



PL 899 – Licence status report

Summary

The main driver for applying for PL899 acreage in the APA 2016 application was to follow up on the oil leg discovered in the 6706/12-2 (Snefrid Nord) well, drilled in 2015. The new conceptual idea was that an oil prone source was located in the Hel Graben, with Hafr and Hornklove (Southwest and Northeast segments) favourable on the migration route South and out of the Hel Graben. Work programme was new modern broadband seismic (better structural image in fault shadow over Hafr and Hornklove), and general G&G work including Petroleum System Analysis (PSA) work. The new PGS16004 broadband seismic has improved the seismic image over the Hafr structure, but there are still no observations supporting presence of hydrocarbons. A pure oil case or a multiphase case with a gas cap within a minimal fault shadow are the most likely success cases. However, the new mean volume estimation for oil is below the minimum commercial threshold volume (18MSm³) calculated in the 2016 application. The PSA work performed after the award has not increased the chance of oil in Hafr or Hornklove. Therefore, the combination of high risk and low oil volume potential in the structures do not support any exploration drilling in PL899.

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1 Licence history

<u>Licence:</u>	PL899
<u>Awarded:</u>	10.02.2017
<u>License blocks:</u>	6706/12 & 6707/10
<u>License period:</u>	Expires 10.02.2024 Initial period: 7 years
<u>License group:</u>	Equinor Energy AS 60% (Operator) OMV (Norge AS) 20% Petoro AS 20%
<u>License area:</u>	371.691 km²
<u>Work program:</u>	Acquire 3D seismic – fulfilled. Decision to drill/drop, deadline February 10 th . 2019.
<u>Meetings held:</u>	
04.2 5.2017	EC/MC startup meeting
11.23.2017	EC/MC meeting (2)
10.23.2018	EC work meeting
11.23.2018	EC/MC meeting (3)
<u>Work performed:</u>	
2017:	Licence start-up
2017:	Prospect mapping / seismic interpretation
2018:	Prospect mapping / evaluation
2018:	Decision made not to drill within the license
<u>Reason for surrender:</u>	
	None of the evaluated prospects within PL899 are regarded as drillable (Figure 1.1)

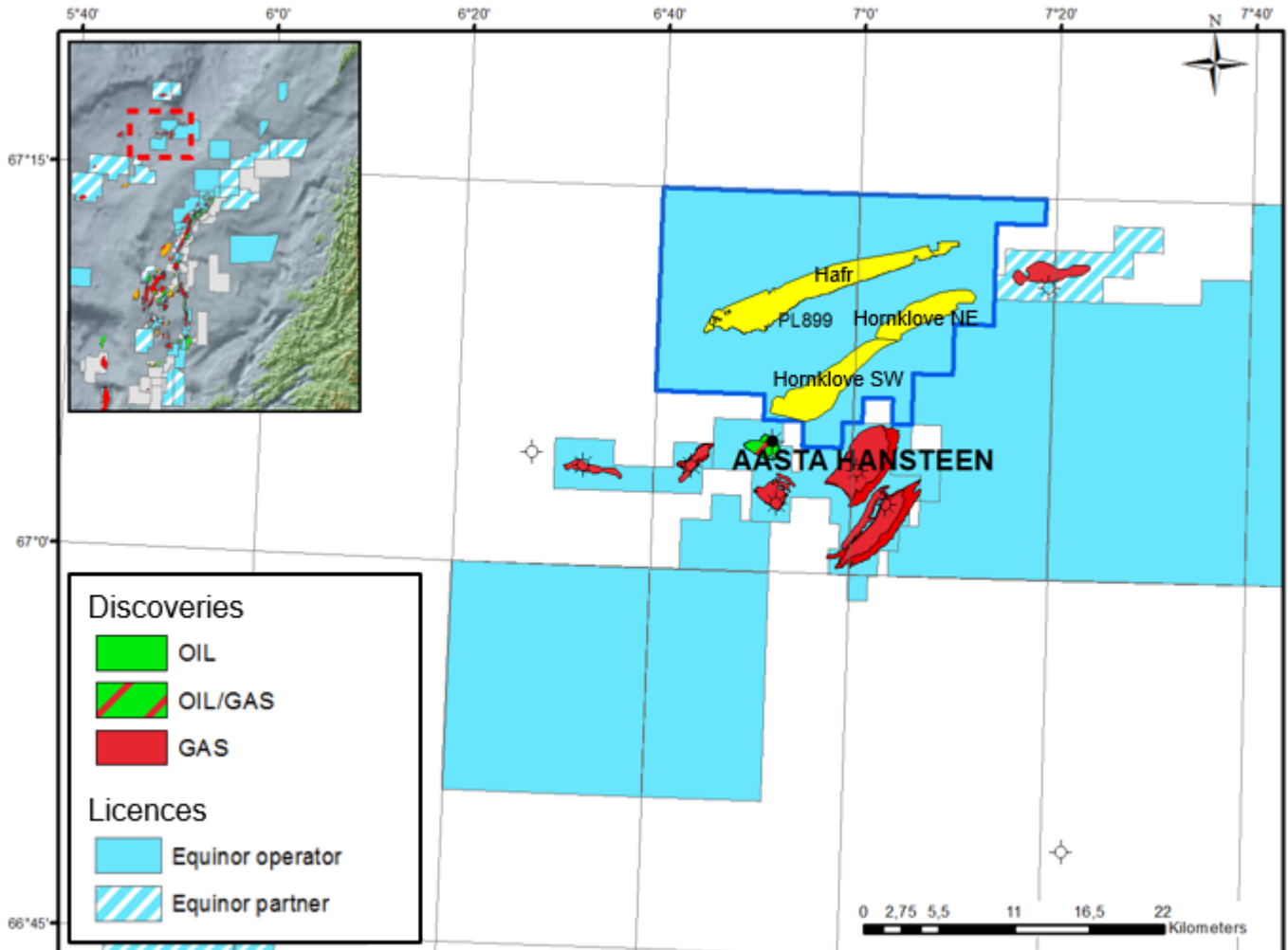
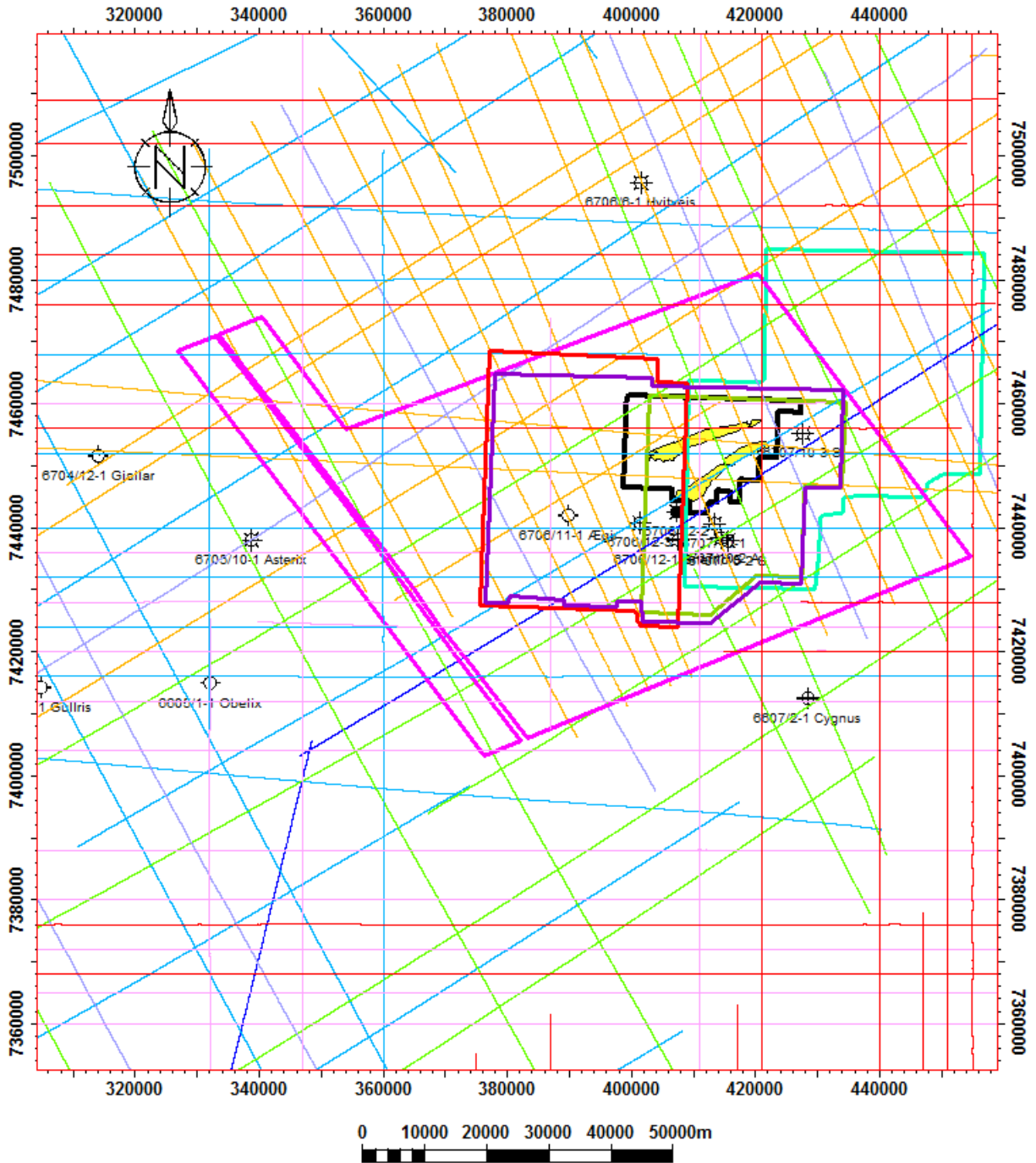


