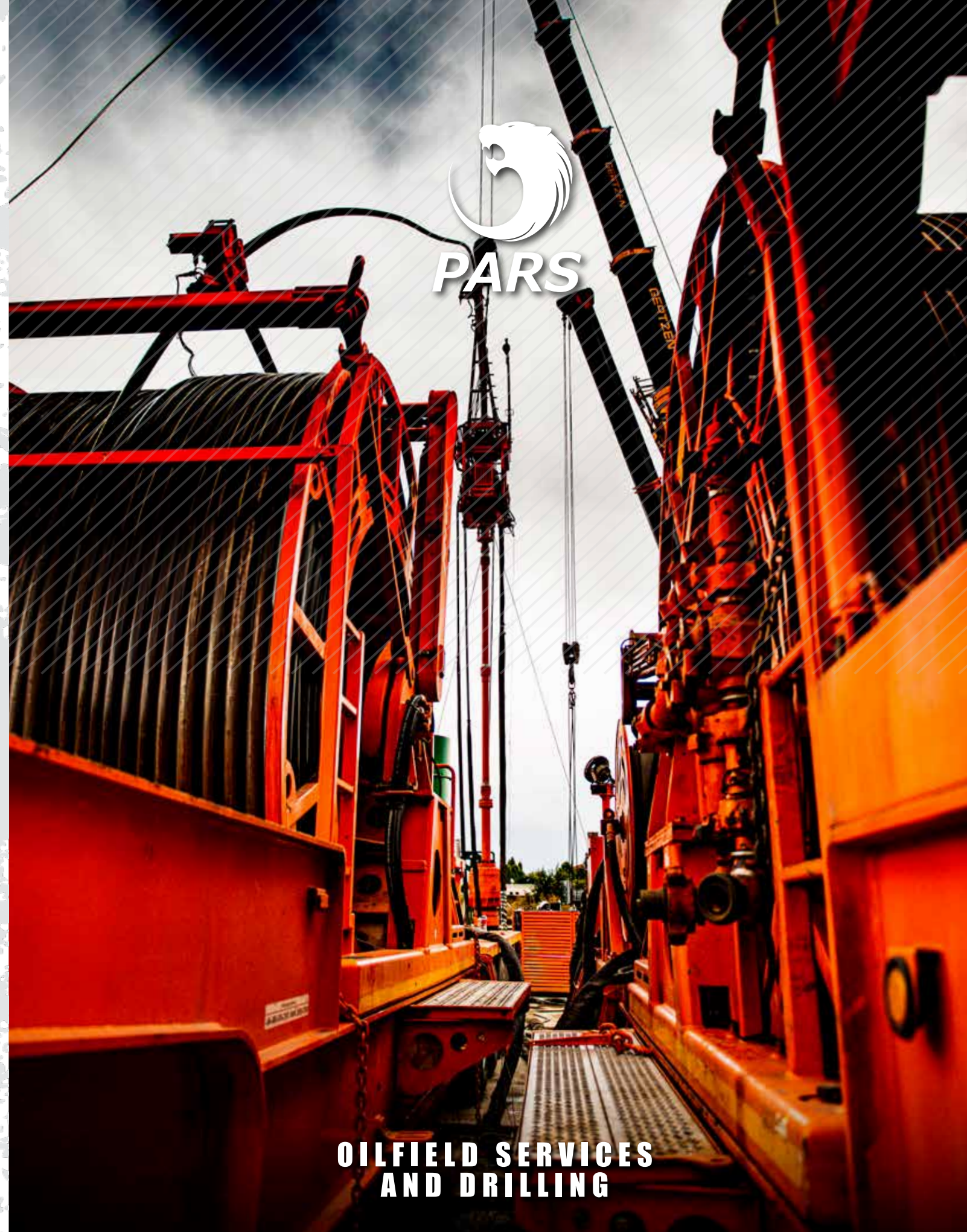




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PARS

**OILFIELD SERVICES
AND DRILLING**



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PARS
**OILFIELD SERVICES
AND DRILLING**



PARS ANATOLIAN WAS ESTABLISHED AS A SUBSIDIARY OF **BM GROUP**, WITH THE PURPOSE OF PUTTING **BM'S OVER 16-YEARS' EXPERTISE**, MANPOWER, EQUIPMENT AND FACILITIES AT THE SERVICE OF THE OIL, GAS AND GEOTHERMAL E&P SECTOR.

