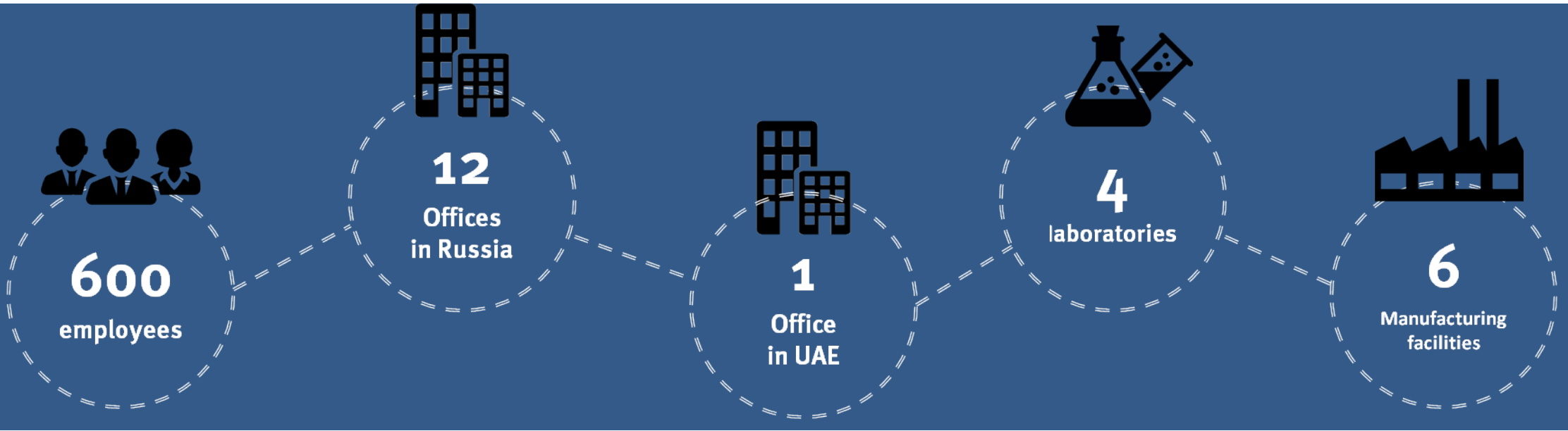


SOLUTIONS FOR THE COMPANIES OF OIL, GAS AND CHEMICAL INDUSTRIES



KREZOL GROUP PROFILE





QHSE



High quality service and the pursuit of perfection allow to satisfy even the most stringent requirements of our customers and remain competitive in the petrochemical market.

Our company has a quality assurance system for the development and production of products that is certified by:

- Quality Management System (GOST ISO-9001-2011 (ISO 9001:2008))
- Quality Management System (GOST R ISO/TU 29001-2007 (ISO ITS 29001:2010))
- Environment Management System (GOST R ISO 14001-2007 (ISO 14001:2004))
- Health and Safety Management System (GOST R 54934-2012 (OHSAS 18001:2007))



OUR CLIENTS

Schlumberger



HALLIBURTON





ACTIVITY AREA

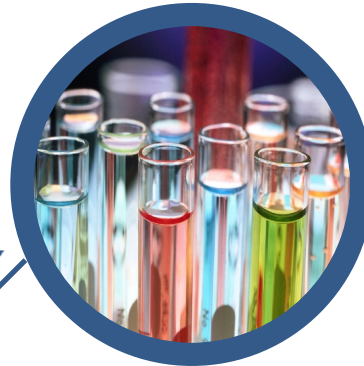
CHEMICAL REAGENTS PRODUCTION AND SUPPLY; SERVICE:

- *Oil Production Stimulation*
- *Well killing*
- *Blocking compositions for well repair works*
- *Squeeze cementing and water isolation*
- *Hydrofracturing*
- *Technical solutions*





