

PL1080

License status report

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Summary

PL1080 was applied for and granted in APA 2019. License acreage covers part of blocks 7220/2 and 7220/5 in the Barents Sea. The geological setting is mainly within the Bjørnøyrenna Fault Complex similar to the geological setting of the Johan Castberg field, with well-defined rotated fault blocks. However, present day burial depth is significantly shallower across the area of PL1080, and young erosion is affecting some of the Jurassic and Triassic reservoirs. Trap seal is hence regarded as the key risk in this area where fault seal is evaluated to be the main failure mechanism.

Exploration well 7220/2-2 (Snøras) was drilled in PL1080 in 2024. The well was dry, but had hydrocarbon traces, and failure is related to severe leakage of the trap through faulted cap seal. Additional exploration well drilled in this area is well 7220/2-1 (Isfjell gas discovery), drilled in former PL714 in 2014. The well results from the area north of Johan Castberg (Isfjell, Snøras), and also from well 7220/5-4 (Skred) in neighboring PL532, point to the higher probability for gas than oil in the PL1080 acreage (exception is Istapp having double flat spot) and underfilled structures due to fault leakage or shallow overburden. Hence, any potential discovery would most probably be a non-economical volume of gas. Moreover, technical-economical assessment of the most interesting remaining prospect, Istapp, concluded that even in an optimistic case, the project would not provide a robust economic outcome.

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1 License history

<u>License:</u>	PL1080
<u>Awarded:</u>	14.02.2020
<u>License period:</u>	Initial period: 14.02.2027 Initial extended: 14.02.2028 Initial extended: 14.02.2029
<u>License group:</u>	Equinor 46.3 % (Operator) Vår Energi ASA 30 % Petoro AS 23.7 %
<u>License area:</u>	72 km2
<u>Work program:</u>	14.02.2022 G&G studies and 3D seismic acquisition 14.02.2022 DoD (Exploration well 7220/2-2 drilled June 2024) 14.02.2024 BoK – One year granted 14.02.2025 BoK – One additional year granted 14.02.2026 BoK– Drop
<u>License meeting held:</u>	29.04.2020 ECMC meeting 05.11.2020 ECMC meeting 30.09.2021 EC - work meeting 15.11.2021 ECMC meeting 15.03.2022 ECMC meeting 07.06.2022 ECMC meeting 23.11.2022 ECMC meeting 22.10.2024 EC - work meeting 26.11.2024 ECMC meeting 13.03.2025 EC meeting 26.11.2025 ECMC meeting

Reason for surrender:

Exploration well 7220/2-2 (Snøras) was drilled in PL1080 in 2024 (Figure 1.1). The well was dry with minor hydrocarbon traces. Additional exploration wells drilled in the area north of Johan Castberg include 7220/5-4 (Skred), drilled in 2025 in the northern part of the neighbouring PL532, and well 7220/2-1 (Isfjell), drilled in 2014 in former PL714, both resulted in small gas discoveries. These results indicate that the prospects in the PL1080 area are more likely to contain rather gas than oil. Moreover, the remaining prospects are associated with high trap seal risk and potentially leaked structures, as observed in Snøras, Skred and Isfjell.

Technical-economical assessments lead to the conclusion that there is low probability of a commercial discovery in the PL1080 area that could be developed either as a stand-alone, as a part of a cluster development, or as a tie-in candidate to the Johan Castberg FPSO. The Isfjell gas discovery might be considered for future development, alongside other small gas discoveries in the Greater Johan Castberg area, when there will be available gas capacity on the FPSO. The remaining prospects in PL1080 are therefore not considered candidates for future exploration drilling, and the partnership has decided to surrender the license.

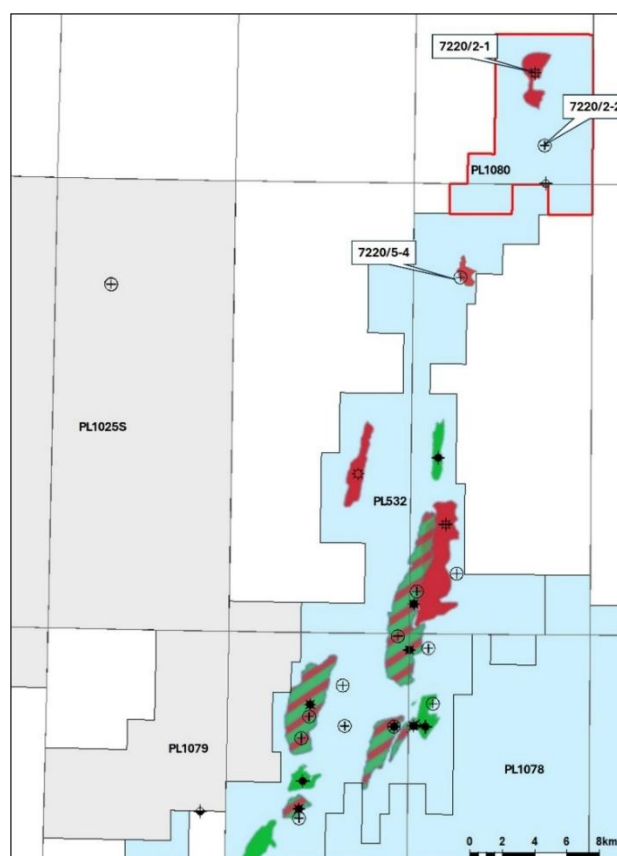


Figure 1.1 License map showing PL1080 and surrounding licenses, wells and discoveries.

2 Data overview

2.1 Seismic database

The seismic database comprises a selection of 2D and 3D seismic data listed in Table 2.1 and shown in Figure 2.1. In the APA 2019 evaluation, the interpretation was mainly based on the merged 3D survey ST13M07 (consisting of WG08, WG09, LN11003 and SG9810), supported by limited regional 2D data where the 3D coverage was absent.

Following APA 2019 (Equinor, 2019), the partnership in PL1080 acquired very high-quality 3D seismic survey CGG19002, which has been used in the evaluation of the prospectivity. In addition, the site survey EQ22312 3D and ultra-high-resolution lines EQ22312 2D acquired in 2022, cover part of the license.

CSEM data from the 2008 survey BSMC08S provided additional support (Figure 2.1). However, this data has poor signal to noise ratio, and the sampling is course relative to the small targets in PL1080.

Table 2.1 Overview of 2D and 3D seismic database.