Figure 1.1: PL899 license map, showing the location in the Norwegian sea North of the Aasta Hansteen field. The evaluated prospects Hafr and Hornklove (both in the Kvitnos Fm) are shown in yellow outline.

2 Database overviews

2.1 Seismic data

The 3D seismic data used for interpretation of the Hafr and Hornklove prospects was PGS16004. An overview of the seismic data included in the common data base is shown in figure 2.1. A list of the seismic database is also provided in table 2.1.



Symbol legend			
— PL899	— PGS16004	○ Dry	★ Abandoned oil and gas
— PC10N001	— ST9603	⊕ Dry, plugged and abandoned	
— BPN9601	— ST11M09	⊕ Gas, plugged and abandoned	
— NPD VOERB-85	— NPD VOERB-88	— MNR04	
— NPD VOERB-86	— NPD VOERB-89	— MNR06	
— NPD VOERB-87	— NPD VOERB-90	— MNR09	

Figure 2.1: Map of common seismic and well database for PL899.

Seismic Survey	NPDID	2D/3D	Year	Quality	Status
ST9603 component survey for ST11M09	3830	3D	1996	Fair	Public
BPN9601 component survey for ST11M09	3755	3D	1996	Fair	Public
ST11M09	NA	3D	2011	Good	Public
PC10NO01	7240	3D	2010	Good	Public
PGS16004	8325	3D	2016	Very Good	Market available
NPD-VØRB-85	2765	2D	1985	Fair	Public
NPD-VØRB-86	2866	2D	1986	Fair	Public
NPD-VØRB-87	3007	2D	1987	Fair	Public
NPD-VØRB-88	3145	2D	1988	Fair	Public
NPD-VØRB-89	3263	2D	1989	Fair	Public
NPD-VØRB-90	3338	2D	1990	Fair	Public
MNR04	4252	2D	2004	Fair	Public
MNR06	4364	2D	2006	Fair	Public
MNR09	7001	2D	2009	Fair	Public

Table 2.1: List of seismic data in common seismic database for PL899.

