



DRILLING & SERVICES

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Information about the company

8 BRANCHES
ABROAD

Deepest well

7541 m

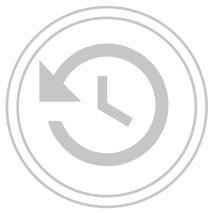
20
DRILLING
AND WORKOVER
MACHINES

OVER
20 YEARS
IN KAZAKHSTAN

OVER
25 YEARS
IN PAKISTAN

OVER
70
OF INTERNATIONAL
EXPERIENCE IN
THE PETROLEUM
INDUSTRY





Historical background

The history of the Polish petroleum industry began in the mid-19th century with Ignacy Łukasiewicz, who was the first to distil kerosene, using it to illuminate the operating room at a hospital in Lviv. The event led to the development of the petroleum industry both in Poland and around the world. Today, Exalo Drilling plays an important part in that industry.

The tradition of EXALO Drilling SA dates back to 1945 and is derived from the experience of the drilling and service companies that form the PGNiG Group. As a result of their merger on 1 February 2013, we became the leading drilling and maintenance company in the onshore drilling market in Poland and Central Europe.

The establishment of Exalo Drilling in 2013 was preceded by several months of preparation and cooperation by the five independently operating drilling and service companies in the PGNiG Group: PNiG Kraków S.A., PNiG JASŁO

S.A., PNiG NAFTA S.A., PN "Diamant" sp. z o.o., and ZRG Krosno sp. z o.o.

In July 2012, PGNiG Poszukiwania S.A., was set up as a special-purpose vehicle, beginning a complex process to consolidate these companies. Thanks to the commitment and work of a team of representatives from all five companies, the formal consolidation process was successfully completed in February 2013, as a result of which the drilling and service companies were merged with PGNiG Poszukiwania, creating a common brand under the name EXALO Drilling.

Where did Exalo come from?

Exalo comes from a combination of English words "exploration" and "extraction", and the Latin "alo", meaning support. Our logo invokes the movement of a drill, with its five elements symbolising the five companies that merged to form Exalo.





Exalo today

Today, Exalo is one of the leading onshore drilling companies in Central and Eastern Europe. With our extensive drilling equipment fleet, skilled engineering staff, and many years of experience on the global market, we are able to drill wells as deep as 8000 m.

Exalo's portfolio also includes a comprehensive offer of professional drilling services and an accredited Fluid and Cement Laboratory, which performs advanced measurements and research in the field of drilling fluids and cement slurries.

Exalo Drilling S.A. has experience in drilling projects in over 20 countries in Europe, Asia, and Africa. Though our head office is located in Poland, we have branches in Pakistan, Kazakhstan, Chad, Tanzania, the Czech Republic, United Arab Emirates, Hungary, as well as a subsidiary in Ukraine, all of which give us an extensive operating area.

Thanks to our extensive experience, we are able to drill in the most difficult and complex geological conditions and guarantee optimum solutions tailored to the individual needs of our clients, ensuring a balance between quality and efficiency.

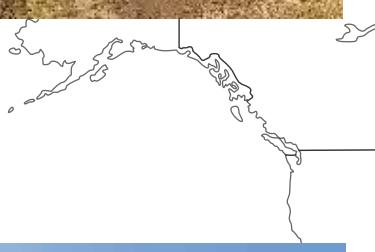
Exalo's employees are among its key competitive advantages. Their international experience, rich knowledge, and high-level skills and qualifications guarantee our projects success.





Overseas markets

Libya
Uganda
Mozambique
Ethiopia
Lithuania
Germany
India
Ukraine
Egypt
Pakistan
Kazakhstan
Croatia
Romania
Hungary
Denmark
Spain
Austria
Latvia
Slovakia
Chad
Morocco
Georgia
Czech Republic



Our Clients

PGNiG
Lotos
Total
San Leon Energy
Glencore
UEP
OMV
ExxonMobil
Sasol

Orlen Upstream
Tullow Oil
Cairn
RWE
Kazakhmys
MOL
Chevron
Miedzi Copper
RWE



Our locations



- Poland – headquarters
- Pakistan Branch
- Chad Branch
- Kazakhstan Branch
- Czech Republic Branch
- Tanzania Branch
- United Arab Emirates Branch
- Hungary Branch
- Exalo Ukraine LLC

