



YUG-NEFTEGAZ

OIL & GAS WELLS DRILLING, WORKOVER AND WELL SERVICING



ABOUT US

Yug-Neftegaz Private Limited was established and registered in Singapore as the parent structure, which manages and coordinates the activities of the Group of companies providing various services in the oil & gas sector on the international markets.

The Group's core business is providing of services in the oil & gas industry, as well as oil & gas fields' exploration and development. In addition, the Group provides consulting services in various technical fields.

WHERE WE WORK



The team of highly qualified professionals of Yug-Neftegaz Private Limited has gained a good reputation in implementating various complex projects and in carrying out certain types of work for the oil & gas industry, such as:

- well intervention & workover,
- intensification of hydrocarbon production and productivity of oil & gas wells,
- oil, gas and injection wells drilling.

Our specialists have got extensive knowledge and wide experience in the oil & gas industry. Our team of experts carries out the most

complicated types of well intervention, workover and oil & gas well drilling operations.

We specialize in the development of engineering solutions for complex projects.

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The key priorities in our daily operating activities are safety, health, and environmental protection.

Yug-Neftegaz Private Limited has developed, adopted and implemented a policy of environmental protection fully compliant with international environmental standards & legislation requirements.

We offer human resources, technologies, expertise, relevant experience, assets, technical means & equipment, which are essential for establishing reliable and stable partnership relations, providing our high-quality services at the competitive prices.

CODE OF ETHICS AND BUSINESS PRACTICES

The Company has developed and implemented the Code of Ethics and Business Practices, the purpose of which is to declare and represent our ethical standards and business practices. These standards are applied to all employees, managers and the Board of Directors of the Company. Each of us, as part of the Company, undertakes to personally display the highest standards of business ethics in compliance with the relevant legislative requirements.

QUALITY, HEALTH, OCCUPATIONAL AND ENVIRONMENTAL SAFETY CONTROL INTEGRATED MANAGEMENT SYSTEM

Our highly qualified team of professionals has got extensive knowledge and significant practical experience in the oil & gas industry. We are able to implement the most complex projects. We value the competence of our employees and their proactive approach. Our employees are committed to adhering to health, safety and environmental standards while performing their tasks.

The Company has developed and implemented the quality, health, occupational, and environmental safety control integrated management system in accordance with the requirements of IADC (International Association of Drilling Contractors), IAGC (International Association of Geophysical Contractors), API (American Petroleum Institute), as well as ISO 9001, ISO 14001, and ISO 45001 international standards to ensure the safe and efficient execution of planned operations & works subject to the requirements of our clients. The owners and top managers of the Company undertake to ensure the effective functioning of this management system and its continuous improvement.

STATEMENT ON IMPLEMENTATION OF QUALITY, HEALTH, OCCUPATIONAL, AND ENVIRONMENTAL SAFETY CONTROL INTEGRATED MANAGEMENT SYSTEM

Our corporate goals and objectives in the field of HSES supported by the respective HSES policy implementation program being carried out at our facilities are achieved due to our management's commitment thereto and comprehensive approach to implementing the HSES management system, quality management system and our HSES corporate policy.

While performing the works at any production facility as well as throughout our corporate activities in general, we set the following basic objectives:

- no harm to people,
- no damage to the environment,
- no losses,
- no complaints against the quality of our services or products.

We combine these simple four goals into a single program called "GOAL – ZERO". It means that resulting from our activities we aim to attain :

- ZERO cases of harm to people,
- ZERO cases of environmental damage,
- ZERO cases of losses,
- ZERO complaints against poor quality of services or products.



Ready for new challenges!

OUR TARGET



GOAL ZERO!

Today we are proud of the fact that we do our business successfully. That became possible due to our constant desire to carefully establish and strengthen relationships in those countries and societies where we operate. To prove our commitment and acceptance of social responsibility, we extend the following objectives to all levels of the Group of companies:

- Promote fair, peaceful and respectful attitude to cultural, ethnic and religious diversity of people involved in our activities whatsoever.
- Demonstrate positive social effect due to continuing mitigation.
- Co-operate with Clients, local organizations, and governmental authorities to display and promote socially important initiatives.