2.2 Well data

A list of all wells in the common well database for PL899 is listed in table 2.2

Wells	Year	Drilling operator	Prospect	NPDID	License	Status	Age at TD	Formation (TD)
6604/2-1	2011	BG Norge AS	Gullris	6568	PL522	Dry	L. Cretaceous	Springar
6605/1-1	2009	StatoilHydro ASA	Obelix	5979	PL328	Dry	L. Cretaceous	Nise
6607/2-1	2007	ENI Norge AS	Cygnus	5471	PL329	Dry	L. Cretaceous	Springar
6704/12-1	1999	Saga Petroleum ASA	Gjallar	3759	PL215	Dry	L. Cretaceous	Nise
6705/10-1	2009	StatoilHydro ASA	Asterix	6044	PL327B	Gas	E. Cretaceous	Springar
6706/6-1	2003	Esso E&P Norway AS	Hvitveis	4705	PL264	Gas	Paleocene	No formal name
6706/11-1	1998	Det Norske Stats Oljeselskap A.S.	Ægir	3202	PL217	Dry	L. Cretaceous	Lange
6706/12-1	2008	StatoilHydro ASA	Snefrid Sør	5867	PL218	Gas	L. Cretaceous	Kvitnos
6706/12-2	2015	Statoil Petroleum AS	Snefrid Nord	7651	PL218	Gas/Oil	L. Cretaceous	Nise
6706/12-3	2015	Statoil	Roald Rygg	7666	PL602	Gas	L. Cretaceous	Kvitnos
6707/10-1	1997	BP Norway Lim. U.A.	Luva	3075	PL218	Gas	L. Cretaceous	Kvitnos
6707/10-2S	2008	StatoilHydro ASA	Haklang	5918	PL218	Gas	L Cretaceous	Nise
6707/10-2A	2008	StatoilHydro ASA	Haklang	5931	PL218	Gas	L Cretaceous	Kvitnos
6707/10-3S	2014	Centrica	Ivory	7550	PL528B	Gas	E Cretaceous	Lange

Table 2.2: List of all wells in common well database in PL899.

3 Results of geochemical, geological and geophysical studies

The regional geological framework for PL899 area is well described in the application for blocks 6706/12 and 6707/10 (APA2016).

A comprehensive PSA study, including geochemical re-analysis, of Late Cretaceous to Paleocene rock and fluid samples have been performed during the regional work for the 24th concession round. The concept of a Paleogene oil prone source which could be time equivalent to the Paleocene-Eocene Temperature Maximum (PETM-event) was somewhat supported by the identification of an AVO class IV anomaly on a regional dataset within Paleocene strata in the western Møre Basin. However, no indication for the presence of such a source rock have been found on new seismic within the PL899 area or in the newly drilled wells in adjacent areas (6705/7-1 and 6706/6-2 S) at time of relinquishment. Thus, the probability of source rock presence and migration could not be increased during licence work.

New geological/geophysical studies consist of interpretation on new 3D seismic data (PGS16004). The new seismic was acquired through purchase of a selection of the 3D multient client broad band dataset provided by PGS (Figure 2.1). New interpretation work includes seismic horizon interpretation, quantitative geophysical analysis (amplitude analysis), and structural mapping (fault mapping) of Hafr and Hornklove prospects (Figure 3.1a). Data quality related to the fault shadow zone over the crest of Hafr was the main motivation for acquiring new data over PL899. ST11M09 data quality was generally good, but the main bounding fault for Hafr was creating a relatively large shadow zone (at Kvitnos level) in which a HCWC could be hidden (Figure 3.1b).

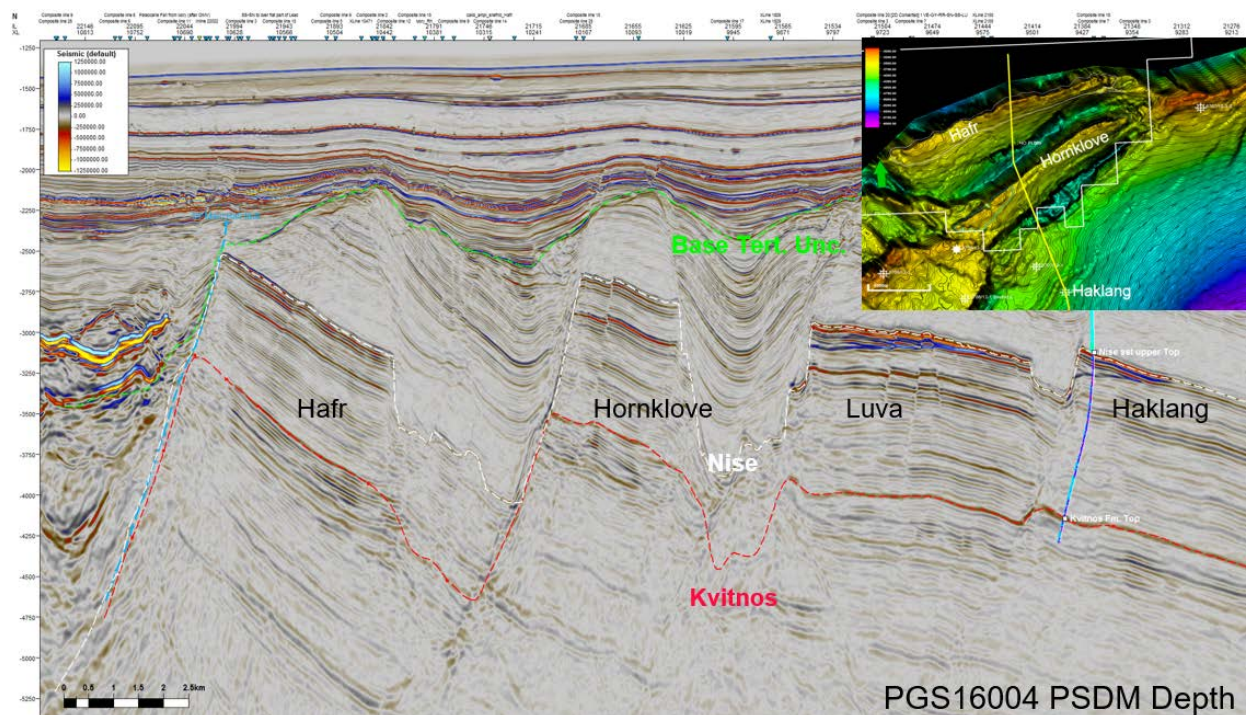


Figure 3.1a: Seismic tie line from Haklang (Kvitnos) gas discovery over to Hornklove and Hafr shown on the new PGS data. Interpretations shown are; Top_Kvitnos (Santonian), Top_Nise (Campanian), and the Base Tertiary Unconformity. Also shown is the interpretation of the main bounding fault for Hafr (blue).

