

Integrated Oilfield Services

KERUI PETROLEUM TECHNOLOGY



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COMPLETION ENGINEERING

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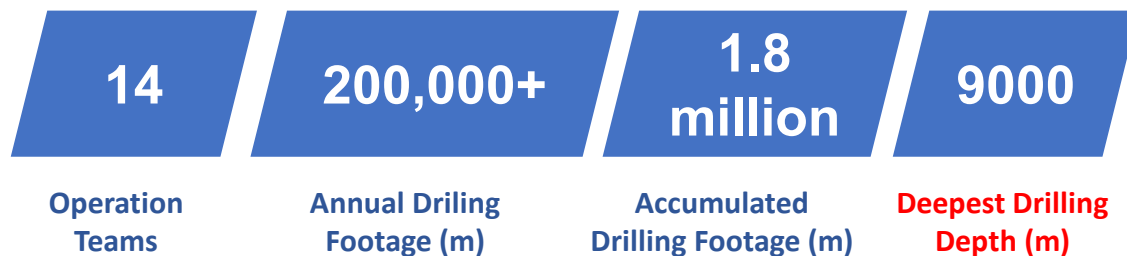
INTEGRATED SERVICE FOR CT

04

INTEGRATED SERVICE FOR WELLBORE
INTERVENTION



■ Capability



◆ 14 Drilling Rigs (1000Hp-2000Hp)

Equipment Name	Horsepower	Location	Quantity
70D Drill Rig	2000HP	Iraq	2 set
50DB Drill Rig	1500HP	Ethiopia, Niger	3 Sets
50L Drill Rig	1500HP	Yan'an	2 Sets
40 Drilling Rig	1000HP	Shanxi	2 Sets
40 Drilling Rig	1000HP	Shandong	2 Sets
50 Drill Rig	1500HP	Xinjiang	2 Sets
Directional Drilling Rig	1500HP	Qinghai	1 set

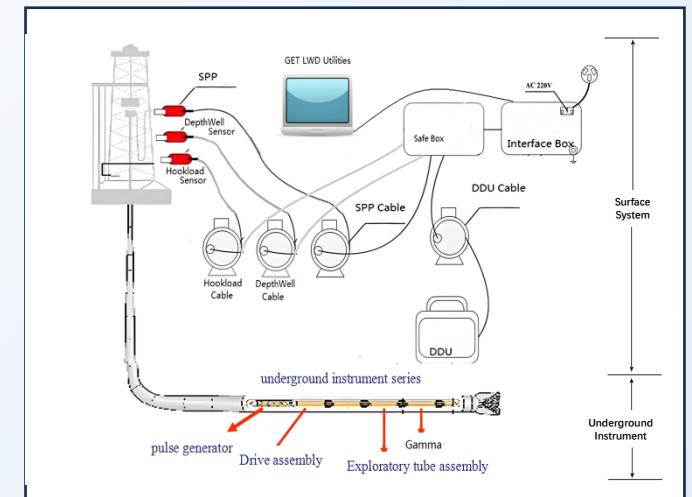
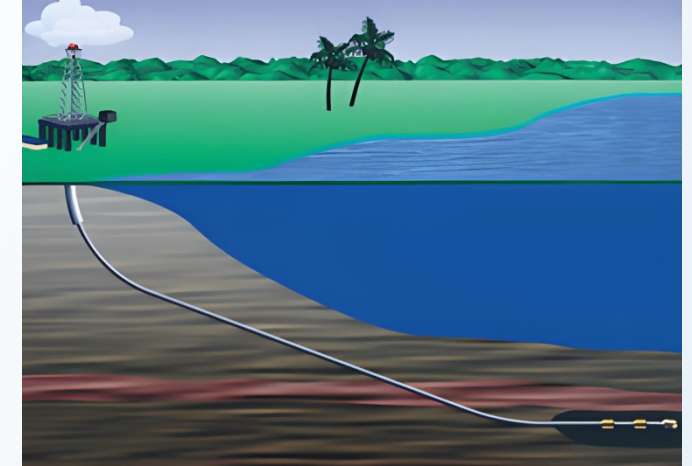
■ Extended Reach Directional Well/ Horizontal Well Drilling Technology

➤ Technical Introduction

Through directional control, the wellbore trajectory is guided along the designed path to achieve drilling technology for large horizontal displacements or horizontal well sections.

➤ Technical Features

- Horizontal displacement exceeds 3,000 m, with a horizontal section length of 2,000 m;
 - Accurate control of wellbore trajectory in complex formations;
 - Drilling fluid system with strong anti-collapse, lubricating and sand-carrying capacity;
 - High-power top drive, high-strength drilling string, equipped with torque-reducing drilling collars;
 - Directional and horizontal section drilling using a rotary steerable system achieves 0.5–1 m penetration of the reservoir.
-
- ### ➤ Application Scenario
- Factory-style operations reduce the number of platforms, and lower the development cost;
 - In the tidal flats and swamp areas, minimizes surface construction footprint;
 - Development of fractured and fault-block reservoirs;
 - Enhancing production potential in mature oilfields, extracting remaining hydrocarbons, and expanding effective recovery area.



Extended Reach Directional Well/ Horizontal Well Trajectory Control System

■ Optimal and Rapid Drilling Technology for Tight Oil and Gas Reservoirs

➤ Technical Introduction

Drilling technologies utilizing complex well types (e. g., horizontal and multilateral wells) for developing low-permeability, low-porosity reservoirs.

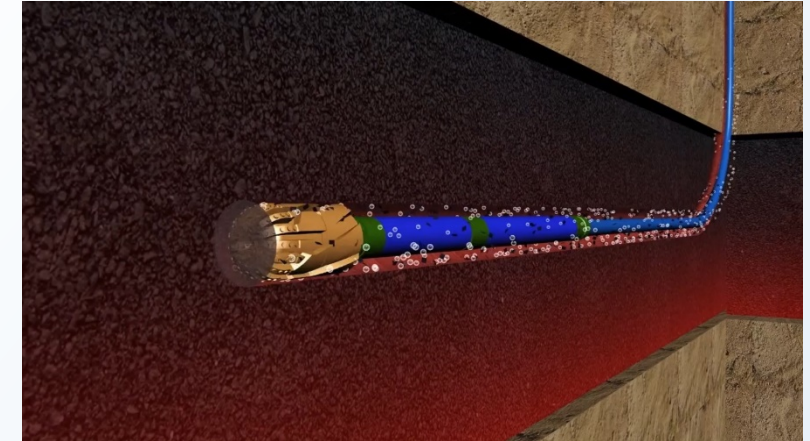
➤ Technical Features

Optimal High-Efficiency Bottom Hole Assembly (BHA)

5 blades with 16mm spiral non-standard teeth	High abrasion resistance and high aggressiveness
+	
Medium-speed high-torque screw	Improve drilling efficiency in hard formation
+	
Hydraulic oscillator	Increase WOB transmission efficiency by 50%+
+	
Software System Parameter Collection and Adjustment	Optimization of drilling parameters

➤ Application Scenario

Enhance the economic viability of tight oil/gas development by increasing ROP, reducing NPT, and improving reservoir contact rate, particularly applicable to large-scale industrial exploitation (e. g., Permian Basin, U. S., Ordos Tight Gas Field, China).



Northern Shaanxi Tight Oil Drilling Platform

■ Supporting Drilling Technology for High Temperature Geothermal Wells

➤ Technical Introduction

Engineering technology for constructing a stable wellbore in ultra-high-temperature formations ($>200^{\circ}\text{C}$) by using high-temperature-resistant drilling materials, precision cooling systems, and directional drilling techniques.