*CHEMICAL REAGENTS
PRODUCTION AND SUPPLY*

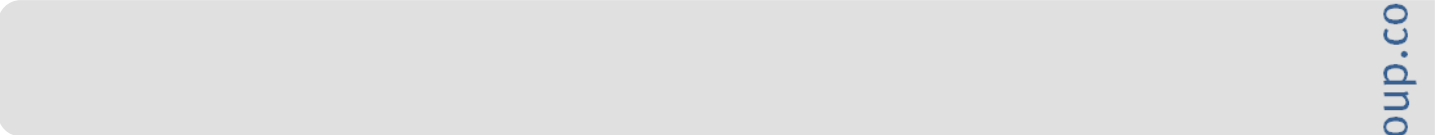




CHEMICAL REAGENTS PRODUCT RANGE «KREZOL GROUP» FOR INTEGRATED CHEMICALIZATION



- ACID COMPOSITIONS OF INTEGRATED ACTION
- BLOCKING COMPOSITIONS FOR WELL REPAIR WORKS
- SOLVENTS OF ASPHALT-RESIN-PARAFFIN DEPOSITS FOR OIL AND GAS WELL TREATMENT
- SCALE INHIBITORS
- DEMULSIFIERS
- HYDROGEN SULFIDE SCAVENGER AND LIGHT MERCAPTANS
- CLAY INHIBITORS FOR DRILL MUD
- DRILLING MUD LUBRICANT
- CORROSION INHIBITORS
- BACTERICIDES
- OXYGEN SCAVENGERS
- COMPLEX COMPOSITION FOR PREPARING OF VISCOELASTIC GEL-DIVERTER OF ACID COMPOSITIONS
- DRY ACID MIXTURES FOR PREPARING OF HYDROCHLORIC-ACID AND ACID-CUT CLAY MUDS
- DRY MIXES AND SOLUTIONS BASED ON THEM FOR KILLING FLUIDS PRODUCTION



OILFIELD SERVICE



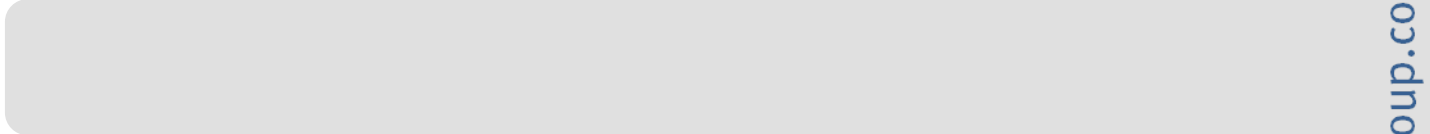
WELL STIMULATION

WELL KILLING

*SQUEEZE CEMENTING
AND WATER ISOLATION*

HYDROFRACTURING

TECHNICAL SOLUTIONS



*STIMULATION
OF OIL PRODUCTION*





BOTTOMHOLE TREATMENT



High-tech bottomhole treatment

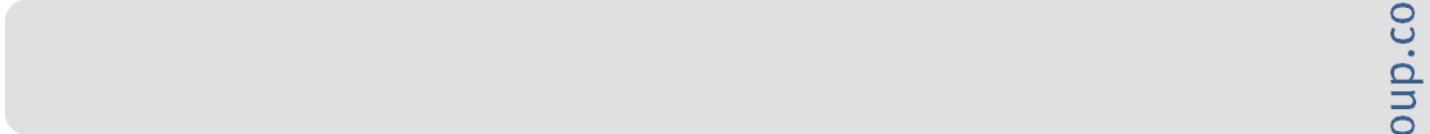
Using of a downhole water jet and impulse equipment with chemical methods
Chemical diverters Injection



Low-tech bottomhole treatment

Injection into formation of a standard hydrochloric acid solution with chemical additives (*corrosion inhibitors, demulsifier, dispersant, iron control*)



