

PL630CS License status report 2025-024171



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1 History of the production license

PL630CS was located west and north of the Toppand discovery in PL630 (Fig.1-1). The PL630CS was awarded as an additional acreage to PL630 and stratigraphically limited to the strata below the Base Cretaceous Unconformity. The licence was awarded 17.02.2023 and was dropped 17.02.2025. The operator has been Equinor Energy AS, with partner Wellesley Petroleum AS. (See license information in Table 1-1).

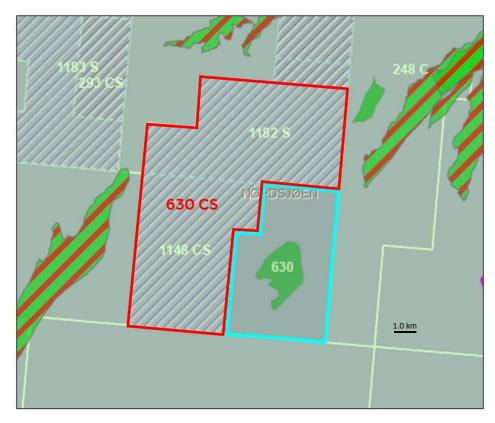


Figure 1-1 PL630 CS and PL630 licence overview.

Table 1-1 Licence information

PL090F	
Location	North Sea
Awarded	17.02.2023
Drill or drop	17.02.2025
(BoK) Beslutning om konkretisering	17.08.2025
License period	16.02.2025
License group	Equinor Energy AS (95%) (Operator), Wellesley
	Petroleum AS (5%).
License area	45 km ²

Work obligations:

Work program in the license is listed in Table 1-2 All work obligations have been fulfilled.

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Table 1-2 Work Program PL 630 CS

Arbeidsprogram	Beslutning	Oppgave status	Oppgave frist	Brønnbane hvis boret
Geologi- og geofysikkstudier		Godkjent		
	Beslutning om boring	Skal ikke bores	17.02.2025	
Boring av letebrønn		Skal ikke bores		
	(BoK) Beslutning om konkretisering	Frafalt	17.08.2025	
Konseptstudier		Frafalt		
	(BoV) Beslutning om videreføring	Frafalt	17.02.2026	
(PUD) Utarbeide utbyggingsplan		Frafalt		
	(PUD) Innlevering av utbyggingsplan	Frafalt	17.02.2027	
	Beslutte overgang til forlengelsesperioden	Frafalt	17.02.2027	

Meetings held:

Table 1-3 Meetings held

Date	Meeting
22.03.2023	EC-MC
13.12.2024	EC-MC

Reason for surrender:

Mapping with the new Dual Azimuth seismic CGG24M01 has increased the definition and understanding of the main prospect in the license (Toppand West). Studies have concluded that both the trap risk and migration risk are very high regarding the Toppand West downfaulted trap. The licence partners do not see enough value in the prospect to continue with a drill decision in 2025.

2 Database overview

2.1. Seismic database

The seismic mapping in the license area applied for in the APA 2022 was predominantly done using the



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Figure 2-1 Seismic database. CGG17M01, CGG 18M01 and CGG24M01 covering the entire PL630 CS and PL630 licenses (red outline)

CCG18M01 survey within the entire license area including the PL630 area (Figure 2-1) (Table 2-1). During the license period the newly processed (2024) high quality Dual Azimuth CGG24M01 seismic dataset was included in the common database. The CGG24M01 data set was used in the re-mapping of the prospects in the PL 630CS area.

Table 2-1 Seismic Database

Survey	Туре	Released	Processing Year	Quality
CGG17M01	3D PSTM	No	2017	Fair
CGG18M01	3D PSDM	No	2018	High
CGG24M01	3D PSDM DAZ	No	2024	High

2.1. Well database

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36 wells are included into the well database (Table 2-2). The key wells for the evaluation of the Toppand West prospect are the nearby 35/10-7S and 35/10-7A wells (Toppand discovery), and the Røver Nord discovery wells (31/1-2S and 31/1-2A).