KEY FEATURES OF OUR INTEGRATED MANAGEMENT SYSTEM:

- Compliance with IADC, API, OSHA and IAGC (requirements and standards).
- Interactivity and use of Web technologies.
- Instant exchange of HSES information among production facilities worldwide.
- Convenient access for the Client to monitor the project.
- Comprehensible and simple document control process.
- Effective limited management of changes.
- Reducing the workload of those involved in HSES.

WE GUARANTEE THAT OUR WORK IS IN COMPLIANCE WITH INTERNATIONAL QUALITY, HEALTH, OCCUPATIONAL SAFETY, AND ENVIRONMENTAL PROTECTION MANAGEMENT STANDARDS



OUR BUSINESS:

The Group's key activity is providing a suite of services, equipment and technical solutions to Clients in the oil & gas industry.

Our technologies are, first of all, the result of a thorough study of world experience in the oil & gas industry and our own developments.

THE COMPANY PROVIDES THE FOLLOWING SERVICES:

01 | DRILLING SERVICES:

- 1.1.** Drilling Rig Rental / Well Workover Rig Rental
- 1.2.** Drilling (vertical, directional, horizontal)

02 | WORKOVER AND WELL SERVICING:

- 2.1.** Workover of oil, gas, and injection wells
- 2.2.** Wellbore intervention related to drilling (sidetracking and well deepening)
- 2.3.** Recompletion in the other zone and commingling
- 2.4.** Remedial operations
- 2.5.** Elimination of leaks in the production casing
- 2.6.** Remedial cementing
- 2.7.** Production-Injection well conversion
- 2.8.** Well suspension, reactivation, and abandonment
- 2.9.** Well subsurface equipping
- 2.10.** Well operations parameters optimization
- 2.11.** Well preparation for bottom hole treatment
- 2.12.** Cleaning tubing from paraffin deposits with the SLICKLINE unit

03 | BOTTOM HOLE TREATMENT:

- 3.1.** Chemical treatment
- 3.2.** Hydraulic fracturing
- 3.3.** Sand jet perforating job

04 | COILED TUBING SERVICES:

- 4.1.** Sand plug clean out
- 4.2.** Well kill
- 4.3.** Nitrogen kick-off (liquid nitrogen)
- 4.4.** Bridge plug/packer setting
- 4.5.** Cement plug placement
- 4.6.** Operations with well down-hole equipment
- 4.7.** Cleaning tubing from organic/inorganic deposits
- 4.8.** Bottom hole treatment
- 4.9.** Fishing

05 | DRILLING EQUIPMENT RENTAL

- 5.1.** Downhole motors
- 5.2.** Jars
- 5.3.** Drilling bits
- 5.4.** Tubulars (DP, HWDP, DC, NMDC)
- 5.5.** Stabilizers
- 5.6.** Other drilling equipment

06 | SERVICE OF DRILLING EQUIPMENT

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01 | DRILLING SERVICES:



1.1 | DRILLING RIG RENTAL / WELL WORKOVER RIG RENTAL

Our company provides onshore drilling rigs and workover rigs rental. We offer our clients high-end drilling equipment and drilling crews with extensive industry experience.

Yug-Neftegaz Private Limited is dedicated to achieving high productivity, ensuring a safe working environment and providing the highest quality services to our clients in the oil & gas industry around the world.

We continue to invest in our rig fleet, improving quality and universality by upgrading existing rigs and purchasing new specialized ones for drilling wells in conditions requiring the use of advanced technologies.



ZJ-15 Workover Rig (100 t)

We strive to improve efficiency and safety of the drilling process, meeting Client's requirements in respect of the quality level. We are guided by the following principles:

- people are our most important asset,
- safety is our primary duty,
- financial discipline and high business standards constitute our business ethics.

Our technology, expertise and high-quality equipment help us achieve high results in drilling difficult wells and meet most stringent requirements of our Clients. We carry out our activities in such a way as to reduce non-productive time and improve safety by eliminating hazardous production factors and keeping staff away from dangerous areas.

1.2 | DRILLING VERTICAL, DIRECTIONAL, HORIZONTAL)

Our team of professionals has got and is ready to apply their many years of knowledge and vast experience in drilling.

The Company's engineers develop drilling programs based on calculations and simulations that are carried out with using specialized software. "Drilling program" is a document containing conclusions and recommendations obtained on the basis of collection & analysis of available information on offset wells, calculations and modeling.

The drilling program includes optimal well trajectory, preliminary calculations and recommendations for casing design, recommended BHA designs, drilling parameters, bit program, well casing program, ROP and permissible ROP deviations.

