

BLOCK 13

OPOLONIVSKA 1 LICENSE

LOCATION

Opolonivska-1 block is located in Borzna and Bakhmach districts of Chernihiv region at a distance of 10 km to the west of Bakhmach city. Acreage of the block is 247,87 sq. km.

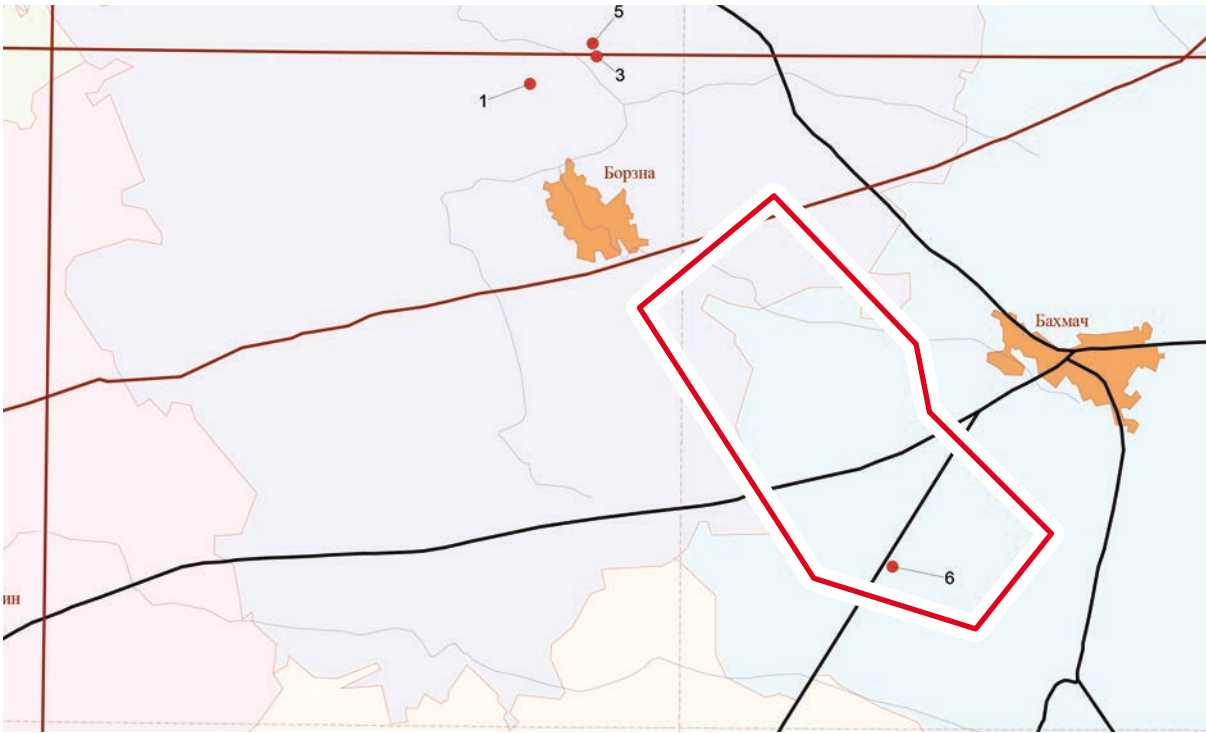
CONCESSION TYPE

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

DEPOSITS DISCOVERED IN THE AREA

Bakhmach oil field with deposits in the upper Visean stage is located within the block. To the south-east of the block is Sofiivska oil field, and to the north-west - Kynashivska and Yadutivska fields.

Map of Opolonivska 1 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	32	35	54.10	51	4	32.67	32	36	0.39	51	4	33.09
2	32	27	41.97	51	12	26.32	32	27	48.28	51	12	26.74
3	32	33	57.07	51	15	44.68	32	34	3.39	51	15	45.09
4	32	40	37.09	51	11	24.68	32	40	43.39	51	11	25.09
5	32	41	15.09	51	9	25.68	32	41	21.39	51	9	26.09
6	32	46	57.11	51	5	52.68	32	47	3.39	51	5	53.09
7	32	43	27.11	51	3	4.68	32	43	33.39	51	3	5.09

- well
- gas-distribution plant
- gas pipeline
- OPOLONIVSKA 1 BLOCK

## GEOLOGICAL CHARACTERISTICS

In terms of oil and gas geological zoning, the block is located mainly within the northern part of the Sofiivka and Monastyrshche petroleum regions of the Dnipro-Donets Basin.

## SURVEY INFORMATION AVAILABLE

### Assessment of hydrocarbon resources (Ukrainian classification)

As of January 2018, the possible oil reserves of the Bakhmach deposit of subcategory 122 are 18 thousand tons, the accumulated extraction is 1 thousand tons.

Pivnichnozahorivska structure is accounted in the deposits of the Upper Devonian with inferred oil resources (subcategory 334) in the amount of 2.454 million tons

Inferred oil resources (subcategory 334) of Strilnykivska structure is 0.338 million tons.

### Well data

14 wells were drilled at Bakhmach structure. Well No.6 yielded an inflow of oil with an initial rate of production of 10.2 m<sup>3</sup> per day on a 10mm choke in the perspective intervals of 2797-2801m and 2811-2814m. Another well No. 526 discovered oil-saturated sandstones, and limestone with a crude smell in the core (1411,1-1426,6 m). There was no drilling at Strilnykivska and Pivnichnozahorivska structures.

