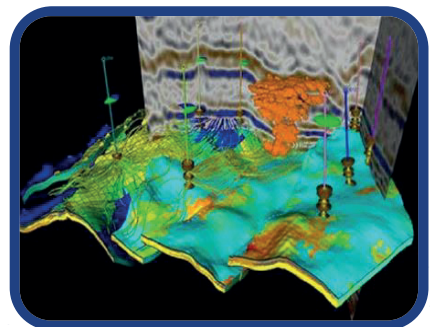
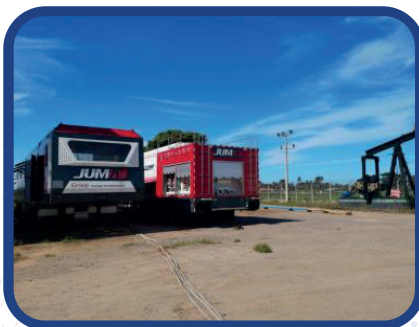
## Royaltech Services Structure



## Provision of Oil and Gas Services Projects and Solutions

1. Conduct FDP/FFR Studies.
2. OOIP and Reserves Estimation, Verification and Certification Utilizing Latest Methodologies.
3. Production Enhancement Solutions.
  - I. Thermal EOR Projects (CSS, SF, SAGD).
  - II. Chemical EOR Projects (Polymer, Surfactant, Alkaline).
  - III. Nanotechnology for EOR Application.
- VI. Chemical Water Shut-Off.
- V. IOR/EOR Project Screening, Designing, Implementation and Evaluation.
4. Flow line and Pipeline maintenance.
5. Reservoir Evaluation (Logging, PLT and Tracers, etc.).
6. HSE & Environmental Solutions (Bioremediation, Waste Management).
7. Petroleum Engineering Training and Consultancy.

## ROFS IOR/EOR Solutions



Screening

Lab Study



**ROFS  
PARTNERS**



Pilot Design

Pilot  
Implementation

PM



Chemical /  
Equipment's Supply



**ROFS  
PARTNERS**



Pilot Evaluation

Operation



Full Field Study



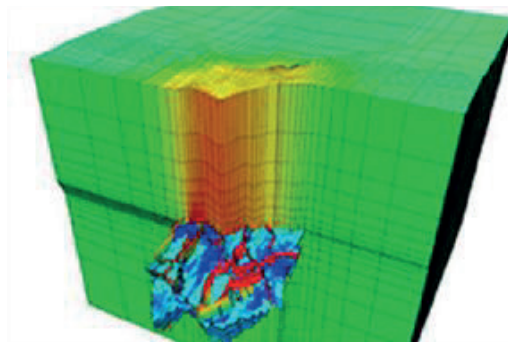
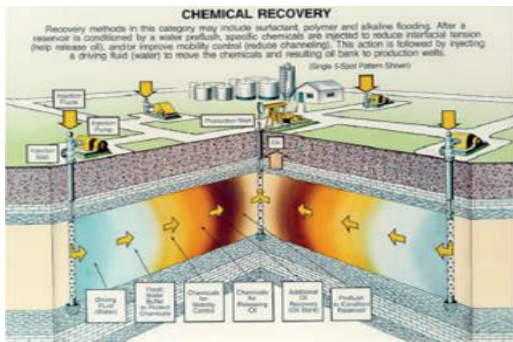
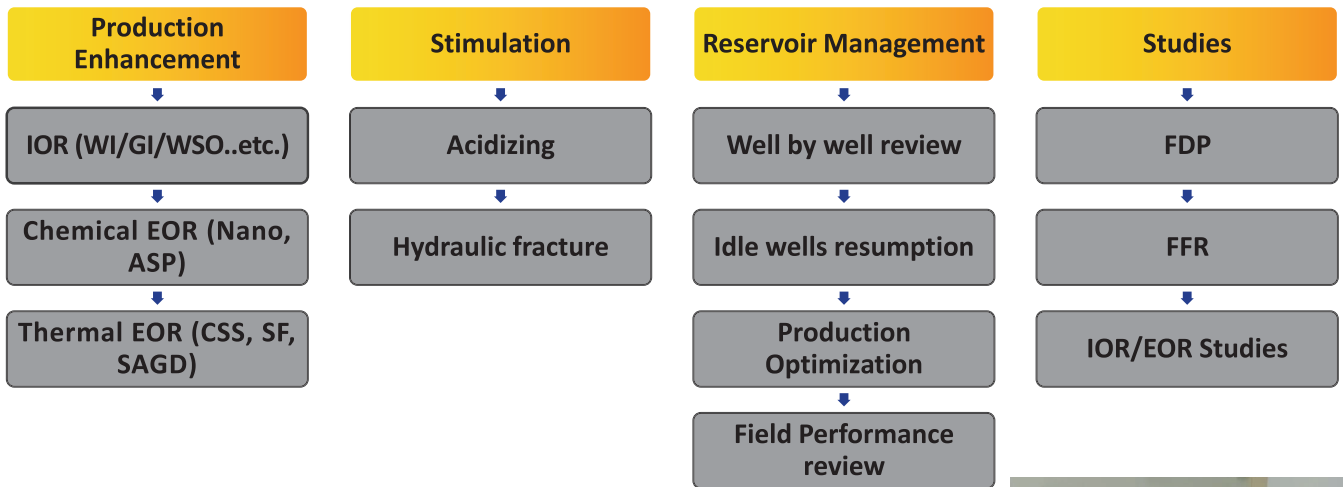
Full Field  
Implementation