The availability of a wide range of equipment & tools for directional drilling is an important competitive advantage of the Company. Our team of directional drilling specialists has many years of experience in drilling various types of wells, including inclination stabilized wells, horizontal wells and multilateral horizontal wells. The availability of own modern downhole motors of the highest quality gives our Company another competitive advantage, allowing us to build reliable, highly productive wells in the shortest possible time.



ZJ-40 Drilling Rig (225 t)

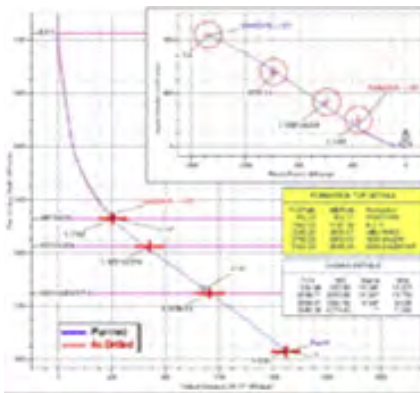


MWD telemetric system

Technical support for directional drilling operations is provided directly at the sites. The availability of a complete service base and workshop allows us to minimize costs and reduce the time required to complete the work.

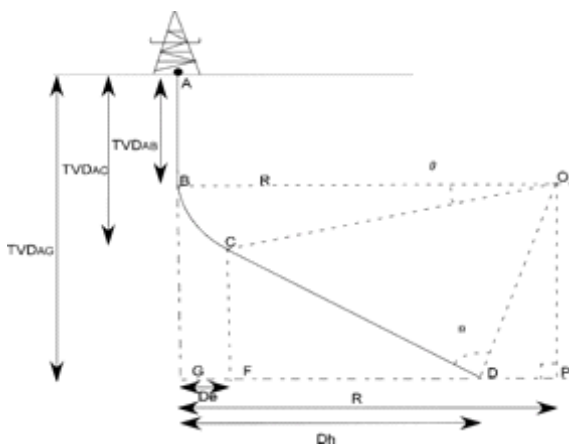
The Company is continuously updating its drilling methods, studying and evaluating world best practices and new technologies. We continually develop and offer our clients the best solutions for any directional drilling challenge the industry has to offer today.

WELL TYPES WE DRILL:



- Vertical (inclination control) wells
- Build-and-hold wellbore wells (J-shaped well)
- S-shaped wells
- Horizontal wells
- Multilateral wells

OUR DIRECTIONAL DRILLING SERVICES:



- MWD services
- Integrated directional drilling service (well trajectory design, BHA selection, development of directional drilling program, actual works and report upon completion of works)

02 | WORKOVER AND WELL SERVICING

We offer comprehensive services for onshore oil & gas wells workover and well servicing. In addition, we provide a range of completion services for newly drilled wells. Our Company offers the following types of well workover services:

- 2.1.** Workover of oil, gas, and injection wells
- 2.2.** Wellbore intervention related to drilling (sidetracking and well deepening)
- 2.3.** Recompletion in the other zone and commingling
- 2.4.** Remedial operations
- 2.5.** Elimination of leaks in the production casing
- 2.6.** Remedial cementing
- 2.7.** Production-Injection well conversion
- 2.8.** Well suspension, reactivation, and abandonment
- 2.9.** Well subsurface equipping
- 2.10.** Well operations parameters optimization
- 2.11.** Well preparation for bottom hole treatment
- 2.12.** Cleaning tubing from paraffin deposits with the SLICKLINE unit



2.1 | WORKOVER OF OIL, GAS, AND INJECTION WELLS

While carrying out workover operations for oil & gas wells, our Company remediates various failures of the wells operating mode, and the subsurface equipment. We carry out work packages to restore the bottomhole formation zone. One of the main tasks of our field development projects is to ensure optimal working conditions for productive formations, to achieve maximum development (extraction) of hydrocarbon reserves, and to solve problems of protecting the subsoil and the environment.



2.2 | WELLBORE INTERVENTION RELATED TO DRILLING (SIDETRACKING AND WELL DEEPENING)

Our company provides services for sidetracking (drilling new boreholes in an existing well) and wells deepening (drilling to deeper layers or expanding an existing drainage area).