➤ Technical Features

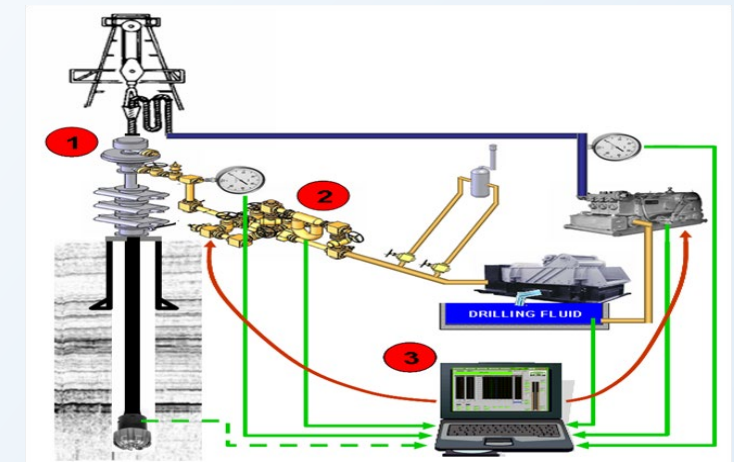
- Ultra-high temperature drilling fluid system (temperature resistance $180\text{--}260^{\circ}\text{C}$);
- Optimized selection and configuration of drilling tools for high temperature hot dry rock formations, e. g., high temperature screw drills and PDC bits;
- High-temperature measurement and control while drilling technology (high-temperature instruments with a temperature resistance of 175°C);
- Ultra-high temperature air foam controlled-pressure drilling technology
- High temperature cement slurry system.

➤ Application Scenario

- High-temperature geothermal well drilling and completion;
- Drilling and completion of high-temperature hot dry rock well;
- Geothermal power generation project;
- Geothermal Resource Exploration and Research



High-Temperature Measurement and Control Instrument While Drilling



Ground Circulating Cooling Device

■ Shallow Horizontal Well Drilling Technology

➤ Technical Introduction

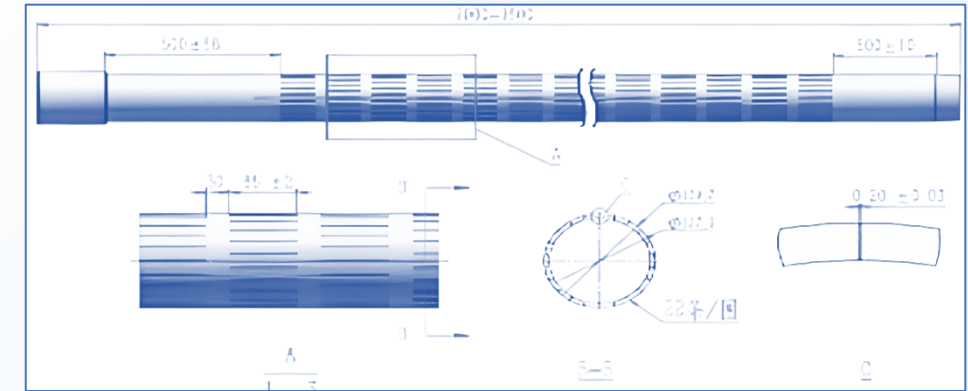
Applied for developing oil& gas reservoirs, coalbed methane, and brine deposits with a vertical burial depth of 50–500 meters. Using trenchless directional crossing drill rigs combined with while-drilling directional steering technology to create horizontal boreholes in reservoirs and establish production channels.

➤ Technical Features

- Shallow burial, long horizontal sections, horizontal-to-vertical ratio of 10: 1;
- Utilization of directional crossing drill rigs;
- Application of geomagnetic target wireless steering technology while drilling in the horizontal section
- High-efficiency PDC bits are preferred.

➤ Application Scenario

- Development of shallow brine deposits;
- Development of shallow heavy oil reservoirs;
- Using horizontal wells in shallow coal mine roofs to mitigate rock bursts.



Plasma Slotted Screen Completion



Directional Crossing Drill Rig

■ Special Formations Drilling Fluid Technology

➤ Technical Introduction

Aiming at various complex formations, a variety of drilling fluid systems are applied to solve issues such as blowout, lost circulation, wellbore collapse, stuck pipe, slow drilling rate, and high-temperature/high-pressure conditions and ensure downhole safety.

➤ Drilling Fluid System

- Comprehensive Management Technology for Severe Lost Circulation
- Ultra-high temperature drilling fluid system;
- Brine-Based drilling fluid system;
- Anti-Collapse drilling fluid technology for water-sensitive mud shale formation
- Coal bed methane Rapid drilling fluid technology.

➤ Technical Advantages

- Improve drilling rate and ensure downhole safety;
- Minimizing downhole complications with a focus on prevention;
- Boost single-well production and optimize drilling fluid systems;
- Complex geological structures and narrow density windows;
- Abnormal high-temperature and high-pressure formations.



Brine-Based Drilling Fluid System

Density g/cm ³	Apparent viscosity (Av) mPa. s	Turbidity NTU	PH	TCT °C	Temperature Resistance: °C	Corrosion rate* mm/a
1.40	2.00	1.70	7.80	-15.00	177.00	0.03
1.50	4.75	2.10	7.50	-15.00	177.00	0.03
1.60	10.75	2.50	7.00	-15.00	177.00	0.03
1.70	14.75	24.00	4.30	-15.00	177.00	0.00
1.80	20.75	1.80	4.00	-15.00	177.00	0.00
1.85	27.00	16.00	5.72	-15.00	177.00	0.04
1.90	60.00	50.00	2.50	-10.00	177.00	0.26
1.95	78.00	26.00	2.50	-10.00	177.00	0.29
2.00	124.00	200.00	3.00	-10.00	177.00	0.80
2.10	67.50	70.00	2.90	-10.00	177.00	0.68
2.20	166.00	200.00	2.20	-10.00	177.00	3.76

■ Case Study I

Integrated Drilling Services for Natural Gas Exploration Wells in Indonesia

(2011-2016)

Location

Indonesia-West Papua

Service Scope

Drilling, mud, cementing, directional drilling, mud
logging, completion

Equipment

1x3000HP drilling rig, 1x2000HP drilling rig, 2x750HP drilling
rigs

- Seven wells were drilled, with the deepest reaching 5,386 meters, setting the onshore drilling depth record in Indonesia.
- Personnel were fully mobilized within 30 days and 9,700 km of equipment transportation was completed in 90 days, demonstrating highly efficient project management and equipment mobilization capabilities.



■ Case Study II

Turnkey Drilling Project for an Oil Field in Northwestern China

(2014-present)

Location

An Oil Field in Northwest China

Service Scope

Drilling, mud, cementing, directional drilling, completion

Equipment

4x1500HP drilling rigs, 1x1000HP drilling rig

- By 2024, a total of 81 wells had been completed, including 17 horizontal wells with an average depth of 3,300 meters;
- In 2019, a well was drilled to a record depth of 5,010 meters.
- The longest horizontal section reached 2,015 meters.



■ Case Study III

Turnkey Drilling Project for Air Compression Energy Storage Wells

(2024-present)

Location

East China

Service Scope

Drilling, mud, cementing, directional drilling, logging, completion, wireline logging, well testing

Equipment

2 x1000HP drilling rigs, 1 snubbing unit

- For the National 300MW Air Compression Energy Storage Demonstration Project, Kerui Petroleum Technology is the only private enterprise contractor;
- The accumulated drilling footage exceeds 4000m, and the underbalanced drilling footage exceeds 100m.



■ Case Study IV

Integrated Drilling and Completion Project for High-Temperature Geothermal Wells in Ethiopia

(2019-present)

Location

Ethiopia

Service Scope

High-temperature hot dry rock drilling, foam-aerated mud, high-temperature cementing, high-temperature measurement-while-drilling (MWD), geological logging, etc.

Equipment

2 x 50DB drill rigs

- The largest national-level strategic geothermal project in Ethiopia, led by Ethiopian Electric Power Company;
- To date, 10 wells have been successfully completed, creating the shortest construction period record of Ethiopia geothermal well project and the optimal record of measurement while drilling trajectory control.