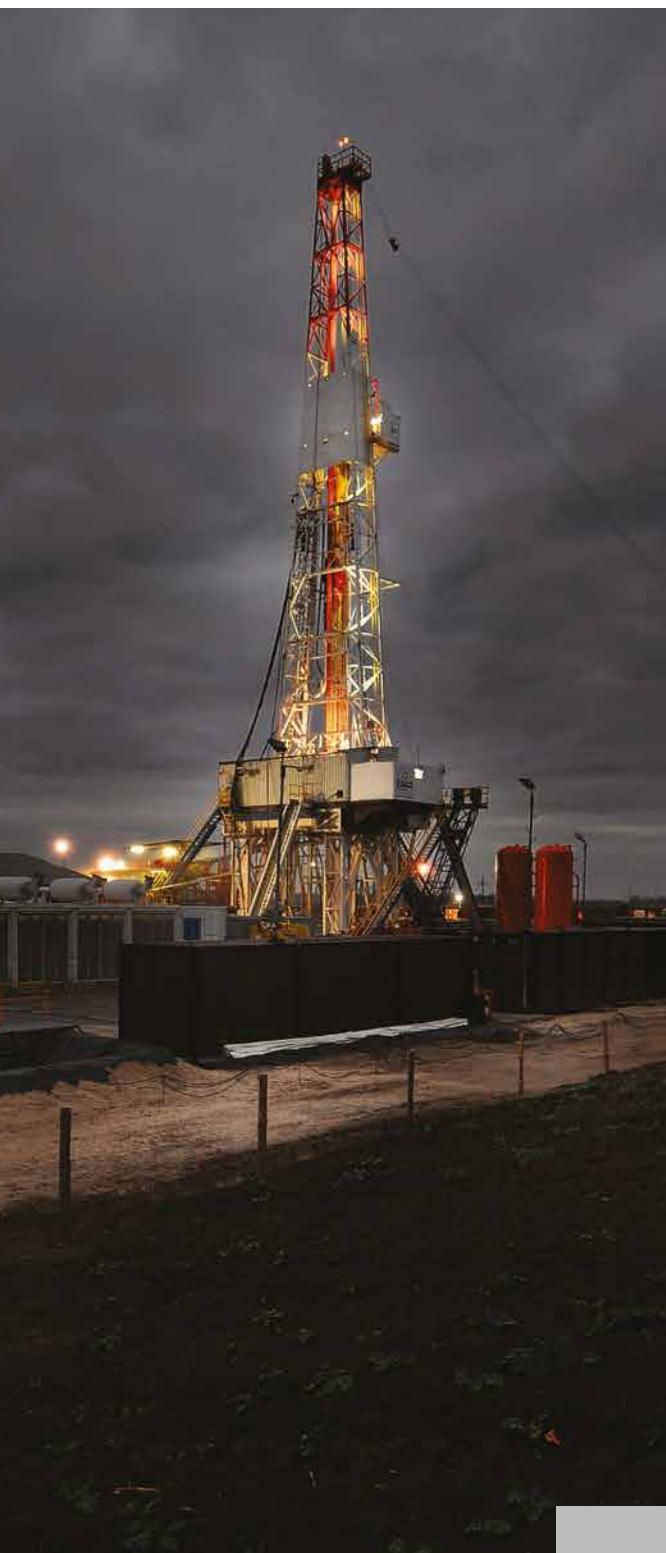


Examples wells

Libya	2065 m
Uganda	2105 m
Mozambique	2250 m
Ethiopia	2468 m
Lithuania	2859 m
Germany	3857 m
India	4287 m
Ukraine	4631 m
Egypt	4873 m
Pakistan	5680 m
Kazakhstan	7050 m
Poland	7541 m



Exalo's portfolio



Exalo has completed a large number drilling and service projects in Europe, Asia and Africa, including countries such as: Kazakhstan, Pakistan, Egypt, Libya, Morocco, Georgia, the Czech Republic, Chad and Ukraine. Thanks to the combination of diverse technological solutions and an experienced engineering staff, we ensure the comprehensive implementation of projects with the highest possible quality.

