

PL1128B – Licence status report

2026-027186

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Summary

PL1128B was applied for and granted in APA 2023. The license extension application was related to expanding the Springar Formation prospects based on the success of the Obelix Upflank discovery in 2022, to secure area covering Justforkix and Picanmix prospects. The licence included acreage within block 6604/6, located 90 km southwest of the Aasta Hansteen field (Figure 1).

No wells have been drilled within the PL1128B acreage previously, but discoveries are made both to the north (Irpa, Obelix Upflank) and to the southwest (Balderbrå) of the licence. All discoveries in the area have seismic DHIs and the same is to be expected if hydrocarbons are present within PL1128B.

Justforkix is a strong amplitude on near offset seismic data that weakens with offset. No amplitude conformance with depth is observed. The reservoir is interpreted to be an intra Springar Formation sandstone that is present in the 6604/2-1 (Gullris), 6604/5-1 (Balderbrå), and 6604/6-1 (Gullstjerne) wells. Wells drilled in the area mainly show AVO class 2 and 3, while Justforkix is mainly an AVO class 4. In the Justforkix prospect, the “sandstones” behave differently than other sandstones in the area, but also different than other prospects in the area. Main concern is lack of a strong peak at the base of a gas filled sandstone and depth conformance.

Picanmix is an amplitude anomaly within a 4 way closure west of Justforkix. The reservoir is interpreted to be an intra Springar Formation sandstone that is similarly present in the 6604/2-1 (Gullris), 6604/5-1 (Balderbrå), and 6604/6-1 (Gullstjerne) wells. The prospect shows indications of a gas filled sandstone with an AVO class 3 anomaly, but the volumes are very small.

The new PGS23M02 seismic dataset covers the entire license acreage as well as reference discoveries but is not part of the PL1128B common database. The seismic data is of very good quality for prospect evaluation and was used to re-evaluate the two prospects within the license. Both prospect were found to not be of economic interest for the ongoing Obelix Upflank development project.

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1 Licence history

Licence: 1128B

Awarded: 19.02.2023

Licence period: 19.02.2023-19.02.2025

<u>Licence group:</u>	Equinor Energy AS	61 % (Operator)
	Harbour Energy Norge AS	19 %
	Petoro	20 %

Licence area: 45,121 km²

Work programme:

Drill or drop decision within 2 years from award.

Meetings held:

Only one specific PL1128B meeting has been held:
PL1128B AC work meeting 19.02.2026

Work performed:

Geological and geophysical re-evaluation of the Justforkix and Picanmix prospects have been done on the new PGS23M02 dataset.

Reason for surrender:

The partnership has decided to relinquish the licence. Both prospect were found not to be of economic interest for the ongoing Obelix Upflank development project.