Table 2-2 Wellbore database

Well	Completion Year	Purpose	Content	Status	Well	Completion Year	Purpose	Content	Status
30/3-2, R	1981	Wildcat	Oil/Gas	P&A	35/11-20 A	2016	Appraisal	Oil	P&A
31/1-1	2008	Wildcat	Dry	P&A	35/11-23	2019	Wildcat	Oil/Gas	P&A
31/1-28	2021	Wildcat	Oil/Gas	P&A	35/11-23 A	2019	Wildcat	Dry	P&A
31/1-2A	2021	Appraisal	Oil	P&A	35/11-3 S	1989	Wildcat	Oil Shows	P&A
34/12-1	2008	Wildcat	Gas/Condens	P&A	35/11-5, - T2	1991	Wildcat	Oil/Gas	P&A
35/10-1, -T2	1992	Wildcat	Gas	P&A	35/11-6	1992	Appraisal	Oil Shows	P&A
35/10-2, -T2	1996	Wildcat	Oil	P&A	35/11-8 S	1996	Wildcat	Oil/Gas	P&A
35/10-3	1999	Wildcat	Dry	P&A	35/11-9	1997	Wildcat	Oil	P&A
35/10-78	2021	Wildcat	Oil	P&A	35/11-R-11 H	2020	Observation	N/A	P&A
35/10-7A	2021	Appraisal	Oil/Gas	P&A	31/1-3 S	2023	Wildcat	Oil/Gas	P&A
35/11-12	2000	Wildcat	Oil Shows	P&A	31/2-19 S	1996	Wildcat	Oil Shows	P&A
35/11-13	2005	Wildcat	Oil Shows	P&A	21/2-21	2014	Wildcat	Dry	P&A
35/11-14 S	2006	Appraisal	Oil/Gas	P&A	31/2-8	1982	Wildcat	Oil Shows	P&A
35/11-15 S, -T2	2007	Wildcat	Oil/Gas	P&A	35/11-25 S	2021	Wildcat	Dry	P&A
35/11-18	2015	Wildcat	Oil	P&A	35/11-25 A	2021	Wildcat	Oil Shows	P&A
35/11-18 A	2015	Appraisal	Oil/Gas	P&A	35/10-10 S	2023	Wildcat	Oil/Gas	P&A
35/11-2	1987	Wildcat	Gas/Condens	P&A	35/10-10 A	2023	Appraisal	Gas/Conder	P&A
35/11-20 S	2016	Wildcat	Oil	P&A	35/11-22 S	2019	Wildcat	Oil	P&A

3 Results of geological and geophysical studies

In the APA 2022 application, the trap risk of the main prospect, Toppand West, was deemed to have the highest risk. The main task has therefore been to evaluate the trapping configuration and update the trap risk with fault seal analysis. This analysis resulted in an increased trap risk compared to the APA application. Basin modelling study demonstrates that the Toppand West prospect in general is located within a large drainage area. However, no direct juxtaposition to the Toppand West prospect is present. Toppand West most likely must be sourced from the lowermost part of Heather Formation (Fair-Good), and downwards into the Brent Group reservoirs. The perfect juxtaposition, as seen on the Toppand structure, with proved migration into the Toppand discovery, prevents pressure buildup in the source needed for downward migration into Toppand West (Figure 3-1).

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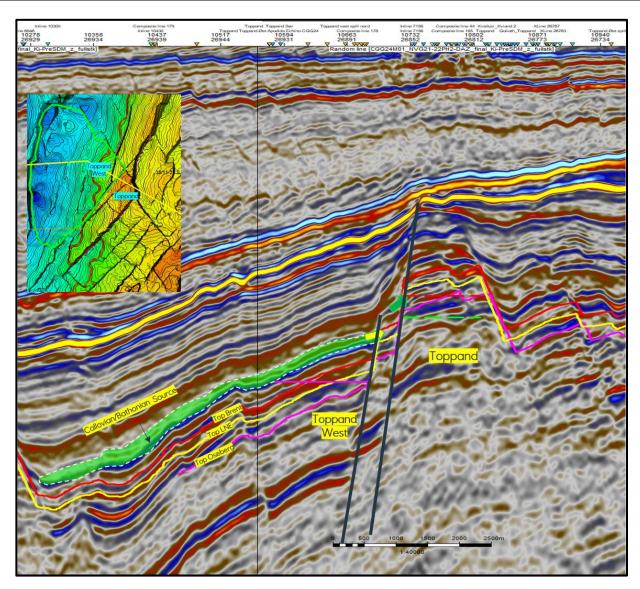


Figure 3-1 Toppand West prospect and location of source rock. Index map = Top Brent depth. Green polygon = HC drainage area. Red polygon = Mean OWC. *No direct juxtaposition to the Toppand West prospect is present. Toppand West most likely must be sourced from the lowermost part of Heather Formation (Fair-Good), and downwards into the Brent Group reservoirs.*

4 Prospect update report

The Toppand West prospect is a fault bounded 3-way closure located west of the Toppand discovery (Figure 4-1). The reservoirs are the same as in the Toppand discovery; Ness, Etive and Oseberg formations as the main reservoirs.



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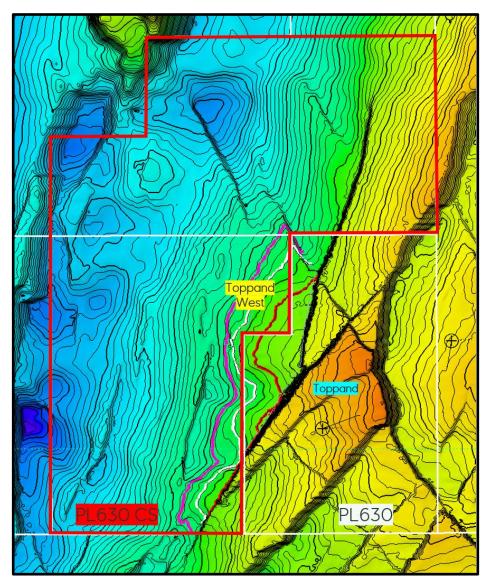


Figure 4-1 Location of Toppand West prospect (Top Brent depth). Red contour = Minimum OWC. White contour = Mean OWC. Magenta contour = P10 OWC.