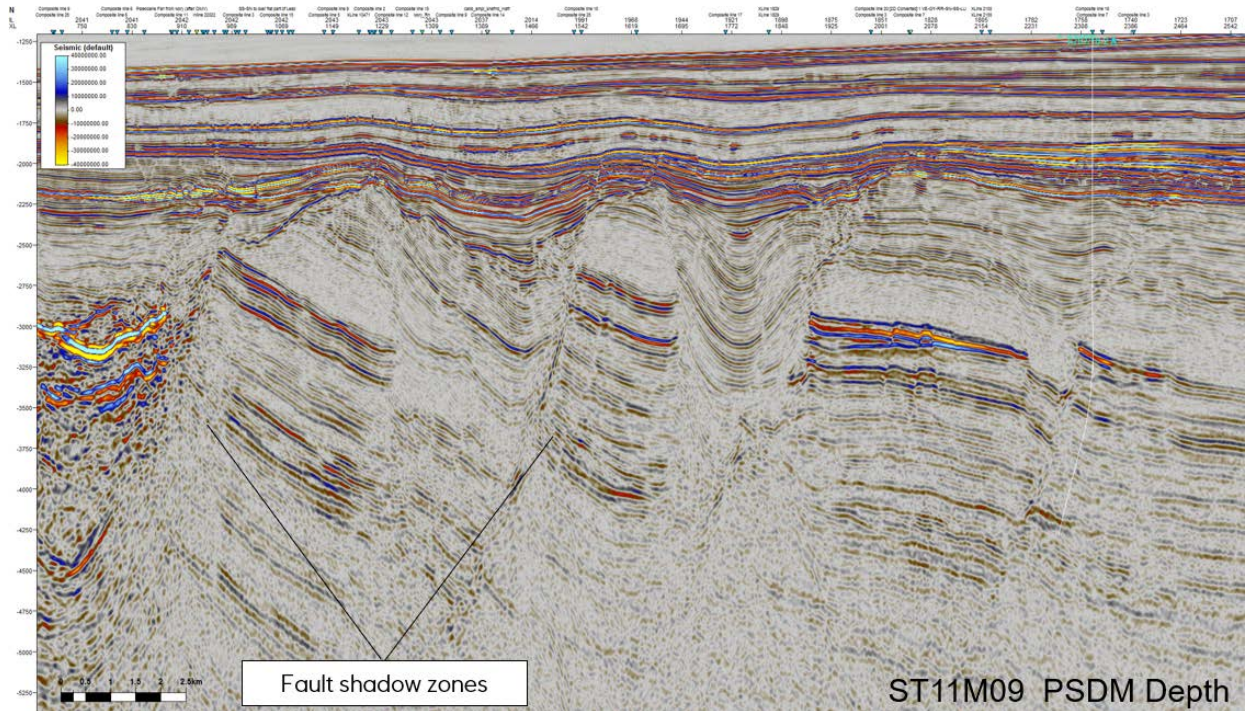


Figure 3.1b: Same seismic tie line over Hafr and Hornklove, but with data from APA2016 (ST11M09).

The new seismic dataset has improved the interpretation over Hafr and Hornklove. But for Hafr, the fault shadow has only been slightly reduced compared with the ST11M09 data (Figure 3.2).

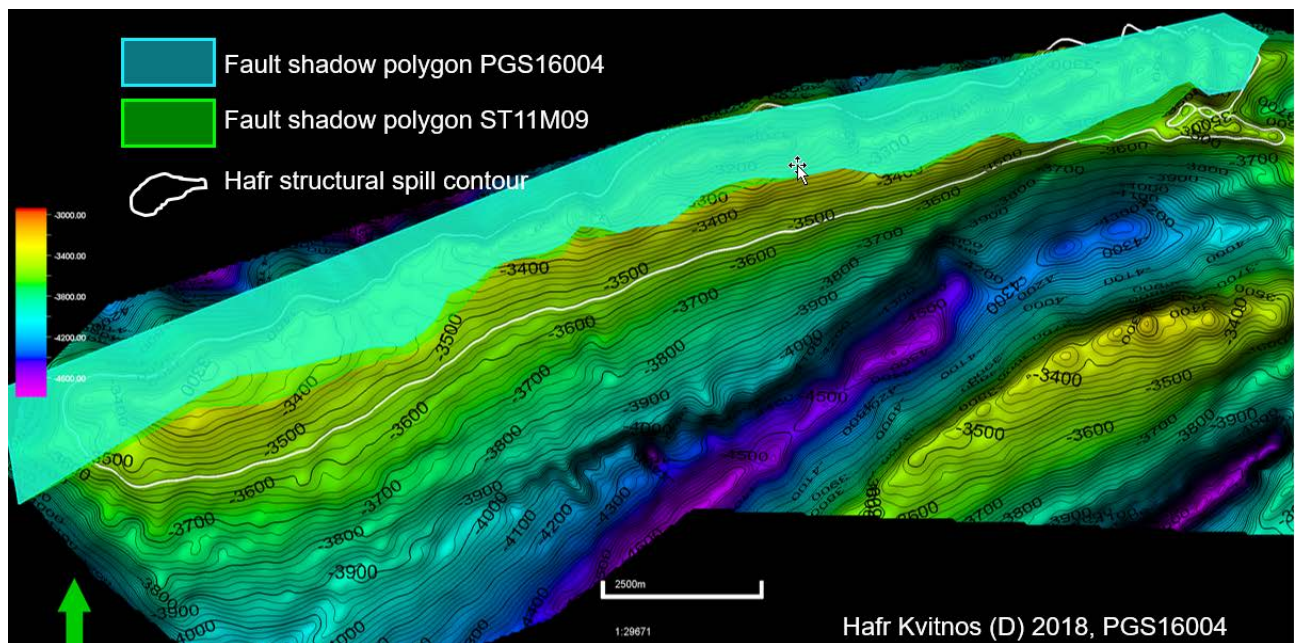


Figure 3.2: Hafr Kvitnos depth map, with a slightly smaller fault shadow as a result of the new interpretation.

The new interpretation has given higher confidence in the graben area in between the fault blocks of the prospects. Smaller down faulted blocks at Nise level are now more clearly seen juxtaposed to the Kvitnos reservoir in the hangingwall of Hornklove SW segment. This gives a higher risk for lateral leakage along Hornklove SW than for Hafr.

The understanding of the prospect geometry is not significantly changed, but a smaller area affected by fault shadow, and a slightly steeper structural topography in the new interpretation of Hafr results in smaller hydrocarbon (HC) columns and corresponding volumes than in the APA2016 evaluation. Due to differences in velocity model (ST11M09 vs PGS16004), the interpreted depth (TVD MSL) of the apex of Hafr differs (-100m) from the APA evaluation. Still, there are no observations supporting presence of HC neither in Hafr nor in Hornklove NE and SW.