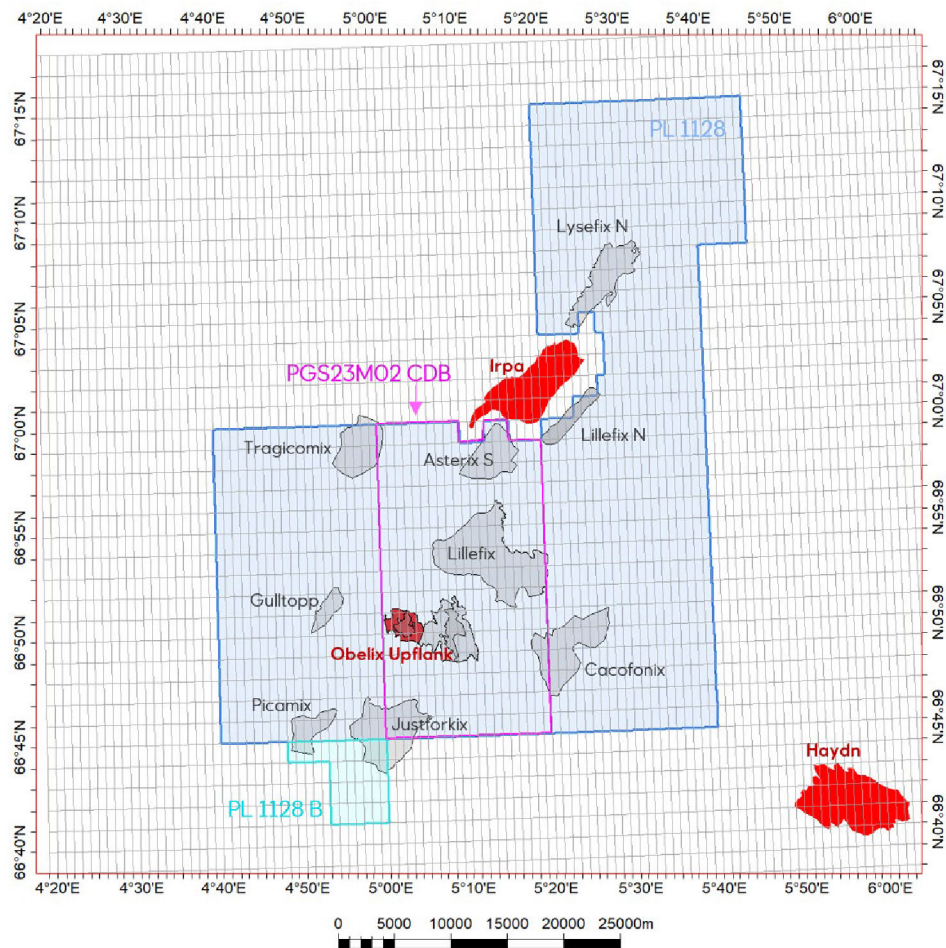


Figure 1 Licence map showing PL1128 and PL1128B and surrounding discoveries. The two prospects Justforkix and Picanmix are located partly within PL1128B with their apexes within PL1128.

2 Database overviews

2.1 Seismic data

The seismic database consists of released 2D data and 3D surveys covering the licence.

Table 1 Overview of 3D seismic database.

Seismic survey	2D/3D	Year	Type	Quality
OMV15M02	3D	2015	Full offset, angle stacks	Good
PGS16004	3D	2016	Full offset, angle stacks	Good
EQ19M05	3D	2019	Full offset, angle stacks	Good
ST0410	3D	2010	Full offset, angle stacks	Good
BG0904M	3D	2009	Full offset, angle stacks	Good