Seismic Survey	2D/3D	Year	Quality	NPDID
ST13M07	3D	2013	Good	
WG08 (Input to ST13M07)	3D	2008	Good	4559
WG0901 (Input to ST13M07)	3D	2009	Good	7057
LN11003 (Input to ST13M07)	3D	2011	Good	7454
SG9810 (Input to ST13M07)	3D	1998	Good	3942
WG11001	3D	2011	Good	7453
DN14001	3D	2014	Good	8043
CGG19002	3D	2019	Excellent	9001
ST12324	2D	2012	Good	7677
ST14302 (UHR & HR)	2D	2014	Good	7964
NBR06	2D	2006	Good	4365
NBR07	2D	2007	Good	4451
NBR08	2D	2008	Good	4573

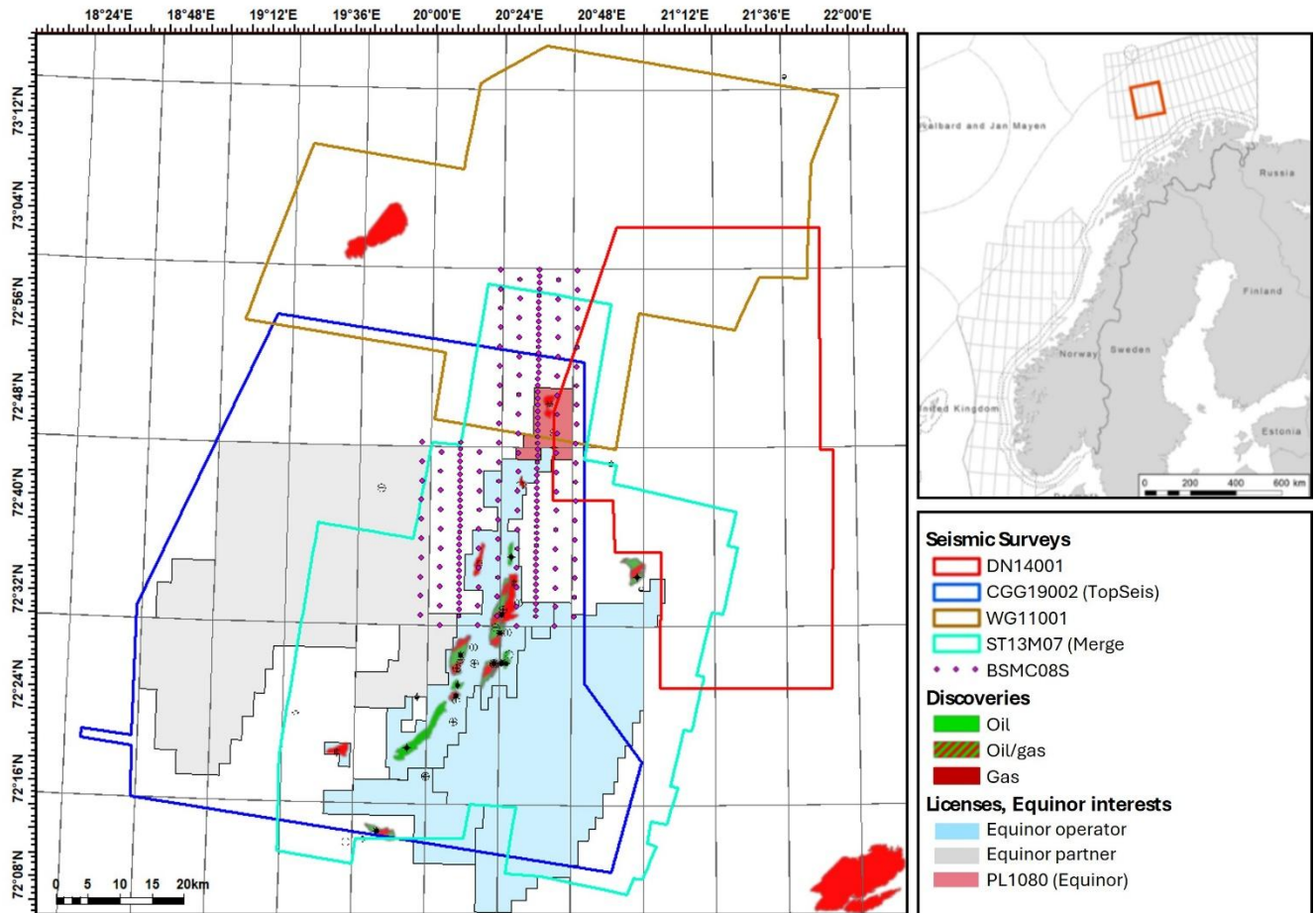


Figure 2.1 3D seismic surveys and CSEM data used in the evaluation of PL1080. 2D seismic surveys are not shown in this figure but are listed in Table 2.1.

2.2 Well data

Wells used in the technical evaluation and resource assessment are highlighted in Figure 2.2 and summarized in Table 2.2. Partnership has access to all listed wells.

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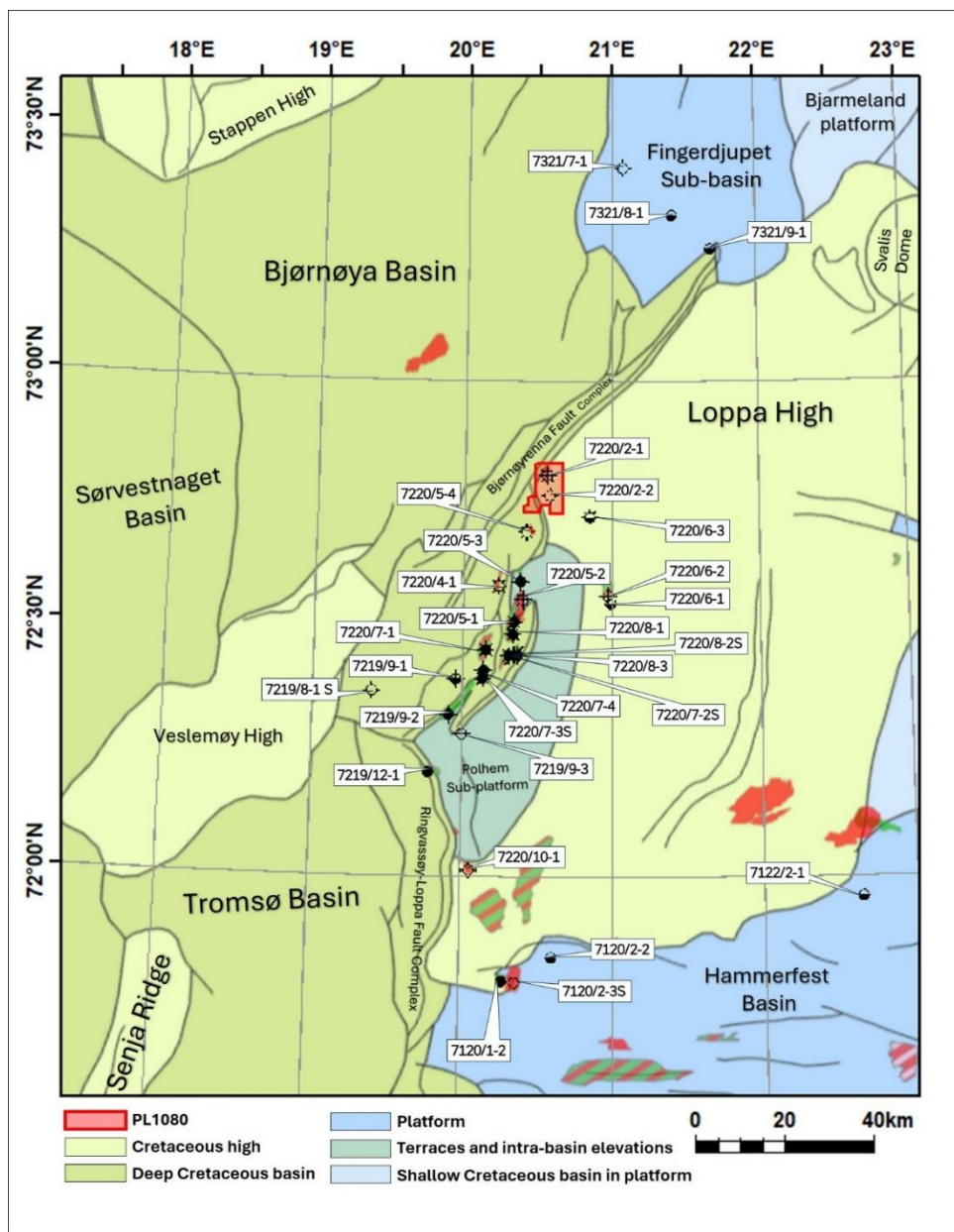


