

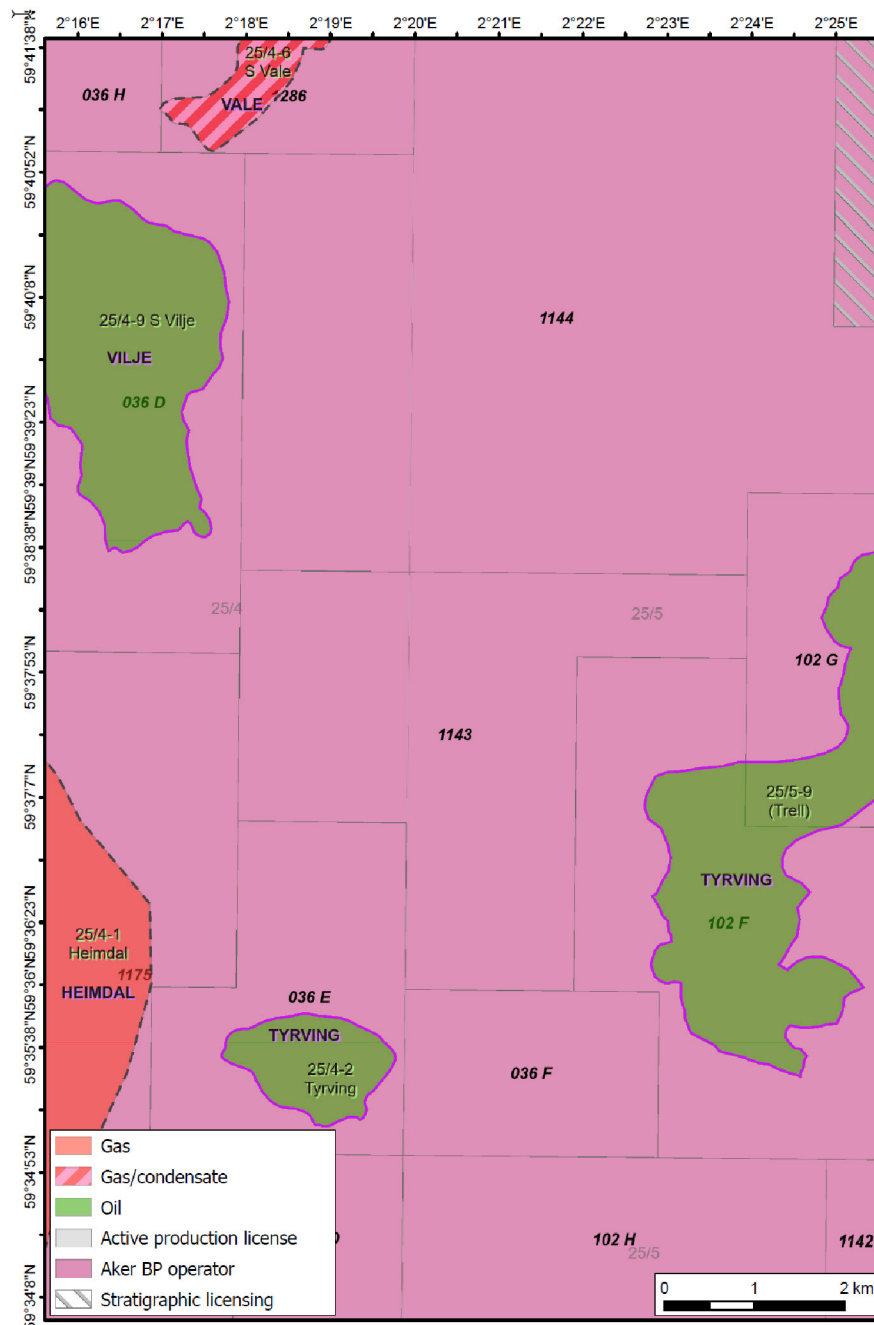
PL1143 Relinquishment report



Partner:



ORLEN
UPSTREAM
NORWAY



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Relinquishment Report PL1143

1 License history

Award, licensees and operator

PL1143 was awarded in the APA2021 licence round[1] on the 11.03.2022. The initial work program was to reprocess 3D seismic, perform G&G studies, decide to drill or drop within two years (11.03.2024). A map showing the location of the licence is shown in Fig. 1.1. The licence group consisted of Aker BP ASA (Operator, 82.06%) and ORLEN Upstream Norway AS (17.94%).