### Production Enhancement

- Stimulation
- IOR (WI/GI/WSO...etc.)
- EOR Studies
- Chemical EOR (Nano, ASP)
- Thermal EOR (CSS, SF, SAGD)

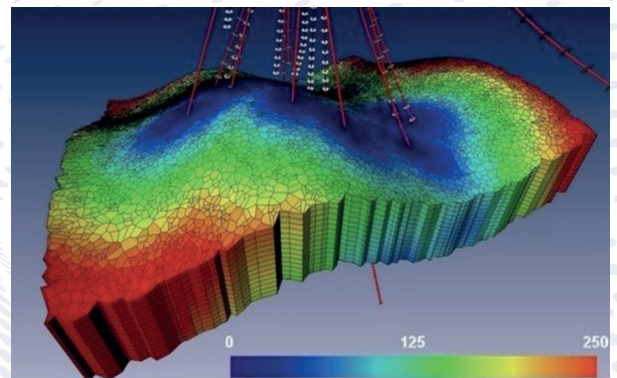
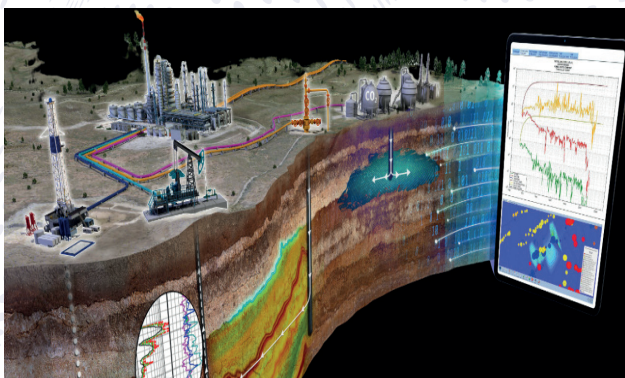
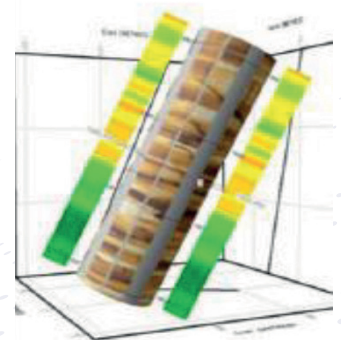
# ROFS Solutions

## Oil Field Development Solutions



## Technical Consultancy Services

- Resource Evaluation
- Field Development Planning
- Reservoir Management
- Waste Management
- Improved and Enhanced Oil Recovery
- Numerical Modeling
- Production Optimization Water Flooding and its Optimization