Figure 2.2 Wells used in the evaluation of the prospectivity in the PL1080 area shown on the Barents Sea structural map.

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Table 2.2 PL1080 common well database.

Well name	Year	Operator	Status	Age at TD	NPDID
7220/5-4	2025	Equinor AS	Gas	Late Triassic	10292
7220/2-2	2024	Equinor AS	Shows	Early Jurassic	10065
7220/8-2 S	2022	Equinor AS	Oil	Late Triassic	9535
7220/8-3	2022	Equinor AS	Oil/gas	Late Triassic	9551
220/7-4	2021	Equinor AS	Oil	Early Jurassic	9220
7219/9-3	2020	Equinor AS	Dry	Late Triassic	8960
7220/5-3	2018	Equinor AS	Oil	Late Triassic	8539
7220/6-3	2017	Lundin Norway AS	Shows	Carboniferous	8203
7219/9-2	2017	Statoil Petroleum AS	Oil	Middle Triassic	8193
7219/12-1	2017	Lundin Norway AS	Oil/gas	Late Triassic	8024
7220/7-3 S	2014	Statoil Petroleum AS	Oil/gas	Late Triassic	7414
7220/2-1	2014	Statoil Petroleum AS	Gas	Late Triassic	7558
7220/4-1	2014	Statoil Petroleum AS	Gas	Middle Triassic	7307
7220/6-2	2015	Lundin Norway AS	Shows	Middle Triassic	7748
7220/5-2	2013	Statoil Petroleum AS	Gas	Early Jurassic	7166
7220/7-2 S	2013	Statoil Petroleum AS	Oil/gas	Late Triassic	7252
7220/5-1	2012	Statoil Petroleum AS	Oil/gas	Late Triassic	6775
7220/10-1	2012	Eni Norge AS	Gas	Late Triassic	7015
7120/2-3 S	2011	Lundin Norway AS	Gas	Late Triassic	6592
7220/8-1	2011	Statoil Petroleum AS	Oil/gas	Late Triassic	6484
7220/7-1	2011	Statoil Petroleum AS	Oil/gas	Late Triassic	6756
7220/6-1	2005	Norsk Hydro Produksjon AS	Shows	Basement	5039
7122/2-1	1992	Norsk Hydro Produksjon AS	Dry	Middle Triassic	2018
7219/8-1 S	1992	Saga Petroleum	Dry	Early Jurassic	2031
7120/2-2	1991	Norsk Hydro Produksjon AS	Shows	Middle Triassic	1690
7120/1-2	1989	A/S Norske Shell	Oil	Late Triassic	1366
7219/9-1	1988	Norsk Hydro Produksjon AS	Shows	Late Triassic	1138
7321/7-1	1988	Mobil Exploration Norway INC	Shows	Middle Triassic	1284
7321/9-1	1988	Norsk Hydro Produksjon AS	Shows	Late Triassic	1339
7321/8-1	1987	Norsk Hydro Produksjon AS	Shows	Late Permian	1070

3 Review of geological and geophysical studies

Following geological, geophysical and well feasibility work has been performed in PL1080:

- Geological and geophysical evaluation of license prospectivity at multiple stratigraphic levels based on the acquired very high-quality 3D seismic survey CGG19002 and also on its reprocessed version CGG19002EQR23.
- Acquisition of site survey EQ22312 3D and ultra-high-resolution lines EQ22312 2D acquired in 2022.
- Drilling of exploration well 7220/2-2 (Snørras) in June 2024. The well was dry with minor hydrocarbon traces.
- Post-well analysis of the Snørras well, including geological and geophysical evaluation of the well result.
- Update of license prospectivity based on the Snørras well results, including additional results from well 7220/5-4 (Skred, a small gas discovery) drilled in neighbouring PL532 in July 2025, also including CSEM analysis.
- Well feasibility studies for potential drilling of shallow prospects.
- Re-evaluation of potential area development solution for the remaining prospectivity, based on lack of hydrocarbons in Snørras (PL1080), and the absence of a previous considered common development solution with Skred (PL532). The business case was updated accordingly.

4 Prospect update report

PL1080 covers parts of blocks 7220/2 and 7220/5 in the Barents Sea. The structural setting is mainly within the Bjørnøyrenna Fault Complex and represents a continuation of play models proven by wells in the Greater Johan Castberg area (Figure 2.2). A small part of the license also covers the western tip of the Loppa High. The prospectivity is located within a tie-back distance to the Johan Castberg FPSO, approximately 35 km. The prospect portfolio was primarily driven by two main prospects, Snø Sweetspot and Brefall Snadd West, supported by several smaller prospects and leads (Figure 4.1 and Table 4.1).

The Snø Sweetspot prospect represented a combination trap concept, with juxtaposition of the Upper Triassic Snadd Formation reservoir and Lower Cretaceous Kolmule Formation reservoir across a major north–south trending fault, dividing the prospect into two segments. A double flat event was observed in the seismic data, with depth-conformant amplitude shut-off across both the western (Carnian) and eastern (Lower Cretaceous) segments. Snø Sweetspot was assessed as a robust prospect, with mean recoverable tie-back oil volumes of 6.44 MSm³ and a 36 % probability of discovery. The key risks were primarily related to trap seal integrity, due to very shallow burial depth and reliance on the Quaternary sediments as top seal, as well as moderate uncertainty in reservoir quality.

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During the subsequent license work, Snø Sweetspot was re-evaluated and split into two different prospects: Snø Carnian and Snø Knurr (Figure 4.2, Figure 4.3). This was driven by different reservoir formations, probable lack of communication across the common fault and absence of a common hydrocarbon contact. The Snø Carnian has a 27 % probability of discovery (including DHI upgrade), probability for oil of 27 % for most segments, and an unrisks mean aggregated recoverable oil volume of 0.98 MSm³. The other prospect, Snø Knurr, has similar low oil volume potential, with an unrisks mean aggregated recoverable oil volume of 1.06 MSm³. In addition, Snø Knurr has low probability of discovery 12 %, including DHI upgrade, and a probability for oil of 6 % (Figure 4.2 and Table 4.2.).