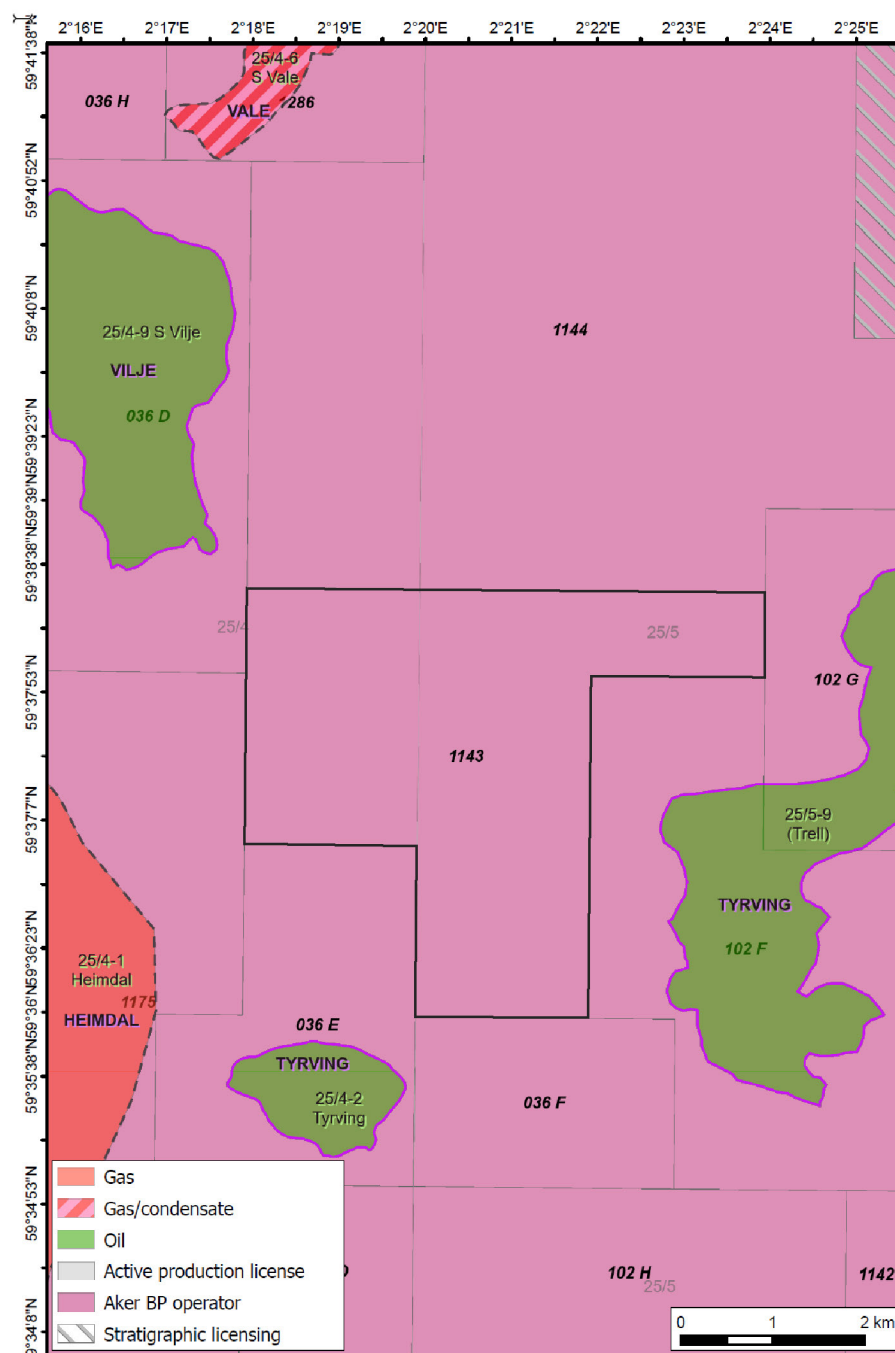


Fig. 1.1 Location map PL1143

Work program

The work program included what's listed below, and was completed within the licence obligation deadline:

- Reprocess 3D seismic
- Geological and geophysical studies
- Decision regarding drill

A 3D seismic survey was processed as part of the licence work obligation. Seismic interpretation, petrophysical analysis and biostratigraphic analysis have been performed in the licence period. The licensees have unanimously decided not to take a positive drill decision and therefore the licence will lapse. The work obligations of the licence are fulfilled.