2.3 | RECOMPLETION IN THE OTHER ZONE AND COMMINGLING

During the development of oil & gas fields, it may become necessary to return wells to overlying productive horizons. To this end, a cement bridge is placed in order to isolate the lower productive object from the upper one, as well as the subsequent perforation of the upper object is carried out.

2.4 | REMEDIAL OPERATIONS

Our fishing team has highly qualified experts and has got the most full & complete set of various fishing equipment.

We offer optimal solutions, high quality services and strict adherence to safety, health and environmental protection requirements.

Our effective fishing operations allow our clients to reduce the downtime and avoid financial losses.

2.5 | ELIMINATION OF LEAKS IN THE PRODUCTION CASING

Repair of the casing or the liner allows to repair damage and restore rated well production.

We offer our clients a wide range of technological solutions for the elimination of damage to casing strings and liners.

2.6 | REMEDIAL CEMENTING

Water inflow limitation/isolation of water-bearing intervals in oil & gas wells applying polymers and magnetic substances is performed to isolate/limit water inflow into the producing well.

The technology is based on creating and placing an isolation screen in required intervals of the productive horizon by magnetic field. Unlike other methods of isolation and water inflow limitation, the proposed technology provides the possibility of selective interval treatment.

This technology is also practicable to ensure the cement integrity when the use of a packer proves to be ineffective. Pumping down the cement slurry containing polymers and magnetic substances increases the strength of the isolation screen in the required intervals.

This technology is implemented using the standard field equipment by running a special magnetic field generator into the well. Technology is highly efficient due to the use of standard equipment and low chemicals consumption.

In order to create watertight screens in the productive reservoir, cement slurry with added magnetic substances are used. Under the influence of magnetic fields generated inside the wells strong isolation structures are formed in the reservoir that shut off water bearing intervals/zones. This technology is successfully applied in the oil fields of Turkmenistan.





2.7 | PRODUCTION-INJECTION WELL CONVERSION

Submersible electric centrifugal pumps (ESP) are widely used by our customers at many oil fields. This is an effective and reliable method of artificially lifting oil to the surface, however, such equipment has a limited overhaul life. Our company provides high quality services for the quick replacement of ESP installed in wells.

Our proposed enhanced oil recovery methods (for example, water injection or CO₂ injection) can prove to be an effective reservoir development strategy to enhance oil recovery at our clients' fields. However, the achievement of positive results can often be hampered by economic and operational constraints, for example, where most of the wells at the field are old and with damaged casing or ineffective perforation and with other disadvantages that create a number of problems for our client when converting production wells to injection ones.

Yug-Neftegaz Private Limited offers comprehensive solutions to obtain the best results in solving these problems and maximize customer satisfaction.

2.8 | WELL SUSPENSION, REACTIVATION, AND ABANDONMENT

Yug-Neftegaz Private Limited performs well suspension, reactivation, and abandonment operations using coiled tubing units, workover and drilling rigs.



2.9 | WELL SUBSURFACE EQUIPPING

The bottomhole condition of our clients' wells may change over time (for example, as a result of an increase in water cut, depletion of reservoir pressure, etc.). The technologies we use are continuously being improved and modernized, that gives us the opportunity to offer and use new tools & devices, as well as new artificial lift systems in order to increase the productivity of the well.

Yug-Neftegaz Private Limited develops and offers re-completion solutions to meet a wide range of customer needs.

2.10 | WELL OPERATION PARAMETERS OPTIMIZATION

This service we offer to our clients, includes cleaning of wells from sand, deposits of inorganic salts and organic matters to improve the flow of hydrocarbons to the surface.

The Company carries out works on replacement of tubing (partial or complete). Usually, our clients require this service where their tubing has the following defects:

- ▀ threaded tubing connections are worn out and leak compressed gas (air) into the string,

- ▶ holes, cracks, cavities or corrosion are found on the tubing,
- ▶ salts and paraffin are deposited on the inner surface of the tubing, and they cannot be removed without lifting the tubing,
- ▶ the tubing diameter must be reduced or enlarged, or where the configuration or design of the tubing must be changed.



ACIDIZING WORKS USING MK-30T COIL TUBING UNIT

2.11 | WELL PREPARATION FOR BOTTOM HOLE TREATMENT

Preparation of the well for the bottomhole treatment is performed in order to restore and increase its filtration properties, to increase the productivity of production wells and injectivity of injection ones.

In the wells where the subsurface equipment does not allow the BHT works, then subsurface equipment and the tubing string is POOH, as well as other necessary equipment, is run in hole.