Pars Anatolian provides services to the oil, gas and geothermal exploration starting from the drilling planning stage, to a wide range of drilling, well completion, logging and specialty operations.

Pars Anatolian is managed by a young and dynamic team that is strongly committed to our values and our corporate identity. Pars also maintains strong bonds with its oilfield equipment manufacturer sister company to customize its equipment to the exact requirements of the sector.

FAST | RELIABLE | COST EFFECTIVE

COILED TUBING

COILED TUBING IS THE MOST VERSATILE SOLUTION TO MANY WELL COMPLETION AND PRODUCTION PROBLEMS, ENABLING:

- Quick mobilization and operation time, at minimal operational risk, production downtime and cost,
- Re-entry and intervention without well-killing
- Continuous pumping during trip time
- Underbalanced drilling without formation damage
- Reduced costs in comparison to conventional workover rig operations

We offer coiled tubing services for wells up to 6300m [20.670ft] TWD for a wide range of downhole equipment and CT solutions.

**NON-STOP OPERATION
WITHOUT WELL-KILLING!**

E-COIL PROVIDES A COST EFFECTIVE AND TECHNICALLY SUPERIOR METHOD FOR ACQUIRING REAL-TIME DOWNHOLE DATA, ESPECIALLY IN HORIZONTAL WELLS. CAPABILITIES INCLUDE ANY OPEN OR CASED HOLE LOGGING, DOWNHOLE VIDEO RECORDING AND UNDERBALANCED CT DRILLING APPLICATIONS.

E-COIL



BENEFITS

- Deployment of long logging string in highly deviated and horizontal wellbores
- Continuous logging at ultra low speed
- Snubbing long tool strings through doglegs or obstructions
- Circulation of fluids at any time during operation
- Constant well pressure control for live well operations
- Production logging with N₂ lifting
- Real-time measurement of bottom hole conditions while performing treatments
- Minimum operation time

APPLICATIONS

- Cased Hole Logging
- Underbalanced Drilling
- Over Balanced Drilling
- Caliper Survey
- Bridge and Isolation Plug Setting
- Plug & Perforation
- PLT Logging
- Open Hole Logging
- Live Camera Imaging
- Electro Magnetic Fishing

COILED TUBING DRILLING

THE **SMART** THING TO DO!

OUR NITROGEN-ENHANCED CT DRILLING SYSTEM ENABLES UNDERBALANCED DRILLING (RE-ENTRY) OPERATIONS. HIGH ROP IS ENSURED THANKS TO HIGH NITROGEN FLOW. PUMPING CAPACITY AND HIGH FLOW RATE THROUGH 2-7/8" DIA. COILED TUBING.

Significantly increase your productivity with:

- Easy re-entry, without well-killing
- Short rig-up, operation and rig-down times
- Minimal down-time on production
- "Produce while you drill" for geothermal wells
- No reservoir contamination w. under-balanced drilling
- Steerable directional drilling capability





ACID FRACTURING

HIGHER PRESSURE, HIGHER RATE, BETTER PENETRATION IN COMPARISON TO MATRIX ACIDIZING. IN AREAS WHERE MATRIX ACIDIZING TREATMENTS PROVIDE GOOD RESULTS, ACID FRACTURING PROVIDES EVEN BETTER!

- Easier setup and operational execution
- Minimized pressure limitations
- Fast well-bore clean up
- High permeability yield
- Higher fracture conductivity

NITROGEN PUMPING

OUR LIQUID NITROGEN STORAGE AND PUMPING SERVICES PROVIDE MARKET LEADING CAPABILITIES FOR WELL CLEANING, STIMULATION AND DRILLING OPERATIONS ONSHORE AND OFFSHORE.

Our services are supplemented by coiled tubing or regular tubing supply, installation services and acidizing services.

CEMENTING

WE ACCOMMODATE A WIDE RANGE OF DRILLING AND COMPLETION CEMENTING PROGRAMS WITH A LARGE INVENTORY OF RCM PUMPERS AND SUPPORT EQUIPMENT.

We also provide slurry design, on-call materials, chemicals supply service and mobile & fixed silos.