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INTERVENTION





Service Capability

- “Turnkey” general contracting services for reservoir stimulation
 - Total equipment capacity exceeds 250,000 HHP
 - Various equipments more than 200 units
 - Conventional oil and gas, coalbed methane, shale oil/gas, tight oil/gas
 - China, Middle East, South America and Central Asia.
-
- Annually complete **100+ wells**
 - **20m³/min** pumping rate under **120MPa** pump pressure
 - **3000+** stages in total
 - **1.5 million m³** fluid and **200 thousand tons** proppant injected
 - **10** experienced technical service crews

■ Optimization of Geological Engineering Integration Solutions

➤ Technical Introduction

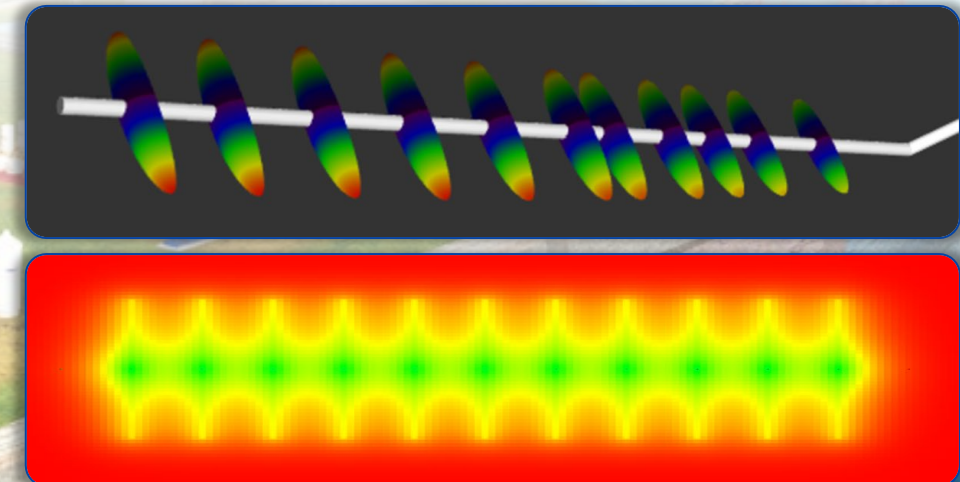
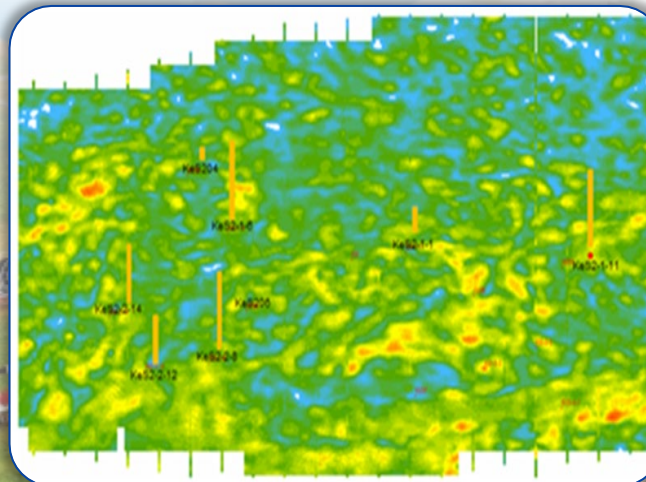
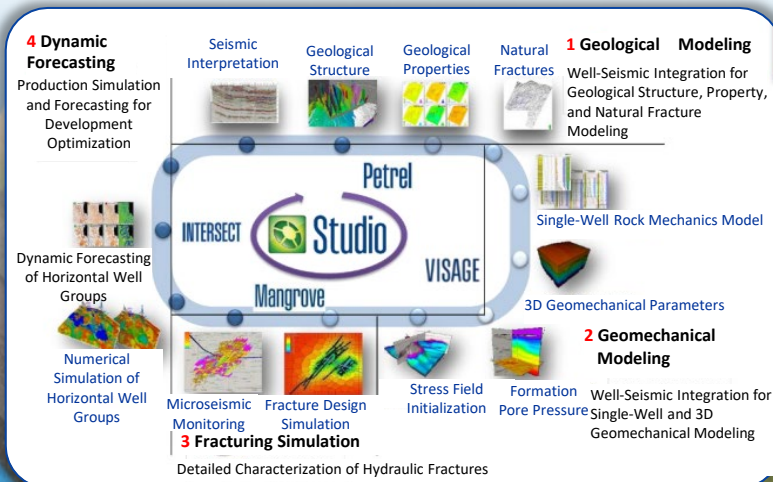
Based on multi-platform simulation software, indoor physical modeling experiments, and block development big data, we optimize the design with the goal of maximizing single-well production.

➤ Technical Features

- Achieve optimal design for the solution.
- Maximize single-well production
- Reduce development costs and risks.

➤ Application Scenario:

- Geological/Engineering Sweet Spot Identification and Fracability Evaluation
- Optimization of stage length/cluster spacing/perforation parameters (e. g., Limited-Entry Fracturing)
- Inter-well/inter-fracture interference simulation and optimization of fracturing scale.
- Post-Fracturing Comprehensive Evaluation



■ High-efficiency Staged Stimulation Technology for Horizontal Wells

Offer various staged stimulation technologies for horizontal wells, capable of providing **customized** high-efficiency stimulation solutions based on **field conditions and customer requirements**.

➤ Plug-and-Perf Stimulation System with Dissolvable Bridge Plugs 01

High zonal isolation reliability, no limit on the number of stimulation stages, and compatibility with high-rate, large-scale stimulation

➤ Open Hole/Casing Packer+ Sliding Sleeve Staged Stimulation Technology 02

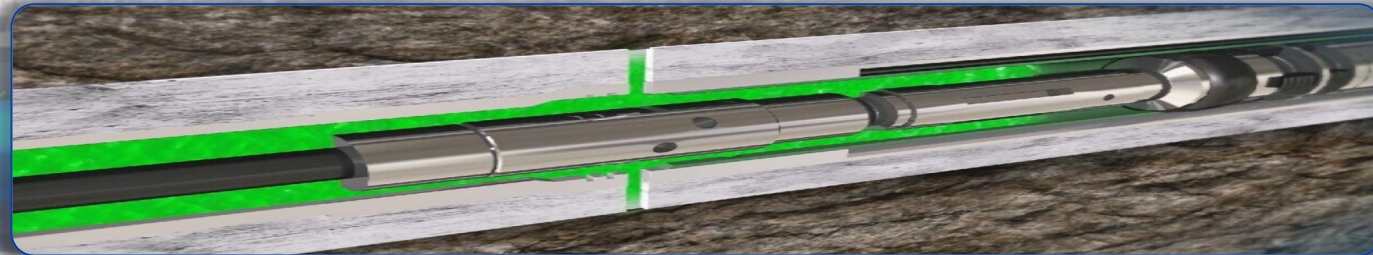
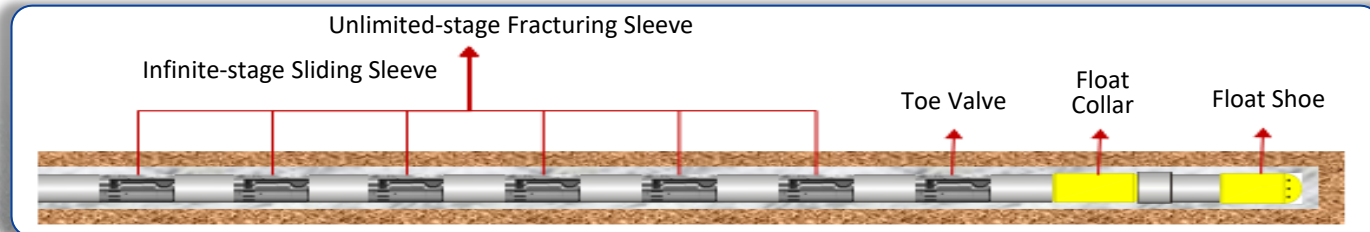
Enables multi-stage stimulation, rapid layer shifting, and reduced operation time.

➤ Full-Bore Infinite-Stage Sliding Sleeve Staged Stimulation Technology 03

Simple installation, fully identical sliding sleeves, simple internal structure, and erosion-resistant design.

➤ CT-Conveyed Staged Stimulation Technology 04

Enables multiple setting/unsetting, single-stage multi-cluster fracturing, and directional perforation



■ Customized Chemical Solutions for Reservoir Stimulation

Laboratory Ability

- Establish joint laboratory with leading universities in China to provide customers with optimal products according to reservoir conditions.

Laboratory Photographs



Core Displacement Apparatus



Rock Oil Saturation Analysis



Fracturing Fluid Friction Tester



Fracturing Fluid/Acid Fluid Rheometer

Chemical Customization Services

- **Tailored chemical solutions** for each operation, providing customized services for diverse reservoir conditions.