### Seismic surveys

According to the results of the seismic surveys carried out in 2008-2009, 11 profiles with a total length of 96,045 km have been performed, 19 profiles with a total length of 233 km (team 6/79, 6/82, 6/85) have been reworked, and a new passport for Pivnichnozahorivska structure have been issued (Sabetsky V. and co-authors, 2009).

Seismic surveys

Year of surveys	Number of lines	Number of linear km	Fold
1971-1972	4	56,8	6-12
1974	2	17,0	24
1974-1975	3	36,7	24
1975	2	22,4	24
1976	6	105,1	12-24
1977	1	20	24
1978	8	116,6	24
1979	19	343,9	24
1980	3	42,5	24-48
1982	12	227,6	48
1985	4	49,8	24-48
1988	5	67,1	48
1990	1	11,6	48
1992	6	71,7	48
2002	3	26,3	48
2008	12	155,3	48-96
2013	2	19,5	48

## EXPLORATION WORK PROGRAM REQUIREMENTS

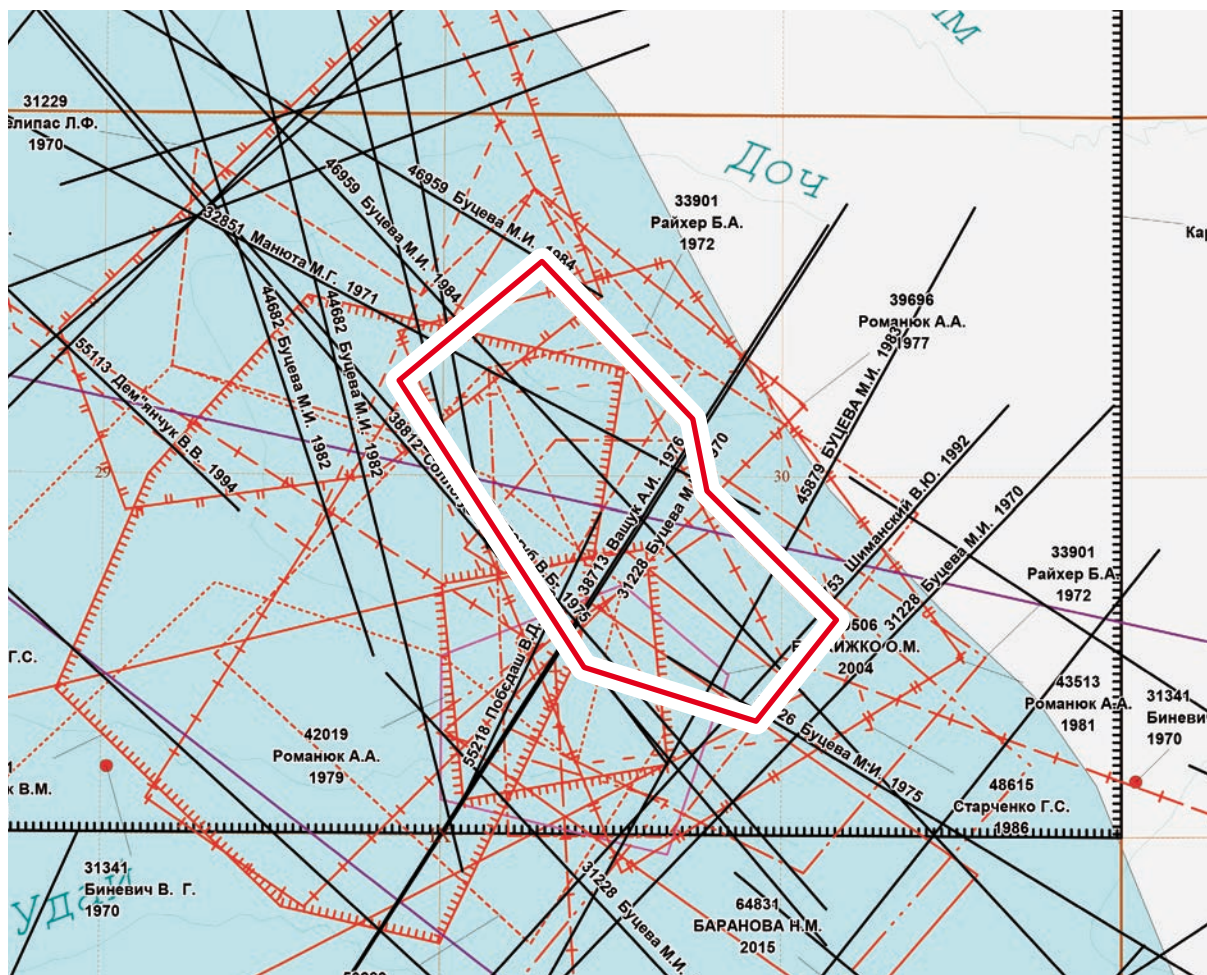
Stage I (12 months) - processing and reinterpretation of 2D seismic data;

Stage II (12 months) – acquisition of 2D or 3D seismic data on 1/4 of the block's area;

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

## OPOLONIVSKA 1 LICENSE

### Map of geophysical surveys and seismic lines



## MAP SYMBOLS



1:25 000



1:50 000



1:100 000



geophysical survey



- seismic lines



OPOLONIVSKA 1  
BLOCK



survey with no mapping

45860 report number

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1982 year of the report