Exalo's offer includes a wide range of services for the exploration and production industry, including drilling, maintenance and other services that support drilling operations. Under one strong brand, we have gathered qualified engineering and technical staff with extensive competences and decades of combined experience, an extensive fleet of fully-equipped, modern drilling equipment and specialised well services, including cementing and stimulation service, slickline, completion and tubular running service, coiled tubing and nitrogen unit service, well testing service, workover service, mud service and coring and directional services.

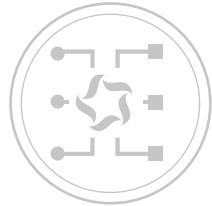
Thanks to our research and development facilities - including one of the most modern laboratories in Europe - we are constantly creating innovative solutions for the drilling and service industry.

At Exalo, we also place great importance on fostering a safe working culture, in accordance with the Safety First principle. All our operational activities are based on a quality, health and safety, and environmental management system (QHSE), which aims to ensure safe working conditions and synergy with the environment, in accordance with international standards:

- **ISO 9001:2015**
- **ISO 14001:2015**
- **ISO 45001:2018**

Exalo is also a member of the international IADC association, which brings together companies in the oil and gas industry. All these factors translate into Exalo's position as a stable, recommended and reliable business partner in the onshore drilling industry.





Our core business

Exalo Drilling provides the following solutions and services for the oil and gas industry:

- well drilling engineering,
- drilling and final completion,
- drilling of exploration and production wells for hydrocarbon deposits,
- drilling of exploration wells for shale gas, tight gas, coal-bed methane (CBM), metal ores,
- drilling of geothermal exploration wells, a comprehensive range of borehole services, including cementing and stimulation service, slickline, completion and tubular running service, coiled tubing and nitrogen unit service, well testing service, workover service, mud service and coring and directional drilling services.





As well as:

- drilling waste disposal,
- drilling equipment inspection and repair,
- maintenance regeneration of drill strings,
- inspection and regeneration of the drill cord,
- drilling site preparation (access roads, etc.),
- land reclamation after the completion of drilling and exploitation works,
- blowout prevention – Borehole Mining Rescue Team.



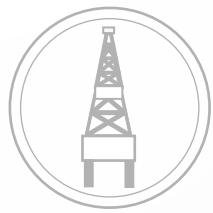
Drilling rigs

Exalo has a wide range of drilling and reconstruction equipment of varying sizes and capacities. This allows us to implement even the most complex exploration and extraction projects in diverse environmental conditions around the world.

Our constantly upgraded range of drilling equipment ensures highly efficient drilling, operational flexibility, and workplace safety, which increases the competitiveness of our brand on the onshore drilling market.





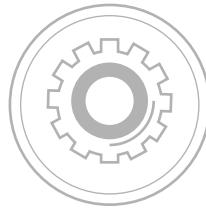


Drilling rigs

OVER 1500 HP	Drillmec 2000 HP	IDM 2000	Bentec Euro Rig 450	Massarenti MAS 6000E	National 110 UE
Power (HP)	2000	2000	2000	1700	1500
Hook load capacity (t)	590	454	450	454	454
Drive type	VFD	VFD	VFD	SCR	SCR
Top drive	NOV TDS11SA	NOV TDS11SA	BENTEC TD-500HT	BENTEC TD500HT	MH PTD500AC
Drilling range	7400 m @ 5"	6000 m @ 5"	6000 m @ 5"	6000 m @ 5"	6000 m @ 5"
Pumps	3 x Drillmec 12T1600	3 x Drillmec 12T1600	2 x DRILLMEC 12T1600 + 1 x BENTEC BMPT-T-1600-AC	3 x Bomco F 1600	3 x National 10P130, 2x Wirth TPK 1600 1x National 10P130
Quantity	2	1	1	1	1

1000 - 1499 HP	IRI/IDECO ED1200	IRI/DRECO 1200	Drillmec MR 8000	Drillmec HH 220
Power (HP)	1200	1200	1000	TELESCOPIC HYDRAULIC SYSTEM
Hook load capacity (t)	295	310	200	200
Drive type	SCR	SCR	mechanical	hydraulic
Top drive	BENTEC TD500XT	BENTEC TD500XT	Drillmec HTD250HT	Drillmec ETD275
Drilling range	5000 m @ 5"	5000 m @ 5"	3000 m @ 5"	3700 m @ 5"
Pumps	3 x Ideco T1300 3x National10P130	2 x Ideco T1300 + 1x National10P130	3 x NATIONAL 9P100	3 x DRILLMEC 9T100
Quantity	1	1	1	1

