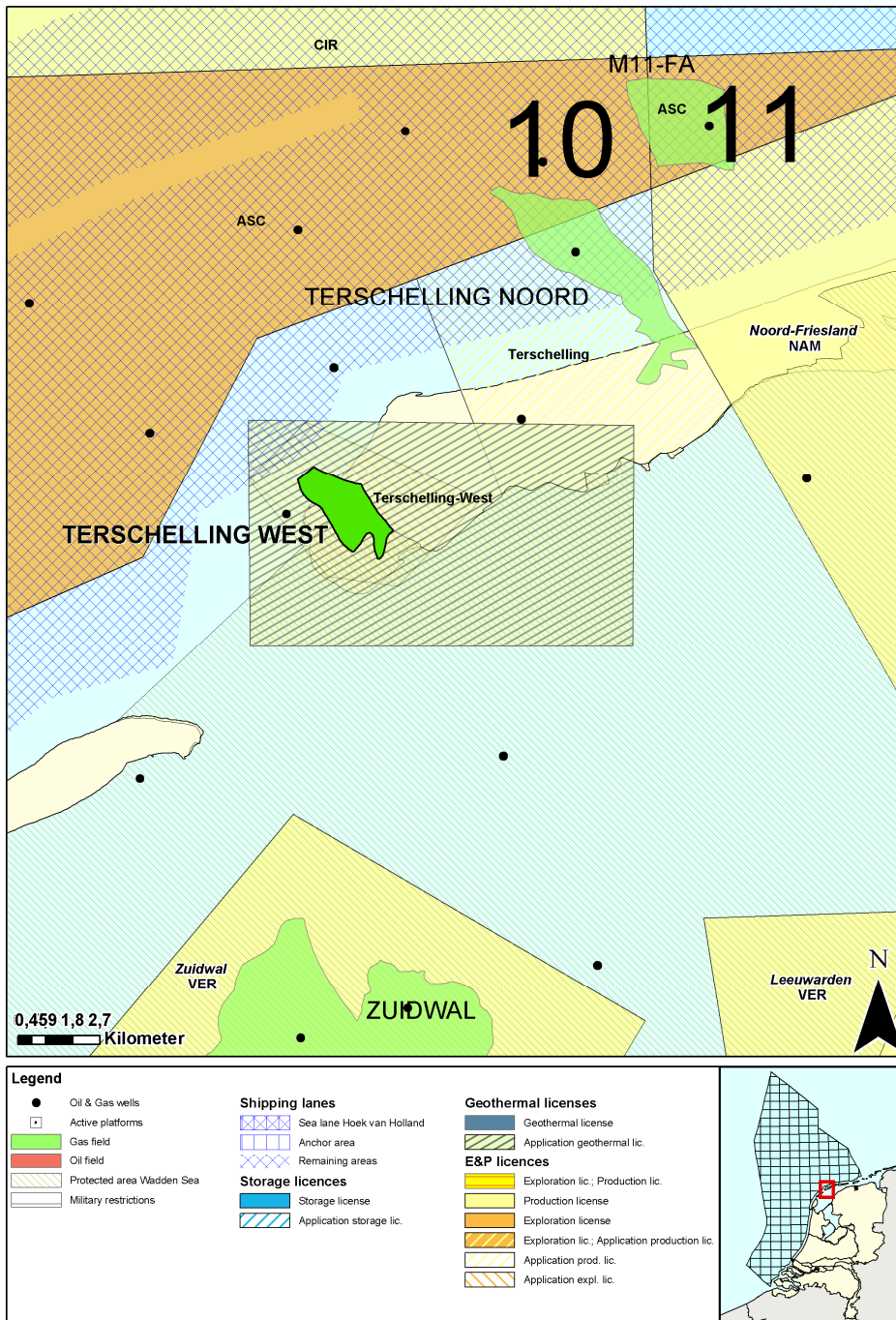




# Fact sheet Terschelling-West field

## Stranded fields - Q4 2009



Location map of the Terschelling-West field

### **General information**

The onshore Terschelling-West gas field was discovered in 1989 with exploration well TEW-01. It is situated at the western tip of the Terschelling Island. The gas is trapped in reservoir sandstones of the Upper Slochteren Member of the Upper Rotliegend Group. The field has reasonable reservoir quality but suffers from poor gas quality. The field has not been developed and currently lies in open area. It must be noted that the field lies close to the environmental sensitive Waddensee area.