4 Prospect update report

The PL899 area is located between the Nyk High and the southern margin of the Hel Graben immediately North of the Aasta Hansteen gas field. Both prospects are entirely within the licensed area, but Hafr has been treated as the main prospect as it is better positioned for receiving oil sourced from the Hel Graben. Hornklove SW and Hornklove NE segments are partially positioned in a possible migration shadow of Hafr and therefore carry a higher migration risk. Hornklove SW and Ne segments have still been evaluated since vertical migration of gas is possible.

The Kvitnos reservoir is interpreted to be deep marine basin floor fan deposits of Santonian age sourced from East Greenland. These turbiditic sandstones are proven as working reservoirs in the nearby Luva, Snefrid-Sør, Haklang, Roald Rygg and Ivory wells, and expected gross thickness is ca 180m. The 6707/10-2 (Haklang), and the 6707/10-3S (Ivory) wells encountered gas in Kvitnos, hence the play risk for the area is set to (**P-play = 1.0**). The probability for reservoir is: (**P-res = 0.8**) for both prospects. The main uncertainty associated with reservoir is the large permeability range (50mD-500mD). The Kvitnos Fm is capped by a thick package of lower Nise Fm shales, which act as top seal for both prospects.

Hafr prospect (Figure 4.1) is characterized as a rotated, fault-bounded 3-way structural closure with a structural spill point towards NE (Ivory) at 3545m TVD MSL. Within the main structural closure there is an eastern sub-closure (local apex at 3295m TVD MSL) that is separated from a western sub-closure (apex at 3132m TVD MSL) by a saddle point at 3470m TVD MSL. The main bounding fault to the North has a large throw (~1.5-2.0km) at the north-eastern end, but poor data quality caused by volcanic intrusions inhibits measurement of the throw further SW on the structure. It is uncertain what stratigraphy is juxtaposed where in the hanging-wall. Consequently, this poses a risk to the trap seal. Ooze in the overburden of the SW flank of Hafr is still causing poorer data quality locally, making it difficult to define this part of the prospect in detail. Furthermore, it is uncertainty in the Kvitnos Fm. interpretation over the spill point towards Ivory. This is caused by low S/N ratio due to heavily faulted (collapsed) blocks in Nise Fm. above the reservoir level. Within Equinor probability assessment, P-trap is split into “trap geometry” and “trap seal”, which gives the overall P-trap probability of: **P-trap = P(geom) * P(seal) = [0.9 * 0.6] = 0.54** for the prospect. A moderate charge risk (**P-charge = 0.7**) is related to migration of HC into the Hafr prospect. The risk is mainly related to difficulty in mapping migration routes underneath intrusive sills in the hangingwall of the main fault (Figure 3.1a, and Figure 4.2).

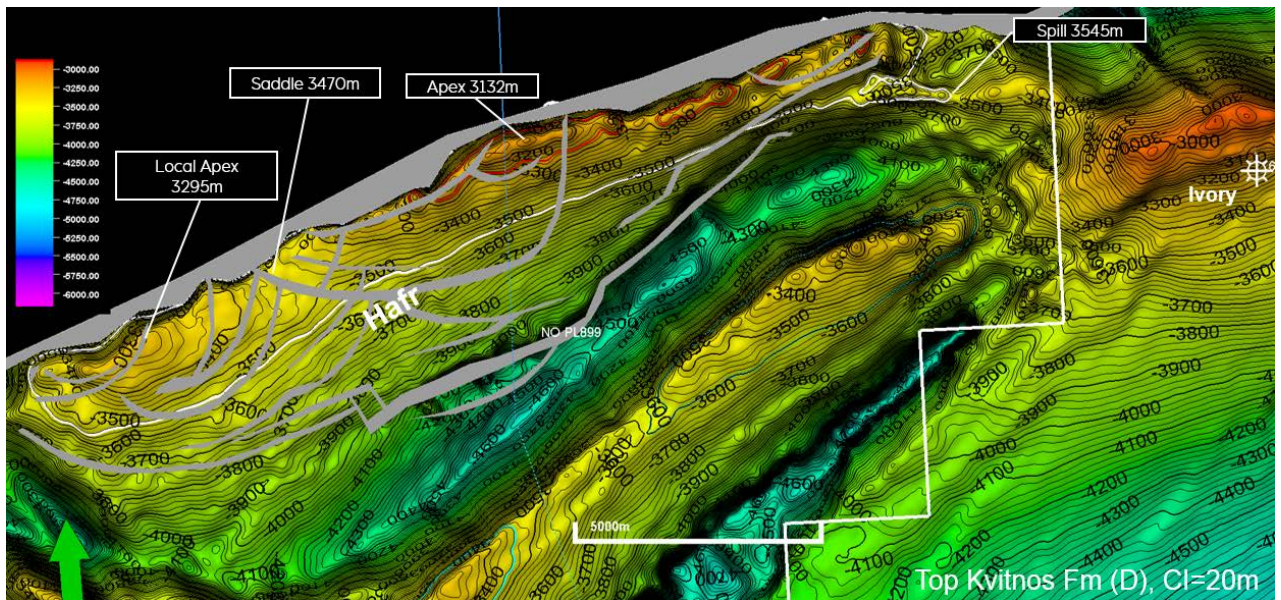


Figure 4.1: Depth map of Hafr prospect, with apex and spill point to Ivory area (white contour). Fault polygons over the structure are not interpreted to be segmenting the prospect. Main fault to the North is separating the prospect from the Hel Graben.

A gas-water contact (GWC) or gas-oil contact (GOC) in Hafr should be detectable outside the fault shadow (APA2016). No DHI (strong amplitude response, conformance with structure or flat event) is observed over Hafr where the data quality is good, but a GWC or GOC could still hide inside the shadow zone. Hence, the fault shadow affects the distribution of HC column in the volume assessment of Hafr. Figure 4.2 shows the results of the quantitative amplitude analysis for Hafr. The shallowest contour not affected by the fault shadow is at 3270m, leaving only a small area where the DHI could hide (red outline in the map).