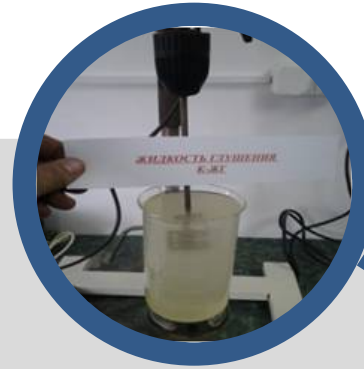


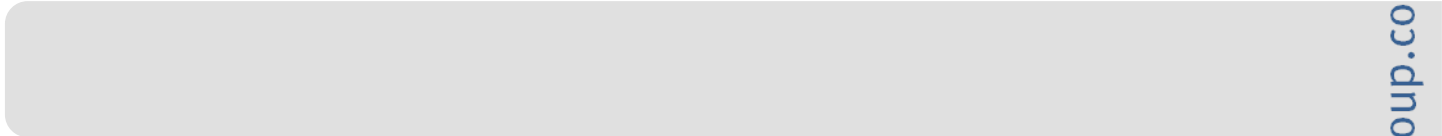
WELL KILLING



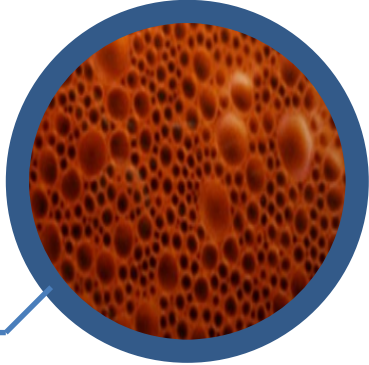
WELL KILLING FLUIDS

Krezol group produces a wide range of saturated liquids for non-damaged killing of injection and production wells, aimed at reducing the negative impact of highly mineralized solutions on the formation, preservation of filtration-capacitive properties of bottomhole formation zone, permeability restoration after the completion of the well workover.





*BLOCKING COMPOSITIONS
FOR WELL REPAIR WORKS*



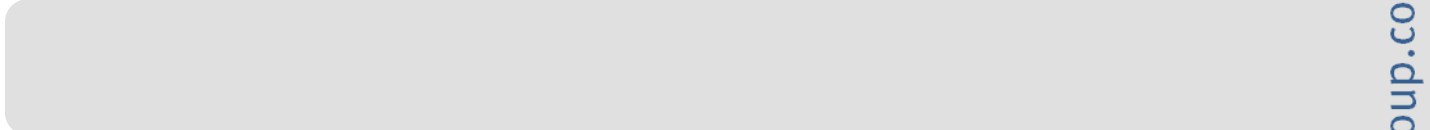


INJECTION TECHNOLOGY OF BLOCKING COMPOSITION

The composition which blocks formations during wells repair is developed to prevent well absorption.

Blocking composition is a three-component system that forms water-and-gastight silicone mass with high adhesive ability.