The Brefall Snadd West prospect comprised a three-way structural closure in the Upper Triassic Snadd Formation, situated on the same fault block as several discoveries in the Johan Castberg area. Brefall Snadd West was assessed to have mean recoverable oil volumes of 3.26 MSm³ and a 36 % probability of discovery. The primary geological risk was related to fault seal integrity, and limited observations of direct fluid indicators resulted in a downgrade of the a priori geological risk, reflecting poor geophysical support. Later in the license period, the prospect was renamed Brefall. Further evaluation confirmed lack of geophysical support and reservoir risk which caused reduction in oil volume potential (mean recoverable volumes of 1.75 MSm³), and a 38 % probability of discovery (including DHI downgrade) and probability for oil 16 % (Figure 4.2 and Table 4.2.).

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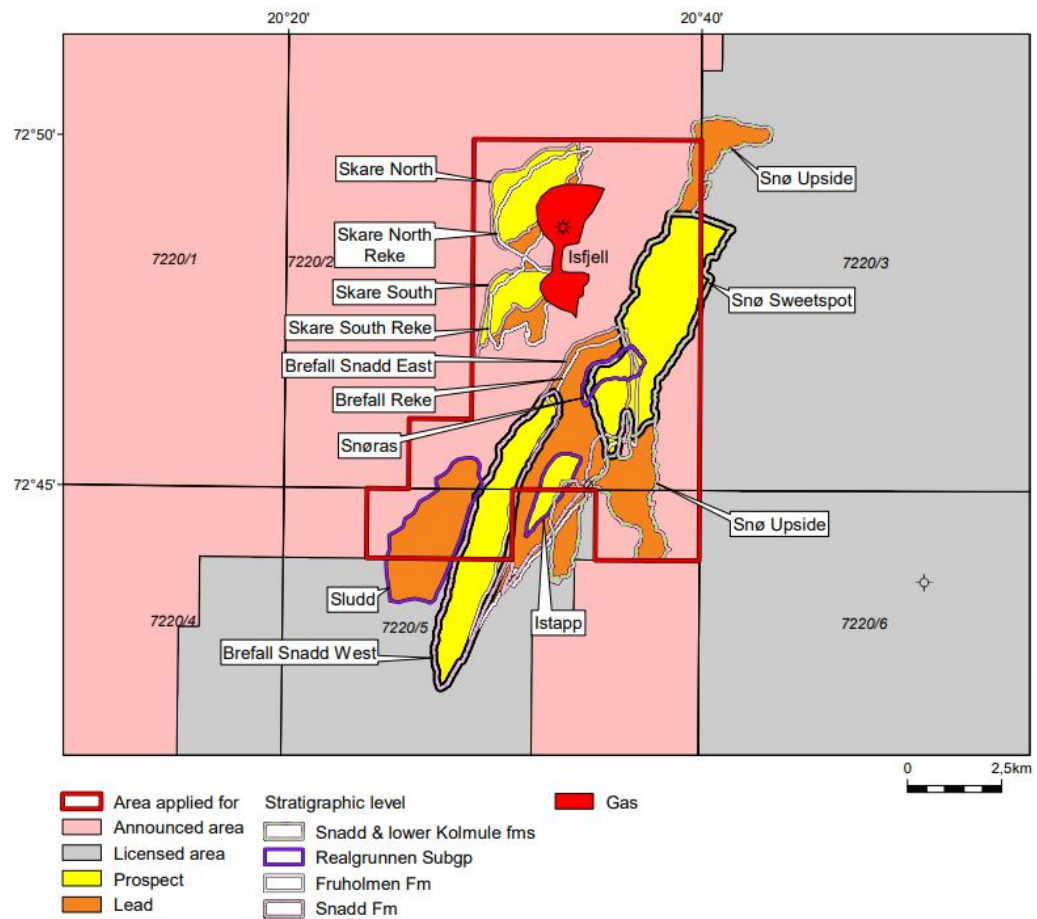


Figure 4.1 Overview map of prospects and leads as applied for in APA 2019, including Isfjell discovery.

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Table 4.1 Resource potential as applied for in APA 2019.

Discovery/ Prospect/ Lead name ¹	D/ P/ L ²	Case (Oil/ Gas/ Oil&Gas) ³	Unrisked recoverable resources ⁴						Probability of discovery ⁵ (0.00 - 1.00)	Resources in acreage applied for [%] ⁶ (0.0 - 100.0)	Reservoir		Nearest relevant infrastructure ⁸	
			Oil [10 ⁹ Sm ³] (>0.00)			Gas [10 ⁹ Sm ³] (>0.00)					Litho-/ Chrono- stratigraphic level ⁷	Reservoir depth [m MSL] (>0)	Name	Km (>0)
			Low (P90)	Base (Mean)	High (P10)	Low (P90)	Base (Mean)	High (P10)						
Sne Sweetspot	P	Oil&Gas	2,72	6,44	10,50	0,22	0,80	1,31	0,36	90,0	Snadd Fm/Upper Triassic & Kolmule Fm/Lower Cretaceous	512	Johan Castberg	38
		Oil	2,75	6,76	11,90	0,07	0,22	0,37	0,01	90,0	Snadd Fm/Upper Triassic & Kolmule Fm/Lower Cretaceous	512	Johan Castberg	38
		Gas	0,01	0,02	0,03	0,75	1,53	2,84	0,01	90,0	Snadd Fm/Upper Triassic & Kolmule Fm/Lower Cretaceous	512	Johan Castberg	38
Brefall Snadd West	P	Oil&Gas	1,02	3,26	6,50	0,22	0,33	0,46	0,10	80,0	Snadd Fm/Upper Triassic	1015	Johan Castberg	35
		Oil	2,05	4,66	8,31	0,07	0,23	0,44	0,02	80,0	Snadd Fm/Upper Triassic	1015	Johan Castberg	35
		Gas	0,51	1,14	2,04	0,01	0,02	0,04	0,01	80,0	Snadd Fm/Upper Triassic	1015	Johan Castberg	35
Skare North	P	Oil	2,08	3,68	5,49	0,11	0,20	0,29	0,09	100,0	Snadd Fm/Upper Triassic	976	Johan Castberg	38
		Gas	0,01	0,02	0,03	0,62	1,07	1,59	0,21	100,0	Snadd Fm/Upper Triassic	976	Johan Castberg	38
Skare South	P	Oil	0,09	0,37	0,75	0,00	0,02	0,04	0,10	100,0	Snadd Fm/Upper Triassic	1060	Johan Castberg	36
		Gas	0,00	0,00	0,00	0,03	0,11	0,22	0,23	100,0	Snadd Fm/Upper Triassic	1060	Johan Castberg	36
Istapp	P	Oil	0,31	0,63	1,02	0,01	0,03	0,04	0,41	50,0	Realgrunnen Subgp/Lower- Middle Jurassic	710	Johan Castberg	32
		Gas	0,00	0,00	0,01	0,19	0,32	0,44	0,35	50,0	Realgrunnen Subgp/Lower- Middle Jurassic	710	Johan Castberg	32
Sneras	P	Oil	0,15	0,36	0,65	0,01	0,01	0,02	0,35	100,0	Realgrunnen Subgp/Lower- Middle Jurassic	643	Johan Castberg	35
		Gas	0,00	0,00	0,00	0,09	0,16	0,27	0,30	100,0	Realgrunnen Subgp/Lower- Middle Jurassic	643	Johan Castberg	35
Sne Upside	L	Oil&Gas	1,33	3,52	6,00	0,03	0,30	0,56	0,26	70,0	Snadd Fm/Upper Triassic & Kolmule Fm/Lower Cretaceous	498	Johan Castberg	38
		Oil	1,17	3,44	5,90	0,03	0,10	0,19	0,01	70,0	Snadd Fm/Upper Triassic & Kolmule Fm/Lower Cretaceous	498	Johan Castberg	38
		Gas	0,00	0,01	0,01	0,26	0,83	1,27	0,01	70,0	Snadd Fm/Upper Triassic & Kolmule Fm/Lower Cretaceous	498	Johan Castberg	38
Brefall Snadd East	L	Oil&Gas	0,55	3,90	9,36	0,02	0,21	0,48	0,07	90,0	Snadd Fm/Upper Triassic	1319	Johan Castberg	36
		Oil	1,05	4,24	9,53	0,04	0,21	0,47	0,02	90,0	Snadd Fm/Upper Triassic	1319	Johan Castberg	36
		Gas	0,00	0,01	0,03	0,23	0,79	1,85	0,02	90,0	Snadd Fm/Upper Triassic	1319	Johan Castberg	36
Brefall Reke	L	Oil&Gas	0,61	3,30	7,76	0,03	0,26	0,34	0,05	90,0	Fruholmen Fm/Upper Triassic	931	Johan Castberg	36
		Oil	1,41	4,17	8,58	0,06	0,19	0,40	0,01	90,0	Fruholmen Fm/Upper Triassic	931	Johan Castberg	36
		Gas	0,00	0,01	0,03	0,36	0,86	1,86	0,02	90,0	Fruholmen Fm/Upper Triassic	931	Johan Castberg	36
Skare North Reke	L								100,0	Fruholmen Fm/Upper Triassic	858	Johan Castberg	38	
Skare South Reke	L								100,0	Fruholmen Fm/Upper Triassic	879	Johan Castberg	36	
Sludd	L									80,0	Realgrunnen Subgp/Lower- Middle Jurassic	1457	Johan Castberg	38