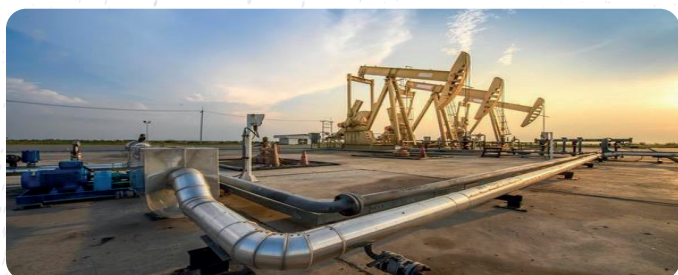


## Supply of Oil and Gas Equipment and Materials



- ❖ Supply of Drilling, Workover and Completion Equipment and Spare parts Artificial lift (ESP, PCP, BPU, ..etc.).  
Casing, Tubing, Wellheads, Valves and Packers,...etc.).
- ❖ Supply of Oil and Gas Chemicals  
Production Chemicals. Drilling Mud Chemicals.
- ❖ Supply of HSE Materials and Equipment.  
PPE, Gas Detectors, Environmental Surveillance Devices,...etc.).
- ❖ Flow line and Pipeline Maintenance Material Supply.
- ❖ Thermal Equipment (Thermal Wellhead, Thermal Casing, Tubing (VIT) and Thermal Compensator and Packers).
- ❖ Production and down hole tools and Chemicals.
- ❖ Flow Line Pressure Switch
- ❖ Production Surface Equipment (Eco Meters, Monitor Instruments)  
(Pressure and Temperature Gauge).

## Midstream and Downstream Solutions



- ❖ Project Management, Engineering.
- ❖ Operation & Maintenance for Oil & Gas Facilities (O&M).
- ❖ Flowline and Pipeline Maintenance.
- ❖ Oil & Gas Equipment and Spare Parts Supply.
- ❖ Procurement, Construction, Commissioning (EPCC) in Oil & Gas Services  
(Pipelines & Storage Facilities, Gas Processing Plants, Gas Processing Modules).
- ❖ Petrochemical Industries.
- ❖ Power Plants.
- ❖ Refining.
- ❖ Inspection Technology.
- ❖ Environmental Treatment.
- ❖ Other oil & gas field services in Upstream, Midstream and Downstream

# Environmental and Sustainable Energy Solutions

Royal Tech. is dedicated to transforming the energy Landscape with innovative, sustainable solutions that meet the needs of today while preserving the planet for tomorrow.

- Tagline: Innovating Today for a Sustainable Tomorrow

## Our Core Values:

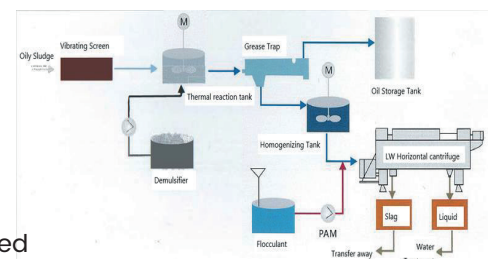
- Sustainability: We are dedicated to creating solutions that promote longterm environmental health, safety and sustainability.
- Innovation: We leverage the latest technological advancements to drive progress in the energy sector.
- Integrity: We uphold the highest standards of ethics and transparency in all our operations.

Collaboration: We believe in working together with Stakeholders, Communities and partners to achieve common goals and promote steady pace business growth.

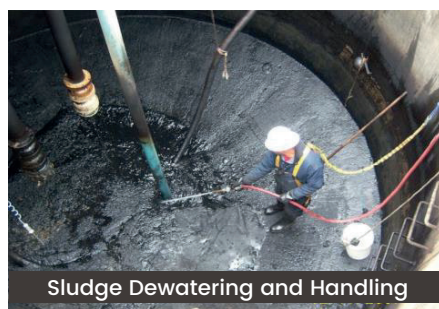
## Waste Management Solutions

Royal Tech Oil & Gas Fields Services L.L.C. is one of the leading provider of comprehensive, integrated waste management solutions tailored to the unique needs of oil & gas industry in MENA Region. Leveraging decades of field-proven expertise, state of the art treatment technologies and a Robust Technical network of specialized partners, we deliver end to end services covering:

- ❖ **Waste Characterization & Segregation:**Detailed analysis and classification of solid, liquid, hazardous and non-hazardous Waste.
- ❖ **Collection & Transportation:**Safe, compliant logistics using our fleet of specialized vehicles and GPS-monitored routes, considering full compliance with road safety management regulations.
- ❖ **Treatment & Recovery:**Advanced physical, chemical and biological processes for effluent polishing, sludge dewatering, recycling and energy recovery.
- ❖ **Disposal & Permitting:**Environmentally sound disposal solutions through licensed facilities, backed by full regulatory reporting and permitting support.
- ❖ **Emergency Response & Spill Management:**Rapid-response teams equipped for on-site containment, cleanup and remediation.



Typical Sludge Treatment Plant



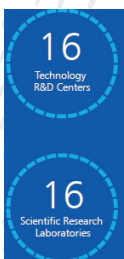
# Kerui Cooperation Agreement



## ROFS & Kerui IOR/EOR Solutions

KERUI Petroleum is an international comprehensive industrial group that is committed to making the acquisition of oil and gas more efficiently. KERUI integrates and innovates in areas such as equipment, technology, human resources, finance and assets in the global oil and gas energy industry.

KERUI's business covers the R&D of high-end oil and gas equipment, oil and gas energy engineering and oil field integration services, industry and internet platform services, industry training and human resources services along with many other fields.



## ROFS & KERUI IOR/EOR Solutions



## ROFS & SOPAN EPC Solutions



### EPC Projects

- NG/Biogas/CBM production handling facilities
- Oil & Gas Depots/Terminals for OMCs
- Refineries/ Petrochem./ Fertilizer Plant packages
- LNG/LPG Import Terminal
- Pipelines and Fire Fighting Systems
- City Gas Distribution Infrastructure



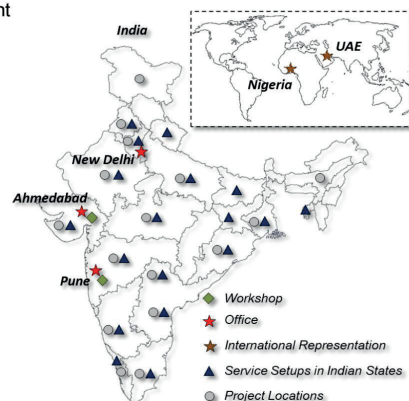
### O&M Services

- Compressors/ Compression Plants
- Cross-country Pipelines
- Process Units/ Tank Farms/ Utilities
- Exploration & Production Facilities
- Industrial Fueling Systems

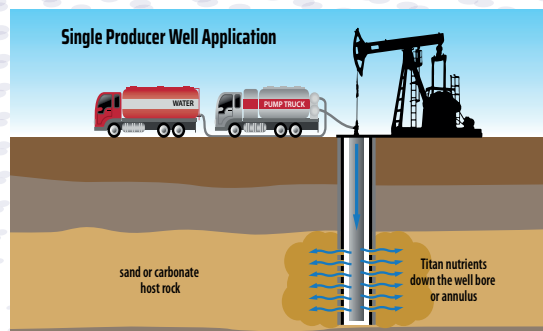


### Equipment & Systems

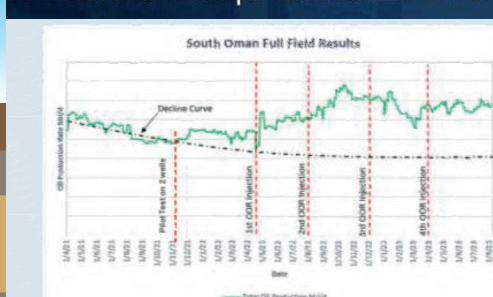
- Compressors
- Gas Utility Systems
- Process Units
- Produced Water Treatment package