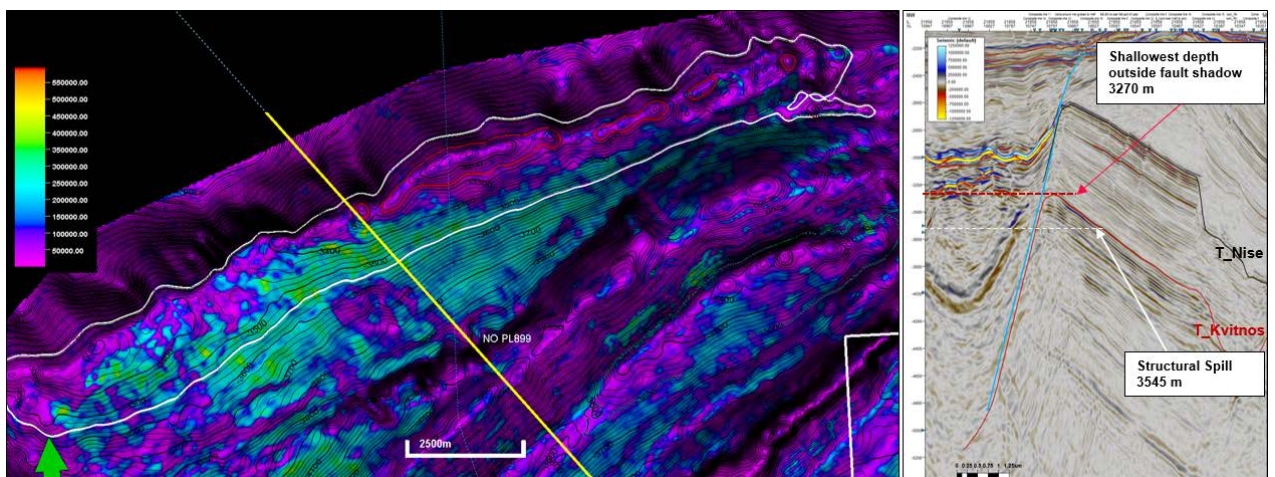


Figure 4.2: Hafr Kvitnos RMS amplitude map showing the effect of the fault shadow along the crest of Hafr. On the right-hand side: a dip line from the location where the shallowest contour not affected by fault shadow exist (red contour at 3270m). This contour is much shallower than the structural spill contour at 3545m (white outline in the map).

Hornklove (Figure 4.3) is structurally and stratigraphically similar to Hafr. But in the new interpretation the structure is separated into a NE and a SW segment which have different spill points. Hornklove SW will spill at 3464m (TVD MSL) to the SW (in the direction of Snefrid Nord). Below this depth, seal is dependent on a fault between the SW segment and Snefrid Nord. A Nise Fm. sandstone block is juxtaposed in the hanging-wall of the main fault to the North of Hornklove SW segment (Figure 4a). Hornklove NE spills to Hornklove SW through a saddle point at 3600m (TVD MSL). The saddle point to the NE is deeper (3690m). No Nise Fm. sandstones are interpreted in the hanging-wall of the NE segment (Figure 4b). For these reasons, **P(seal)** is different for the two segments: **0.4** for SW-, and **0.6** for NE-segment. The probability for vertical charge of HC's is similar for Hafr and Hornklove prospects, but Hornklove is situated in a less favourable position for lateral migration of HC's from Hel Graben. The **P(charge)** is therefore low: **0.6** for SW-, and **0.5** for NE-segment.

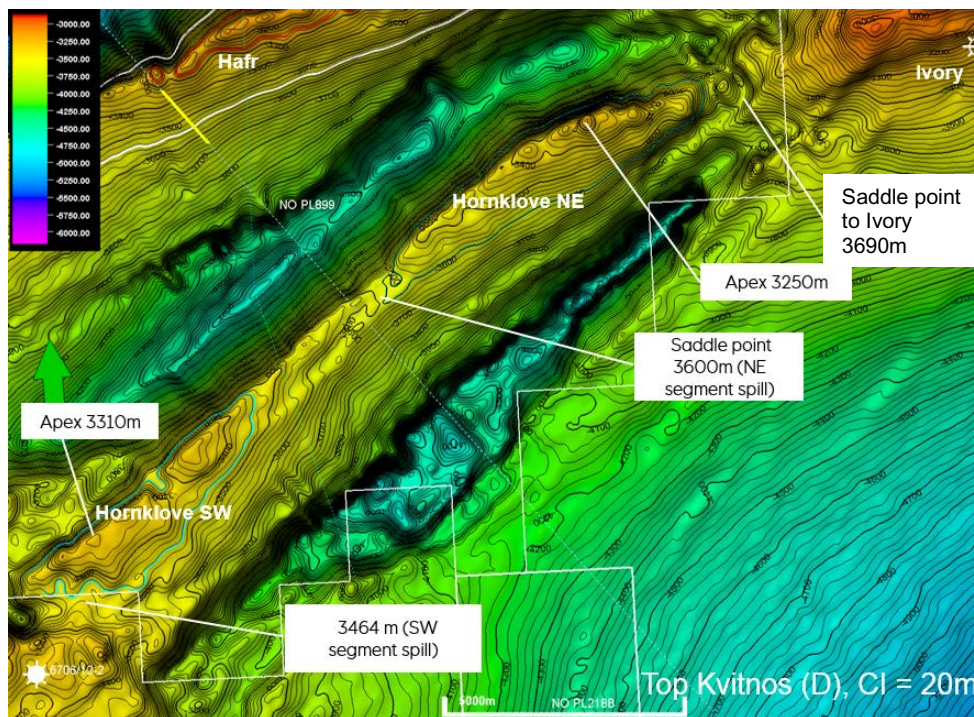


Figure 4.3: Structural depth map over Hornklove NE and SW segment with spill mechanics.