WIRELINE & LOGGING

OUR WIRELINE SERVICES COVER YOUR REQUIREMENTS FROM SIMPLE SLICK-LINE LOGGING TO E-LINE REAL-TIME LOGGING OR WELL INTERVENTION OPERATIONS.

We carry the following groups of in-house log tools:

- PT, PTS and FTS (undisturbed fluid sampling) Log
- Well Azimuth / Gyro Log
- CCL, CBL, VDL & Caliper Logs
- Gamma Ray Log
- Free-Point Log and Back-Off Services
- Perforation Services
- Propellant Stimulation Services (pressurized gas fracturing through progressively-burning propellant)



LOGGING PERFECTED!

BECAUSE YOU DESERVE TO KNOW!





CONVENTIONAL DRILLING



WE PROVIDE DRILLING SERVICES UP TO 4.500M [14.764FT] DEPTH, WITH UP TO 1300HP, 225 -TON MAXIMUM HOOKLOAD CAPACITY MOBILE RIGS.

We utilize 5M pressure control equipment, 5"DPs, PLC controlled solid control systems and grid-powered electric mud pumps (w.backup generators) for serious fuel cost savings and improved flow control.

Our rigs have been optimized to offer reduced mobilization footprint, advanced control systems and a simple and no-nonsense design.

Our drilling rigs can also be rigged with our Geothermal Mudlogging System, which can automatically log and record key drilling parameters (mud inlet & return temperature, salinity, ROP, WOB, line pressures, etc.) for geothermal drilling applications.

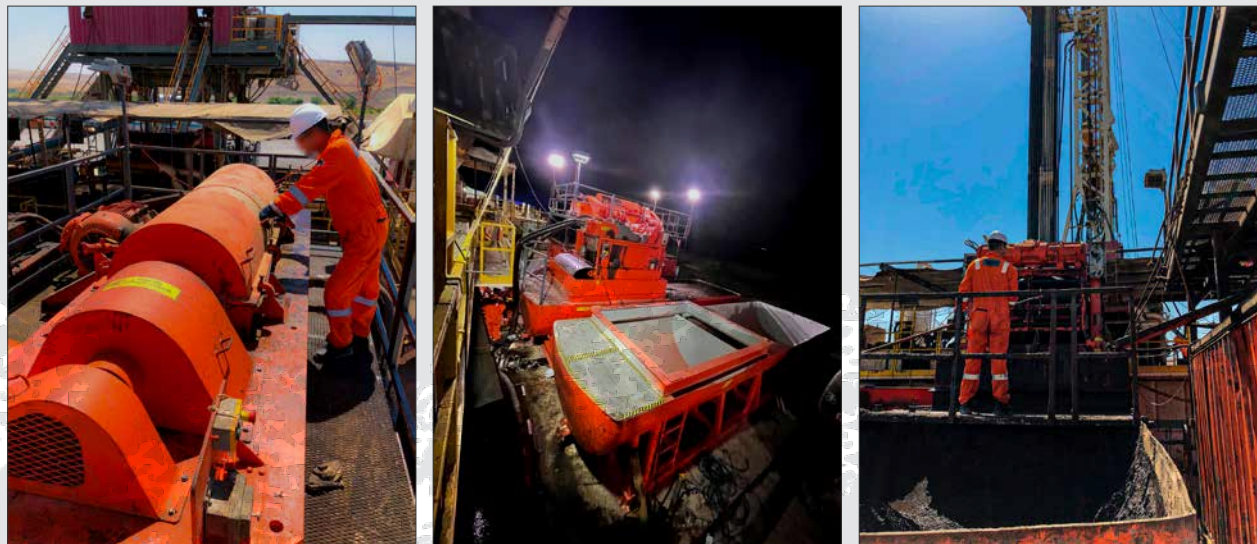


RECENTLY ESTABLISHED ACTING ON
THE STRONG DEMAND IN OIL & GAS E&P
MARKET FUELED BY EVER-TIGHTENING
ENVIRONMENTAL REGULATIONS

WASTE MANAGEMENT & DRY LOCATION

Waste management & solids control tasks, if not duly handled, give rise to high operational costs and significant environmental hazards. Pars Drilling waste management & solids control services provide cost-effective, efficient and environment-compliant solutions by utilizing off-shore-grade equipment.