## ROFS & HUNTING Solutions

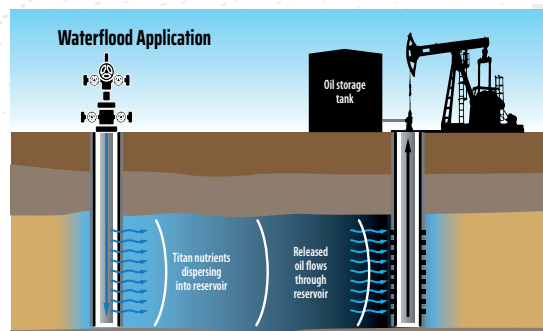


Full Field Production Graph – Onshore Oman Field #1



### Organic Oil Recovery

- Zero Capex
- Four week lead from receiving lab report
- Applied as batch treatment (up to 4/yr)
- Only Tanks and Pump Required
- Low Volume Supplemental
- Applicable to temperatures of up to 121°C
- No Disposal or Aquatic Issues
- **Environmentally** friendly
- Can Reduce H<sub>2</sub>S Significantly



### Best EOR Technology

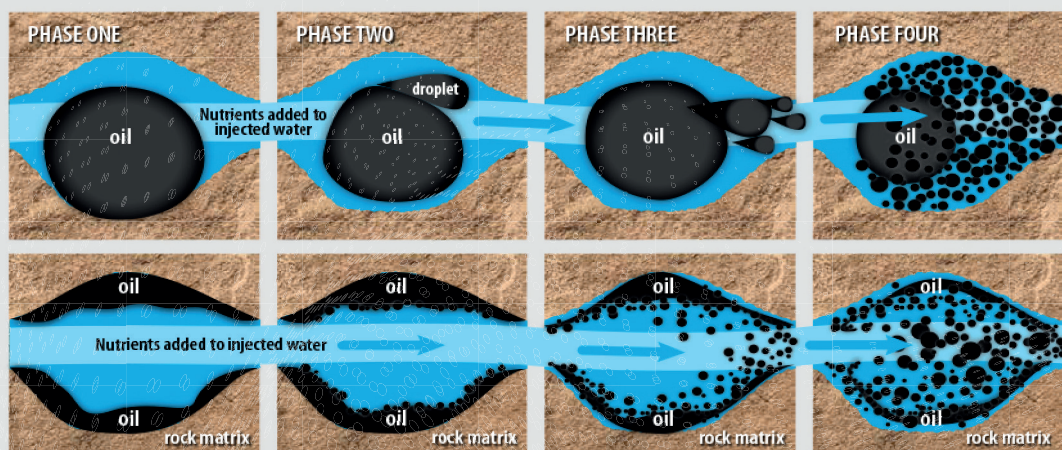
- AquaCUT™ Relative Permeability Modifier - Baker Hughes
- Emulsion Viscosity Reducer (EVR) Technology - ChampionX
- Organic Oil Recovery - Hunting PLC
- Zero-Flaming Invention to boost production from Low-Pressure Oil Wells and Revival of Dead Wells - Saudi Aramco
- Excelceor™ technology - ChampionX



## Technology Breakthrough: 61 Oil Fields, 300+ Well Applications, 94% Success Rate

The creation of micro-oil droplets is designed to recover trapped and immobile oil. This technology is an entirely new direction in the field of microbial enhanced oil recovery (MEOR).

Micro-oil droplets created by Titan's Organic Oil Recovery® Technology are the answer to releasing trapped oil from the rock pores. The breakthrough is using microbial energy within the pore spaces.



- Injection of nutrients
- Targeted microbes respond
- Microbes move away from water and rock surfaces
- Microbes surround, attach to and dislodge oil
- Trapped oil becomes micro-oil droplets
- Oil now flows more easily through rock pores

## Global Results: Treatment Summary

Type	Number of Treatments	Number of Wells	Number of Increases	Success Rate	Oil Increase
In-Situ Producer Test	49	47	36	73%	140%
Producers	19	18	17	89%	133%
Injectors	238	81	234	98%	54%
<b>Total</b>	<b>306</b>	<b>146</b>	<b>287</b>	<b>94%</b>	<b>92%</b>

