

## RESUME OF THE AREAS WITH FAVOURABLE HYDROCARBON POTENTIAL

### 1. The Skibian zone of the Ukrainian Carpathians

(Ivano-Frankovsk and Chernovtsi regions).

In the process of seismic exploration two large structures were discovered within the area of 15 and 50 square kilometers. Cretaceous-Paleogene sediments of the platform cover under Carpathian overthrust have favourable hydrocarbon potential. Bedding depth is from 6 to 7 km. Inferred (geological) oil reserves total 120 million tons.

Acquiring seismic and exploratory drilling will be needed.

### 2. The North-Western part of Bilche-Volitska zone of the Precarpathian foredeep

(Lvov region).

Heavy oil deposits have been detected on three sites, direct indications of the oil presence have been located on one site.

The depth of productive horizons ranges from 1600 meters (Helvetian-Mesozoic sediments) to 3200 meters (Middle Jurassic sediments). Category C3 oil reserves total 5.34 million tons. The oil specific gravity ranges from 0.966 to 1.014 gramme per cubic centimeter, The tar content is 12- 27%. paraffin content is 0.5-2.36%. Detailed seismic acquisition, search and exploratory drilling will be needed.

### 3. Volhyno-Podolsk margin of the Eastern-European platform (Lvov, Volhyn, Ivano-Frankovsk regions).

The area with favourable hydrocarbon potential covers the surface of 26 thousand square km. Productive sequences are connected with Devonian, Silurian and Cambrian sediments. Bedding depth is less than 5 km. Inferred (geological) hydrocarbon resources total 142.6 million tons. A gas field has been discovered in the area with C<sub>1</sub> gas reserves totaling 7 billion cubic meters, and C<sub>2</sub> gas reserves totaling 3.6 billion tons.

Exploration activities in the region have been stopped due to complex geological structure and for absence of modern geophysical procedures and technologies for structure mapping.

Geophysical works for structure detection and preparation will be required as well as exploratory drilling.

### 4. Predobrudja foredeep

(Odessa region).

Devonian sediments have favourable hydrocarbon potential here in the area of 11.6 thousand square kilometers with inferred (geological) hydrocarbon resources totaling 79 million tons and bedding depth less than 5 km.

Two oil fields have been located here with proven reserves (category C<sub>1</sub> — 1.9 million tons; category C<sub>2</sub> — 7.3 million tons).

Search and exploration drilling is needed for commercial evaluation of discovered hydrocarbon reserves.

#### 5. Central part of the Dnieper-Donets depression (Poltava region)

Lower Carboniferous sediments in the area of 1.5 thousand square kilometers. Their bedding depth is 6 — 8 km.

Gas condensate deposits have been located at the depth of 5.8 — 6.3 km on three sites. 15 promising structures have been detected with predicted gas reserves of 150-200 billion cubic meters and predicted condensate reserves of 30 -50 million tons.

High precision geophysical works and search drilling are needed.

#### NOTE:

Some categories of the Soviet Minerals Classification:

C<sub>1</sub> — reserves, prepared with the certain grade of authenticity that enables the exploitational boreholes drilling:

C<sub>2</sub> — reserves that give the possibility to drill the exploratory boreholes to convert them into C<sub>1</sub> category;

C<sub>3</sub> — resources, calculated on the basis of geophysical data and prepared for deep drilling.

The above mentioned areas are situated on the territory of the sovereign Ukraine with developed network of railroads and motorways, pipeline system for oil and gas transportation. These areas are also provided with energy and water supply.

The Ukrainian State Committee on geology and utilization of mineral resources (Derzhkomgeologiya Ukrainy) incorporates production divisions, technical facilities and highly skilled personnel. They can undertake geophysical investigations, drilling and well testing in the aforesaid areas.

Packages of relevant information will be prepared for businessmen interested in cooperation.

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