The Snøras prospect, described in the 22nd Licensing Round application (Statoil, 2012) and later referenced in APA 2019, became the main drilling target in this license. The exploration well 7220/2-2 tested the Snøras prospect in June 2024 but was dry (Equinor, 2024). Snøras was evaluated to be charged from the Isfjell discovery and/or from the Istapp prospect. The amplitude strength suggests presence of hydrocarbons up-dip of the Snøras well. Oil shows were found in the well. The main reason for Snøras failure is interpreted to be severe leakage of the Snøras trap through the faulted cap seal (provided by the Kolmule Formation) along the western escarpment, indicated by observations of gas leakage in the seismic at the Upper Regional Unconformity in the southern area. Trap seal was identified as the main pre-drill risk. This conclusion does not exclude potential charge of the Snø Knurr prospect via Snøras structure (Figure 4.3).

The only remaining prospect of interest in PL1080 is Istapp located in the southernmost part of this license, partly within PL1080 (Istapp North segment) and partly within PL532 (Istapp South segment) (Figure 4.4). Istapp prospect is a truncated four-way closure, with the main reservoir in the Stø Formation and some contribution from the upper part of the Nordmela Formation (Nordmela-3) in the northern part of the prospect (Figure 4.4). The prospect segments are internally separated by a small, nearly vertical fault. Seismic observations indicate an apparent common gas–oil contact in both segments across this fault. However, the oil column height differs between these segments, being 32 m in the northern segment and smaller in the southern segment. As such, a high dependency between the segments was applied in the prospect analysis. Istapp is situated in a favourable setting for hydrocarbon migration. The trap is not a pure dip closure but relies on thinning of the top seal (Fuglen Formation) near the apex and is affected by erosional truncation in the west, where sealing is provided by the Kolmule Formation. Minor internal faulting is observed, particularly in the southern segment, which may represent potential leakage points. A clear double flat spot is observed across the northern and southern segments, indicating a gas-over-oil scenario and supporting application of a DHI uplift. Istapp North segment has a 72 % probability of discovery and a 90 % probability of finding oil in the structure (Table 4.2, Table 4.2.). Although Istapp is considered an interesting prospect, the relatively small oil volume renders the development non-commercial (see Chapter 5, Technical evaluation).

Other prospects identified within the license acreage are Skare and Sludd (Figure 4.2). Skare structure has low oil volume potential that additionally is spread between several segments and several reservoir levels (Table 4.2.). Sludd structure has very high trap seal risk contributing to low probability of discovery (Table 4.2.). In addition, well results from the area north of Johan Castberg (Skred and Isfjell) indicate higher probability of gas than oil in the PL1080 acreage (except for Istapp, supported by a double flat spot). Any potential gas discovery in PL1080 would likely be marginal. Consequently, the probability of a commercial discovery within the license is considered very low.