The choice of the BHT method is made on the basis of studying the reasons for the low well productivity, taking into account the properties of the rocks and their saturating fluid.



2.12 | CLEANING TUBING FROM PARAFFIN DEPOSITS WITH THE SLICKLINE UNIT

The SLICKLINE unit allows us to perform work in oil and gas wells with a maximum pressure of up to 350 atm and a depth of up to 6000 m. Having a large assortment of downhole equipment, the Company is ready to provide services for various types of well operations: tubing gauging, cleaning tubing from paraffin deposits and corrosion, removing the impact rod after perforating the tubing, removing instruments, pieces of wire and cable from the well, running lead seals, perforating technological holes for circulation using a rope pipe perforator, using a hydrostatic bailer, developing wells using swabbing equipment.

03 | BOTTOM HOLE TREATMENT

- 3.1.** Chemical treatments
- 3.2.** Hydraulic fracturing
- 3.3.** Sand jet perforating job



3.1 | CHEMICAL TREATMENTS

Chemical treatment of the bottomhole formation zone is a part of our services package. A wide range of acid compositions developed by the experts of our Company is widely used to improve the condition of the bottom zone of oil, gas and injection wells.

We effectively apply bottomhole acidizing to improve or restore bottomhole performance in carbonate and sandstone reservoirs.

The Company has several well acidizing units. This equipment is capable of performing acid treatments at pressures below the fracturing pressure (low pressure) and above the fracturing pressure - acid fracturing (high pressure).



The research laboratory of Yug-Neftegaz Private Limited develops and constantly improves acid compositions and expands their area of application.

3.2 | HYDRAULIC FRACTURING

Our proprietary self-engineered fluids for hydraulic fracturing are designed for improving the properties of the reservoir and increasing the production of hydrocarbons at the fields with low recovery factor. The modern fleet of equipment provides us with ability to carry out efficient hydraulic fracturing.

Our Company performs real-time fracturing simulations using the Meyer MFrac software package, which allows us to optimize operating parameters based on the reservoir properties. We ensure the disposal of waste generated during the completion of work, with monitoring, and control over the protection of the environment.

The proper and correct calculation, selection of the composition of the fracturing fluid and the reasonable application of our hydraulic fracturing fleet are important factors in the efficiency & success of our hydraulic fracturing operations.



3.3 | SAND JET PERFORATING JOB

Sand jet perforation method is based on the use of kinetic energy and abrasive properties of fluid/sand mix jet flowing out of perforating gun nozzles at high speed and directed to the wellbore wall. Within the short period of time the fluid/sand mix jet forms a hole or a slot in the casing and a channel in the cement and formation. Standard concentration of sand in the composition is 30-60 kg/m³.

Compared with traditional methods of cumulative perforation, this kind of perforation practically excludes negative effects of blasting loads on the formation and the production string whereas the resultant holes are much larger than when using shaped charges under similar conditions.



04 | COILED TUBING SERVICES

To perform various operations in wells, our Company has advanced modern coiled tubing units.

The use of coiled tubing technologies allows us to reduce the duration of drilling, well completion and workover, as well as reduce the recovery time by using the obvious advantages of this technology, such as mobility, quick installation, quick tripping operations, etc.



COILED TUBING SERVICES



- 4.1.** Sand plugs clean out
- 4.2.** Well kill
- 4.3.** Nitrogen kick-off (liquid nitrogen)
- 4.4.** Bridge plug/packer setting
- 4.5.** Cement plug placement
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- 4.8.** Bottom hole treatment
- 4.9.** Fishing

05 | DRILLING EQUIPMEN RENTAL

Our company is ready to provide engineering services for vertical, directional and horizontal wells drilling, as well as to lease the following drilling equipment:

- 5.1. Downhole motors
- 5.2. Jars
- 5.3. Drilling bits
- 5.4. Tubulars (DP, HWDP, DC, NMDC)
- 5.5. Stabilizers
- 5.6. Other drilling equipment



06 SERVICE OF DRILLING EQUIPMENT

In 2020, we built and commissioned a workshop for the repair & maintenance of drilling equipment in Turkmenistan.

The list of equipment we service today includes:

- 6.1.** Downhole motors
- 6.2.** Jars
- 6.3.** Tubulars (DP, HWDP, DC, NMDC)
- 6.4.** Stabilizers










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