Customized Chemical Products



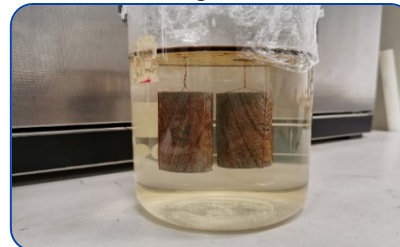
Temporary Plugging Agent



Low Damage Guar Gel Fracturing Fluid



Foam Fracturing Fluid



Nano Sorption Oil Displacement Agent



Oilfield Wastewater Reuse

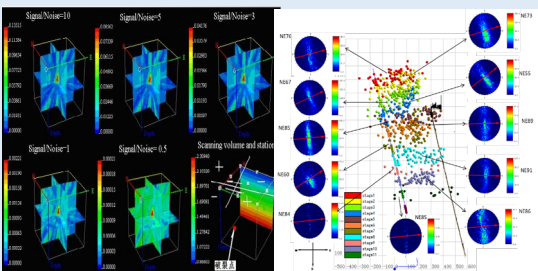


Acid System

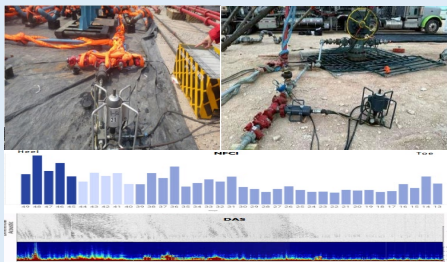
■ Comprehensive Hydraulic Fracture Diagnosis

Offers a variety of comprehensive hydraulic fracture diagnosis techniques, including microseismic monitoring, distributed optical fiber, and more, enabling real-time, precise analysis of hydraulic fractures and supporting scientific decision-making.

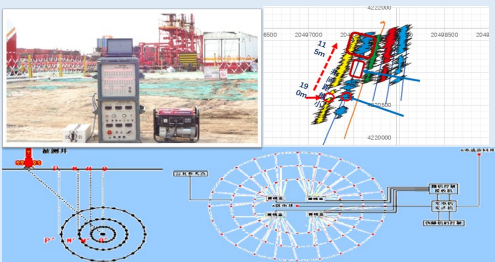
Surface/Downhole Microseismic



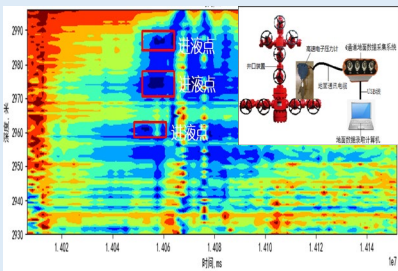
Remote Sonar Detection



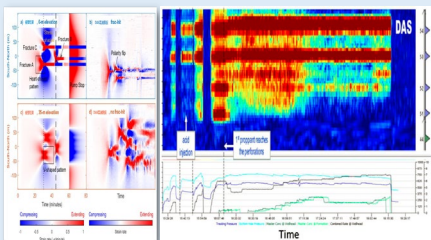
Wide Area Electromagnetic Method



Pressure Field Remote Sensing



Distributed Fiber Optics



Surface/Downhole
Microseismic
Fracture Diagnostics

Sonar Remote
Sensing for Hydraulic
Fracture Diagnosis

Wide-Area
Electromagnetic
Fracture Diagnosis
Technology

Pressure Field
Remote Sensing
Fracture Diagnosis
Technology

Distributed Fiber
Optic Fracture
Diagnosis
Technology

Five Key Fracture Diagnosis Techniques

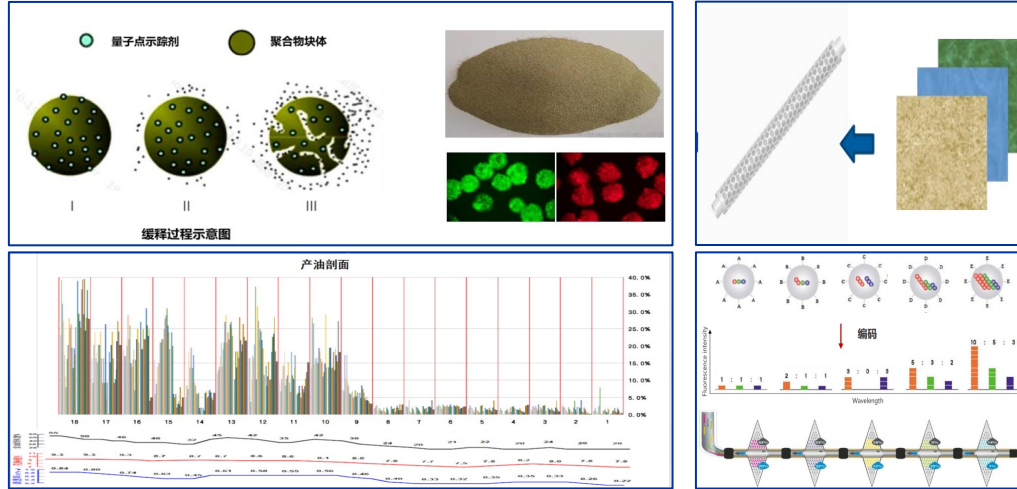
■ Flowback Management

Enables fast flowback, clean separation, and zero emissions — boosting efficiency by over 30%.

- Smart control – Real-time flowback monitoring reduces formation damage.
- High separation – 95%+ resource recovery with efficient three-phase separation.
- Eco-friendly – 90% fluid reuse, near-zero emissions.
- Proven – Used in 80+ wells and 500+ stages across multiple reservoir types.



■ Post-fracturing Production Profile Monitoring

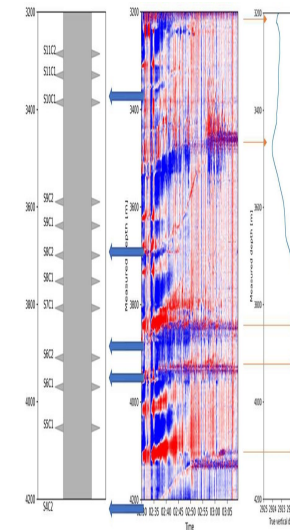


➤ Quantum Tracer Production Profile Testing Technology

- **Technical Introduction:** Quantum tracers are injected into different fracturing monitoring stages to measure their **concentration** in target formations, enabling the determination of **fluid and gas production profiles** for each interval.
- **Technical Characteristics:** low risk, long-term detection, and significant advantages **in technology and cost**.
- **Application Scenario:** **long-term monitoring** of production profiles of various types of oil and gas reservoirs.

➤ Optical Fiber Logging Technology

- **Technical Introduction:** Fiber optic sensors are deployed to target formations via coiled tubing (CT) to enable real-time monitoring of downhole temperature, pressure, and other parameters, facilitating continuous distributed measurement for **dynamic and profile monitoring of oil and gas wells**.
- **Technical Characteristics:** Strong pushing capability, excellent optical cable protection, and **suitability for diverse well conditions**
- **Application Scenario:** Accurately assess fracture initiation, fluid entry, fracture propagation, and the effectiveness of temporary plugging and diversion fracturing



DTS+DAS Optical Fiber Monitoring Equipment



2-inch CT with Fiber Optic Cable and Drum



■ Case Study

Multi-stage Hydraulic Fracturing for Horizontal Wells in Middle East Carbonate Formations

(2022-present)

Location

Middle East

Service Scope

Scheme design, fracturing fluid, proppant, staging tools, field construction, flowback after fracturing

- 20 wells have been completed in total with over 300 fracturing stages
- Set a 24-hour fracturing record with 9 stages
- Received written commendation letters from customers for three consecutive years



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INTERVENTION





Capability

- **12 sets** of CT units
 - **10** experienced service teams
 - Annual operation capacity: more than **1,000 wells**
-
- Maximum depth **8,000m**
 - Injection head with a maximum lifting capacity of **140,000 lbs**
 - Imported BOP rated to **15,000 psi**

