

BLOCK 2

DUBRIVSKO-RADCHENKIVSKA  
LICENSE

LOCATION

The block is located within the Myrhorod and Velyka Bahachka districts of Poltava region, over 10 km east of the city of Myrhorod. There are two fields within the block: Radchenkivske gas and oil field and West-Radchenkivske gas condensate field with total area of 65.35 km².

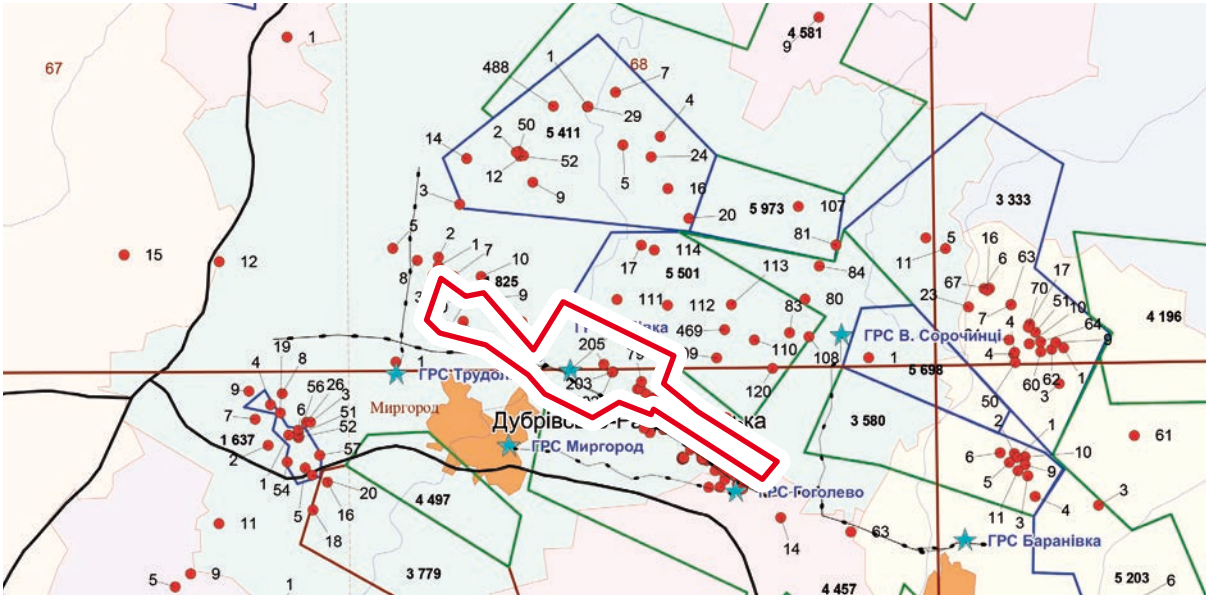
CONCESSION  
TYPE

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

DEPOSITS DISCOVERED  
IN THE AREA

Sorochynske, Vakulivske, Kaverdynske, Hoholivske hydrocarbon fields.

Map of Dubrivsko-Radchenkivska block



MAP SYMBOLS

| Point<br>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               | 33          | 39   | 34.27 | 50          | 0    | 24.66 | 33       | 39   | 40.35 | 50       | 0    | 25.07 |
| 2               | 33          | 41   | 4.27  | 50          | 1    | 59.66 | 33       | 41   | 10.35 | 50       | 2    | 0.08  |
| 3               | 33          | 46   | 34.29 | 50          | 0    | 10.69 | 33       | 46   | 40.37 | 50       | 0    | 11.10 |
| 4               | 33          | 46   | 2.29  | 49          | 59   | 15.69 | 33       | 46   | 8.36  | 49       | 59   | 16.10 |
| 5               | 33          | 47   | 44.28 | 49          | 58   | 19.67 | 33       | 47   | 50.35 | 49       | 58   | 20.08 |
| 6               | 33          | 51   | 39.29 | 49          | 56   | 39.66 | 33       | 51   | 45.36 | 49       | 56   | 40.07 |
| 7               | 33          | 50   | 54.29 | 49          | 56   | 4.67  | 33       | 51   | 0.36  | 49       | 56   | 5.08  |
| 8               | 33          | 45   | 31.29 | 49          | 58   | 25.68 | 33       | 45   | 37.36 | 49       | 58   | 26.09 |
| 9               | 33          | 45   | 24.27 | 49          | 58   | 14.66 | 33       | 45   | 30.34 | 49       | 58   | 15.08 |
| 10              | 33          | 43   | 49.26 | 49          | 58   | 39.68 | 33       | 43   | 55.34 | 49       | 58   | 40.10 |
| 11              | 33          | 42   | 29.27 | 49          | 58   | 9.66  | 33       | 42   | 35.35 | 49       | 58   | 10.07 |
| 12              | 33          | 40   | 6.78  | 49          | 58   | 57.53 | 33       | 40   | 12.86 | 49       | 58   | 57.95 |
| 13              | 33          | 39   | 18.00 | 49          | 59   | 35.60 | 33       | 39   | 24.08 | 49       | 59   | 36.02 |
| 14              | 33          | 37   | 12.28 | 50          | 0    | 35.67 | 33       | 37   | 18.37 | 50       | 0    | 36.09 |
| 15              | 33          | 34   | 54.26 | 50          | 0    | 59.68 | 33       | 35   | 0.35  | 50       | 1    | 0.10  |
| 16              | 33          | 34   | 15.27 | 50          | 1    | 25.67 | 33       | 34   | 21.36 | 50       | 1    | 26.09 |
| 17              | 33          | 34   | 59.26 | 50          | 2    | 47.68 | 33       | 35   | 5.35  | 50       | 2    | 48.10 |
| 18              | 33          | 36   | 13.28 | 50          | 2    | 11.68 | 33       | 36   | 19.37 | 50       | 2    | 12.10 |
| 19              | 33          | 37   | 7.28  | 50          | 2    | 18.67 | 33       | 37   | 13.37 | 50       | 2    | 19.09 |
| 20              | 33          | 39   | 34.27 | 50          | 0    | 24.66 | 33       | 39   | 40.35 | 50       | 0    | 25.07 |