UP TO 1000 HP	Skytop Brewster TR800	IRI-750			
Power (HP)	950	720			
Hook load capacity (t)	186	136			
Drive type	mechanical	mechanical			
Top drive	Drillmec HTD 200				
Drilling range	3000 m @ 5"	2000 m @ 5"			
Pumps	2 x GARDNER DENVER PZ8 + 1 x OILFIELD HEBEI F1000	3 x GARDNER DENVER PZ8			
Quantity	1	2			
Workover rigs	SK-575 Service King Mfg	SK-175 Service King Mfg	Cardwell KM 200C	Cardwell KB 200C	Cardwell KM 150
Power (HP)	500	430	402	325	300
Hook load capacity (t)	112	68	81	63	57
Drive type	mechanical	mechanical	mechanical	mechanical	mechaniczny
Pumps	T500	OPI 700 lub PH200	Gardner Denver PZ7	Gardner Denver PAH 200	Gardner Denver PAH 200
Quantity	1	2	1	1	2



Exalo services

We offer a full range of integrated drilling and maintenance services for all stages of a well's life cycle, from construction to well decommissioning, as well as laboratory and technical support. The services provided are carried out by a qualified engineering and design team with comprehensive training in operations, safety, environmental protection, management, and monitoring.

Exalo's portfolio includes the following services:

- cementing and stimulation service,
- mud service,
- coring and directional drilling service,
- completion and tubular running service,
- coiled tubing and nitrogen unit service,
- slickline service,
- well testing service,
- workover service





Range of services

Cementing and stimulation service:

- designing and execution cementing works with Landmark Opticem and Schlumberger CamCade simulator software,
- hydraulic and acid fracturing, leakproof test, pressure tests.

Service equipment:

- HP double pump unit sets
- batch mixers, bulk cement trailers, silo trucks, cement silos,
- hydraulic fracturing sets,
- monitoring and registration data systems – data van.

Mud service:

- developing, supplying and monitoring water and oil based fluid systems for drilling (also for HPHT),
- developing and testing new recipes drilling fluids,
- operating of Solid Control System Equipment.

Service equipment:

- centrifuges (MI-SWACO & FLOTTWEG),
- flocculation units,
- drill cutings drying system,
- field laboratories.

Coring and directional drilling service:

- computer designing of directional and horizontal wells in MWD technology,
- side-track and re-entry jobs in both – open and cased holes,
- multishot tool service,
- Coring Service (standard & wireline core barrels),
- designing of coring programs in vertical and directional wells.

Service equipment:

- MWD type system with vibration measurement and gamma capability,
- mud motors,
- drilling jars,
- non-magnetic drill collars,
- Single & Multi-Section Core Barrels (Security HD),
- Wireline Core Barrels (Security) PDC and Impregnated,
- professional circular saw stand to cut core samples.

Completion and tubular running service:

- well completion,
- Make-up and running casing,
- running and set liners,
- running and set production packers,
- running and set bridge plugs,
- Drill Stem Test (DST),
- make up premium connection with torque control system.

Service equipment:

- hydraulic power tong 2 3/8 – 14" with torque control system ,
- hydraulic power tong 2 3/8 – 20",
- tools for setting liners, packers, permanent inflatable packers and bridge plugs.
- Drill Stem Tester (DST)

Coiled tubing and nitrogen unit service:

- well stimulation and displacing fluids from borehole with nitrogen,
- remake sediment, cavings, bridge in the tubing, casing, and in the open hole,
- milling and drilling bridge plug, cementing plug with downhole motors,
- production stimulations (formation acidizing and fracturing),
- well cleanouts from sand, parafin deposits, sediments, hydrates and other debris,
- fishing jobs,
- run with thru-tubing inflatables tools

Service equipment:

- Coiled Tubing Units 1.25", 1,5" i 1.75"
- Nitrogen units 10 000 PSI and 15 000 PSI
- Pumping units
- CT injector towers

Slickline service:

- tubing drift testing,
- downhole memory gauges like pressure/temperature sensors running,
- sampling of reservoir fluids,
- blanking plugs running and setting in landing nipples,
- circulation sleeves opening and closing,
- slickline fishing jobs,
- mechanical perforation tubing.