■ CT Gas Lift Technology

➤ Technical Introduction

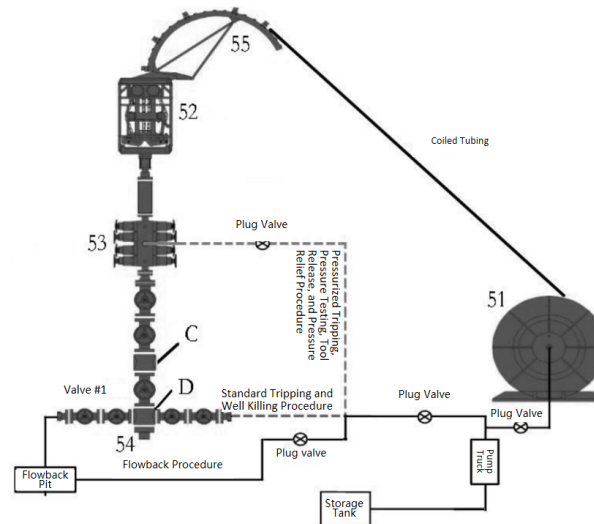
RIH CT below the wellbore static fluid level, and high-pressure gas is injected. As the gas continuously expands, the plunger travels upward, lifting fluids to the surface

➤ Technical Features

- Efficient liquid lifting and productivity restoration
- Avoid formation damage
- Flexible and cost-effective

➤ Application Scenario

- Deliquification strategies for low-pressure gas wells.
- Solution for High-Water-Cut Gas Wells
- Well workover assistance



■ Coiled Tubing Drilling and Milling Technology

➤ Technical Introduction

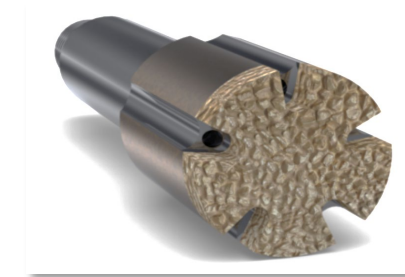
The coiled tubing carries drilling and milling tools. It uses pumped - in fluid to drive the motor to rotate, and conducts complex operations such as high - efficiency milling and drilling at blockages in the well, like bridge plugs, cement plugs, and ball seats. This is applied to solve problems such as wellbore plug, casing repair, and debris removal.

➤ Technical Features

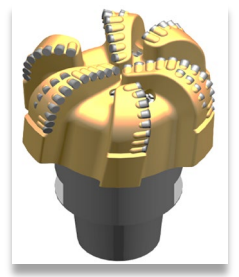
- High - efficiency and flexibility
- Safety and economic efficiency
- Suitable for complex well conditions

➤ Application Scenario

- Drilling and milling bridge plugs, cement plugs and ball seats
- Removing debris and sand deposits in the wellbore
- Workover of horizontal wells and complex structural wells



High-efficiency
flat-bottom milling shoe



PDC
bit



Bridge plug



Ball seat



■ Coiled Tubing Fishing Technology

➤ Technical Introduction

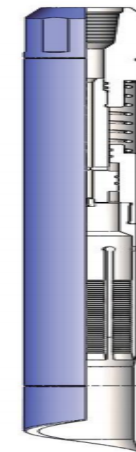
The fishing tools are conveyed to the downhole through coiled tubing, and the fish is grabbed and fished by mechanical or hydraulic means, then recovered to the surface, so as to restore the normal production of the well.

➤ Technical Features

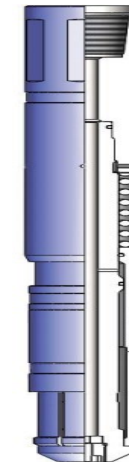
- High operational efficiency and strong flexibility
- No-kill well operation with low operational costs
- Precise data monitoring and control, ensuring high safety

➤ Application Scenario

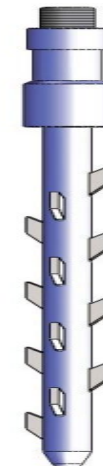
- Downhole tool fishing
- Coiled tubing and cable fishing
- Drilling tool fracture treatment
- Complex well condition rescue



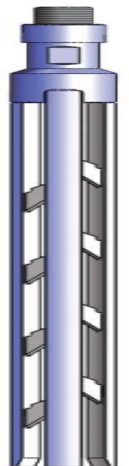
Hydraulic fishing jar



Hydraulic fishing spear



Wireline fishing spear



Wireline fishing jar

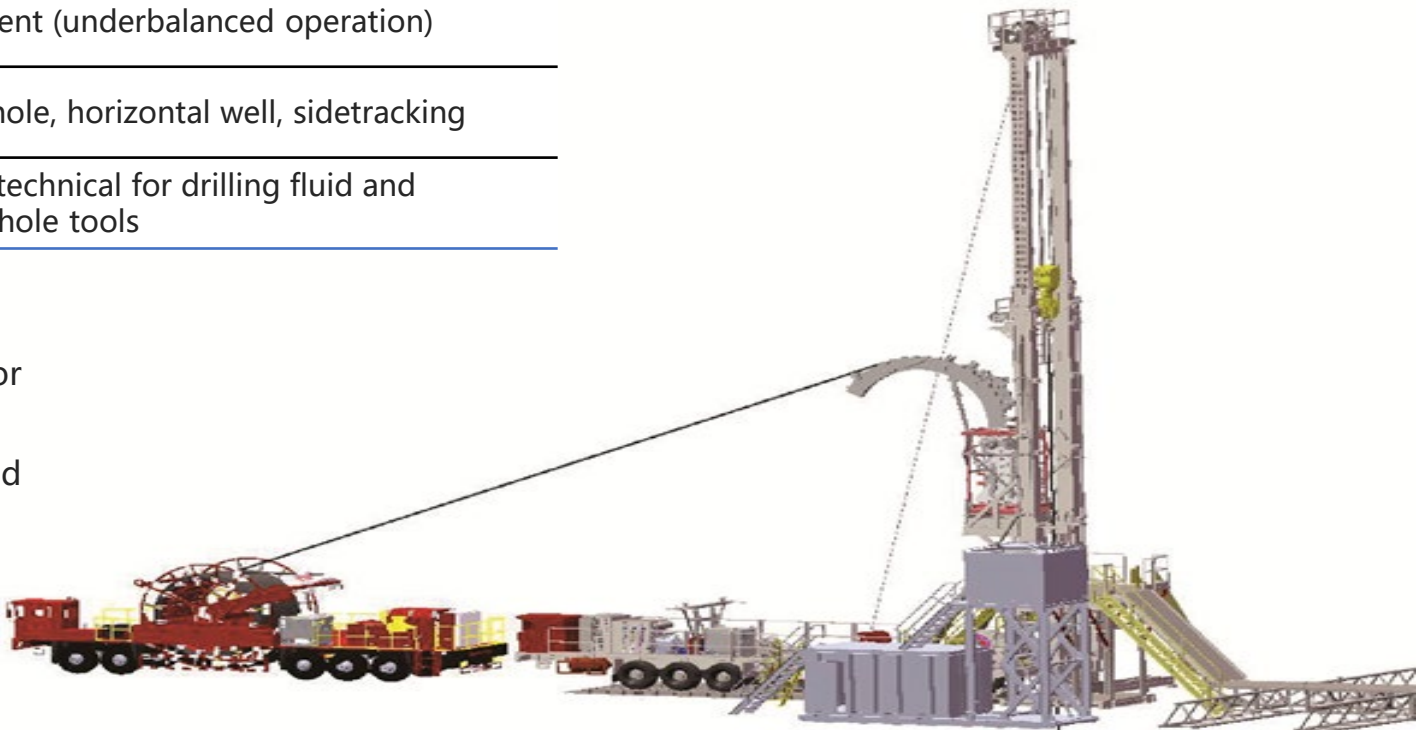
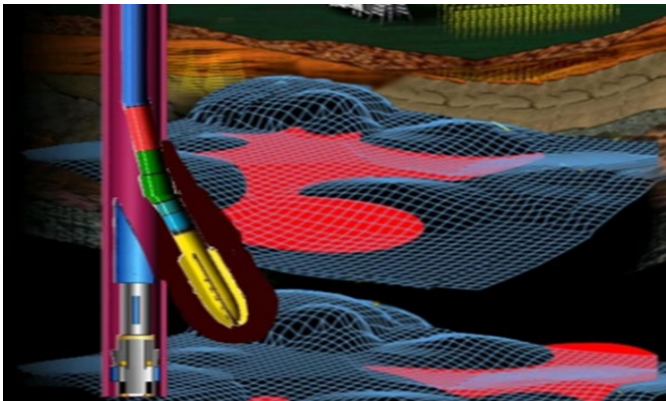
■ CT Sidetracking with Window Milling

➤ **Technical Introduction** Provide conventional or coiled tubing sidetracking based on field conditions and client requirement.