**IMPORTANT NOTE:** Production increases have lasted between 30 days and 3 years from a single application.



## ROFS & NUOER IOR/EOR Solutions

### Chemical Manufacturing

**Drilling Chemical** Covers PHPA, Fluid loss controller, Clay/shale inhibitor, Encapsulation agent

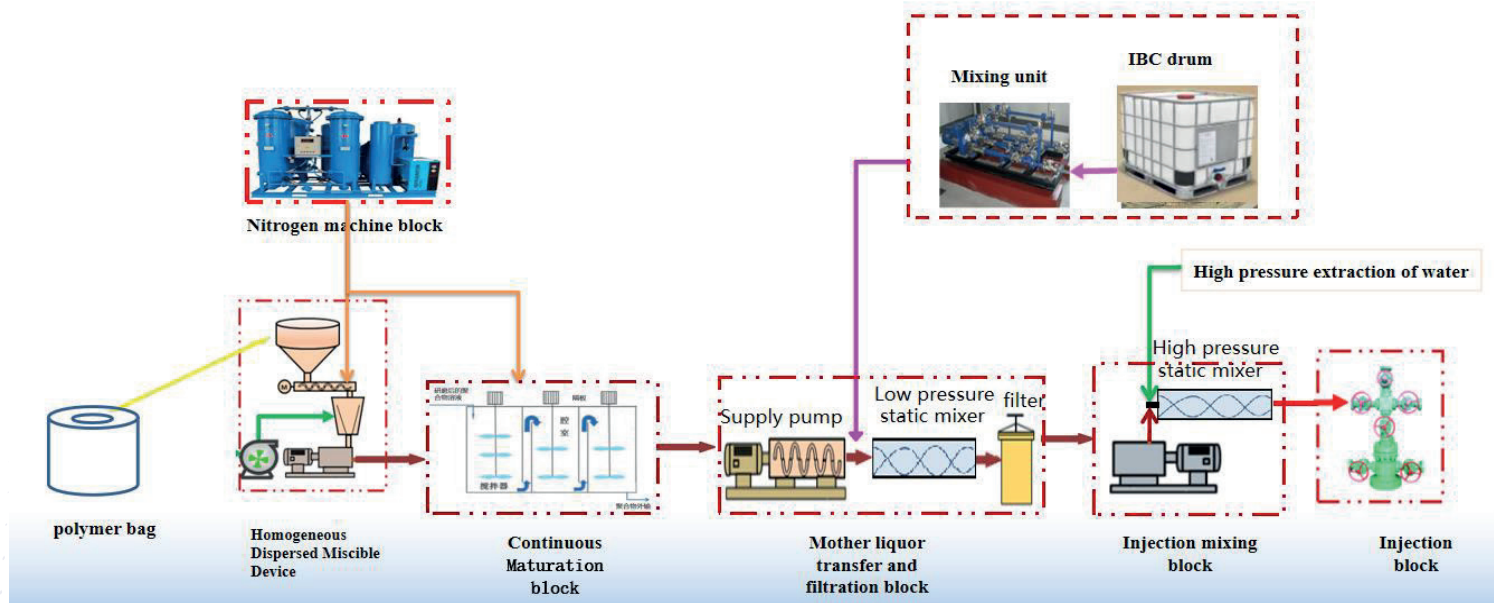
**Fracturing Chemicals** Covers all type of HVFR, Discharge aid, Anti-swelling agent, Crosslinker, Breaker, Acid diverting agent.

**EOR Chemicals** Covers Flooding Polymer, Surfactant, Nanosphere, Crosslinker, Plugging agent for water shut-off.

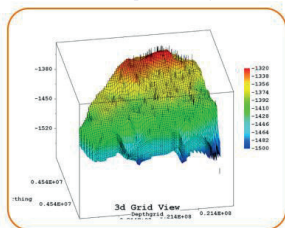
**Waste Water** Covers Treatment Chemicals like all kinds of Flocculant and Coagulant for ETP and STP

### Profile Control and water shut-off Solution

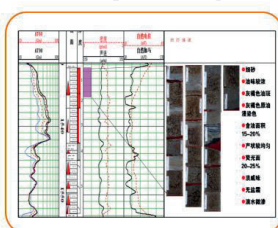
Through detailed geological research on the reservoir, NUOER select high-efficiency profile control agents and selective water plugging materials to effectively plug the high permeability layer, improve the injection-production correspondence, adjust the injection profile, control water channeling, and increase the utilization rate of the low permeability zone to achieve the purpose of increasing oil production and reducing water loss.