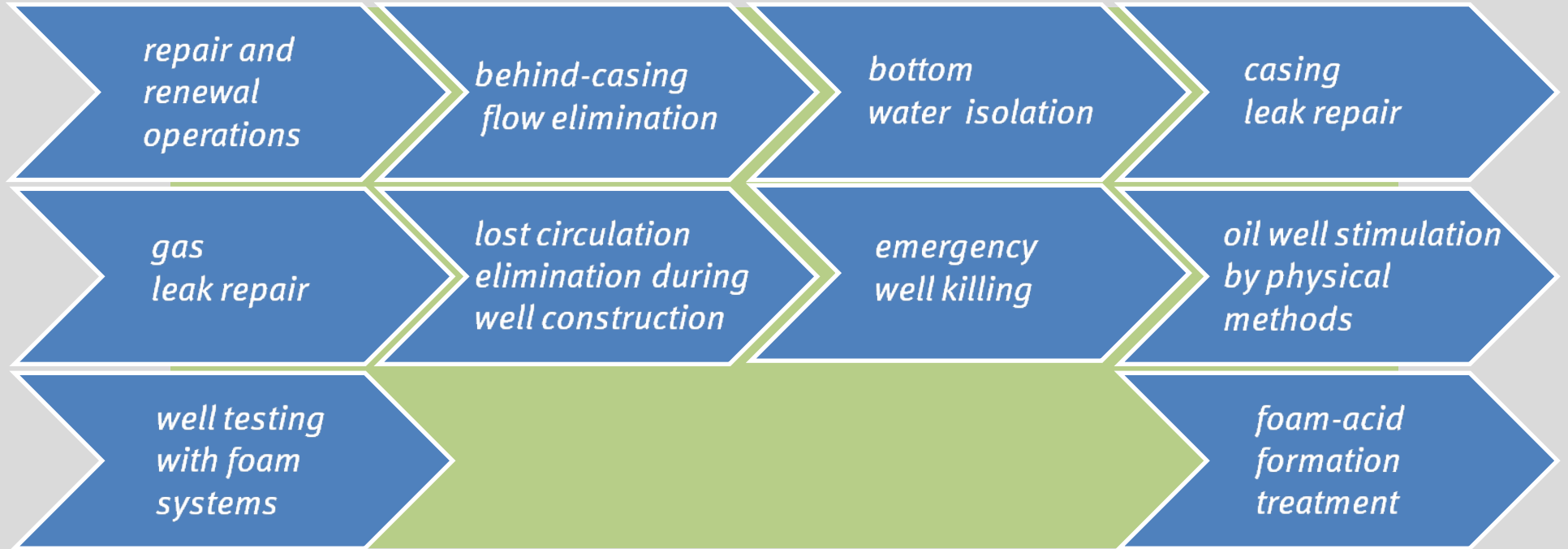


*SQUEEZE CEMENTING
AND WATER ISOLATION*





RANGE OF WORKS ON CONSTRUCTION AND PRODUCTION WELLS





TECHNOLOGY

Physical and chemical transformation of water solutions coagulant into plastic mixture in contact with electrolyte.

Technology basis



Chemical reagents

Own-produced reagents, calcium chloride, sodium silicate and some other.

The resulting materials properties

High structural and mechanical characteristics, are not soluble in oil and water, have resistance to high temperatures (from 0 up to 180 C°).

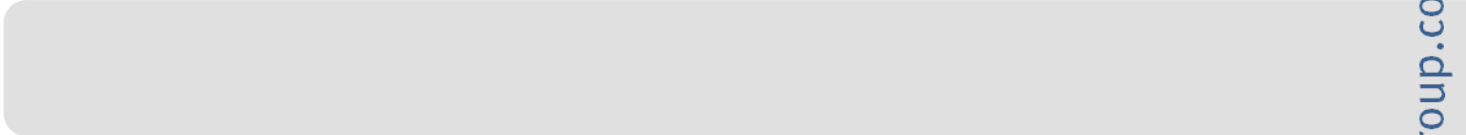
The essence of technology

Multi-staged well plugging, including pumping chemicals into well to create waterproof viscoelastic barrier in the isolation zone with modified cementing slurry.

MORE

VIDEO 1

VIDEO 2



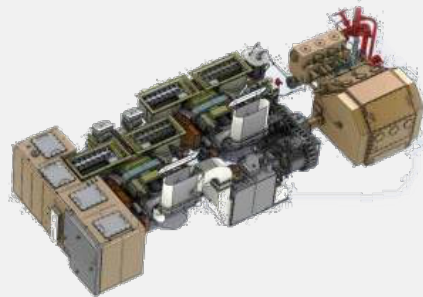
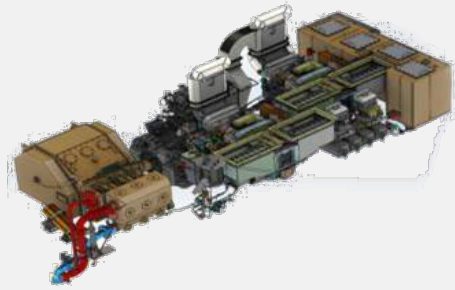
HYDROFRACTURING





