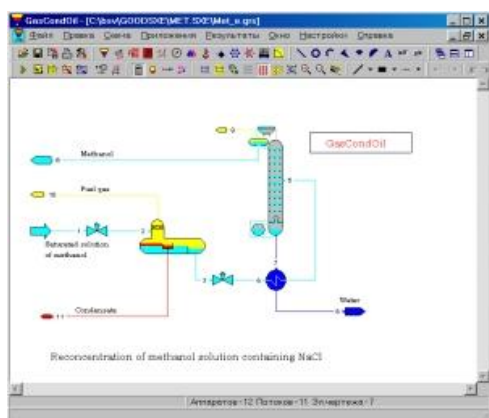
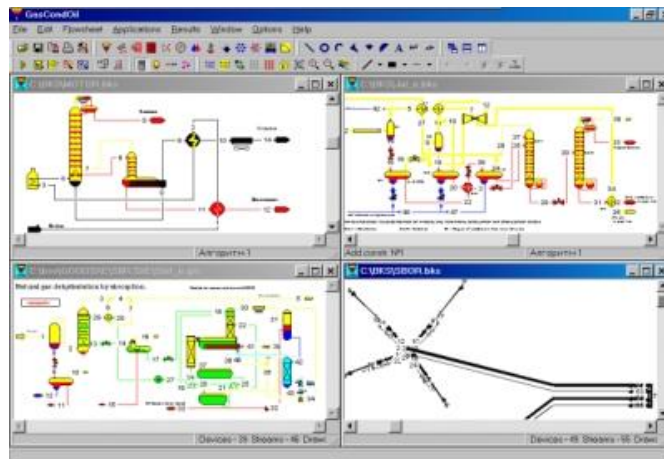


GasCondOil

Process simulation software for natural gas and oil engineering

SIMULATION OF:

- Composition of gas-condensate and oil well production with adaptation to laboratory properties data (recombination procedure).
- Single- and multi-phase transportation and field-gathering of wells production.
- Multiphase behavior of gas - condensate (oil) - mineralized water - methanol - glycols mixtures, thermodynamic and transport properties of gas and liquids.
- Two- and three-phase separation, throttling, mixing, ejection, expansion, compression, heat exchange, absorption and distillation (glycol dehydration of gas, reconcentration of glycols and methanol, stabilization and fractional distillation of condensate and oil, low-temperature processing).
- Hydrate- and ace-forming conditions, inhibitors expenditure, vapor pressure, Reid vapor pressure, water and hydrocarbons dew points.



Calculation-graphic simulation means contain subsystem for creation and editing of apparatus images and process flow diagrams. There exists the possibility of the transfer of graphic components and results of calculation to WORD or EXCEL.

MIXTURE COMPONENTS:

Hydrocarbons, helium, nitrogen, oxygen, carbon dioxide, hydrogen sulfide, sulphur-organic compounds, water, methanol, glycols (EG, DEG, TEG), sodium and calcium chlorides, condensate (oil) fractions. Minimum input data for fractions - boiling temperature intervals. In addition it is possible to use laboratory data on molecular mass, density, viscosity and solidification temperature of fractions.

APPLICATION LIMITS:

$70\text{ K} < T < 700\text{ K}$, $0.003\text{ MPa} < P < 100\text{ MPa}$. Boiling temperature of condensate and oil fractions - from 20°C to 700°C .

Comparison of the GasCondOil-Program with known analogs shows the same accuracy for hydrocarbon mixtures and better results for Hydrocarbons - Aqueous solutions Systems containing methanol, glycols and salts.

National Academy of Sciences of Ukraine, [Gas Institute](#), Kiev.
Scientific & Technical Firm THERMOGAS Ltd.

E-mail: ThermogasLtd@ukr.net
Web: <http://GasCondOil.com>