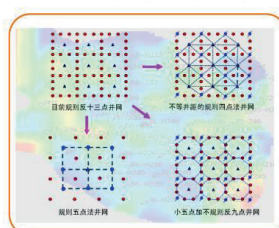
### Integrative Competence



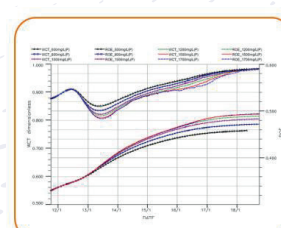
Reservoir Description



Residual Oil



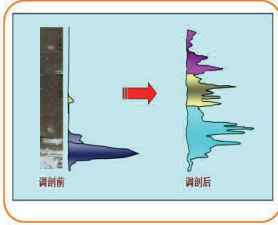
Well Pattern Design



Numerical Simulation of Injection Scheme



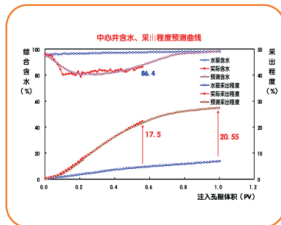
Lab Evaluation of chemicals



Deep Profile Control



Water Flooding Adjustment



Dynamic Tracking and Adjustment of Chemical flooding

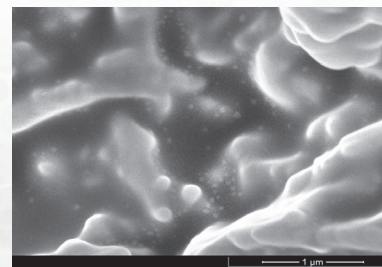
## ROFS Solutions – Production Enhancement

CHALLENGE	PRODUCT
Long Term Wettability Alteration	<b>NanoCLEAR®</b>
High Water Cuts	
Relative Permeability Modification	
Low Productivity Producing Wells	
Reduce Decline Rate After Acid Treatments	
Surfactant-alternative For New Fracs	
Reducing Screen-outs In Frac	<b>MicroHOLD®</b>
Improve Cluster Efficiency	
Frac Entry Restrictions Reduction	
Fracture Tortuosity Reduction	
Proppant Flowback Control	<b>SandBOND™</b>
Unconsolidated Sand Control	
Frac Hit Mitigation	<b>NoHIT®</b>
Paraffin/Asphaltene Removal And Inhibition	<b>CeraFLO™</b>
Foamer For NT/CO <sub>2</sub> (Un/Conventional EOR)	<b>FOAMER</b>
Foaming For Liquid Unloading	
Foaming For Fracking	
Foaming For Drilling	
Foaming For Diversion	
Inorganic Scale Breaking	<b>Scale Breaker</b>
Breaking Gel/ Polymers	

NanoClear® is a patent-pending portfolio of high performance, materials-based solutions tailored for specific treatments designed for oil well and reservoir stimulation.

### How Does NanoClear® Work?

NanoClear® CEC is a water-based nanofluid which alters the wettability of the formation to increase oil production. NanoClear® CEC contains nanoparticles which are 10-30 nm in size and are able to penetrate natural and induced fractures where traditional proppants do not reach. Shown here under Scanning Electron Microscope are NanoClear® CEC's nanoparticles coating the inside of a core which reflects the nanoparticles' capability to alter wettability.



SEM image of NanoClear® CEC nanoparticles coating the inside of a core



**SandBOND™**

**Proprietary In-Situ Sand Consolidation  
CHEMICAL TECHNOLOGY**

SandBond™ produces an *in-situ* metallic bonding oxidation reaction promoting grain-to-grain sand bonding in the near-wellbore zone.