- well
- gas-distribution plant
- gas pipeline
- DUBRIVSKO-RADCHENKIVSKA  
BLOCK

## GEOLOGICAL CHARACTERISTICS

Radchenkivske gas and oil field is limited to the arch of a large spur-shaped peak, located in the southern zone of the central graben of the Dnipro-Donets basin. Sediments of the Paleozoic, Mesozoic, and Cenozoic periods form the geological structure of the field.

West-Radchenkivske gas condensate field is an extensive western plunge of Radchenkivske high, located between the southern cut-off part with its central graben and is an integral part of Malosarochkyi-Radchenkivskyi structural spur.

## SURVEY INFORMATION AVAILABLE

The expired production license No. 1438 for the development of Radchenkivske gas and oil field was issued to JSC Ukrnafta in 1998 and terminated in 2011. The expired exploration license No. 1717 for development of West-Radchenkivske gas condensate field was issued to Evrokrym LLC and terminated in 2015.

### Assessment of hydrocarbon resources (Ukrainian classification)

Total crude reserves of Radchenkivske gas and oil field of category A account for 1 423 thousand tons, including booked 14 thousand tons of sub-category III. Crude reserves of the category C2 are 228 thousand tons, including booked 47 thousand tons of sub-category 122, and there is 74 thousand tons of non-appraised reserves of sub-category 332. Current reserves of associated gas of category A are 41 million m<sup>3</sup>, including booked 1 million m<sup>3</sup> of sub-category III. Associated gas reserves of category C2 are 7 million m<sup>3</sup>, including booked 2 million m<sup>3</sup> of sub-category 122. The reserves have been approved by minute No. 2687 of the State Commission of Ukraine on Mineral Resources in 2012.

Current gas reserves of the West-Radchenkivske gas condensate field are estimated at 14 million m<sup>3</sup> of category C1 (sub-category 221). Condensate reserves are 1 thousand tons of category C1 (sub-category 221). Prospective gas resources are 424 million m<sup>3</sup> of category C3 (sub-category 333). Reserves and resources have been approved by the minute No.1989 of the State Commission of Ukraine on Mineral Resources in 2010.

### Well data

106 wells have been drilled in the Radchenkivske gas and oil field – 11 appraisal wells, 62 exploration wells, and 33 production ones. 27 wells were non-productive. Depth of productive horizons ranges from 900 to 1600 meters. Current wells stock includes 3 suspended wells and 17 idle wells. The remaining wells are abandoned, including 29 for geological reasons, 6 for technical reasons, and 45 decommissioned.

In 2002, Evrokrym LLC drilled one appraisal well No. 202 in West-Radchenkivske gas condensate field, which yielded 261.2 thousand m<sup>3</sup> of gas per day and a condensate of 19.4 m<sup>3</sup> per day from the B-26 deposit on the depth of 2902 to 2909 meters.

### Seismic surveys

| Year of surveys | Number of lines | Number of linear km | Fold  |
|-----------------|-----------------|---------------------|-------|
| 1979            | 3               | 14,9                | 12    |
| 1981            | 7               | 44,6                | 12    |
| 1982            | 4               | 42                  | 12    |
| 1983            | 6               | 63,9                | 12-24 |
| 1984            | 3               | 23,7                | 12-24 |
| 1986            | 25              | 323,9               | 24-48 |
| 1989            | 7               | 110,5               | 24    |
| 1990            | 2               | 17,1                | 24    |
| 1992            | 1               | 13,1                | 24    |
| 2000            | 26              | 135,8               | 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


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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
-  DUBRIVSKO-RADCHENKIVSKA  
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 survey with no mapping
- 45860** report number

**Рогов А.М.** author of the report

**1982** year of the report