

BLOCK 21

ORILSKO-BRUSIVSKA LICENSE

LOCATION

Orilsko-Brusivska block is located in Yuryivka, Novomoskovsk districts of Dnipro region and Sakhnovshchyna district of Kharkiv region. .Acreage of the block is 234.61 sq. km.

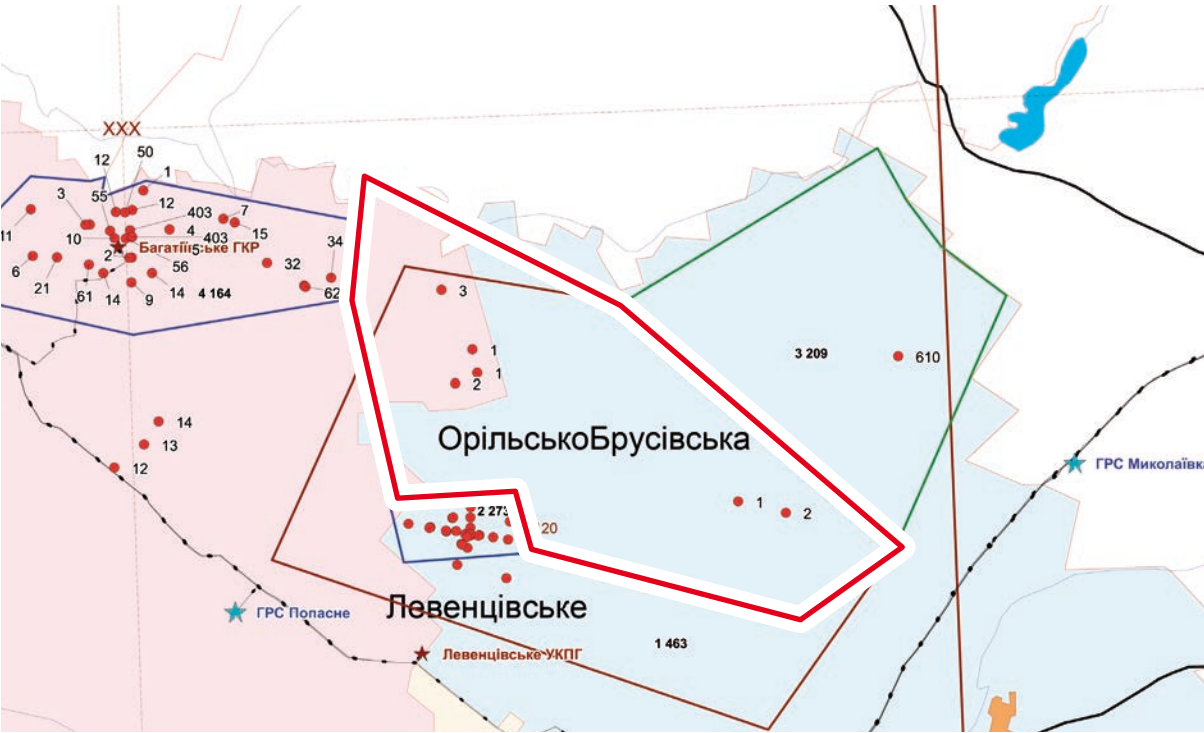
CONCESSION TYPE

Combined license for geological exploration with pilot and commercial development, and production of hydrocarbons. Duration - 20 years.

DEPOSITS DISCOVERED IN THE AREA

Leventsivske, Bohatoyske fields.

Map of Orilsko-Brusivska block



MAP SYMBOLS

Point Number	USK 2000, E			USK 2000, N			SK-42, E			SK-42, N		
	deg.	min.	sec.	deg.	min.	sec.	deg.	min.	sec.	deg.	min.	sec.
1	35	38	26.15	48	58	34.69	35	38	32.00	48	58	35.04
2	35	47	39.49	48	55	13.72	35	47	45.32	48	55	14.07
3	35	57	38.51	48	49	7.73	35	57	44.32	48	49	8.07
4	35	53	48.62	48	47	28.01	35	53	54.43	48	47	28.36
5	35	44	4.50	48	49	24.71	35	44	10.32	48	49	25.07
6	35	43	33.49	48	50	49.71	35	43	39.32	48	50	50.07
7	35	39	14.49	48	50	45.71	35	39	20.32	48	50	46.07
8	35	37	49.33	48	55	35.06	35	37	55.18	48	55	35.42

- well
- gas-distribution plant
- gas pipeline
- ORILSKO-BRUSIVSKA BLOCK

GEOLOGICAL CHARACTERISTICS

The block belongs to the southern cutoff part of the Dnipro-Donets depression. Orilsko-Brusivska block is located in the Rudenivsko-Proletarskyi oil and gas region, where explored productivity of the wide stratigraphic range from the Devonian to the Bashkirian sediments. For example, at Leventsivske field, the commercial gas content is discovered at the Bashkirian and Serpukhovian stages of the Carboniferous.

Orilsko-Novosandrivska structure was explored within the block by the seismic surveys at the Tournai stage. It is predicted that hydrocarbon traps can be combined, tectonically and lithologically screened. By analogy with the neighboring Bohatoyske and Leventsivke fields, gas deposits are expected at a depth of 3.0-5.0 km in the sandy horizons of the Bashkirian and Serpukhovian stages, as well as at carbonate deposits (B-24-26, T-1-2).

