

HYDRAULIC MONITOR GM-73 "MOSKIT"

Technology of hydraulic jetting aimed at effective well bore cleaning and matrix stimulation of bottom hole formation zone.

FIELD OF APPLICATION

Carbonate and terrigenous reservoirs; wells prone to deposition of organic and inorganic sediments, including complex sediments. Cleaning of well bore filter, colmatant screen removal in bottom hole formation zone, matrix foundation stimulation.

ADVANTAGES

The technology allows:

- - producing pulsations and low-frequency high-amplitude oscillations with any intensifying reagents, including acidic complexes;
- - producing a jet of active fluid, including an acidic complex jet;
- - stimulating the well near oil-water and gas-liquid contacts as well as in the water cut areas;
- - applying "standard equipment" for oil recovery enhancement

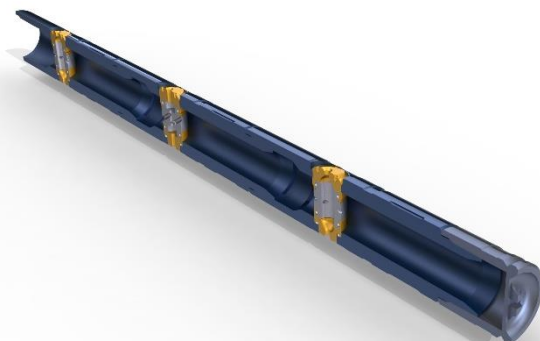
SOLUTION COMPARISON

Hydraulic monitor jet enhances the effectiveness of working fluids and doubles the depth of formation treatment in comparison with chemical reagent injection according to the standard technology. The radial jet produces pulsations and increases the sweep and the depth of stimulation due to the redistribution of pressure over lower and higher inter-layers.

CHARACTERISTICS

The engineering solution is based on Helmholtz resonator, the spray nozzle and the radial nozzle.

The bottomhole assembly is resistant to hydrogen sulfide and acid components.



Jet nozzles and centrifugal chambers improve efficiency with small volumes of chemicals

ENGINEERING DESIGN

Works performed according to the hydraulic monitor jetting technology with the use of GM-73 "Moskit" are planned and optimized in production casings with nominal diameter exceeding 114 mm. They guarantee better performance and cost-efficiency in comparison with the "standard technology" of matrix formation stimulation.

EQUIPMENT CHARACTERISTICS

Outer cylinder diameter, mm	73,0
Length, no less than, mm	850,0
Coupling thread	NKT-60 GOST 633-80 (tubing)
Maximum operating pressure, No more than, MPa	20
Flow rate, no more than, l/s	20

SAFETY

Equipment GM-73 complies with safety requirements of Technical regulations of the Custom Union "On safety of machines and equipment" (TR CU 010/2011). The declaration is included in the Unified State Register of certificates and declarations of compliance. Registration number: EAEU № RU Д-РУ. PA08.B.73411/22.