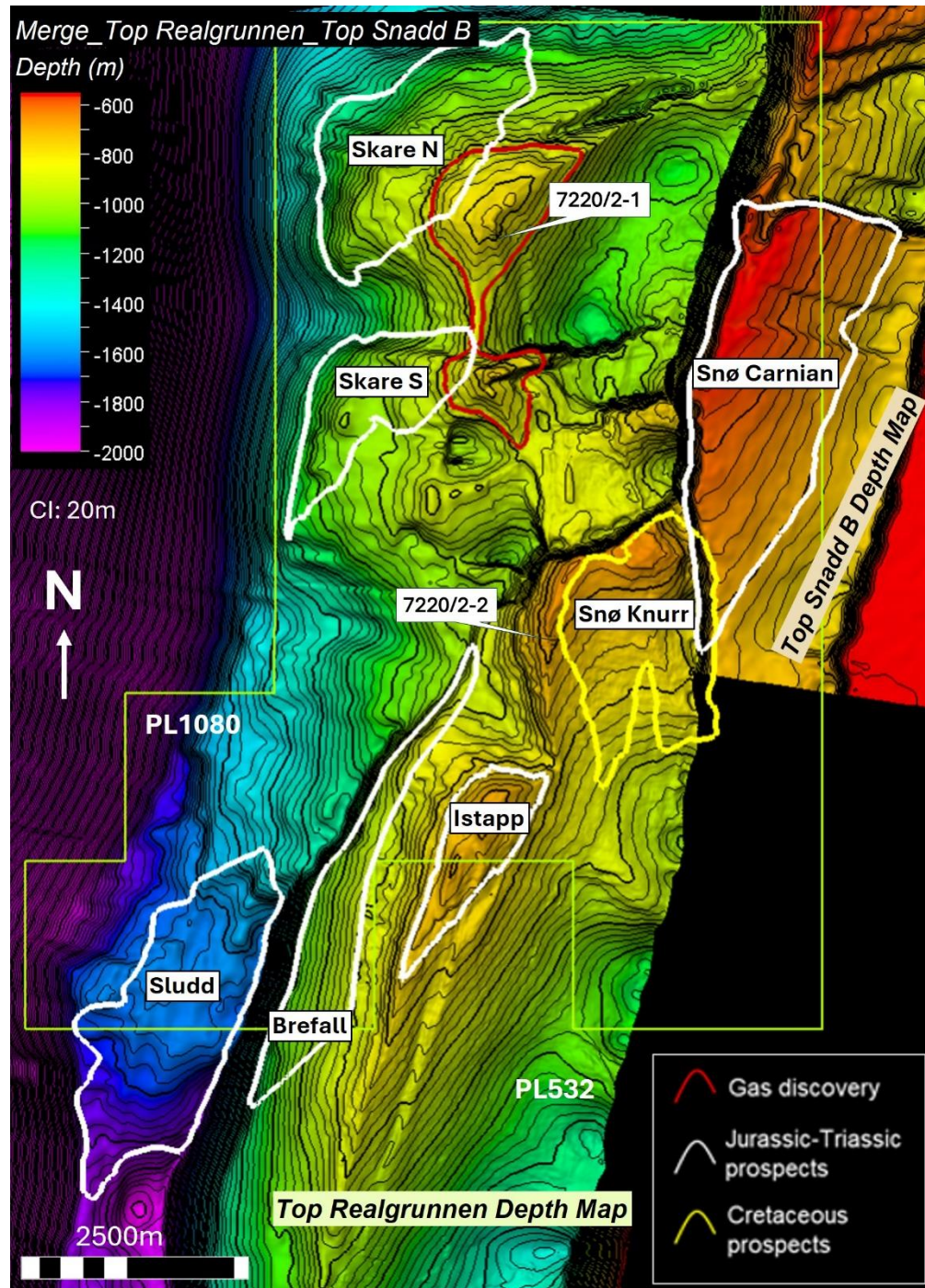


Figure 4.2 Prospectivity in PL1080.

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Table 4.2 Resource potential in PL1080.

Prospect/Discovery	Segment	Reservoir	Oil volume in place (MSm ³)			Oil volume recoverable (MSm ³)			Mean gas in place (GSm ³)	Mean gas recoverable (GSm ³)	Initial Pg	DHI risk (PDHI)	Poil	Main risk and DHI
			P90	Mean	P10	P90	Mean	P10						
Sno Knurr	Main	Knurr	1.91	3.02	4.31	0.62	1.05	1.56	0.25	0.09	0.08	0.12	0.06	Trap Seal (0.2), Reservoir Presence (0.5), HC-Phase Success (0.8), DHI upgrade
Sno Carnian	Southern	Snadd B	1.14	1.71	2.33	0.33	0.51	0.72	0.10	0.05	0.11	0.27	0.27	Trap Seal (0.3), Reservoir Presence (0.4), Source Migration (0.95), DHI upgrade
	Central	Snadd B	0.34	0.48	0.63	0.10	0.14	0.19	0.06	0.03	0.11	0.27	0.27	Trap Seal (0.3), Reservoir Presence (0.4), Source Migration (0.95), DHI upgrade
	Northern	Snadd B	0.57	0.82	1.1	0.16	0.25	0.34	0.08	0.04	0.11	0.27	0.27	Trap Seal (0.3), Reservoir Presence (0.4), Source Migration (0.95), DHI upgrade
	NW Satellite	Snadd B	0.44	0.56	0.7	0.12	0.17	0.22	0.05	0.03	0.11	0.26	0.12	Trap Seal (0.3), Reservoir Presence (0.4), Source Migration (0.95), DHI upgrade
	Aggregated volume:		2.51	3.26	4.05	0.74	0.98	1.23	0.26	0.14		0.27	0.27	
Skare North	Southern	Snadd A	1.28	1.67	2.1	0.43	0.59	0.76	0.26	0.16	0.46	0.67	0.31	Trap Seal (0.6), Reservoir Presence (0.8), Source Migration (0.95), DHI upgrade
	Northern	Snadd A	1.94	2.52	3.16	0.65	0.89	1.15	0.41	0.25	0.46	0.67	0.31	Trap Seal (0.6), Reservoir Presence (0.8), Source Migration (0.95), DHI upgrade
		Akkar	0.44	0.64	0.88	0.15	0.22	0.31	0.09	0.06	0.46	0.67	0.31	Trap Seal (0.6), Reservoir Presence (0.8), Source Migration (0.95), DHI upgrade
	Aggregated volume:		4.08	4.85	5.66	1.38	1.69	2.02	0.76	0.45		0.67	0.30	
Skare North Lower B1	East	Snadd B1	0.96	1.28	1.63	0.27	0.39	0.51	0.23	0.13	0.23	0.50	0.23	Trap Seal (0.6), Reservoir Presence (0.4), Source Migration (0.95), DHI upgrade
	West	Snadd B1	0.22	0.34	0.48	0.06	0.10	0.15	0.06	0.03	0.23	0.50	0.23	Trap Seal (0.6), Reservoir Presence (0.4), Source Migration (0.95), DHI upgrade
	Aggregated volume:		0.25	0.97	1.85	0.07	0.29	0.56	0.08	0.13		0.50	0.36	
Skare North Lower B2	SouthEast	Snadd B2	1.28	1.68	2.14	0.36	0.51	0.68	0.32	0.18	0.23	0.50	0.23	Trap Seal (0.6), Reservoir Presence (0.4), Source Migration (0.95), DHI upgrade
	NorthEast	Snadd B2	0.94	1.24	1.57	0.27	0.37	0.50	0.23	0.13	0.23	0.50	0.23	Trap Seal (0.6), Reservoir Presence (0.4), Source Migration (0.95), DHI upgrade
	West	Snadd B2	0.18	0.34	0.52	0.05	0.10	0.16	0.06	0.04	0.23	0.50	0.23	Trap Seal (0.6), Reservoir Presence (0.4), Source Migration (0.95), DHI upgrade
	Aggregated volume:		0.38	1.85	3.30	0.11	0.55	0.99	0.36	0.20		0.50	0.43	
Skare South	East	Snadd A	1.01	1.34	1.70	0.34	0.47	0.62	0.23	0.14	0.46	0.67	0.31	Trap Seal (0.6), Reservoir Presence (0.8), Source Migration (0.95), DHI upgrade
	West SW	Snadd A	0.54	0.71	0.90	0.18	0.25	0.33	0.12	0.07	0.46	0.67	0.31	Trap Seal (0.6), Reservoir Presence (0.8), Source Migration (0.95), DHI upgrade
	West NW	Snadd A	0.37	0.48	0.61	0.12	0.17	0.22	0.08	0.05	0.46	0.67	0.31	Trap Seal (0.6), Reservoir Presence (0.8), Source Migration (0.95), DHI upgrade
	Aggregated volume:		2.15	2.55	2.97	0.74	0.89	1.06	0.43	0.26		0.67	0.30	
Brefall		Snadd A	2.49	5.02	8.41	0.85	1.75	2.95	0.85	0.51	0.38	0.27	0.16	Trap Seal (0.5), Reservoir Presence (0.8), Source Migration (0.95), DHI downgrade
Istapp	North	Sto/Nordmela	3.59	4.25	4.94	0.99	1.27	1.58	0.23	0.07	0.72	0.91	0.91	Trap Seal (0.8), HC-Phase Success (0.9), DHI upgrade
Sludd	Sludd	Sto/Nordmela	11.6	14.3	17.2	4.40	5.7	7.06	3.24	1.9	0.09	0.09	0.04	Trap Seal (0.1), Reservoir Presence (0.9)
	Sludd	Tubåen	0.36	5.4	9.33	0.14	2.03	3.53	0.55	0.33	0.10	0.16	0.11	Trap Seal (0.1), DHI upgrade

