



Services on the oil and gas market from proposal of potential area to completion of field exploitation

ABOUT COMPANY

OUR GOAL:

Recognition of the Company as a reliable, open and stable partner that can meet and exceed the Customer's expectations.

COMPANY POLICY:

- ✓ Implementation of new approaches in the field of hydrocarbon prospecting and exploitation to increase their production;
- ✓ Meeting Customers' requirements, ensuring their needs and expectations. Gaining the Customer's confidence by verification of working results in practice.

OUR ADVANTAGES:

- ✓ Decades of the Company's operation experience in oil and gas market, attraction of highly skilled professionals in geoscience in combination with an individual approach to the solution of specific task;
- ✓ Prompt performance of the task, high quality of work and flexible pricing, optimal combination of traditional methods, production experience and modern scientific achievements.



SERVICES

- ❑ HYDROCARBON FIELDS PROSPECTING AND EXPLORATION
- ❑ PRODUCTION INCREASE ON THE DISCOVERED FIELDS
- ❑ COMMERCIAL GEOLOGICAL MONITORING OF THE FIELD DEVELOPMENT

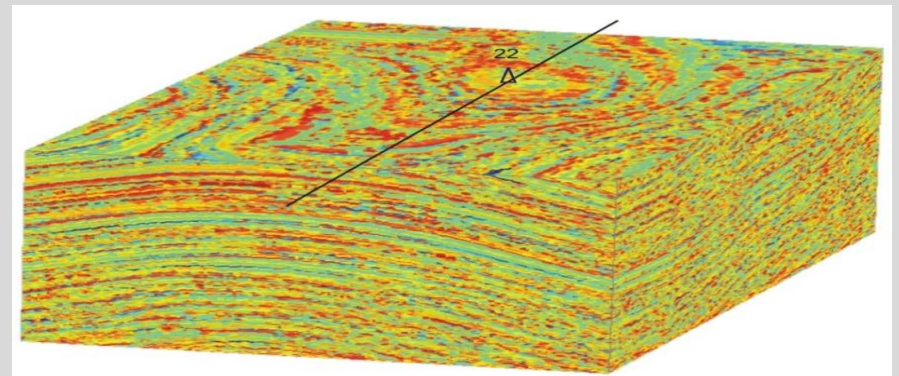
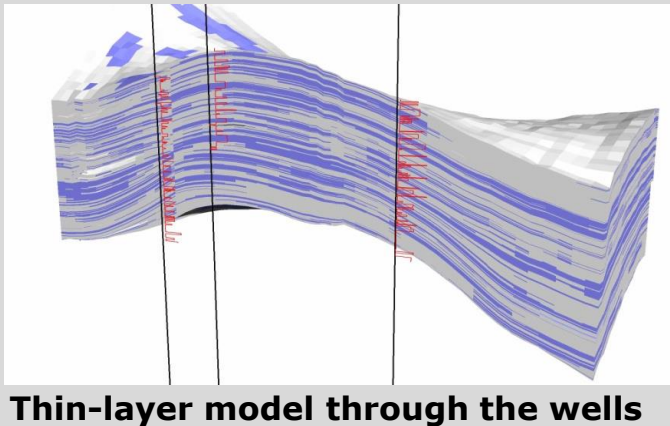
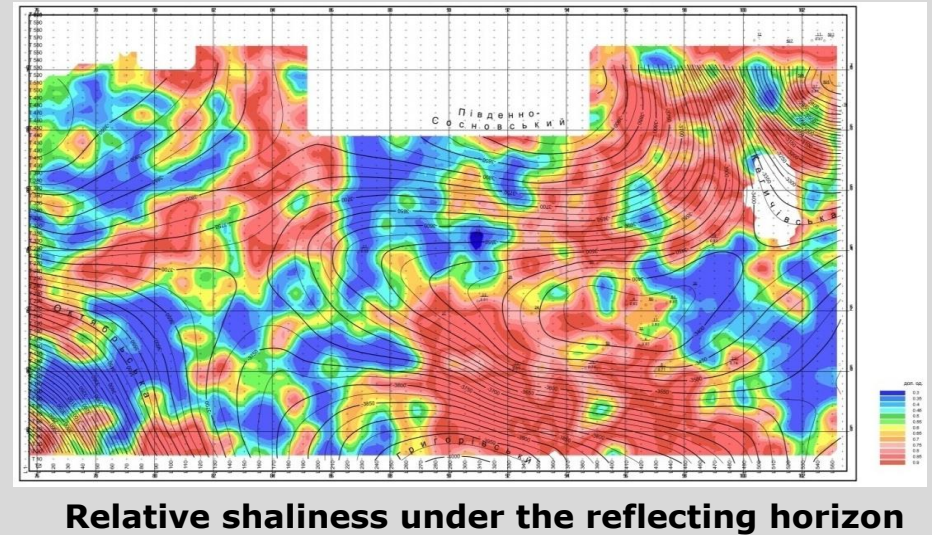
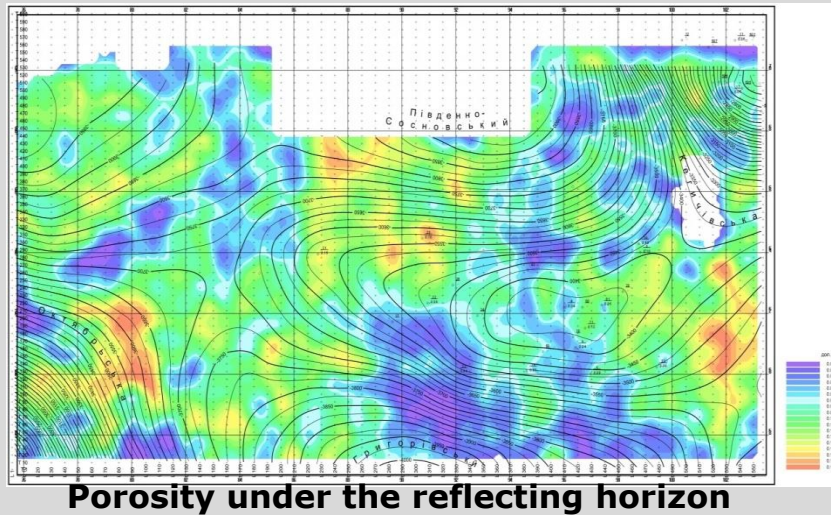