Applications and decisions to extend the time limits

An application for extended time limits was sent 7th of March 2024. The 16th of May 2024 the Norwegian Offshore Directorate approved one year extension of the time limits. The 5th of December 2024 a new application of deadlines were made, and new one year extension were given at the 8th of January 2025.

Table 1.1 Licence original and extended deadlines

Work obligation	Original deadline:	Extended deadline:
Decision to drill	11.03.2024	11.03.2026
(BoK) Decision to concretize	11.03.2026	11.03.2028
(BoV) Decision to continue	11.03.2027	11.03.2029
(PDO) Submit plan for development	11.03.2028	11.03.2030
Decision to enter extension period	11.03.2028	11.03.2030

Meetings held in the licence

Table 1.2 MC, EC and Work meeting activity in PL1143,

Date	Activity	Comment
22/4-2022	ECMC meeting	Start up of the licence
23/11-2022	ECMC meeting	Ongoing work and budget
20/11-2023	ECMC meeting	Ongoing work and budget
19/11-2024	ECMC meeting	Ongoing work and budget
24/11-2025	ECMC meeting	Ongoing work and budget
28/1-2026	ECMC meeting	Ongoing work and license plan

2 Database

2.1 Seismic Data

Fig. 2.1 shows the outline of the seismic surveys that are in the licence database for PL1143. Table 2.1 shows details of the seismic datasets. The ABP24M03 is a larger re-processing in the area, but only the part inside the "CDB_1142_1143" outline in the map was included in the licence database.