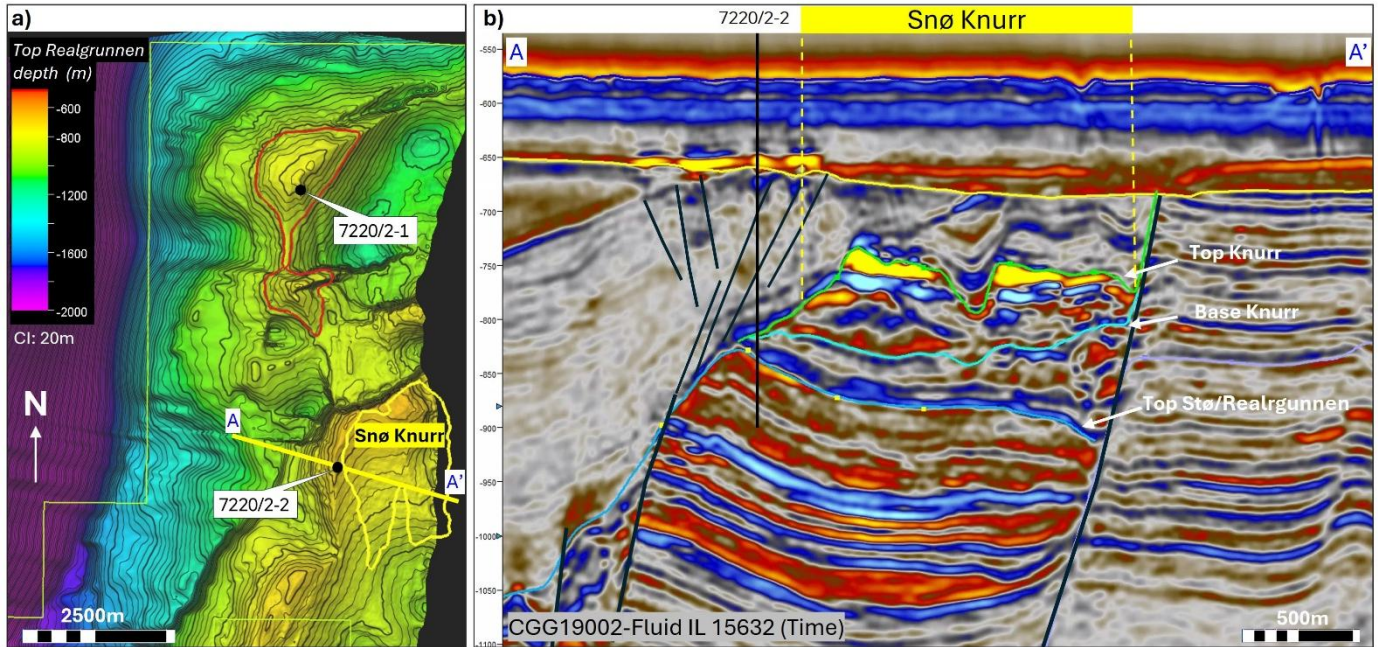


Figure 4.3 a) Top Stø depth map showing the Snørås well (7220/2-2) location, and Snø Knurr prospect outline (yellow outline), Isfjell gas discovery (red outline). b) Seismic section through the Snørås well and Snø Knurr prospect. Seismic line is orientated A-A' and its location is marked by the yellow line in Figure 4.3 a).