Our designs are optimized to help our clients recover mud material from drill cuttings with high efficiency, recover water for cleaning, cooling and mud preparation and dispose of the remaining [dry] cuttings in accordance with environmental regulations. Our units also help keeping mud properties in range by utilizing high-tech, high capacity decanters & shakers.



AIR DRILLING

Pars Drilling also offers air-drilling services for cost effective and rapid drilling in volcanic rocks and other hard formations. Our internationally experienced team can handle all aspects from system configuration to remote logistics and project management.



WORKOVER & SPECIAL OPERATIONS



ESP RUNNING

Installation of downhole ESP pumps into wells is often overlooked in completion of wells, resulting in stuck pumps or severed critical elements such as inhibitor piping or power cables. Possible scaling in the well bore adds to the complexity for geothermal applications. We provide our clients with reliable and fast downhole pump lowering and installation services, including supply of all required equipment and handling tools.



INHIBITOR CAPILLARY TUBING INSTALLATION

Inhibitor systems are one of the most critical elements of geothermal production systems. Incorrectly installed systems often lead to early failures and even well damage. We offer installation services for inhibitor systems, including lowering, setting, commissioning and operation testing.



WORKOVER RIG SERVICES

We offer workover services both with mobile drilling rigs and our new light workover rigs specifically configured for quick workover operations.

Thanks to flexible peripheral equipment configurations available with our drilling rigs, we can offer versatile assemblies for smaller drill locations.

RIGLESS TUBING RUNNING

We also provide simple, safe tubing installation and rental services for clients that do not require the use of a drilling or workover rig or a Coiled Tubing Unit. A trade-off between cost saving and operation time, this operation offers clients successful completion within a more restricted budget.

Pars Drilling provides drilling services for deep water and special requirement wells in extremely remote locations. Our experiences include drilling for military applications, in isolated desert locations, mountainous regions and to water well depths of over 1000 meters.

REMOTE LOCATION DRILLING



OIL & GAS INDUSTRY OFTEN REQUIRES PARTS TO BE MACHINED WITH CRITICAL TOLERANCES, COMPLEX GEOMETRIES AND EXOTIC MATERIALS. PARS CNC MACHINING SHOP CATERS TO THESE REQUIREMENTS IN SUPPLYING MISSION-CRITICAL MACHINED PARTS FOR THE OIL AND GAS INDUSTRY.

Flanged Crossover



**MACHINED LIKE IT WAS
HAND CRAFTED!**

PARS MACHINING PROVIDES CNC PRECISION MACHINING THAT COMBINES THE INDUSTRY'S BEST WORKFORCE AND LATEST TECHNOLOGY WITH STRICT QUALITY CONTROL PROCEDURES, ENSURING THE RIGHT PARTS ARE DELIVERED WITHIN THE COMMITTED TIME.

We acknowledge that quality machined parts are essential to keep equipment running right. This is why we also recognize and accept a critical responsibility to provide correct parts during our service to continue work without interruption.

CNC MACHINING

DESIGN

For design and engineering of complex parts, Pars relies both on its unparalleled hands-on knowledge base that comes from field practice, as well as its collaboration with sister company Petrotek Global and their competent 3D design team trained in API-compliant design.

Pars Machining also utilizes various reverse engineering techniques in order to create and develop 3D digital models from physical objects, for special solutions and modified replacement parts.



Mud pump spear



**PARS
MACHINING**



AT PARS, AN UNYIELDING COMMITMENT TO WORK IN SAFETY AND ENVIRONMENTAL COMPLIANCE IS THE CORE TO HOW WE OPERATE.

It is our collective goal to prevent any and all unsafe or detrimental practices and eliminate injuries, occupational illnesses and harmful effects associated with our operations. We strive to achieve this by developing a strong culture of health, safety and environmental consciousness through displaying dedicated leadership to a committed and skilled workforce.

We continually strive to improve our operational performance and deliver a sustainable competitive edge while upholding our HSE standards. For that purpose, we utilize an Operational Excellence (OE) approach to retain and share our corporate know-how for better practices each time around.

HEALTH, SAFETY & ENVIRONMENT





FAST | RELIABLE | COST EFFECTIVE

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