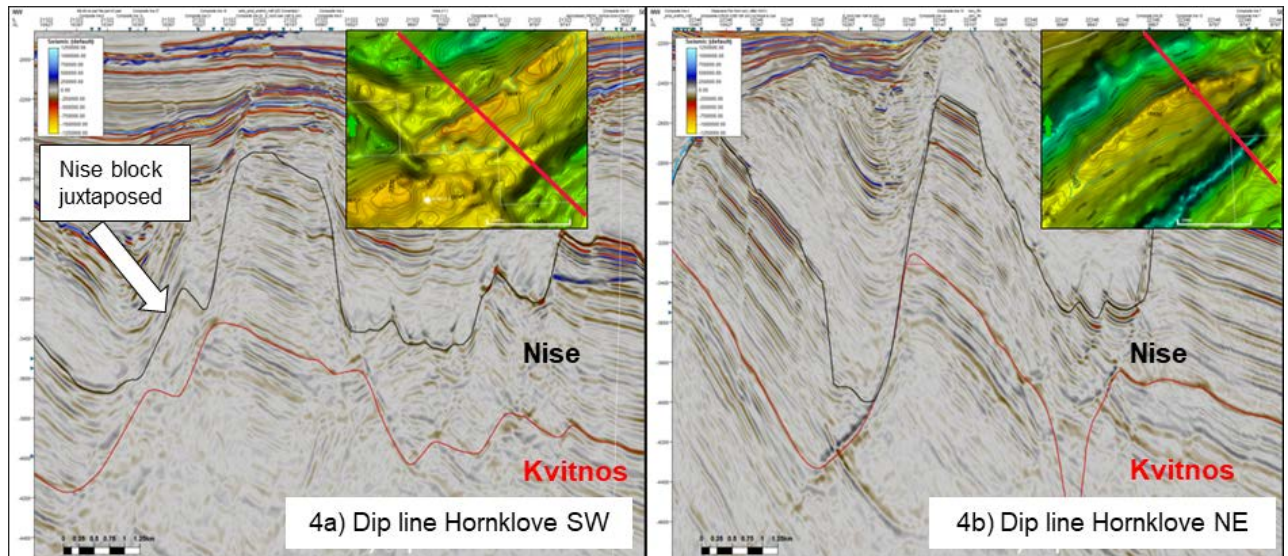


Figure 4a and 4b: NW-SE dip lines over Hornklove SW (4a) and Hornklove NE (4b) segments.

The data quality over Hornklove is generally better than over Hafr (exception is southern half of Hornklove SW, where amplitudes are dimmed due to ooze in the overburden). This is reflected in the quantitative geophysical analysis for Hornklove (Figure 5). The shallowest contour on the Hornklove NE segment not affected by the fault shadow is 3310m, and for Hornklove SW the contour is 3345m. This means that only a small area around the apex points of the segments is in the fault shadow with possibility for disguising any GWC or GOC (red outlines).

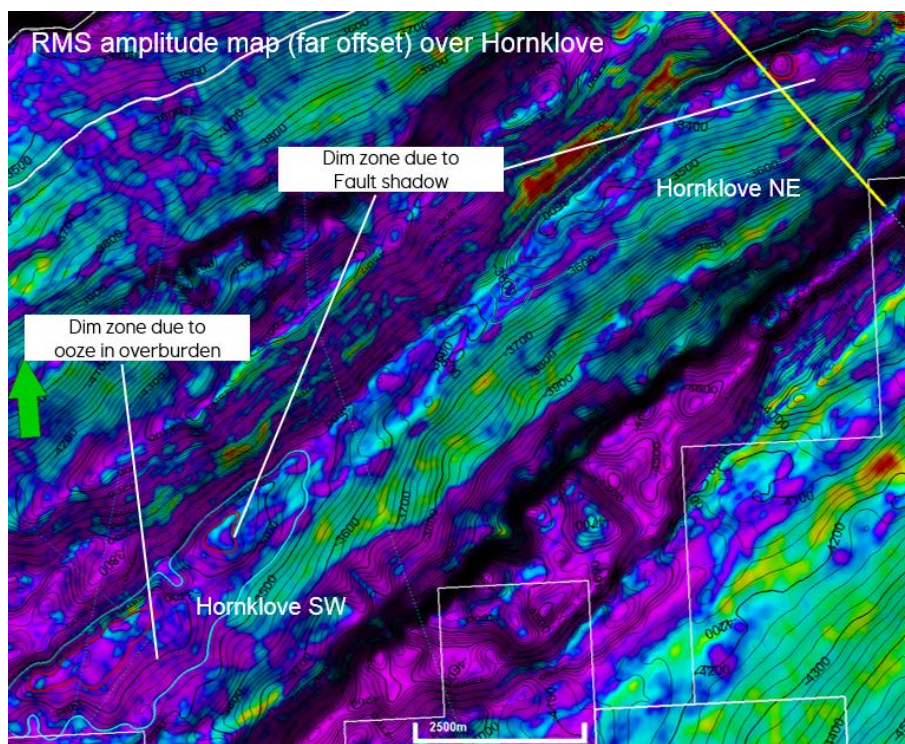


Figure 5: Results of RMS amplitude analysis over Hornklove where only small parts at the crest of the structure (red outline) is covered by the fault shadow from the main bounding fault to the North.

Hafr Risking: Initial probability of discovery for Hafr is **30% (P(g) = 0.3)**. No DHI modification has been used since there is still a chance that the GWC could hide in the fault shadow, which is only slightly reduced since the application. The chances for oil have been lowered since the application (no new indication of an oil generating source in Hel Graben), and this affects the phase probability split in the multi scenario analysis case selected in the evaluation of Hafr. The split is weighted 30% on a “gas over oil” case, and 70% on a pure gas case. Technical probability fraction is 0,08 for the pure oil case, 0,71 for the pure gas case and 0,21 for the oil & gas case. This results in a total probability of $P(\text{oil, only})=(0.08 \times 0.3)=0.024$, $P(\text{gas, only})=(0.71 \times 0.3)=0.213$ and $P(\text{oil \& gas})=(0.21 \times 0.3)=0.063$. Volumes and prospect data for Hafr (pure gas-, pure oil- and oil+gas case) are found in Table 4.1, 4.2 and 4.3 below.

Hornklove NE & SW Risking: Hornklove SW and NE have been assessed separately in individual segment analysis using multiphase fluid modelling as input. Since area affected by fault shadow is very small, and since no DHI is seen in any part of the structure, a DHI downgrade assessment has been applied to both segments. An initial risk assessment probability for Hornklove NE of 24% is reduced to 16% after the downgrade. Correspondingly, the probability of success for the Hornklove SW segment is reduced from 19%, to 12%. Phase split probabilities for Hornklove NE and SW are set to 0.6 for gas, 0.1 for oil and 0.3 for oil & gas. This results in total probability of $P(\text{oil, only})=(0.16 \times 0.19)=0.03$, $P(\text{gas, only})=(0.16 \times 0.47)=0.075$ and $P(\text{oil \& gas})=(0.16 \times 0.34)=0.054$ for the Hornklove NE segment. In Hornklove SW the corresponding probabilities are: $P(\text{oil only})=0.023$, $P(\text{gas, only})=0.057$, and $P(\text{oil \& gas})=0.04$. Volumes and prospect data for Hornklove NE and SW (pure gas-, pure oil- and oil+gas case) are found in Table 4.4 – 4.9 below.