The reservoirs in Toppand West are buried about 3- 400m deeper than the Toppand discovery and a significant reduction of the average porosities compared to the Toppand discovery is expected. The fault throw between Toppand discovery and Toppand West prospect varies between 130 to 300m (Figure 4-2), and the Brent Group reservoirs in Toppand West are juxtaposed to the water bearing Dunlin Group sandstones and shales in the Toppand discovery.

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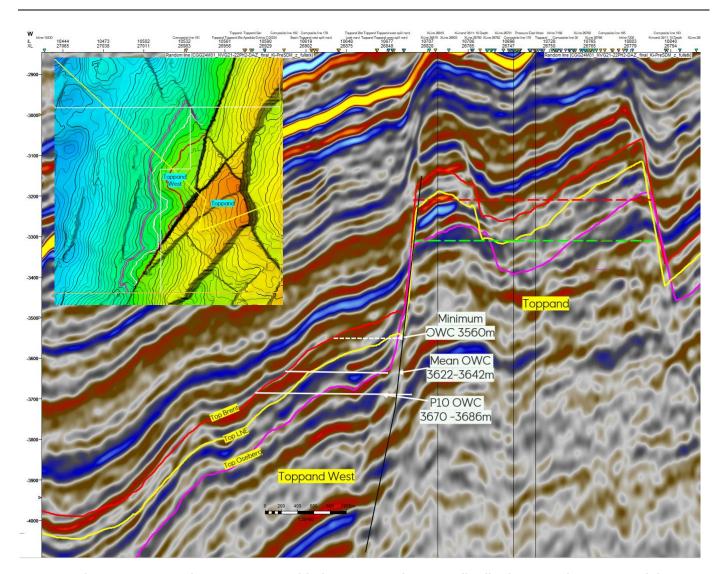


Figure 4-2 Toppand West prospect with the prognosed contact distributions. $Red\ contour = Minimum\ OWC.\ White\ contour = Mean\ OWC.\ Magenta\ contour = P10\ OWC.$

Although both oil and gas were encountered in the Toppand discovery, only oil is expected in the Toppand West prospect due to higher expected pressure compared to the Toppand discovery.

Reservoir is not regarded as a risk in the Toppand West prospect although the expected Brent Group reservoirs are significantly poorer than observed on the Toppand wells. Average porosities are expected to be reduced from about 18-19% in the Toppand discovery to about 14-15% in the Toppand West, due to increased burial and quartz cementation.

Trap risk is regarded as the highest risk (Pg Trap = 0.4) due to the dependency on fault sealing.

Source presence is no risk, as the Callovian/Bathonian fair-good source rock is mature and present in a large drainage area close to the prospect (Figure 3-1). However, charging the prospect is dependent on downward migration and resulting high risk (Pg Migration = 0.5).

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Table 4-1 gives a summary of the risk factors, and Table 4-2 the overview of the updated volume potential, Toppand West.

About 30% of the Toppand West prospect volumes is within the dropped license PL630 CS, and 70 % of the volumes is within the PL 630 license.

In the APA application an additional high-risk prospect was presented (Magpie). The Magpie prospect was defined as a combined structural/stratigraphic trap with Tarber Formation reservoir. Maturation of this prospect has concluded that the Tarbert Formation reservoir is not present in the area, and the prospect is removed from the prospect inventory.

Table 4-1 Overview of the risk factors, Toppand West

Risk factor	P(play)	P(segment pl
Trap Geometry		1.000
Trap Seal	1.000	0.400
Reservoir Presence	1.000	1.000
Producibility		1.000
Source Presence	1.000	1.000
Source Migration		0.500
HC-Phase Success		1.000
> Marginal play probability	1.000	
> Conditional segment pr		0.200

Table 4-2 Overview of the volumes in Toppand West

	Prospect	In-place, total resources		Recoverable, total		Pg %	Within		
	segments	(MSm3), 100% resources (MSm3), 100%			PL 630CS				
		P90	Mean	P10	P90 Mean P10			%	
Segment	Toppand West	0.8	2.7	5.0	0.2	0.6	1.1	20	30

5 Technical evaluation

No valuation has been carried out on the Toppand West prospect given the low expected volumes and high risk.

6 Conclusion

The potential HC volumes are relatively small with comparatively low chance of success. Partners in PL630 CS do not see enough value in the Toppand West prospect to continue with a drill decision in 2025, and the license is consequently dropped.