HYDROFRACTURING EQUIPMENT PACKAGE

PUMPING UNIT



MANAGEMENT AND CONTROL STATION





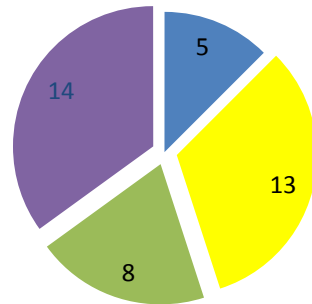
HYDROFRACTURING EQUIPMENT PACKAGE





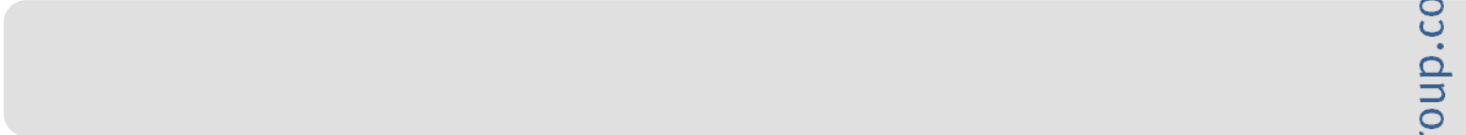
HYDROFRACTURING EQUIPMENT PACKAGE PERFORMED OPERATIONS

Hydrofracturing, acid fracturing performed operations – Quantity of job



- Hydrofracturing in "KrasnodarNeftegaz" (subcontractor: "Purnefteotdacha")
- Acid fracturing in "GazpromDobychaOrenburg"
- Acid fracturing in "Orenburgneft"
- Large-volume bottomhole treatment in "Orenburgneft"





TECHNICAL SOLUTIONS





SLOT PERFORATOR

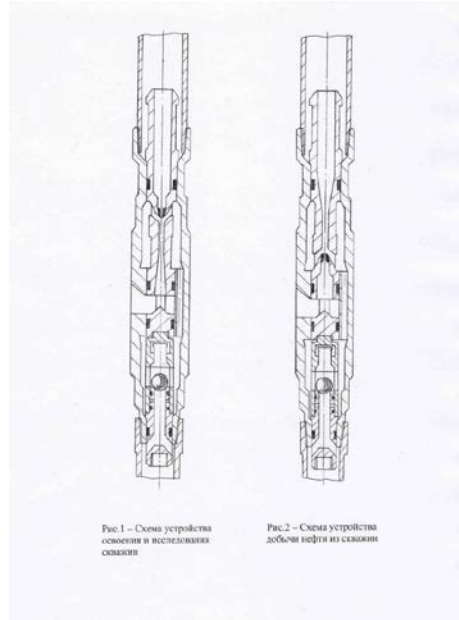
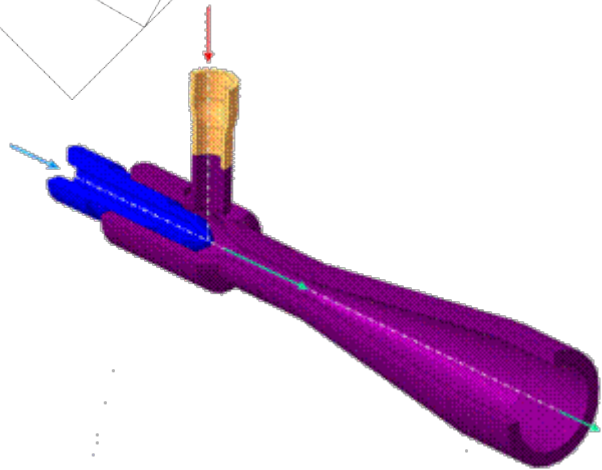
Slot perforators form in a partial load mode rectangular cross-section holes with the area which exceeds manifold than under perforation with a box perforator, preserving geometrical sizes of a production string.

- *lack of negative impact on production string and cement stone in comparison with cumulative perforation;*
- *possibility of acid bottomhole treatment through holes in the perforator by water-jet under high pressure without additional tripping;*
- *drilling in with a close arrangement of water-bearing interlayers and also in case of bad quality behind-casing cement without negative consequences;*
- *perforation after squeeze cementing with the purpose of preserving the integrity of a behind-casing cement stone;*
- *it is applied in well horizontal shaft with production string diameters from 102 mm to 245 mm;*





WELL TESTING AND OIL PRODUCTION DEVICE



The device is a multifunctional jet plug-in type pump, which design and application technology provides the following operations:

- Decrease in pressure drawdown only under packer well space and swabbing from formation. At the same time the possibility of oil blowout and casing collapse is excluded.*
- Deep drainage and well cleaning out by exposure to cyclic reversal load in the drawdown - overbalance mode.*

- Acid or chemical injections under pressure and selection of acid reaction products from reservoir in time required on technology.*
- Hydrodynamic well survey for the purpose of an initial and final condition assessment of a bottomhole treatment by record and pressure build-up curve interpretation. Hydrodynamic parameters record and comparison can be carried out in case of various reservoir drawdown.*
- Oil extraction from a well.*

VIDEO



Thank you for your attention!

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