	Conventional Workover Rig Sidetrack	CT Sidetracking
Cost	High (more equipment, longer cycle)	Low (time-efficient, simplified equipment)
Reservoir Protection	Poor (Kill Fluid Required)	Excellent (underbalanced operation)
Well Type	Deep well, complex casing deformation well	Slim hole, horizontal well, sidetracking
Technical level	Traditional technology	High technical for drilling fluid and downhole tools

➤ **Application Scenario**

- Wellbore Restoration (Resolve casing deformation, damage, or downhole debris that lead to production shutdown.)
- Low-production well stimulation (side-track new hole for low-yield and high-water-cut well)
- Treatment of Incident Well and Complex Well
- Well pattern management



■ Double-Layer Coiled Tubing Negative Pressure Sand Washing Technology

➤ Technical Introduction

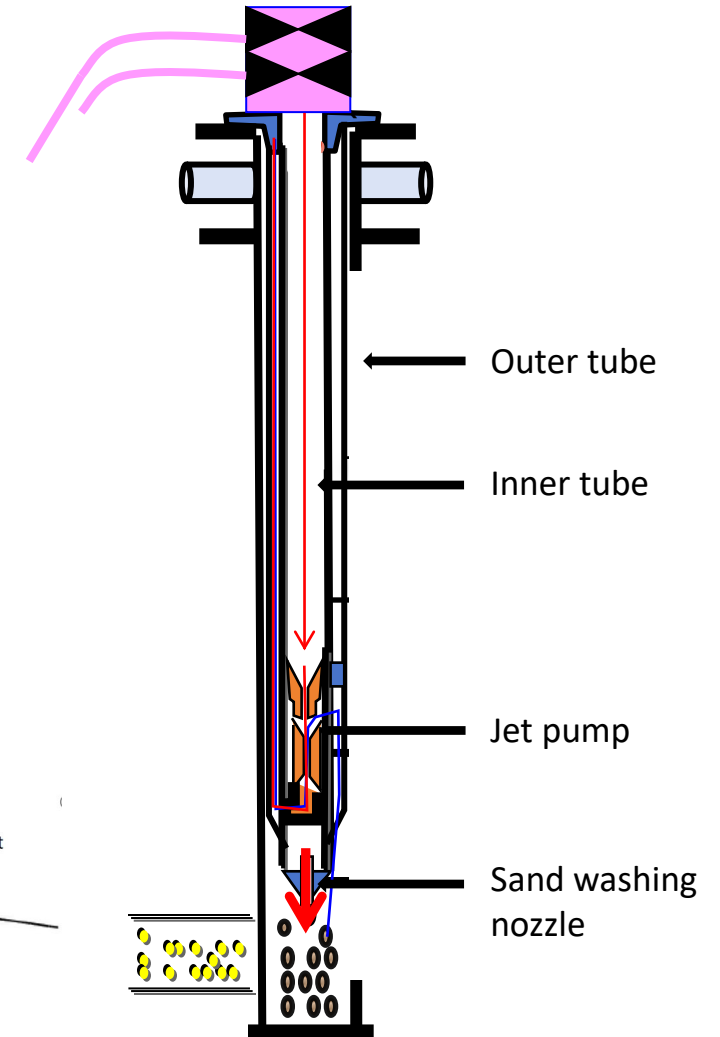
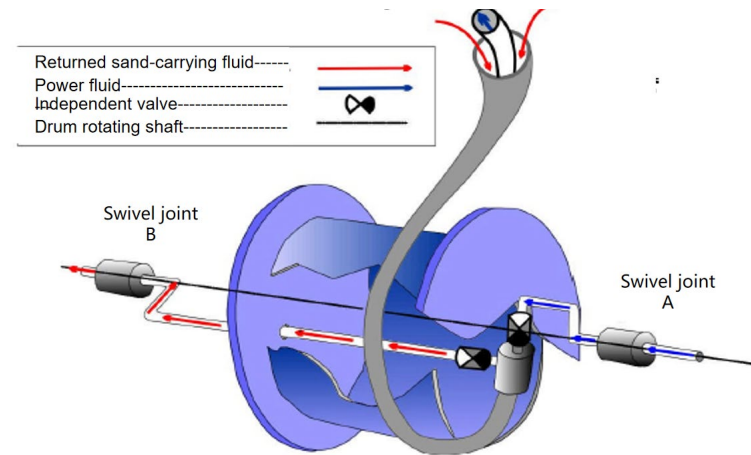
With the concentric coiled tubing structure as the core carrier, the sand-flushing fluid enters through the inner tube. By means of the negative pressure adsorption generated by the jet pump, efficient sand flushing is achieved. The sand-carrying fluid is discharged back to the surface through the annulus between the outer tubing and the inner tubing.

➤ Technical Features

- Double-layer structure with independent circulation channels
- Low fluid loss and low reservoir damage
- High sand flushing efficiency and low operation cost

➤ Application Scenario

- Low-pressure lost circulation wells
- Coalbed methane wells
- Water-sensitive reservoirs
- Horizontal wells / complex wells



■ Classic Cases

Integrated Solution for Coiled Tubing in an Oil and Gas Field in Eastern China

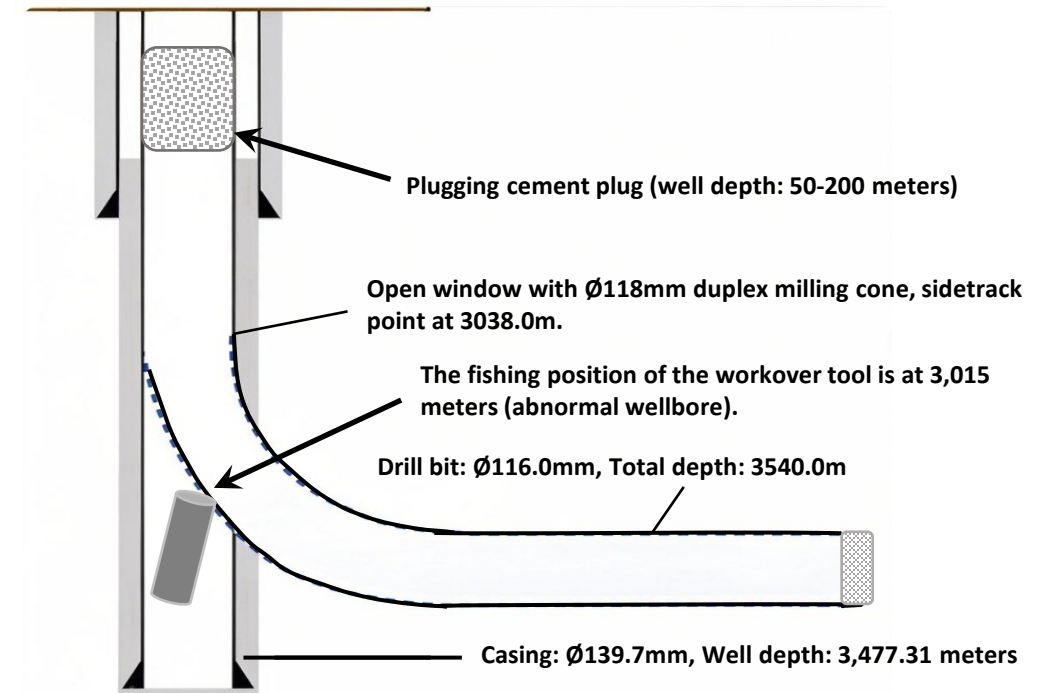
Location

An oilfield in eastern China

Service Scope

Drilling and milling, fishing, window cutting and sidetracking, auxiliary perforating, gas lift fluid discharging.

- The speed drilling and milling cement plug: **15m/h**
- The length of the fished - out fish reaches: **15m**
- The length of window cutting and sidetracking reaches **502m**
- Six-stage perforation under pressure, reactivated production through gas lift; recovery rate increased by over **40%**.