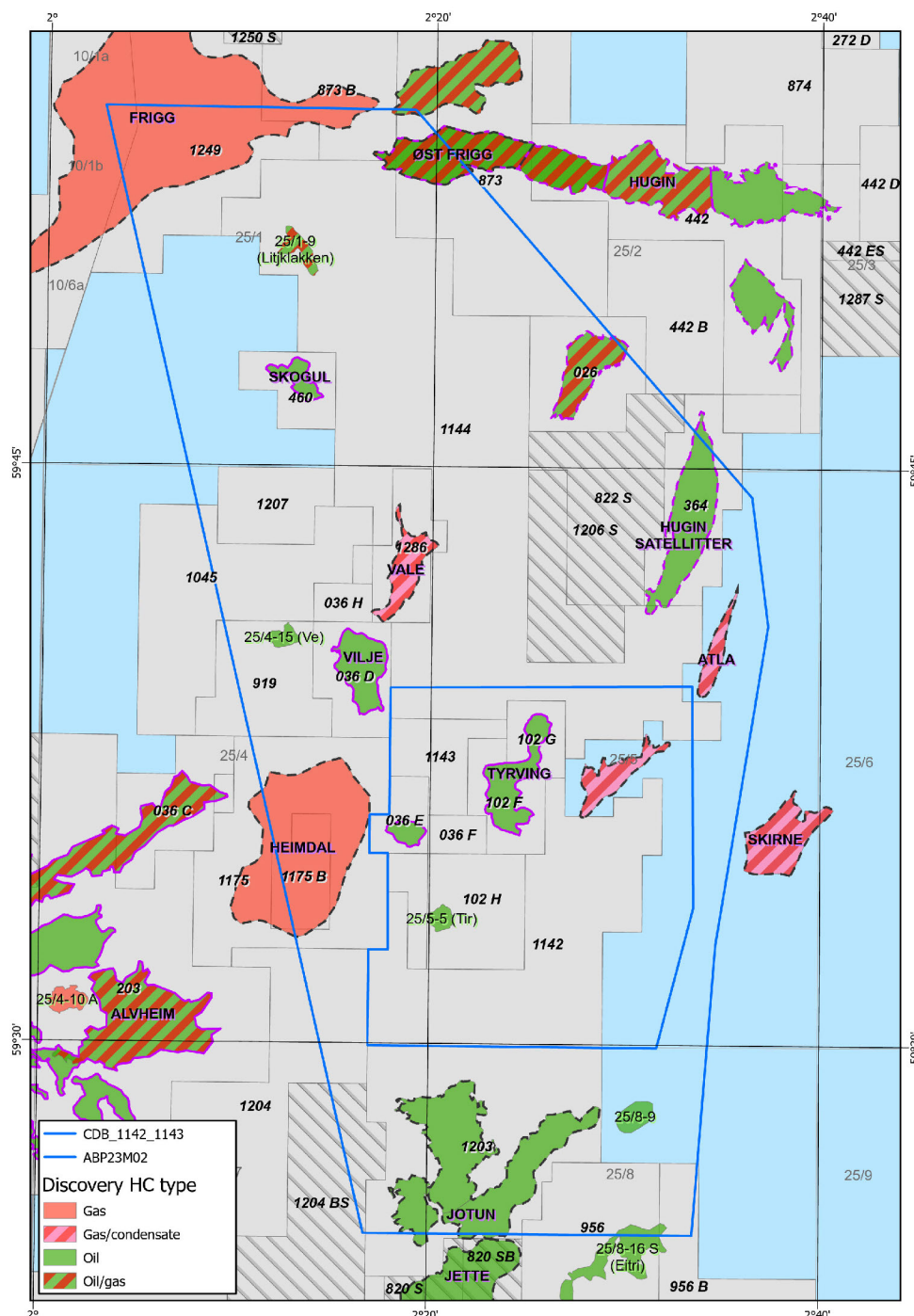


Fig. 2.1 PL1143 common seismic database.

Table 2.1 Table showing details of the seismic datasets.

Seismic Survey	Type	Year	PSTM/PSDM	Offset Data	NPD ID	Comment
ABP22M02	3D	2022	PSDM/FWI	Yes	MC3D-NVG09 (NPDID 7056) MC3D-NVG10 (NPDID 7189)	
ABP23M02	3D	2023	PSDM/FWI	Yes	NH9603 NPDID 3785, ES9403 NPDID 3644, MC3D-NVG09 NPDID 7056, MC3D-NVG10 NPDID 7189, MC3D-NVG11 NPDID 7377	NVG09/10/11 (main) NH9603 and ES9403 (hole filling)
ABP24M03	3D	2024	PSDM/FWI	Yes	MC3D-NVG09 (NPDID 7056) MC3D-NVG10 (NPDID 7189) MC3D-NVG11 (NPDID 7377) MC3D-SVG11 (NPDID 7378) MC3D-BYL2013 (NPDID 7811) MC3D-BERYL12 (NPDID 7670) ABP17001 (NPDID 8461) NH9603 (NPDID 3785) ES9403 (NPDID 3644)	Only parts of the survey in the CDB (see map)

2.2 Well Data

Fig. 2.2 is showing a location map of the wells in the common well database. Table 2.2 is showing details about the wells in the database.

