PRODUCTION AND TREATMENT OF GAS ON THE ZAPOLYARNOYE FIELD
General characteristics of the Zapolyarnoye field

Discovered in 1965
Development started in 2001
Area of 1,245 km²
The field’s initial A+B1 reserves:
3.594 trillion cubic meters of gas,
around 61.1 million tonnes of gas condensate and 14.3 million tonnes of oil (recoverable)

The Zapolyarnoye field extends for 50 km in length and 30 km in width.
Development and construction. Climatic conditions.

- Minimum air temperature of -63 °C
- Temperature of the cold five-day period up to -47 °C
- Height of snow cover up to 5 meters
- Storm winds of more than 40 meters/s
Development and construction. Maintaining the level of production

GTP-1C
41 bcm/year
BCS – 112 MW (2020)

GTP-2C
37 bcm/year
BCS – 112 MW (2018)

GTP-3C
37 bcm/year
BCS – 96 MW (2017)

GTP-1V
9.5 bcm/year of gas
1.9 million tons of gas condensate

GTP-2V
6.6 bcm/year of gas
1.3 million tons of gas condensate

Gazprom Pererabotka

DESIGN CAPACITY is 120 bcm/year of gas, 3.2 million tons of gas condensate

GTP - gas treatment plant
BCS - booster compressor stations
Description of the technological process. Advanced technological methods

Cenomanian GTPs use the method of absorption drying.

Valanginian GTPs use the method of low-temperature separation.

• Remote control system of gas well clusters;
• Active magnetic suspension system on turboexpanders;
• Mixers-turbulators;
• Compressor plants for weathering gases;
• Industrial television system.
Characteristics of the extraction profile

Production dynamics in 2016, bcm/month

- January: 8.0 bcm
- February: 6.5 bcm
- March: 4.8 bcm
- April: 3.2 bcm
- May: 2.6 bcm
- June: 2.0 bcm
- July: 1.6 bcm
- August: 1.3 bcm
- September: 1.1 bcm
- October: 1.0 bcm
- November: 0.9 bcm
- December: 0.8 bcm

Valanginian and Cenomanian production data.

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THE ENVIRONMENTAL MANAGEMENT STANDARDS SYSTEM OF ISO 14001: 2007 HAS BEEN INTRODUCED
Financial results

Gazprom Dobycha Yamburg LLC
Gas production unit cost (RUB / 1000 m³)

<table>
<thead>
<tr>
<th>Year</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017 forecast</th>
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<tbody>
<tr>
<td>Taxes</td>
<td>590</td>
<td>949</td>
<td>1,072</td>
<td>1,288</td>
<td>1,413</td>
<td>1,477</td>
<td>1,920</td>
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<tr>
<td>Other costs</td>
<td>41%</td>
<td>54%</td>
<td>56%</td>
<td>59%</td>
<td>56%</td>
<td>57%</td>
<td>66%</td>
</tr>
</tbody>
</table>

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THANK YOU
FOR YOUR ATTENTION!