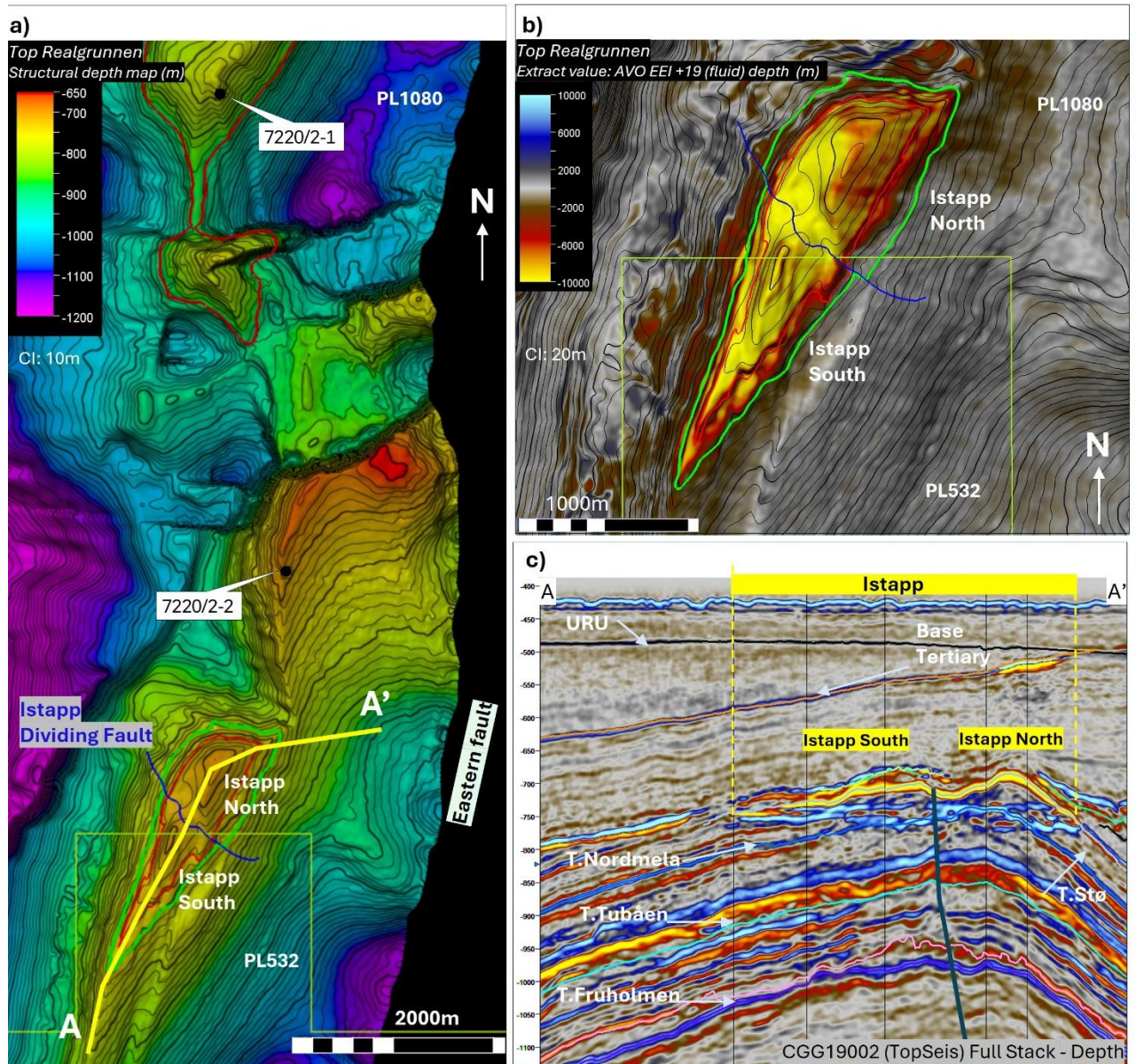


Figure 4.4 a) Top Realgrunnen depth map showing the gas-oil contact (red outline) and oil-water contact (green outline) in the Istapp prospect. b) Top Realgrunnen amplitude map extracted from fluid cube, showing the gas-oil contact (red outline) and oil-water contact (green outline) in the Istapp prospect. c) Seismic section through the Istapp prospect. Seismic line is orientated A-A' and its location is marked by the yellow line in Figure 4.4 a).

5 Technical evaluation

In earlier technical-economical evaluations, a common development solution was planned for Snøras, Istapp (PL1080) and Skruis (PL532). Negative exploration results from the Snøras well left the Istapp prospect to carry the costs of a potential development in case of a discovery.

Only the northern segment of the Istapp prospect lies within PL1080, whereas the southern segment is located within PL532. Technical and economical re-evaluation for Istapp prospect has been conducted as part of the assessment of the remaining prospectivity in PL1080. Development of Istapp has been evaluated as a tie-in to the Johan Castberg FPSO. Technical evaluation indicates that Istapp cannot be produced without artificial lift due to shallow reservoir depth resulting in low reservoir pressure, as well as significant friction losses over the long tie-back distance to the Johan Castberg FPSO (approximately 31 km). Riser-based gas lift could be a preferable option to limit friction losses. Economical screening of a simplified development concept (with cold flow to the FPSO - assuming no wax potential, rather than a more expensive heated pipeline and subsea pump solution) demonstrates that even in an optimistic case, the breakeven oil price for Istapp is very high and does not provide a robust economic outcome. High capital costs, elevated breakeven price, and insufficient recoverable volumes result in a non-robust development case. Istapp is therefore considered non-commercial.

The Isfjell gas discovery, located in PL1080, cannot be developed due to limited volume and lack of available gas capacity in the Johan Castberg infrastructure. However, the Isfjell discovery might be considered for future development alongside other small gas discoveries in the Greater Johan Castberg area.

6 Conclusion

Results from recent drilling and re-evaluation of the remaining prospectivity lead to the conclusion that prospects in the PL1080 area are more likely to contain gas rather than oil. Moreover, the remaining prospects are associated with high trap seal risk and potentially leaked structures. The only prospect of interest is Istapp, however, it is considered non-commercial due to a very high breakeven oil price and lack of economic robustness.

The partnership concluded that the probability of a commercial discovery in PL1080 acreage is low, and that no viable standalone or cluster development solution can be supported. Consequently, the remaining prospectivity in PL1080 is not considered suitable for further drilling or development, and the partnership has decided to surrender the license.

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7 Appendix

Istapp North segment

Block NO 7220/2	Prospect name	ISTAPP	Discovery/Prospect/Lead	Isstapp North	Prospect ID (or New!)	NOD approved (Y/N)
Play name	New Play (Y/N)		Outside play (Y/N)			
O&G	Reported by company	Equinor Energy AS	Reference document			Assessment year
1 of 1	Structural element	Blomøyenne FC	Type of trap	Failed four-way (c)	Water depth (m MSL) (>0)	Seismic database (2D/3D)
					423	3D
Resources IN PLACE AND RECOVERABLE						
Volumes, this case						
Main phase						
	Low (P90)	Base, Mode	Base, Mean	High (P10)	Low (P90)	Base, Mode
Oil [10 ⁹ Sm ³] (>0.00)	3.59	4.21	4.25	4.94	0.00	0.00
Gas [10 ⁹ Sm ³] (>0.00)	0.17	0.22	0.23	0.29	0.14	0.17
Oil [10 ⁹ Sm ³] (>0.00)	0.98	1.24	1.27	1.58	0.00	0.00
Gas [10 ⁹ Sm ³] (>0.00)	0.05	0.07	0.07	0.09	0.04	0.05
Jurassic/Jurassic Early					Source Rock, chrono primary	
Jurassic/Jurassic Middle					Source Rock, chrono secondary	
Jurassic/Jurassic Early					Seal, Chrono	Jurassic/Jurassic Early
Jurassic/Jurassic Middle					Seal, Litho	Fuglen Fm
Probability [fraction]						
Oil case (0.00-1.00)	0.00				Oil & Gas case (0.00-1.00)	0.91
Trap (P2) (0.00-1.00)	0.80				Retention (P4) (0.00-1.00)	1.00
Charge (P3) (0.00-1.00)	1.00					
Parameters:						
Depth to top of prospect (m MSL) (>0)	Base	684	High (P10)			
Area of closure [km ²] (>0.0)		0.7	0.8	0.9		
Reservoir thickness [m] (>0)		72	80	88		
H/C column in prospect [m] (>0)		79	84	89		
Gross rock vol. [10 ⁹ m ³] (>0.000)		0.027	0.031	0.037		
Net / Gross [fraction] (0.00-1.00)		0.91	0.94	0.97		
Porosity [fraction] (0.00-1.00)		0.27	0.28	0.29		
Permeability [mD] (>0.0)		373.8	703.1	1089.8		
Water Saturation [fraction] (0.00-1.00)		0.18	0.13	0.08		
Bg [Rm3/Sm3] (<1.0000)		0.0100	0.0100	0.0100		
IRo [Sm3/Rm3] (<1.00)		0.92	0.93	0.94		
GOR, free gas [Sm ³ /Sm ³] (>0)		134271	190729	318169		
GOR, oil [Sm ³ /Sm ³] (>0)		35	40	45		
Recov. factor, oil main phase [fraction] (0.00-1.00)		0.25	0.30	0.35		
Recov. factor, gas ass. phase [fraction] (0.00-1.00)		0.25	0.30	0.35		
Recov. factor, gas main phase [fraction] (0.00-1.00)		0.27	0.30	0.33		
Recov. factor, liquid ass. phase [fraction] (0.00-1.00)		0.27	0.30	0.33		
14	Temperature, top res [°C] (>0)				Register - Init.	Kart oppstart
68	Pressure, top res [bar] (>0)				NOD will insert value	NOD will insert value
1		2	3		Register Date:	Kart dato
	Off criteria for N/G calculation					

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8 References

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