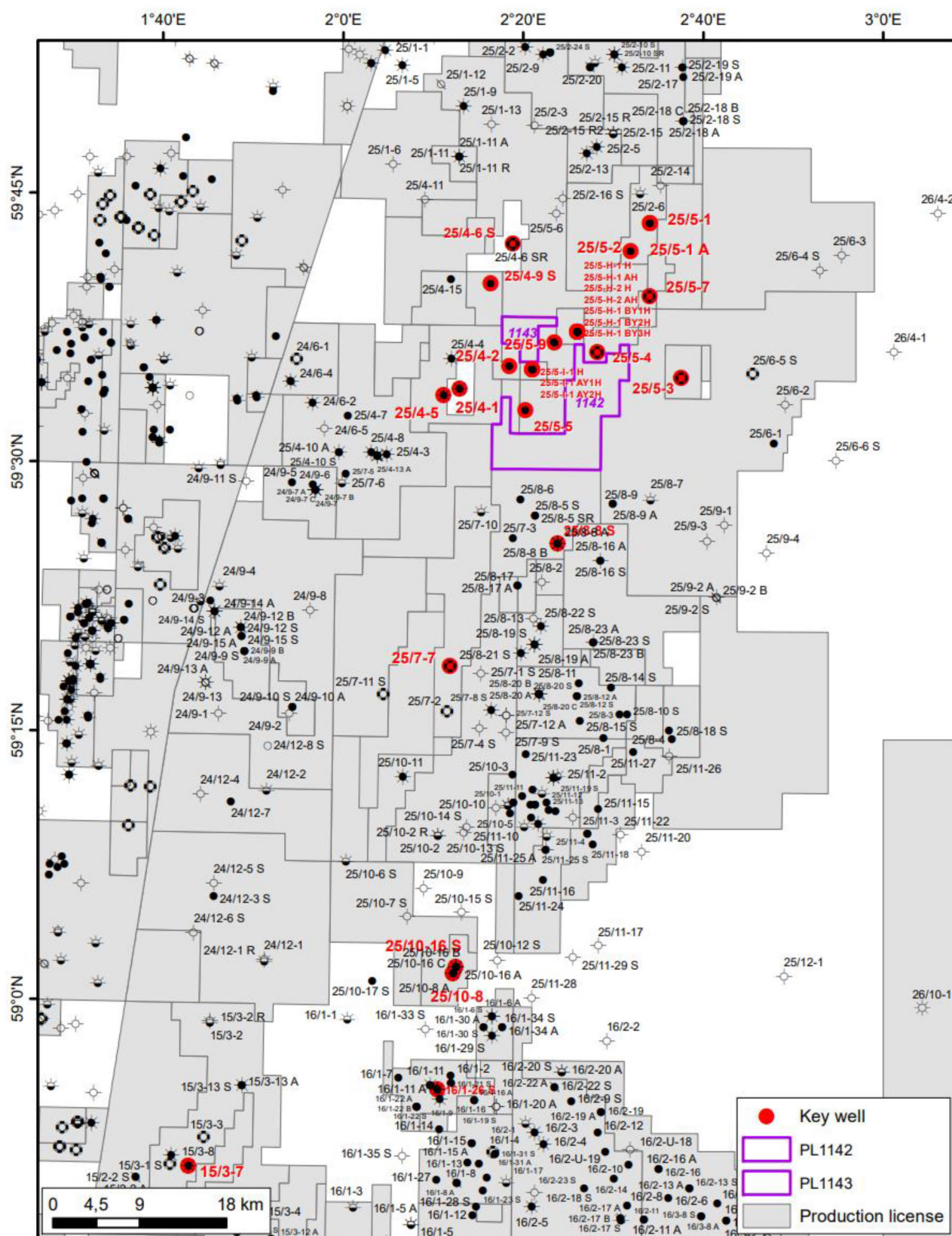


Fig. 2.2 Map showing the location of the wells in the common well database

Table 2.2 Table of the wells in the common well database.

Well	Informal Name	WDm	Year	Stratigraphy at TD	TDm MSL	Operator	Wellbore content
25/4-1	Heimdal	122	1972	Smith Bank Fm	4037	Elf	O/G
25/4-5	Heimdal	121	1981	Smith Bank Fm	4330	Elf	O/G
25/4-2	Trine	121	1973	Jorsalfare Fm	2775	Elf	Oil
25/4-6S	Vale	114	1991	Statfjord Gp	4114	Elf	G/C
25/4-9S	Vilje	120	2003	Heimdal Fm	2377	Norsk Hydro	Oil
25/5-1	Frøy	118	1987	Hegre Gp	3404	Elf	Oil
25/5-1A	Frøy	118	1987	Drake Fm	3432	Elf	Oil
25/5-2	Frøy appr.	117	1989	Drake Fm	3280	Elf	Oil
25/5-3	Skirne	118	1990	Triassic	2878	Elf	G/C
25/5-4	Byggve	120	1991	Statfjord Gp	3159	Elf	G/C
25/5-5	Tir	122	1995	Våle Fm	1995	Elf	Oil
25/5-7	Atla	119	2010	Hegre Gp	3023	Total	G/C
25/5-9	Trell	122	2014	Heimdal Fm	2265	Total	Oil
25/7-7	Busta	126	2019	Heather Fm	4705	ConocoPhillips	G/C
25/8-8S	Jotun	127	1995	Draupne Fm	2319	Esso	O/G
25/10-8	Hanz	115	1997	Rotliegend Gp	2627	Esso	O/G
25/10-16 S	Hanz	117	2018	Hegre Gp	2643	Aker BP	O/G
15/3-7	Gudrun	109	2001	Sleipner Fm	4799	Statoil	O/G
16/1-26 S	West Cable	113	2016	Skagerrak Fm	2921	Det norske	O/G
UK 16/7-3	Brae	104	1976	Upper Jurassic	4160	Pan Ocean	Oil
UK 16/8b-2	Miller	107	1982	Middle Jurassic	5000	Conoco	Oil
UK 16/8a-1	Kingfisher	106	1972	Lower Jurassic	4900	Shell	Oil
25/5-H-1-H	Trell Landing Pilot		2024	Heimdal Fm		Aker BP	Oil
25/5-H-1-BY1H	Trell Production Well		2024	Heimdal Fm		Aker BP	Oil
25/5-H-1-BY2H	Trell Production Well		2024	Heimdal Fm		Aker BP	Oil
25/5-H-1-BY3H	Trell Production Well		2024	Heimdal Fm		Aker BP	Oil
25/5-H-1-AH	Trell North Exploration Pilot		2024	Heimdal Fm		Aker BP	Oil
25/5-H-2-H	Trell Sirloin Pilot		2024	Heimdal Fm		Aker BP	Water
25/5-H-2-AH	Trell North Production Well		2024	Heimdal Fm		Aker BP	Oil
25/5-I-1-H	Trine Landing Pilot		2024	Heimdal Fm		Aker BP	Water
25/5-I-1-AY1H	Trine Production Well		2024	Heimdal Fm		Aker BP	Oil
25/5-I-1-AY2H	Trine Production Well		2024	Heimdal Fm		Aker BP	Oil

