



Technology of waterproofing

**Technology of re-extracting gas and oil from
the old well after insulation the water flow in the well.**

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Technology of waterproofing

- The technology lies in the injection of the polymer into the oil or gas well, based on its geographical properties.
- The technology allows to insulate и liquidate the water flow of the oil and gas wells

IMPORTANT

The oil, which is not extracted with existing methods of the exploitation, is 55 - 75 % from the original geological reserves in the bowels of the earth.

This huge reserve of increasing the extracting is used by our Technology of increasing the productivity of the layers.

Similar technical decisions of the methods of the water insulation

- ❑ Use of cement solution
- ❑ Application of backfill mixtures based on the polymers on the epoxy base
- ❑ Composites, which contain polymer binding agent and ...% hydrochloric acid
- ❑ Organic-silicon composition
- ❑ Gels, etc.

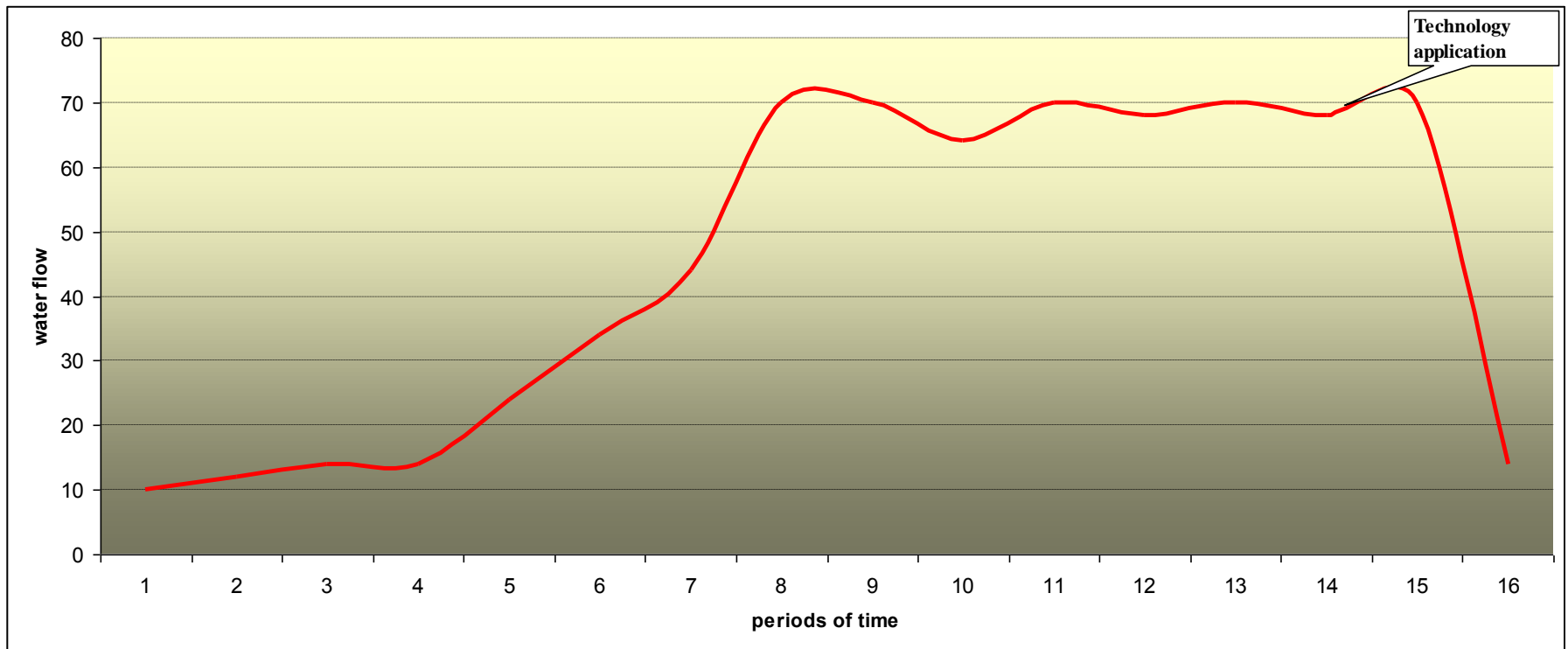
Effectiveness

Known methods of oil extracting provide the coefficient of oil recovery 0.25 -0.45