□ HYDROCARBON FIELDS PROSPECTING AND EXPLORATION

- ✓ study and analysis of geological potential and earlier performed exploration activities within the work area;
- ✓ geological exploration data revision considering new interpretational models and vision of the geological structure;
- ✓ recommendations for further geological exploration work (additional study by geophysical methods, drilling, research and industrial development, etc.);
- ✓ entering of hydrocarbon reserves on the state balance and their protection in accordance with the legislation.



Interpretation of seismic and other field geophysical survey data



Geological exploration data revision considering new interpretational models and vision of the geological structure

- ✓ Well sections lithological differentiation and correlation;
- ✓ Reservoirs identification and fluid content estimation;
- ✓ Assessment of the reservoir porosity and permeability;
- ✓ Analysis of complex reservoirs that may have commercial value;
- ✓ Old well stock logging data interpretation using new methods and approaches;
- ✓ Petrophysical modelling, validation and determination of layer parameters according to well logging data to estimate the hydrocarbon reserves by volumetric method;

Geological exploration data revision considering new interpretational models and vision of the geological structure

- ✓ Well logging control data interpretation using iterative process;
- ✓ Parametric provision of seismic survey and preparation of input parameters using well logging data to model hydraulic fracturing process;
- ✓ 3D geological modelling of fields and prediction of the reservoir porosity, permeability and fluid content using well logging data;
- ✓ Well logging summary expert conclusions, geological and economic evaluation of hydrocarbon reserves as a whole.

❑ PRODUCTION INCREASE ON THE DISCOVERED FIELDS

- ✓ Reservoirs stimulation;
- ✓ Searching and identification of additional (missed) layers and deposits;
- ✓ Changing the operating modes of the formation exploration;
- ✓ Research and analysis of geological potential of the area of work.

Reservoir stimulation

System processing method (OSMO, USA) developed for treating of perforation tunnels (holes) in the casing and near well bore area of oil and gas reservoirs.