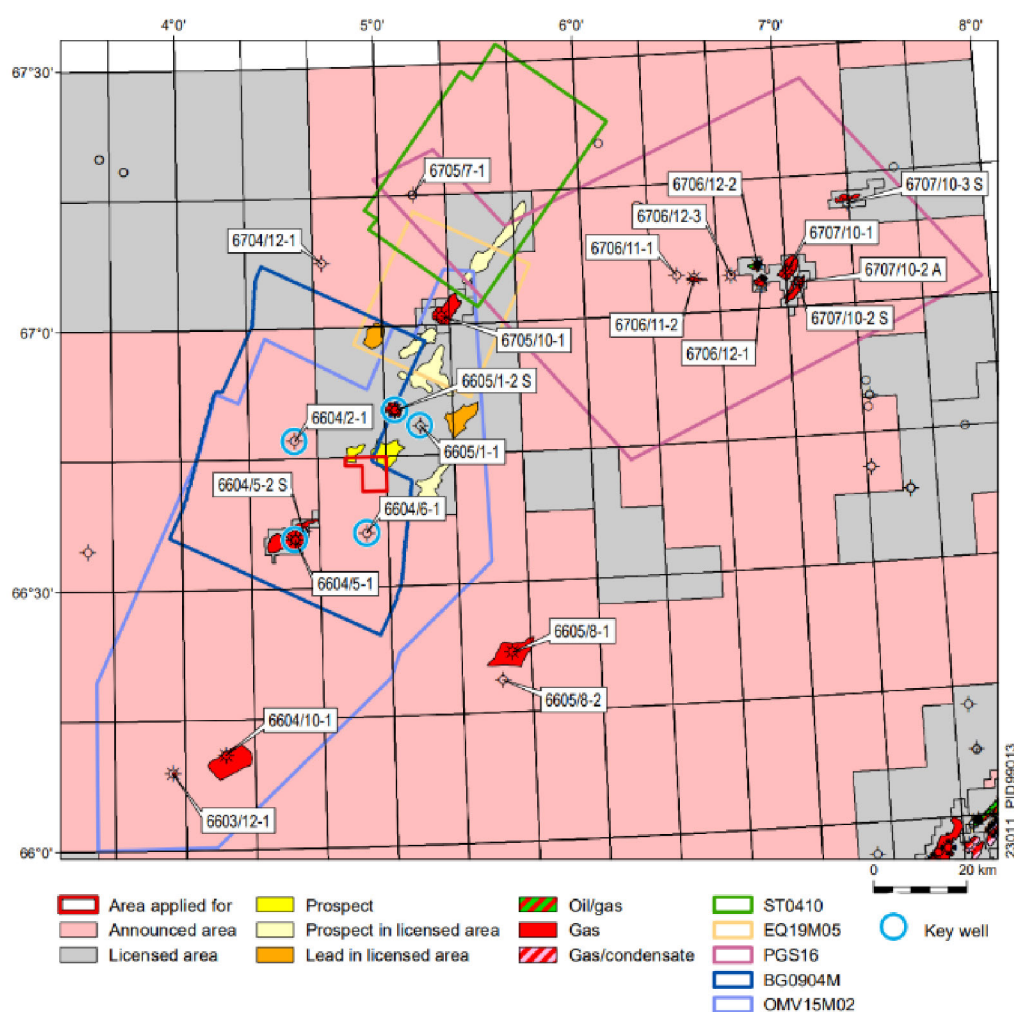


Figure 2 Seismic and well database.

2.2 Well data

The common well database is the same as for PL1128 and consists of all surrounding wells that penetrate the Springar Formation sandstones. The most relevant wells for this application are 6605/1-1 (Obelix), 6605/1-2 S & A (Obelix Upflank, Obelix Upflank Sidetrack), 6604/2-1 (Gullris), 6604/6-1 (Gullstjerne) and 6604/5-1 (Balderbrå) due to their proximity to the prospects.

Table 2 Overview of well database.

Well	Year	Drilling operator	Discovery/Field/ Well name	Status	Age at TD	Well use
6603/12-1	2009	A/S Norske Shell	Gro	Gas	Late Cretaceous (Springar Fm)	T, P, SRM, D
6604/2-1	2011	BG Norge AS	Gullris	Dry	Late Cretaceous (Springar Fm)	T, F, P, SRM, D, R
6604/5-1	2018	Wintershall Norge AS	Balderbrå	Gas	Late Cretaceous (Springar Fm)	T, P, F, SRM, D, R
6604/5-2 S	2020	Wintershall Norge AS	Balderbrå Appraisal	Gas shows	Late Cretaceous (Springar Fm)	T, D, R
6604/6-1	2020	Wintershall Norge AS	Gullstjerne	Dry	Late Cretaceous (Springar Fm)	R
6604/10-1	2010	A/S Norske Shell	Gro Appraisal	Gas	Late Cretaceous (Springar Fm)	T, D
6605/1-1	2009	StatoilHydro ASA	Obelix	Dry with shows	Late Cretaceous (Nise Fm)	T, DC, P, SRM, D, R
6605/1-2 S	2022	Equinor ASA	Obelix Upflank	Gas	Late Cretaceous (Springar Fm)	T, DC, P, SRM, D, R
6605/1-2 A	2022	Equinor ASA	Obelix Upflank sidetrack	Gas	Late Cretaceous (Springar Fm)	T, DC, P, SRM, D, R
6605/8-1	2005	Norsk Hydro Produksjon AS	Stetind-1	Gas	Late Cretaceous (Lange Fm)	T, P, SRM, D, R
6605/8-2	2008	StatoilHydro Petroleum AS	Stetind-2	Dry	Late Cretaceous (Lange Fm)	T, P, SRM, D
6704/12-1	1999	Saga Petroleum AS	Gjallar	Gas shows	Late Cretaceous (Nise Fm)	T, DC, SRM, D, R
6705/7-1	2017	Repsol Norge AS	Stordal	Dry	Late Cretaceous (Lysing Fm)	T, P, SRM, D, R
6705/10-1	2009	StatoilHydro Petroleum AS	Asterix	Gas	Early Cretaceous (Lange Fm)	T, DC, F, P, SRM, D, R
6706/6-1	2003	Esso Exploration and Production Norway A/S	Hvitveis	Gas	Danian (Tang Fm)	T, P, SRM, F
6706/11-1	1998	Den norske stats oljeselskap a.s.	Ægir	Dry	Late Cretaceous (Lange Fm)	T, P, SRM, D, R
6706/11-2	2015	Statoil Petroleum AS	Gymir	Gas	Late Cretaceous (Nise Fm)	T, P, SRM, D
6706/12-1	2008	StatoilHydro AS	Aasta Hansteen/ Snefrid Sør	Gas	Late Cretaceous (Kvitnos Fm)	T, P, SRM, D
6706/12-2	2015	Statoil Petroleum AS	Aasta Hansteen/ Snefrid Nord	Oil/gas	Late Cretaceous (Nise Fm)	T, P, SRM, D
6706/12-3	2015	Statoil Petroleum AS	Rødd Rygg	Gas	Late Cretaceous (Kvitnos Fm)	T, P, SRM, D
6707/10-1	1997	BP Norway Limited U.A.	Aasta Hansteen/ Luva	Gas	Late Cretaceous (Kvitnos Fm)	T, P, SRM, D
6707/10-2 A	2008	StatoilHydro ASA	Aasta Hansteen/ Haklang West	Gas	Late Cretaceous (Kvitnos Fm)	T, P, SRM, D
6707/10-2 S	2008	StatoilHydro ASA	Aasta Hansteen/ Haklang	Gas	Late Cretaceous (Nise Fm)	T, P, SRM, D
6707/10-3 S	2014	Centrica Resources (Norge) AS	Ivory	Gas	Late Cretaceous (Lange Fm)	T, P, SRM, D

