

Stranded fields in the Netherlands

Undevelopped resources

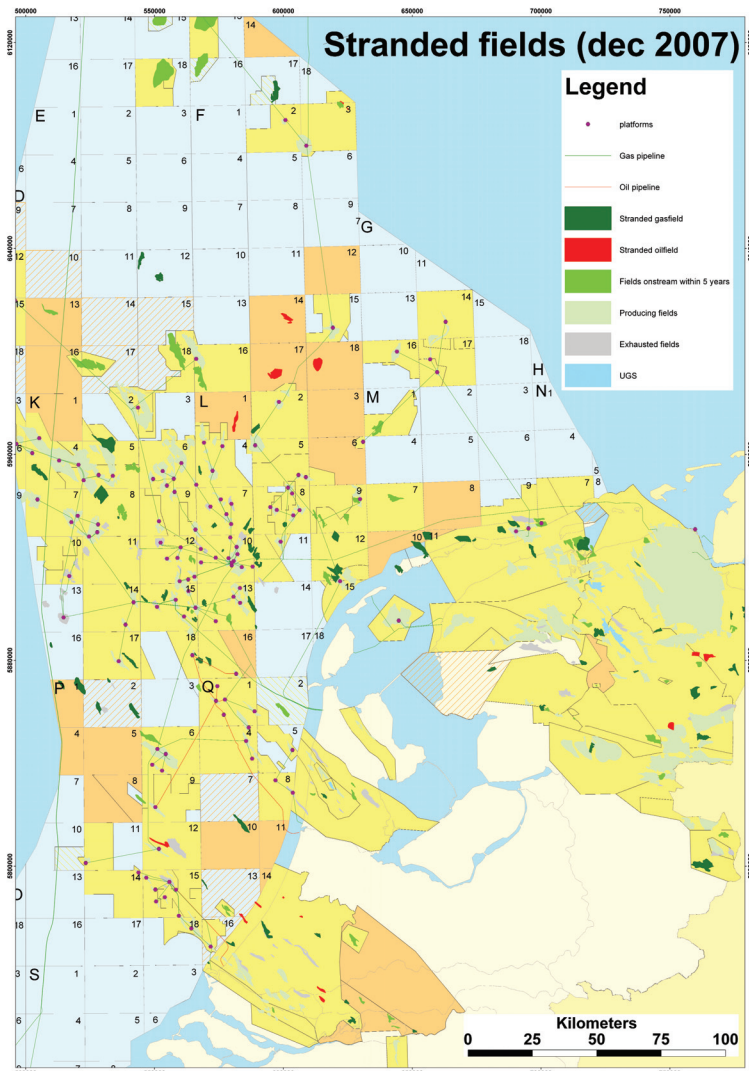
Stranded fields are currently defined as: 'discovered gas accumulation for which no production plans are known to the government of the Netherlands'. Presently some 90 fields are in this category; they are listed in the publication Oil and Gas in the Netherlands, Exploration and Production 2006 and prognosis 2007-2016. Total GIIP may add up to 130 bcm. Stranded fields include fields: with tight reservoir, poor gas quality, low GIIP and/or reserves and fields in restricted areas. A cautious estimate of the reserves of this stranded fields class is some 35 bcm.

| Status of accumulations | Onshore Territory | Continental Shelf | Total |
|----------------------------------|-------------------|-------------------|-------|
| I. Developed | | | |
| a. producing | 92 | 116 | 208 |
| b. gas-storage facility | 3 | 0 | 3 |
| II. Undevelopped | | | |
| a. start of production 2005-2010 | 22 | 35 | 57 |
| b. others | 32 | 45 | 77 |
| III. Production ceased | 26 | 33 | 59 |

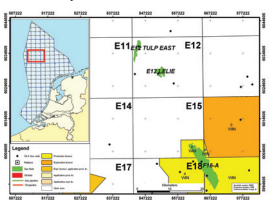
Number of proven natural gas accumulations sorted by status as at 1 Januari 2007

Information on stranded fields can be found on the www.NLOG.nl website:

- 1) A list of stranded fields with basic attributes.
- 2) Fact sheets of a selection of stranded fields.



Fact sheet E12-Tulp East field



General information
 The E12-Tulp East gas field (E12-TE) was discovered in 1991 with exploration well E12-03. The gas is contained in sandstone of the Miocene Gif Formation (DGCM). The field has not been developed and currently lies in open area.

Data presented in this fact sheet are partly taken from an evaluation study on the E12-TE gas field. This study was completed by TNS-NITG on behalf of the MEA in 1998.