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Capability

29 workover rigs in operation

Annual workover capacity: **2,200** wells

13,500 cumulative well workover operations

118mm min. sidetracked hole

■ Casing Repair Technology

➤ Technical Introduction

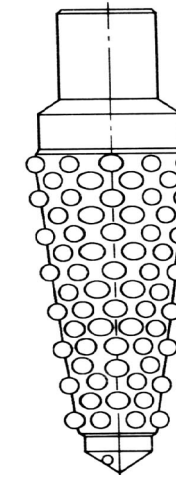
- Casing deformation repair or patching ensures the restoration of oil and gas production.

➤ Casing Repair Solutions

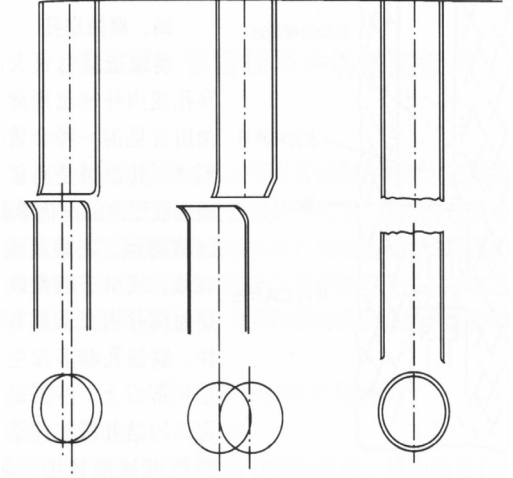
- **Casing Reshaping Technology:** mechanical reshaping/explosive reshaping
- **Casing Reinforcement Technology:** casing patch reinforcement/whole-string replacement/local section replacement
- **Repair Effectiveness Evaluation& Long-term Monitoring Technology:** repair effectiveness evaluation, long-term monitoring

➤ Application Scenario

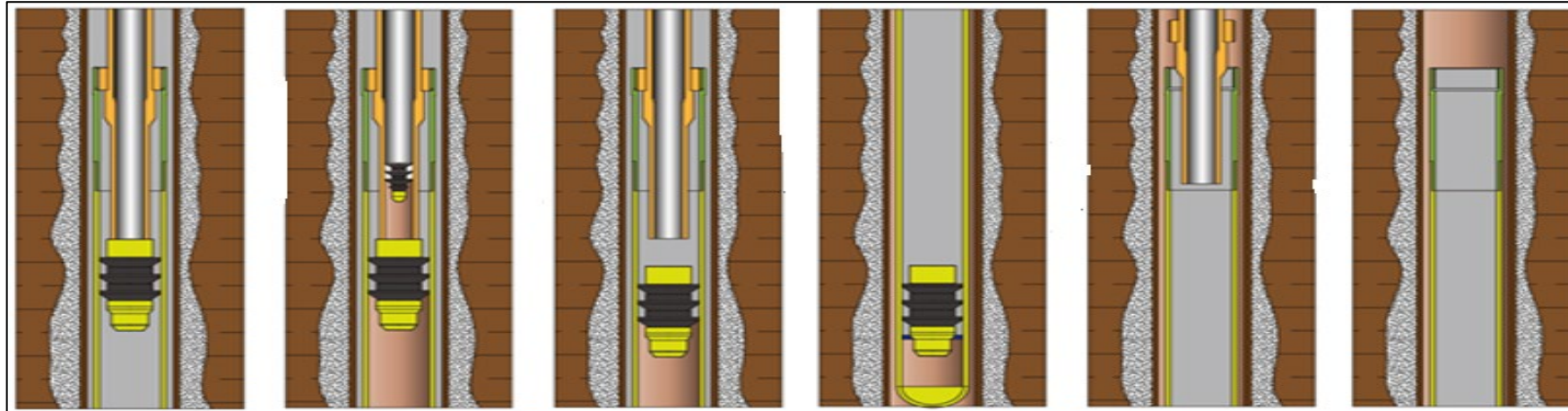
- Casing deformation
- Casing damage
- Casing offset& fracture
- Casing corrosion
- Casing leakage



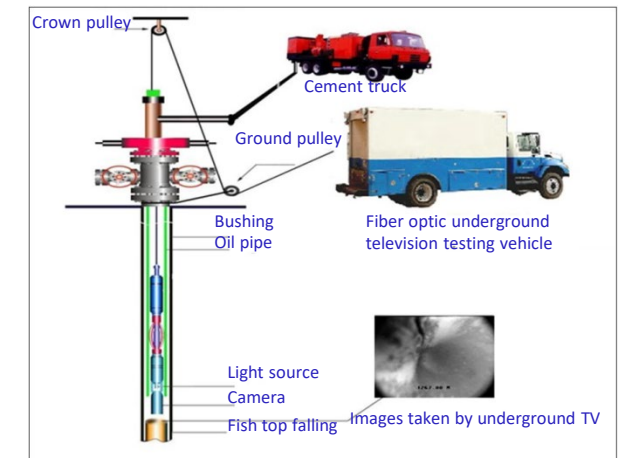
Ball-Type Reshaper Structure



Schematic Diagram of Casing Damage



Long-Interval Back-off Suspension Patching Technology



Casing Damage Inspection

■ Sand Control Technology

➤ Technical Introduction

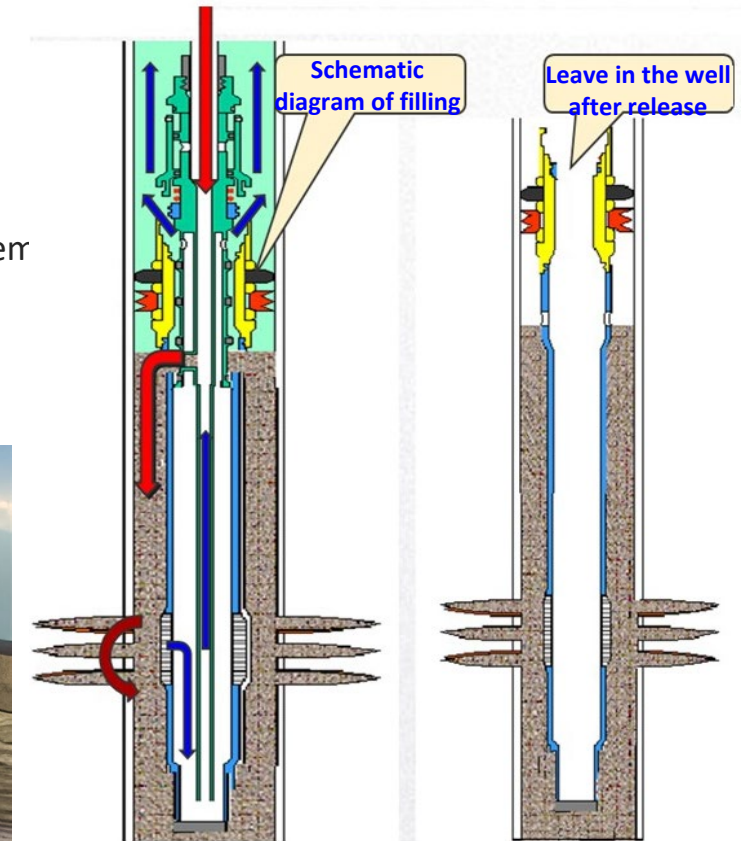
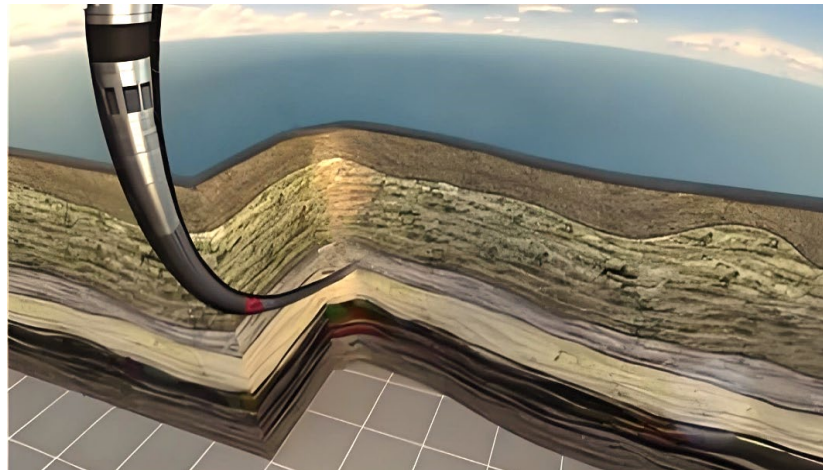
A process technology that addresses severe sand production issues by combining workover operations (e.g., pulling out original well strings, wellbore cleaning, casing repair) with sand control measures, thereby restoring wellbore integrity and production capacity.