2.3 Results of geological and geophysical studies

No specific studies have been performed for the PL1128B license, but several internal studies have been done in the area as a result of the 6605/1-2 S Obelix Upflank discovery in PL1128.

Table 3 Studies

Study	Performed by	Relevance
Petrographic provenance studies, Norwegian Sea area	StatoilHydro (2009a)	Regional sand provenance studies used in paleogeographical model
Obelix, (Nise Fm) well 6605/1-1. Evaluation of Water Samples	StatoilHydro (2009b)	Provides input for missed-pay analysis
AVO analysis PL328 and PL283	StatoilHydro (2009c)	Conducted to improve seismic AVO interpretation
Norwegian Sea AVO Atlas	Statoil (2011a)	Conducted to improve seismic AVO interpretation
Regional Interpretation Project 2011	Statoil (2011b)	Regional compilation used for the regional understanding of the Vøring area
Recognition of paleotopography from core Vøring Basin	Statoil (2011c)	Regional compilation used for the regional understanding of the reservoir presence in the Vøring area
Statoil AVO analysis workflow	Statoil (2015)	AVO work in this application conducted according to this standard workflow
CGG NPA Satellite Mapping	CGG (2017)	Provides input for source rock prediction
Norwegian Sea Basin model 2017	Statoil (2017a)	Uses as basis model for source and migration in the area applied for
24th licensing round: Blocks 6503/8, 11, 12 and 6504/10, 11	Statoil (2017b)	Used for describing the concept of source rock identification based on event stratigraphy
Aasta Hansteen Project Summary – Structure as it relates to Trap/Seal	Statoil (2017c)	Used in the assessment of trap seal
Biostratigraphic age updates and correlation mid-NCS deep water area	Equinor (2018)	Used to improve the age-resolution and correlation of the Cretaceous and Cenozoic intervals
Asterix Depth Conversion DG2	Equinor (2019a)	Used in the depth conversion evaluation
PL1019 Depth Conversion	Equinor (2019b)	Used in the depth conversion evaluation
One Norwegian Sea Regional Project	Equinor (in prep. a)	Used in the basin and reservoir development evaluation
The Cretaceous Petroleum Systems of the Norwegian Sea, part I – Source rock presence, quality and distribution in the Møre, Vøring, Tromsø basins and adjacent areas	Equinor (in prep. b)	Used for source rock presence, quality and distribution