The Brusivska structure on the lower Visean deposits is partly located within the boundaries of the block. The structure is a low-amplitude anticline. By analogy with the Leventsivske field, gas deposits are expected in the terrigenous horizons of the Bashkirian (B-13), Serpukhovian (C-2-7, C-14-21) stages at depths of 2000-3000 m.

SURVEY INFORMATION AVAILABLE

Assessment of hydrocarbon resources (Ukrainian classification)

The Brusivska structure on the lower Carboniferous has undiscovered inferred resources of natural gas (category D1) 2.53 million m³. The density of undiscovered inferred resources (categories C3-D) in the block are 30-50 thousand tons of hydrocarbons per sq.km.

Well data

Information about wells drilled is available at the repository.

Seismic surveys

Year of surveys	Number of lines	Number of linear km	Fold
1974	7	109,24	12
1976	1	11,0	12
1979	2	21,48	12
1980	2	22,8	12
1984	16	195,81	12
1986	7	116,46	12-24
1988	1	20,6	48
1992	1	23,52	24
1998	5	82,0	24-48
2002	12	170,9	24-48
2003	23	335,48	24-48
2006	16	198,15	48
2007	3	48,87	48

EXPLORATION WORK PROGRAM REQUIREMENTS

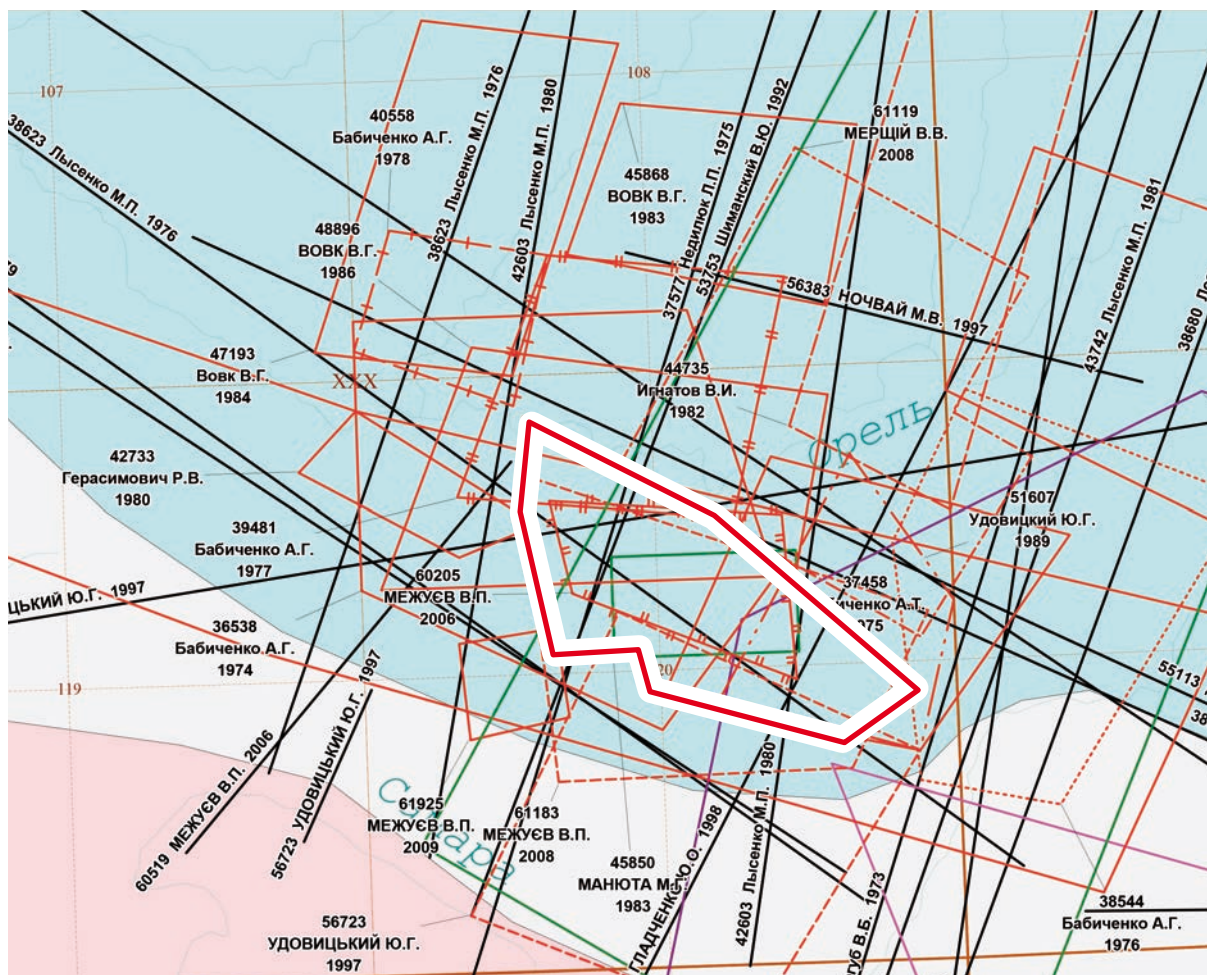
Stage I (12 months) - processing and reinterpretation of 2D seismic data;

Stage II (12 months) – acquisition of 2D or 3D seismic data on ¼ of the block's area;

Stage III (24 months) – one productive well drilling.

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Map of geophysical surveys and seismic lines



MAP SYMBOLS



1:25 000



1:50 000



1:100 000



geophysical survey



seismic lines



ORILSKO-BRUSIVSKA
BLOCK



survey with no mapping

45860 report number

Рогов А.М. author of the report

1982 year of the report