Service equipment:

- Slickline Units ,
- pressure memory gauges,
- downhole tools.

Well testing service:

- testing and clean out wells,
- fluid recovery after hydraulic fracturing,
- collection of formation fluid samples under live well conditions,
- separation of formation fluids during Drill Stem Tests (DST).

Service equipment:

- devices for hydrodynamic testing,
- Sand Trap,
- floor choke manifolds,
- heaters,
- 3-phases separators,
- oil measuring tanks,
- crude oil tanks,
- vertical gas flare.

Workover service:

- well rehabilitation,
- recompletion and redrill wells,
- casing milling and cutting,
- replacement of surface and downhole completion equipment,
- fishing jobs,
- wells abandonment.

Service equipment:

- workovers,
- fishing sets,
- milling downhole equipment,
- reamer tool, well bore cleanout tools.



Mechanical Workshops

Key to Exalo's operations is its extensive maintenance facility, which provides repair services for drilling equipment and individual equipment components. Thanks to modern machining equipment, over 5,500 m² of repair facilities, and a staff of specialists, the workshop specialises in overhauling and repairing drilling rig equipment, including:

- masts and substructures,
- drawworks,
- mud pumps,
- swivels,
- block,
- drilling hooks,
- drilling tables,
- Caterpillar internal combustion engines,
- Top Drive devices,
- winches,
- drilling jars,
- downhole motors,
- shock absorber.

Our inspections of mast constructions, drilling rig foundations, and service equipment are in accordance with the requirements of the API RP 4G standard, while our inspections of hoisting equipment are in accordance with the API 8B / PN-EN ISO 13534 standard.



At present, a group of over 90 employees uses their extensive experience to provide services for the petroleum industry both at home and abroad. In order to meet the requirements of our current and future clients, we are constantly improving the processes in our Mechanical Workshops, implementing innovative technologies and selecting the best practices from our extensive experience.

As an experienced business partner, we are API certified for products manufactured in accordance with API Spec 7-1 and API Spec 7-2. This certificate gives us the right to mark the products covered by this certificate with the API Monogram (quality mark).

We have also obtained a certificate and a licence which allows us to perform hard banding, a process in which we remove old, cracked padding from joint sections of drilling pipes, rebuild the joints, and reapply the padding using the DURABAND NC method.





Laboratory

The Fluid and Cement Laboratory is a unit of Exalo Drilling S.A., operating as part of the Research and Development Department. Apart from ongoing testing to support maintenance activities, the Laboratory's primary task is to perform research, development, and innovation work involving drilling fluid and cement grouting technologies for drilling services. The tests carried out at the Laboratory are conducted in accordance with the API specification and PN-EN ISO standards.

The Laboratory is equipped with state-of-the-art specialised instruments produced by respected global manufacturers of petroleum industry laboratory equipment (Chandler Engineering, OFI Testing Equipment, Grease Instrument). The equipment is subjected to constant metrological supervision by accredited calibration laboratories and National Metrological Institutes. In addition, it is regularly inspected by the manufacturer's authorised service centres.

The Laboratory employees are a team of trained and competent specialists

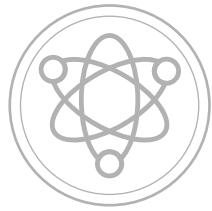
with many years of experience in laboratory and industrial work.

The research laboratory **Accreditation Certificate** granted by PCA under accreditation number AB 1731, confirms that the Laboratory meets the requirements of the PN-EN ISO/IEC 17025:2018-02 standard for competence, impartiality, and reliability.

The Laboratory primarily conducts tests related to water- and oil-based drilling fluids, as well as cement grouts, including:

- designing the composition of drilling fluids and cement grouts,
- testing, selection, and quality control of materials intended for work under various geological conditions,
- analysis of drilling fluids and testing the properties of cement grouts according to international standards:
 - drilling fluids – "Petroleum and natural gas industries. Field testing of drilling fluids" PN-EN ISO 10414; Part 1, Part 2,
 - cement grouts – "Petroleum and natural gas industries. Cements and materials for well cementing" PN-EN ISO 10426-2.