OSMO technology ensures:

- ✓ From 10% to 30% increased oil and gas well production rate;
- ✓ Exhaustion of asphaltene and paraffin deposits;
- ✓ Increasing the efficiency of downhole equipment;
- ✓ Cleaning the existing asphaltene and paraffin deposits in the pipelines and increasing the pipeline lifetime;
- ✓ Separation of oil from water in tanks where it is stored.

logging through the production tubing

QUAD Technology by Roke Technologies Ltd (Canada) allows to estimate the reservoir parameters through the pipe and in the open hole.

QUAD Technology provides:

- ✓ reliable estimation of porosity;
- ✓ reliable estimation of the formation saturation by hydrocarbons;
- ✓ well column differentiation by permeability;
- ✓ effective porosity estimation;
- ✓ determination of the relative density and permeability of the deposits to clarify hydrocarbon saturation of productive intervals;
- ✓ well column lithological modeling;
- ✓ assessment of formation contamination caused by mud and cement.

Anticipated deliverables when using QUAD technology:

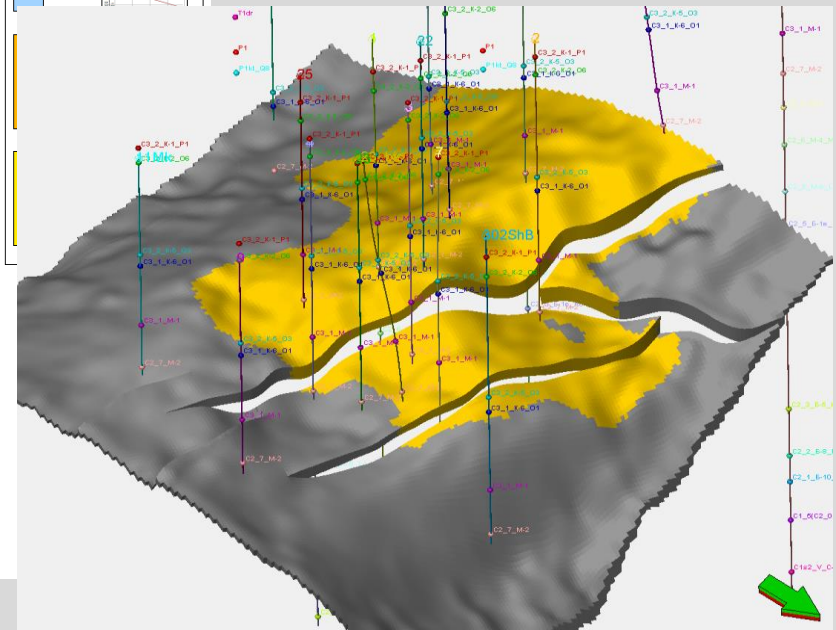
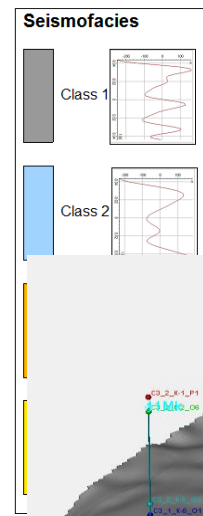
- ✓ Increased hydrocarbons production in some wells, and as a result - growth of hydrocarbon reserves of the field.