The E12-TE field is defined by a N-S elongated structure, dipping to the east. It is confined by a fault on its western side, and by a dip closure on the other sides. The gas bearing rock is of Carboniferous age, and belongs to the Miocene Gif Formation (DGCM). The reservoir rock consists of a heterogeneous sequence of fine to medium fine grained sandstone beds and thick clay bodies. The clay bodies constitute barriers against vertical flow.

fact_sheet_E12-TE.doc November 2006

Sequence of events

| Date | Event |
|------|-------------------------|
| 1991 | Discovery of the field |
| 1991 | Exploration well E12-03 |
| 1998 | Exploration well E12-04 |
| 1998 | Exploration well E12-05 |
| 1998 | Exploration well E12-06 |
| 1998 | Exploration well E12-07 |
| 1998 | Exploration well E12-08 |
| 1998 | Exploration well E12-09 |
| 1998 | Exploration well E12-10 |
| 1998 | Exploration well E12-11 |
| 1998 | Exploration well E12-12 |
| 1998 | Exploration well E12-13 |
| 1998 | Exploration well E12-14 |
| 1998 | Exploration well E12-15 |
| 1998 | Exploration well E12-16 |
| 1998 | Exploration well E12-17 |
| 1998 | Exploration well E12-18 |
| 1998 | Exploration well E12-19 |
| 1998 | Exploration well E12-20 |
| 1998 | Exploration well E12-21 |
| 1998 | Exploration well E12-22 |
| 1998 | Exploration well E12-23 |
| 1998 | Exploration well E12-24 |
| 1998 | Exploration well E12-25 |
| 1998 | Exploration well E12-26 |
| 1998 | Exploration well E12-27 |
| 1998 | Exploration well E12-28 |
| 1998 | Exploration well E12-29 |
| 1998 | Exploration well E12-30 |
| 1998 | Exploration well E12-31 |
| 1998 | Exploration well E12-32 |
| 1998 | Exploration well E12-33 |
| 1998 | Exploration well E12-34 |
| 1998 | Exploration well E12-35 |
| 1998 | Exploration well E12-36 |
| 1998 | Exploration well E12-37 |
| 1998 | Exploration well E12-38 |
| 1998 | Exploration well E12-39 |
| 1998 | Exploration well E12-40 |
| 1998 | Exploration well E12-41 |
| 1998 | Exploration well E12-42 |
| 1998 | Exploration well E12-43 |
| 1998 | Exploration well E12-44 |
| 1998 | Exploration well E12-45 |
| 1998 | Exploration well E12-46 |
| 1998 | Exploration well E12-47 |
| 1998 | Exploration well E12-48 |
| 1998 | Exploration well E12-49 |
| 1998 | Exploration well E12-50 |
| 1998 | Exploration well E12-51 |
| 1998 | Exploration well E12-52 |
| 1998 | Exploration well E12-53 |
| 1998 | Exploration well E12-54 |
| 1998 | Exploration well E12-55 |
| 1998 | Exploration well E12-56 |
| 1998 | Exploration well E12-57 |
| 1998 | Exploration well E12-58 |
| 1998 | Exploration well E12-59 |
| 1998 | Exploration well E12-60 |
| 1998 | Exploration well E12-61 |
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| 1998 | Exploration well E12-63 |
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| 1998 | Exploration well E12-79 |
| 1998 | Exploration well E12-80 |
| 1998 | Exploration well E12-81 |
| 1998 | Exploration well E12-82 |
| 1998 | Exploration well E12-83 |
| 1998 | Exploration well E12-84 |
| 1998 | Exploration well E12-85 |
| 1998 | Exploration well E12-86 |
| 1998 | Exploration well E12-87 |
| 1998 | Exploration well E12-88 |
| 1998 | Exploration well E12-89 |
| 1998 | Exploration well E12-90 |

Recovery data

| Parameter | Value |
|-------------------------------|--------|
| Original gas in place (OGIP) | 10.8 |
| Produced gas (PG) | 0.0 |
| Residual gas in place (RGIIP) | 10.8 |
| OGIP to PG ratio | > 1000 |

Reservoir data

| Parameter | Value |
|---------------------------------|-------|
| Porosity | 10.8 |
| Permeability | 0.0 |
| Gas saturation | 0.0 |
| Relative permeability | 0.0 |
| Reservoir thickness | 0.0 |
| Reservoir depth | 0.0 |
| Reservoir temperature | 0.0 |
| Reservoir pressure | 0.0 |
| Reservoir viscosity | 0.0 |
| Reservoir compressibility | 0.0 |
| Reservoir permeability | 0.0 |
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