Research and Development Department

Established in 2017, Exalo's Research and Development Department conducts research and development and innovation activities.

Its primary functions include:

- initiating and supervising the development and introduction of new processes, products, and services,
- providing feedback and actively participating in innovative projects implemented in the company,
- conducting cost saving projects,
- actively exchanging information with other departments,
- cooperating with external research and development facilities,
- providing substantive support for technical departments in designing complex projects, in close cooperation with specialists from the relevant departments,
- seeking external funding for research, development, and innovation projects,
- initiating and supervising innovation and rationalisation projects,
- managing internal research, development, and innovation projects with the participation of the Fluid and Cement Laboratory and managing the internal Employee Suggestion Programme based on the Kaizen philosophy.

Thanks to the presence and activity of the Research and Development Department as well as Exalo's pro-innovation culture, we are building and developing our research output and translating it into a better, more competitive market position.





Exalo Staff

We have over 1300 employees in such areas as drilling, borehole services, laboratory, research and development, domestic and foreign sales, marketing, finance, controlling, IT, the mechanical workshops, and the general construction department. We rely on people who are dynamic, committed, and open. We create working conditions that foster development and help employees improve their skills and acquire new qualifications. Our priority is to create a safe working environment in accordance with the SAFETY FIRST principle.

As part of our safety policy, we support the principle of continuous improvement through focused communication in the form of onboarding programs for new employees, instructional videos, initial and periodic training, and above all, regular meetings between management and employees.

In recognition of its employee development activities, Exalo was awarded the title of **Responsible Employer – HR Leader** in 2018.

Exalo specialists have the necessary knowledge and experience to carry out their projects with the highest efficiency. Our employees not only have the professional qualifications and the necessary certificates required by law and by mining standards, but also a wide range of best practices applied in the petroleum industry. This allows them not only to perform their tasks at the highest level, but also to assist clients in solving potential problems.





Integrated Management System

The Integrated Quality, Environment, and Occupational Health and Safety Management System at Exalo Drilling S.A. covers all company processes, including drilling works, maintenance works, workshop processes, and construction processes.

This means we offer services of the highest quality, while maintaining the highest standards for workplace health and safety and implementing solutions to reduce our environmental impact.

The Integrated Quality, Environmental, and Occupational Health and Safety Management System is audited annually by the German certification company TÜV SÜD and its certificates confirm that the processes comply with the following standards: ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System), ISO 45001:2018 (Occupational Health and Safety Management System).





QHSE System

EXALO places great importance on the management of the QHSE policy. The QHSE system is seen as a priority in all operational activities.

EXALO's health, safety, and environmental QHSE components are based on a number of international standards, good practices, and requirements for global drilling operators. The system is audited by representatives of drilling operators or third parties commissioned by these operators.

- minimising the impact of EXALO's operations on the natural environment and eliminating environmental hazards during hydrocarbon exploration,
- conducting economic and rational management of materials and energy, the
- monitoring system – principles relating to the monitoring and prevention of potential hazards and the means of elimination
- thereof, building awareness of safe behaviour among staff, developing skills to monitor potential hazards, and communication when adverse events occur.

The scope of the Integrated Management System and QHSE System includes:

- improving teamwork, promoting quality, workplace safety culture, and environmental protection, implementing the latest technologies, tools, and materials,
- identifying risks at the design stage, systematic improvement training for
- employees in terms of environmental protection, health, and safety,
- conducting research on health risks at workplaces and minimising the impact of these risks on those involved in the project,
- preparing emergency response plans, conducting an open dialogue with local communities on concerns about potential hazards related to EXALO operations,

At EXALO, we believe that thanks to our efforts we can minimise the risk of accidents and damage to the natural environment.