➤ Technical Features

- **Mechanical Sand Control:** Premium Mesh Filter Sand Control、Gravel Packing、ESS
- **Chemical Sand Control:** Resin Sand Consolidation、Chemical Agent Stabilization
- **Combined Sand Control:** Integrated Mechanical and Chemical Approach
- **Wellbore Remediation:** Casing Patching、Sand control implementation post wellbore repair (including pipe expansion and reconditioning)

➤ Application Scenario

- Sand entering the wellbore blocks the reservoir or pump.
- Casing damage or wellbore deformation needs repair before sand control.
- Old sand control measures failed.



■ Workover Technology for Water Injection Well

➤ Technical Background

Solve casing damage, deformation, corrosion, and scaling in water injection wells, preventing tubing breakage and pipe stuck

➤ Workover Scheme

✓ Question

- Scale-induced tubing stuck
- Severe tubing corrosion
- Severe full-string casing corrosion
- Upper casing fracture, with surface water backflow
- Casing break, shrinkage, bending and disconnection
- Severe casing offset& bending, unrecoverable downhole tools, or reservoir collapse with sand burial



✓ Solutions

- Casing recovery, reverse circulation, fishing, and string back-off
- Cleaning out, reverse circulation, and casing fishing
- Channel milling, channel testing, full well or large section small casing suspension cementing, and integrated plugging and cementing
- Casing replacement
- Casing repair, channel milling, casing patching, and reinforcement
- Casing window sidetracking

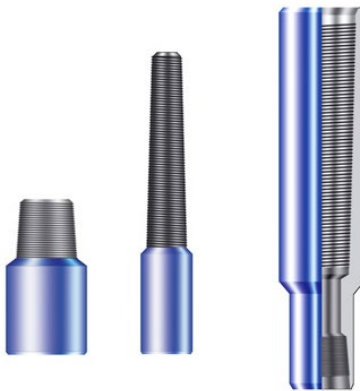


Workover Technology for Highly Deviated& Horizontal Wells

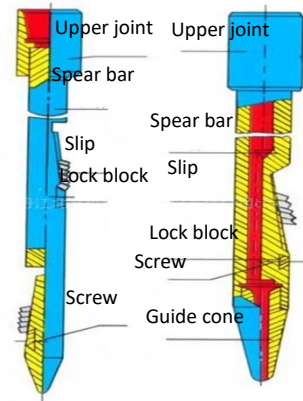
Technical Introduction

Carry out specialized downhole operations and maintenance for these special well types, aiming to address various complex issues that may arise during the production process. It mainly includes:

- Casing repair (e. g. patching, plugging, reshaping);
- Wellbore integrity restoration (e. g. Addressing casing leaks and interlayer channeling);
- Complex fishing and treatment of down-hole falling objects, etc.



Cone-type fishing tool

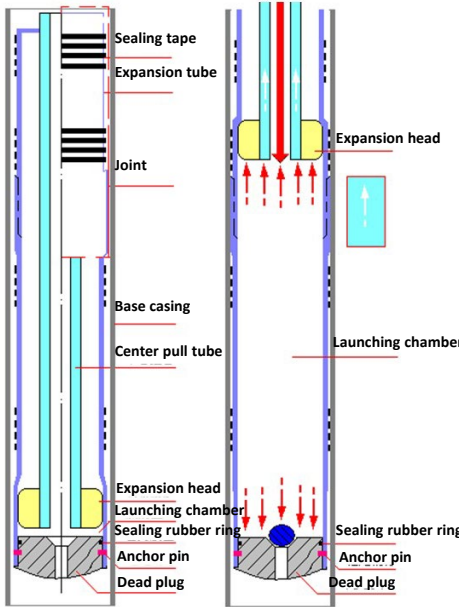
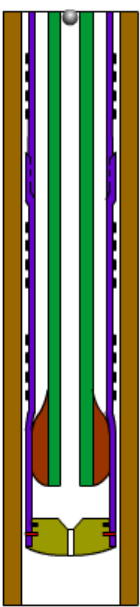


Sliding block fishing spear



Retractable block fishing spear

Five Supporting Technologies	Advantages and Features	Application Scenario
Hydraulic boost fishing technology	High-tonnage controlled pull force, wellbore protection	Deep fishing and complex working conditions of high pressure gas well
Hydraulic back-off technology	Precise torque control, reverse pipe release	Release of thread-bonded or corroded tubing strings
Overmilling and fishing technology	Integrated operation for efficient plug removal	Removal of cement block and cuttings-encased Fish
Overmilling+ back-off release technology	Multi-process synergy enables economic and efficient operations	Compound pipe stuck cases (sand buried+ deformed pipe string)
Casing repair technology	Low cost recovery of wellbore for extended well life	Repair of casing local damage and zonal isolation failure



■ Case Study I

Well Intervention Services

Location Western China

Service Scope Oil and water well workover, normal interventions, maintenance, profile control and injection enhancement.

Equipment 12 workover rigs such as XJ650/XJ550/XJ450/XJ250, and 14 special operation vehicles.

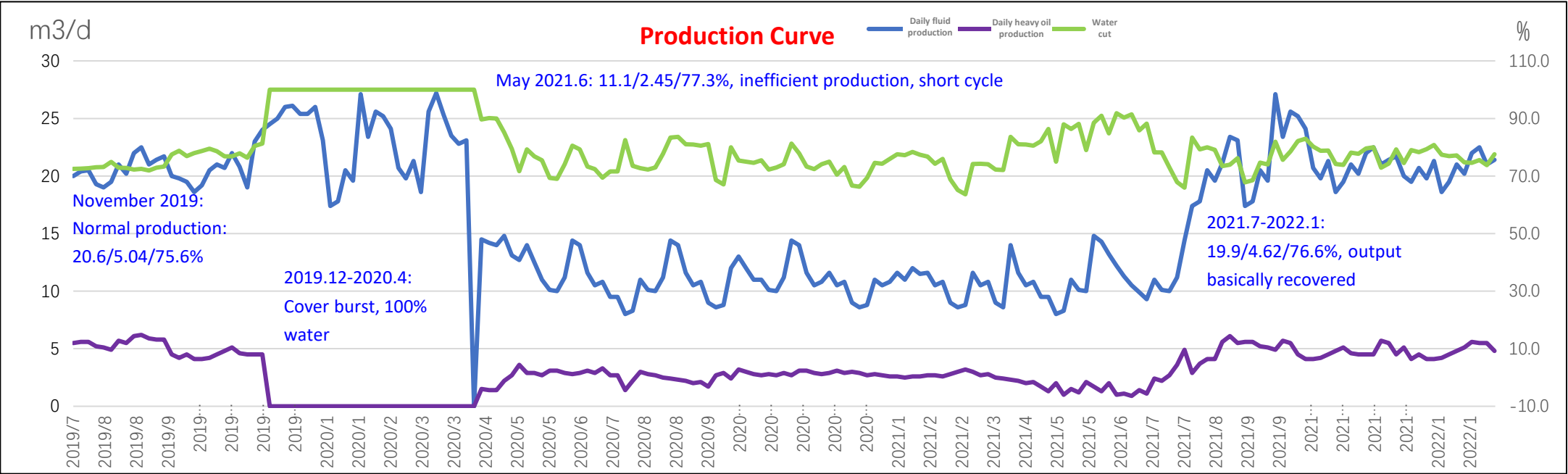
- Since 2014, Kerui has delivered integrated downhole services for well maintenance and production enhancement.
- Over 4,700 wells completed with a 100% success rate.
- Key technologies include casing repair, horizontal well jetting, and fishing in injection wells.



■ Case Study II

Casing Patching Technical Service

During the period from 2021 to 2024, Kerui completed a total of 83 well operations of long-interval casing damage patching in the oilfields in the east and northwest of China, achieving a one-time success rate of 90% and a production recovery rate of over 95%.



Customer Success, Co-Creation and Shared Growth

Shandong Kerui Petroleum Technology Co., Ltd.