3 Geological and geophysical studies

Seismic processing

The reprocessed seismic dataset ABP23M02 was included in the seismic database for PL1143. Later, parts of the ABP24M02 was included in the common seismic dataset. The datasets are stored at DISCOS.

Seismic interpretation

The focus of the seismic interpretation has been to identify possible Upper Jurassic sandstone. Base Cretaceous and Top Middle Jurassic has therefore been important in the mapping in order to reign in where Upper Jurassic sandstone could be found. Eventually a possible Intra Draupne Fm was difficult to identify from the seismic.

Biostratigraphical analysis

The stratigraphy has been revisited for key wells penetrating the Jurassic.

4 Prospect update

Prospect Brandy Creek

Brandy Creek was a prospect with reservoir in the Upper Jurassic Intra Draupne Fm sandstone. The possible reservoir sandstones were potentially sourced from the eastern footwall high.

Fig. 4.1 shows a section through the Upper Jurassic Brandy Creek prospect. Fig. 4.2 shows a map of the underlying Hugin Fm in colour and the possible Upper Jurassic reservoir in grey. The purple line on the map is showing the location of the seismic line. The seismic section also illustrates the difficulty of identifying reservoir in the Upper Jurassic. The purple interpretation only indicates a possible location of such a reservoir.

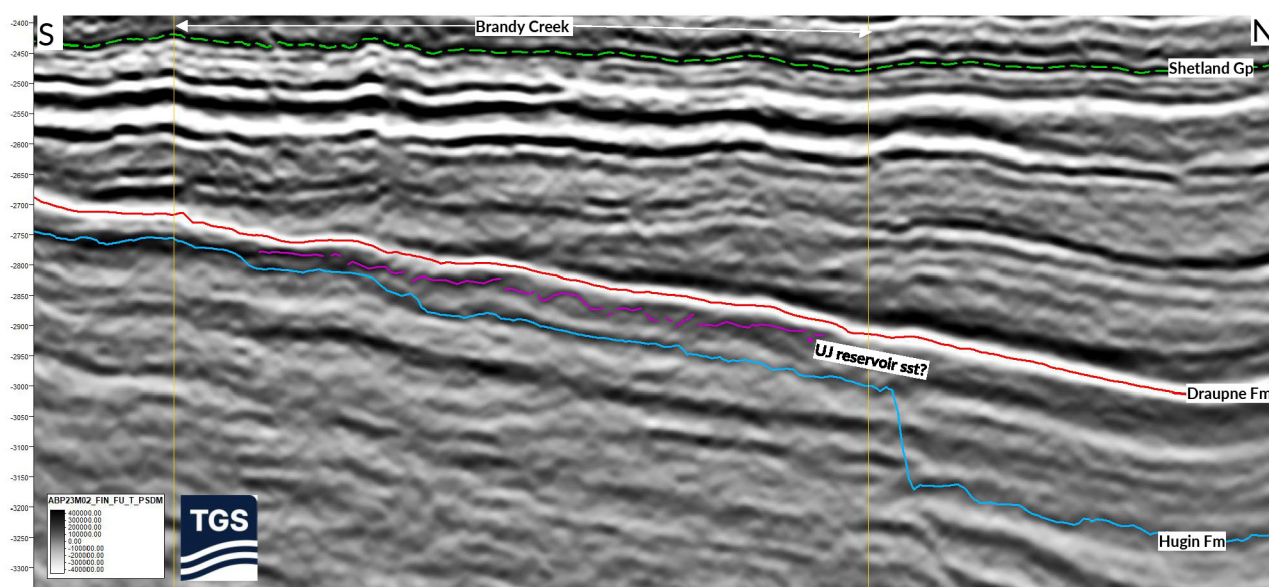


Fig. 4.1 Seismic section showing the Brandy Creek prospect concept. The purple interpretation illustrates the location of the Upper Jurassic prospect Brandy Creek