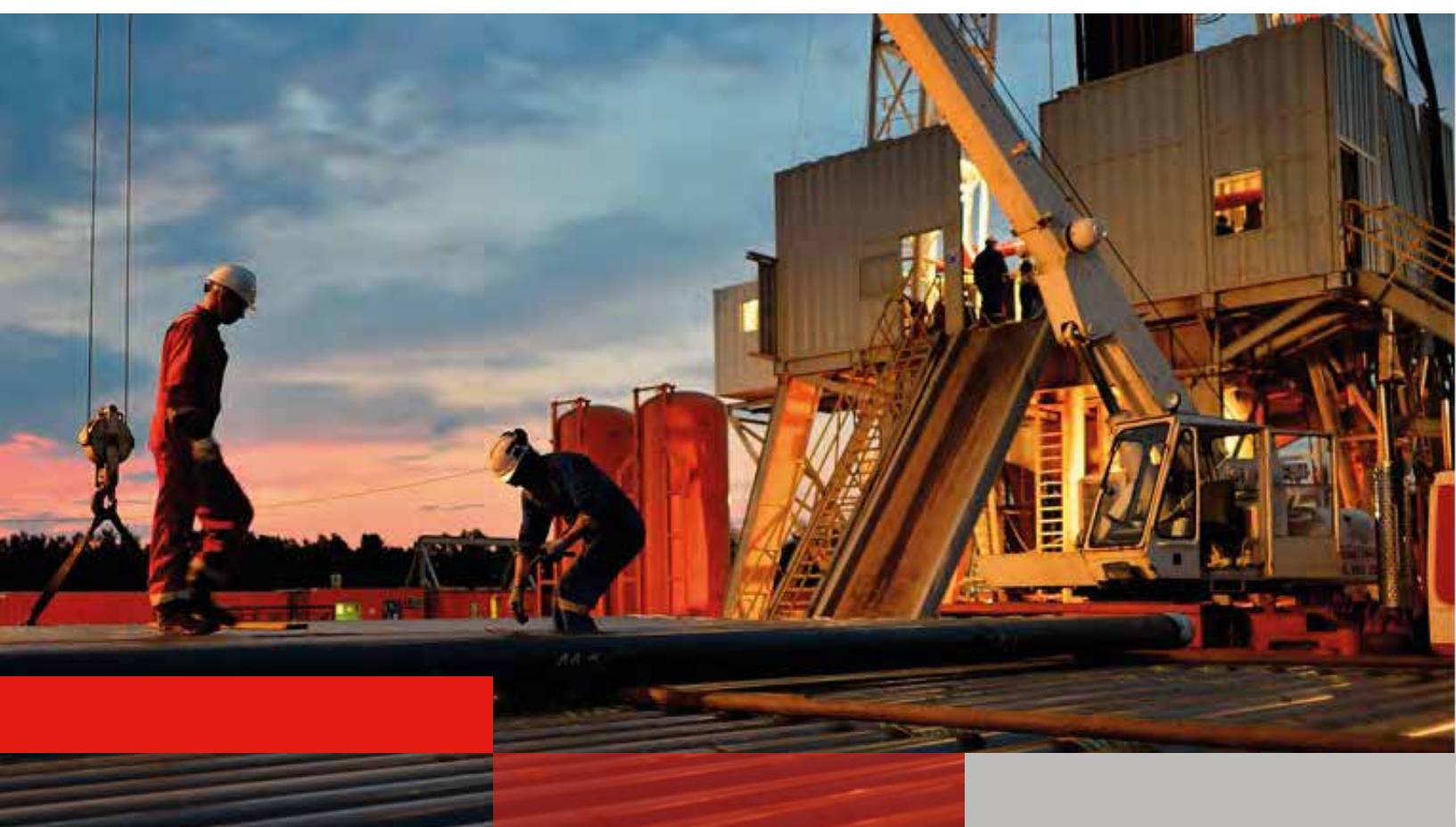
Corporate Social Responsibility

Exalo Drilling S.A. treats corporate social responsibility as part of its mission and actively participates in shaping the company's environment. At every stage of our operations, we focus on building relationships with individual stakeholder groups, with a particular emphasis on social interests and environmental protection. We make every effort to ensure that our actions in this area amount to more than just fulfilling the formal and legal requirements.

In relations with our employees, we follow our corporate ethics and values. We want our organisational culture to be a source of pride and we want our employees to fully identify with their company.

We share our good practices and our experience in responsible business. We educate employees and business partners in this area, expecting them to act responsibly. At Exalo Drilling we do not accept corruption and we follow the principles of free competition. Our relationship with the environment is based on ethics and a code of good practice.

We are not indifferent to the local communities in which we operate. Before starting each project, we talk to the local people and authorities and discuss the potential benefits of the minerals we discover with them. We also present the actions we will take to minimise the impact of drilling on their immediate surroundings.



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