### Key Features:

- ✖ Works as low as 60°F up to 1,220°F
- ✖ Does not require high confining stress
- ✖ 100% polymer and resin free
- ✖ Superior regained conductivity and permeability
- ✖ Effective on a wide range of fines (proppant, formation fines, high clay content formations, others)
- ✖ Does not need a pre-flush (can work on oil-saturated fines)

### Applications:

- ✖ Frac sand flowback control
- ✖ Unconsolidated sand formation (including heavy-oil reservoirs)



### OILFIELD CHEMICALS

The oilfield chemical products of Deshi Group mainly include:



Reservoir  
modification chemicals



Wellbore and  
pipeline chemicals



Enhanced Oil  
Recovery Chemicals



Oil and water  
treatment chemicals

- ❖ With 20 years of industry leading experience and high-standard product technology system, Deshi provides customers with high-quality oilfield EOR services, and serves the world in the field of oil stimulation and enhanced oil recovery.
- ❖ Complete solutions for EOR and related technologies, product R&D and production. Over 200 sets of scientific research equipment.
- ❖ Annual R&D investment is %6 of sales revenue.
- ❖ Products are comparable to top international chemical suppliers.
- ❖ Exports to more than 20 countries.
- ❖ Production center includes 21 sets of polymerization equipment.





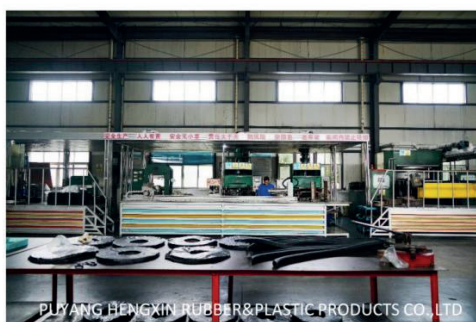
Machining Design workshop



Production Workshop



Quality control and Packaging workshop



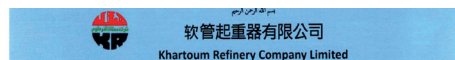
## Collaboration International Partners & Clients





**Sponsorship**  
Unlock the opportunity to connect with the region's top emerging talent by sponsoring the SPE ADPEC University Programme. Gain exclusive access and visibility to the brightest minds poised to join the industry. For more information, reach out to jolene.hoffmann@spe.org.

**Contact Us**  
If you have any questions or require further information, please feel free to contact us directly by emailing jolene.hoffmann@spe.org, Regional Activities Specialist.



التاريخ: 23 يونيو 2025  
ال: مجموعة رويل تك

الموضوع: إخطار بطلان طلبكم لتسجيل كمشتريين و مستخدمين و موزعين سلعة للعام 2025  
بالإشارة إلى الموضوع أعلاه و لطيفكم المتعلق بطلبات التسجيل للعام 2025 و بعد دراسة طلبكم على نحو واف يسرنا ان نبلغ لكم بوقتنا الملموم و اعتباركم ضمن القائمة الموزعة للعام 2025 و ذلك في المجالات الآتية:

الرقم	الطلب	التفاصيل
1	توريد و تركيب معدات و اجهزة معالجة النفط	
2	توريد و تركيب معدات معالجة مياه الصرف الصحي	
3	الكشف عن لظنة الانابيب تحت الارض و استبدالها	
4	توريد المواد الكيميائية المستخدمة في معالجة البترول و المياه	
5	توريد المواد الكيميائية و المعدات المستخدمة في المعامل الطبية و التوزيعية	
6	توريد معدات الفحص و مواد التحام	
7	ادارة القفايات و معالجة مياه الصرف الصحي	

مع فائق الشكر و التقدير

مهندس/ كمال الدين ابراهيم  
مدير ادارة المشروعات

**Kuwait Petroleum Corporation | مؤسسة البترول الكويتية**  
and subsidiaries وشركاتها



Address: Aljaili - Khartoum North - Sudan - P.O. Box 15125 Buri, Khartoum

Tel: +249 1855400000 Fax: +249 1855400000 Email: krr@rtk.sd





## Royal Tech Oil and Gas Fields Services LLC

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Email: [info@royal-techgroup.com](mailto:info@royal-techgroup.com) | [royaltechgt@gmail.com](mailto:royaltechgt@gmail.com)

website: [www.royal-techgroup.com](http://www.royal-techgroup.com)



*Innovative Solutions for Sustainable Future*