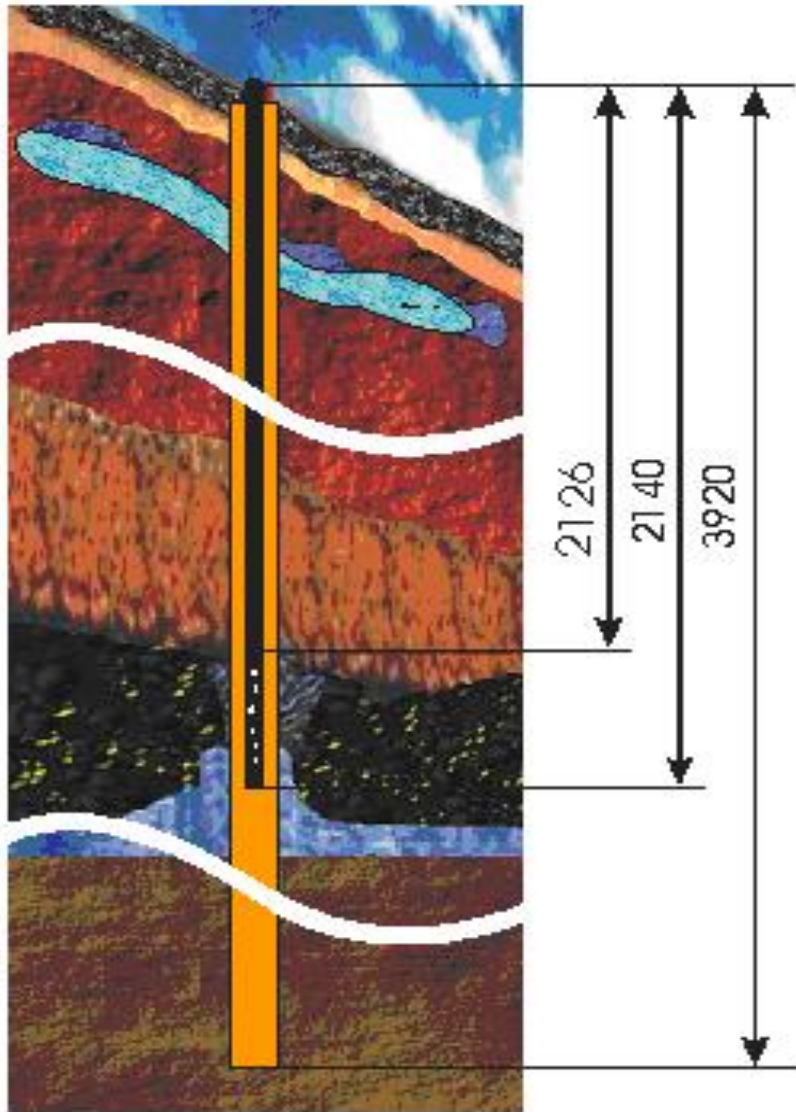
The application of our Technology increases this index till 0.8-0.95

Dynamics of irrigation

- Water intrusion in the extracted product
- Constant increase of yield of water
- Sharp spasmodic increase of the water flow
- Stabilization of the waterization



Experience of the application



Technology of the water insulation was used at the depth from 1500 to 3400 m

Temperature regime from +60 to +150 C°

Terms of application

1. The concentrate of the polymer is composed during 20 days after providing by the Customer all the necessary information and definition of the wells for application.
2. The term and the way of the delivery of the polymer depends on the geographical location of the well.
3. The application of the Technology in the immediate oilfield (preparation, injection, polymerization) depends on the geophysical characteristics and is defined particularly for every well.
4. Based on the accumulated experience it may take about 15-45 days.

WE OFFER

- ❑ Methods, upheld with the patents, of the insulation from the water flows of reservoir waters into the well
- ❑ Polymer of the original composition
- ❑ Methods of the application of the Technology
- ❑ Algorithm of the optimum effectiveness according to the conditions of every well



For the advanced estimation of the workload the Customer provides the information

1. Data of the geophysical and hydrodynamic researches
2. Fluid saturation of the layers
3. Layer pressure, temperature: initial and in dynamics
4. The latest data of geological production researches
5. Construction of the well (its draft), pressure of the compressing
6. Quality of the cementation throughout the depth

For advanced estimation of the workload the Customer provides the information

7. Interval of the perforation
8. Depth of the oil-water contact
9. State of the packers
10. Porosity, permeability of the oil-bearing layer
11. Latest data of the yield of oil and water
12. Construction of the well mouth (types of the tower head and fountain armature)
13. Data about the repair of the well, trials of the stimulation of the production (history of well)

List of the necessary information can be changed depending on the offered well

Yours Faithfully,
ALI FARAJ
Director of
Syrina – Waterproofing

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