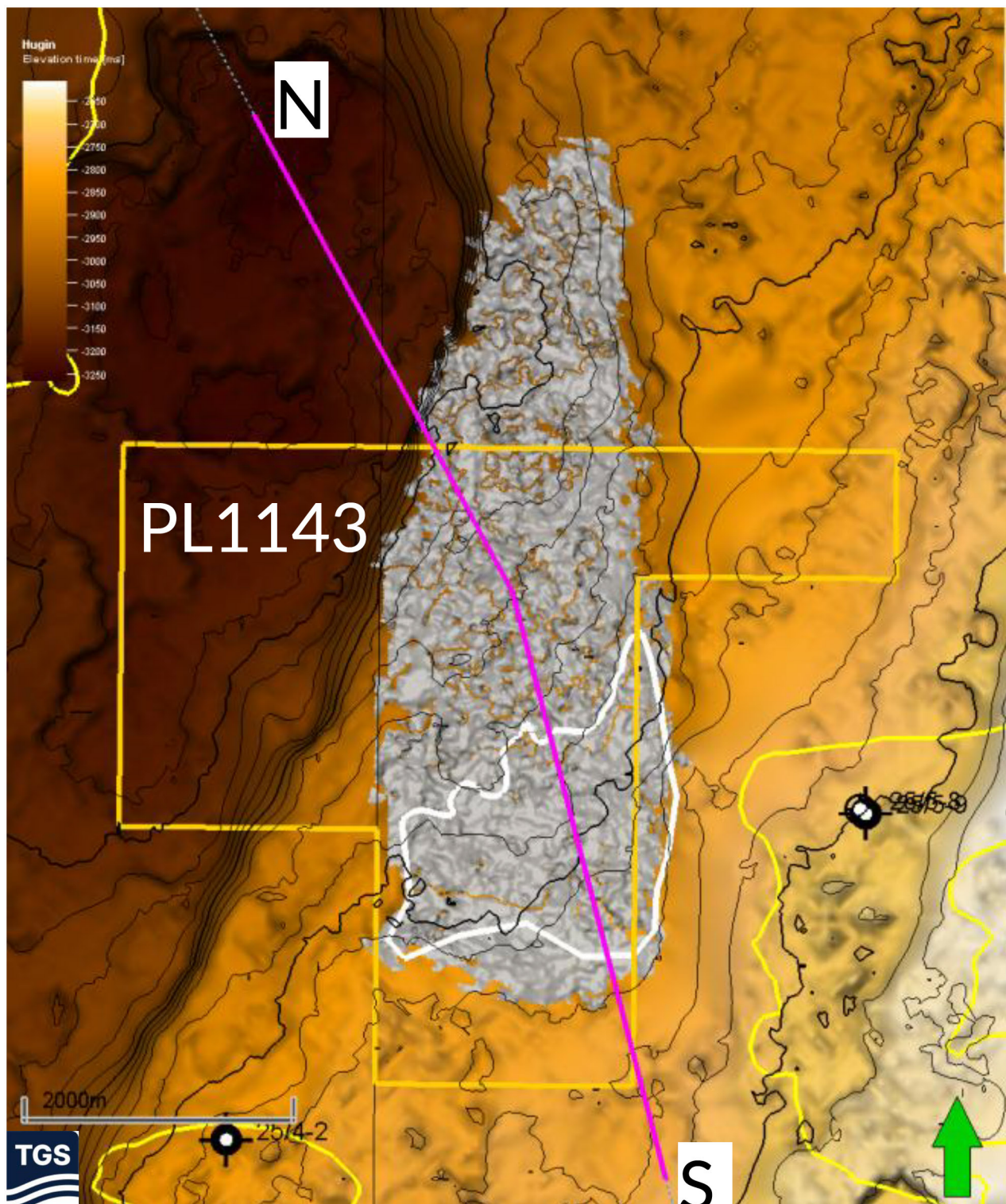


Fig. 4.2 Top Hugin Fm map (in colour). The location of the seismic line is shown in purple on a Top Hugin map. The gray interpretation illustrates the conceptual position of the Upper Jurassic reservoir sandstone.

5 Technical evaluation

Given the high risk on reservoir and seal presence and therefore a low chance of success, a technical evaluation regarding a possible development of the Brandy Creek prospect has not been performed.