The Terschelling-West field sits in a tilted, fault bounded, horst block. The surface area of the field approximates 4.3 km<sup>2</sup>. The field comprises one sandstone reservoir interval: the Upper Slochteren Member (ROSLU).

Three offset wells to the TEW-01 well are reference wells for the Rotliegend Lithostratigraphy (Terschelling-01, Hollum-Ameland-02 and Buren-01, Adrichem Boogaert et al., 1993). For general information on the geology of the Terschelling-West field area one is referred to the Geological atlas of the Netherlands, map sheet I: Vlieland-Terschelling (RGD, 1991) in which the geological history is explained and for example also petrophysical analyses are reported.

Data presented in this fact sheet are taken from the various reports from the files of TNO-NITG. There is no 3D seismic coverage of the field.

### **Sequence of events**

Date	Event
28-11-1985	Award drilling license Vlieland II to NAM
14-01-1987	Modification of drilling license Vlieland II
28-04-1987	Drilling license Vlieland II effective
18-12-1988	Spud date well TEW-01 (NAM)
02-01-1989 to 10-03-1989	Sidetrack #1 - Sidetrack #5
26-03-1989	TD reached (3523 m ah)
27/28-03-1989	RFT's 3181 - 3302 m ah (ROSLU)
28-03-1989	RFT sample 3181 m ah (ROSLU)
10/14-04-1989	Production test 3175 - 3248 m ah (ROSLU)
22-04-1989	Completion date well TEW-01 (NAM)
23-03-1995	Drilling license Vlieland II lapsed

### **Reservoir data**

Reservoir	Depth interval m TVD/MSL	Net thickness m	N/G %	Porosity %	Gas saturation %
Upper Slochteren Member (RO)	2520-2650	126	97	7.0	37.7
Pay zone down to FWL	2520-2605	81	95	7.5	44.5

### **Contacts**

Reservoir	Top structure m TVD/MSL	GDT m TVD/MSL	FWL m TVD/MSL
Upper Slochteren Member (RO)	Approx. 2508	2586	2605

### **Hydrocarbon specifications**

Reservoir	CH <sub>4</sub> %	CO <sub>2</sub> %	N <sub>2</sub> %	H <sub>2</sub> S %	GHV MJ/m <sup>3</sup>	Density rel. to air
Upper Slochteren Member (RO)	44.4	44.7	4.4		23.1	

### **Volume**

Reservoir	GIIP 10 <sup>9</sup> m <sup>3</sup> st Expected	Reserves 10 <sup>9</sup> m <sup>3</sup> st		
		Proven	Expected	Possible
Upper Slochteren Mbr.	0,5 - 1		0,5 - 1	

### **Productivity**

Reservoir	Res. Pres. bar	Reservoir temperature °C	WGR m <sup>3</sup> /10 <sup>6</sup> m <sup>3</sup>	CGR m <sup>3</sup> /10 <sup>6</sup> m <sup>3</sup>	Q50 m <sup>3</sup> /d
Upper Slochteren Mbr 2523-2586	330	103	8	37	650000

*Q50 based on available public data from composite log*

*More RFT and production test information is available on the well log*

### **Well status**

TEW-01-S5, Plugged and Abandoned

### **Infrastructure**

The nearest producing gas field is the Zuidwal gas field, twelve kilometers to the south. The NGT pipeline (shortest distance rectangular to the pipeline) is located ten kilometers to the north. The nearest onshore production facility is located approximately 25 kilometers to the southeast.

### **References**

RGD 1991, Geological Atlas of the Subsurface of the Netherlands, Map sheet I: Vlieland-Terschelling.

RGD 1996, Concessie aanvraag Terschelling, Petrofysica, TNO report (internal).

RGD & NOGEPa 1993, Stratigraphic nomenclature of the Netherlands, Mededelingen Rijks Geologische Dienst, Nr. 50

SodM 1989, Proces-Verbaal nr. 3659. (Official Report of the State Supervision of the Mines on the proven occurrence of gas/oil in a well)

NAM 1989: Composite well log, Terschelling-West-01-S5. *On open file*

For more information stranded Oil&Gas fields in the Netherlands:

<http://www.nlog.nl/nl/reserves/reserves/stranded.html>

For released Well data and Seismic data contact DINOloket:

<http://www.dinoloket.nl>

For geological maps of the deep subsurface of the Netherlands:

[http://www.nlog.nl/nl/pubs/maps/geologic\\_maps/NCPI.html](http://www.nlog.nl/nl/pubs/maps/geologic_maps/NCPI.html)

### **Liability**

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