❑ COMMERCIAL GEOLOGICAL MONITORING OF THE FIELD DEVELOPMENT

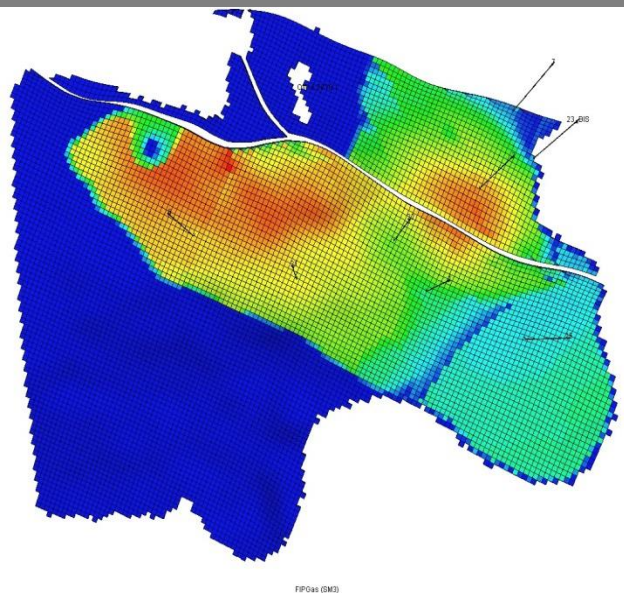
- ✓ Analysis and systematization of the source data, database creation;
- ✓ Seismic survey data processing and interpretation;
- ✓ Analysis of core, well logging data, results of downhole investigation and testing;
- ✓ Detailed well correlation ;
- ✓ Facies analysis;
- ✓ Geological modeling;
- ✓ PVT modeling;
- ✓ Hydrodynamic modeling, reconstruction of the production history and coordination with geological model;
- ✓ Technological solutions design;
- ✓ Permanent database updating and monitoring of the development process .

Porosity and permeability distribution within the reservoir according to well logging, seismic survey and drilling data.

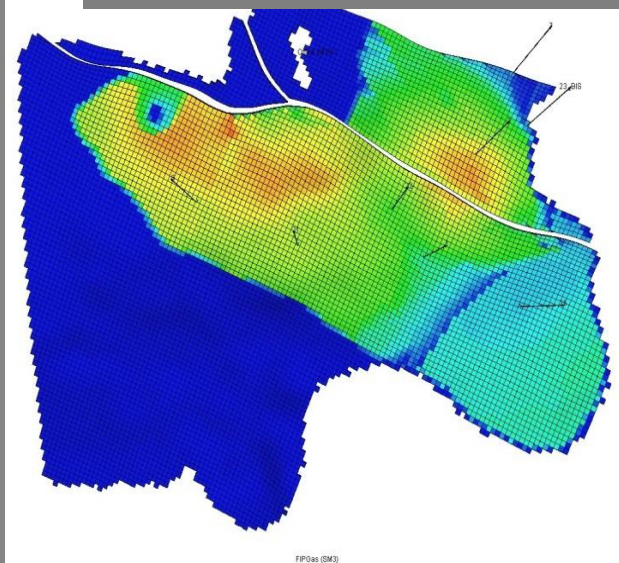


Permanent geological and technological models development

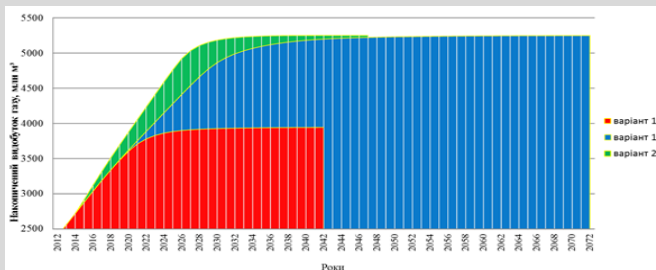
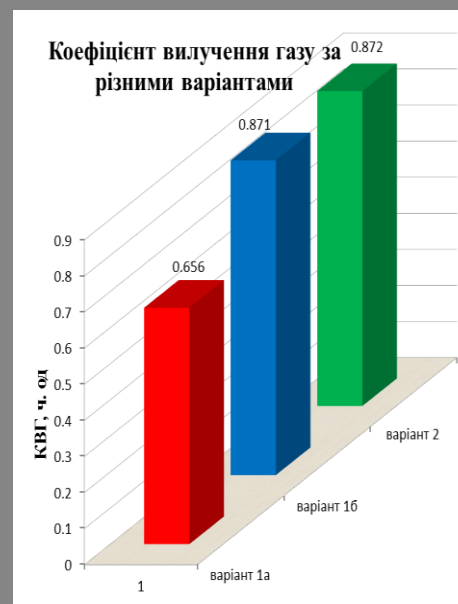
Map of remaining reserves distribution



Map of the remaining reserves distribution at the end of the forecast period



Gas extraction coefficient at different options





www.geodeltakb.com