6 Conclusion

PL1143 was applied for with main prospectivity in the Upper Jurassic. Given the proximity to the Tyrving developments, a potential discovery would be of good value Fig. 6.1.

The Upper Jurassic Brandy Creek prospect was associated with high risk related to reservoir presence and seal integrity. The G&G work and seismic reprocessing performed during the licence period were not sufficient to reduce these risks, and therefore the licence is surrendered.

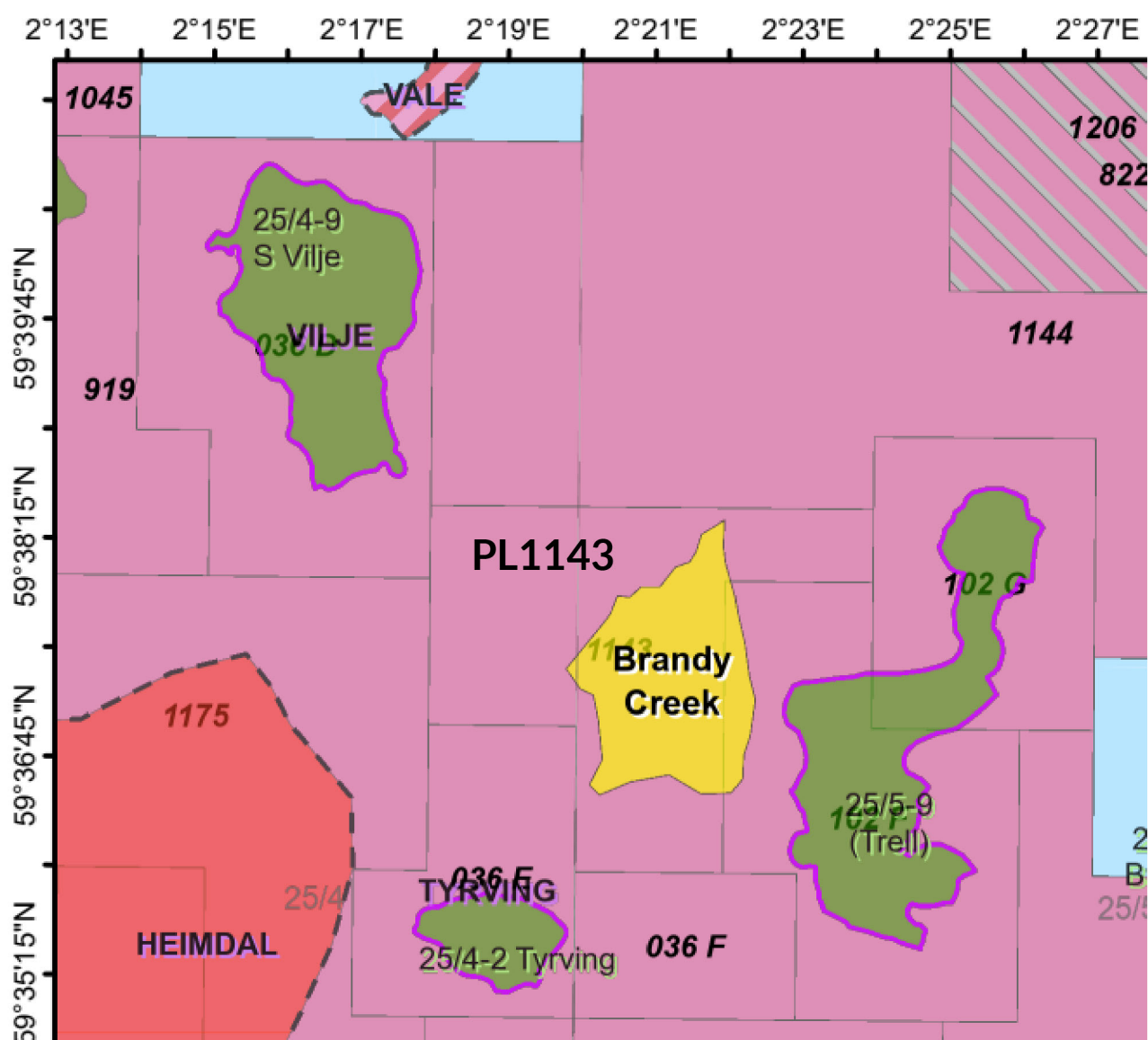


Fig. 6.1 Brandy Creek location The Brandy Creek prospect is located close to the Tyrving developments.

References

- 1 APA 2021. Production license application for blocks 25/4 & 5