3 Prospect update report

- Common seismic database for latest seismic (PGS23M02) does not cover PL1128 B.
- Two prospects (Justforkix and Picanmix) identified which are partly within PL1128 B, apices of both prospects are within PL1128.
- **Justforkix** is of low confidence. AVO work on new seismic data (PGS23M02) within the common database has shown that the Justforkix prospect is most likely consisting of a much thinner reservoir as previously assumed and hence, its volume potential has decreased significantly.
- **Picanmix** is of low volume potential. The Operator has re-evaluated the amplitude shut-off based on new seismic data (PGS23M02) that is not within the current common database of the license and subsequently adjusted (decreased) the prospect outline. Only a minor part of the prospect remains in PL1128 B. Volume potential is slightly increased, while the geological probability (Pg) has been increased significantly.
- Justforkix and Picanmix are ~30 and ~35 km away from the Irpa template and a potential Obelix Upflank template will be ~9 and ~15 km away respectively.
- Development of Obelix Upflank is planned to be sanctioned mid-2028, given commercial success in the PL1128 exploration drilling campaign in 2027 (Asterix South and Lillefix).

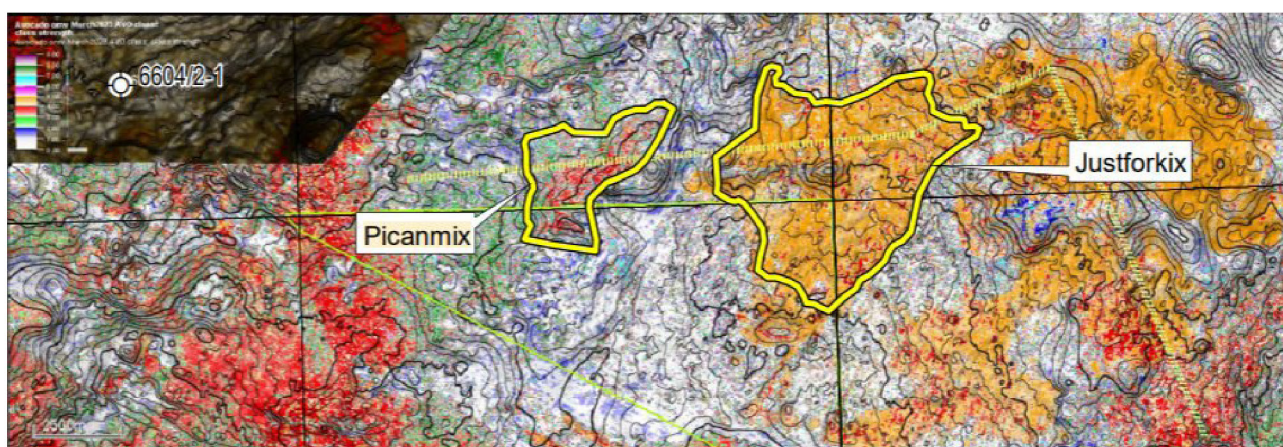


Figure 3 AVO class map of Picanmix and Justforkix, showing that the AVO class of Justforkix does not indicate gas filled sand.

Table 4 Overview of resource potential within PL1128 B.

Prospect	Lithostrat	Depth at apex [m TVD MSL]	HC phase	In place, gas [GSm ³]			Recoverable gas [GSm ³]			Pg [%]
				P90	Mean	P10	P90	Mean	P10	
Justforkix	Springar Fm.	3125	Gas	1.7	4	7.2	0.9	2.2	4	9
Picanmix	Springar Fm	3255	Gas	1.4	2.5	4	0.7	1.4	2.2	54

4 Conclusion

The partnership has decided to relinquish the licence. Both prospect were found not to be of economic interest for the ongoing Obelix Upflank development project.

5 References

Equinor (2023). Application Part of blocks 6604/6 - APA2023, Norwegian continental shelf.

6 Appendices

1. Shapefile Justforkix and Picanmix
2. Sodor Table 4 Prospect data status-report-surrender – Justforkix and Picanmix