Table 4.1: Prospect data – Hafr, gas case

Block: 6706/10_6707/12	Prospect name	Hafr	Discovery/Prospect lead	Prospect ID (or New)	NPD will insert value	NPD approved (Y/N)	No
Play name: NPD will insert value	New Play (Y/N)	No	Outside play (Y/N)				
Oil, Gas or O&G case: Gas	Reported by company	Equinor/ASA	Reference document				
This is case no.: 1 of 3	Structural element	Vening Basin	Type of trap				
Resources IN PLACE and RECOVERABLE	Main phase	Base Mode	Base Mean	Associated phase	Base Mode	Base Mean	High (P10)
Volumes, this case	Oil [10 ⁹ Sm ³] (>0.00)	0.86	0.93	6.00	17.40	0.02	0.14
	Gas [10 ⁹ Sm ³] (>0.00)	0.86	0.93	6.00	17.40	0.02	0.14
	Oil [10 ⁹ Sm ³] (>0.00)	0.50	0.50	3.61	6.70	0.02	0.26
	Gas [10 ⁹ Sm ³] (>0.00)	0.50	0.50	3.61	6.70	0.02	0.26
In place resources							
Recoverable resources							
Reservoir Chrono (from)	Reservoir litho (from)	Kentros fm	Source Rock, chrono primary	Unknown	Source Rock, litho primary	Unknown	Seal Chrono
Reservoir Chrono (to)	Reservoir litho (to)	Kentros fm	Source Rock, chrono secondary	Unknown	Source Rock, litho secondary	Unknown	Seal Litho
Probability fraction							
Technical (oil + gas + oil & gas case) (0.00-1.00)	Oil case (0.00-1.00)	0.08	Gas case (0.00-1.00)	0.71	Oil & Gas case (0.00-1.00)	0.21	
Reservoir (P1) (0.00-1.00)	Trap (P2) (0.00-1.00)	0.54	Charge (P3) (0.00-1.00)	0.70	Retention (P4) (0.00-1.00)	1.00	
Parameters:	Low (P50)	Base	High (P10)	Comments			
Depth to top of prospect (m MSL) (> 0)	3132	3132	3132				
Area of closure (km ²) (> 0.0)	26.3	31.1	35.9				
Reservoir thickness (m) (> 0)	159	182	206				
HC column in prospect (m) (> 0)	96	146	222				
Gross rock vol. [10 ⁹ m ³] (> 0.000)	0.042	0.220	0.680				
Net / Gross fraction (0.00-1.00)	0.60	0.66	0.71				
Porosity fraction (0.00-1.00)	0.17	0.18	0.20				
Permeability (mD) (> 0.0)	50.0	200.0	500.0				
Water Saturation fraction (0.00-1.00)	0.32	0.35	0.38				
Bg [Pa3/Sm3] (< 1.0000)	0.0034	0.0036	0.0039				
1/b0 [Sm3/Rm3] (< 1.00)	31522	43478	70047				
GOR, free gas [Sm ³ /Sm ³] (> 0)							
GOR, oil [Sm ³ /Sm ³] (> 0)							
Recon. factor, oil main phase fraction (0.00-1.00)							
Recon. factor, gas ass. phase fraction (0.00-1.00)							
Recon. factor, gas main phase fraction (0.00-1.00)							
Recon. factor, liquid ass. phase fraction (0.00-1.00)							
Temperature, top res [°C] (>0)	76	0.50	0.60				
Pressure, top res [bar] (>0)	350	0.30	0.35				
Cut-off criteria for N/G calculation	1. Vena-q-4	2. Porosity>0.1	3.				
	For NPD use	Imprap. or geolog-int.	NPD will insert value	Registrar - int.	NPD will insert value	Kart oppstart	NPD will insert value
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			NPD will insert value		NPD will insert value	Kart nr	NPD will insert value

Table 4.2: Prospect data – Hafr, oil case

Table 5: Prospect data (Enclose map)									
Block	6706/10, 6707/12	Prospect name	Hafr	Discovery/Prospect Lead	prospect	Prospect ID (or New)	NPD will insert value	NPD approved (Y/N)	No
Play name	NPD will insert value	New Play (Y/N)	No	Outside Play (Y/N)	No				
Oil/Gas or O&G case:	Oil	Reported by company	Equinor ASA	Reference document	Structural	Water depth [m MSL] (>0)	1400	Assessment year	2018
This is case no.:	2 of 3	Structural element	Varna Basin	Type of trap		Seismic database (2D/3D)		3D	
Resources IN PLACE and RECOVERABLE									
Volumes, this case		Main phase				Associated phase			
In place resources	Oil [10 ⁶ Sm ³] (>0.00)	Low (P90)	2.58	Base, liode	3170	High (P10)	32.30	Base, liode	5.90
	Gas [10 ⁶ Sm ³] (>0.00)		0.90		11.00		32.10	Base, liode	5.90
Recoverable resources	Oil [10 ⁶ Sm ³] (>0.00)		0.98				0.47	Seal, Chrono	5.79
	Gas [10 ⁶ Sm ³] (>0.00)						0.18	Seal, Chrono	5.79
Reservoir Chrono (from)	Santonian/Campanian	Reservoir litho (from)	Kinnos fm	Source Rock, chrono primary	Unknown	Source Rock, litho primary	Unknown	Seal, Chrono	Campanian
Reservoir Chrono (to)	Santonian/Campanian	Reservoir litho (to)	Kinnos fm	Source Rock, chrono secondary	Unknown	Source Rock, litho secondary	Unknown	Seal, Litho	Nise fm
Probability (fraction)									
Technical (oil + gas + oil & gas case) (0.00-1.00)	0.30	Oil case (0.00-1.00)	0.08	Gas case (0.00-1.00)	0.71	Oil & Gas case (0.00-1.00)	0.21		
Reservoir (P1) (0.00-1.00)	0.80	Trap (P2) (0.00-1.00)	0.54	Charge (P3) (0.00-1.00)	0.70	Retention (P4) (0.00-1.00)	1.00		
Parameters:									
Depth to top of prospect [m MSL] (>0)	3132	Base	3132	High (P10)	3132	Comments			
Area of closure [km ²] (>0.0)	26.3		31.1		35.9				
Reservoir thickness [m] (>0)	1.98		1.82		2.06				
HC column in prospect [m] (>0)	1.01		1.81		3.10				
Gross rock vol. [10 ⁶ m ³] (>0.000)	0.004		0.333		1.667				
Net / Gross (fraction) (0.00-1.00)	0.69		0.98		0.71				
Porosity (fraction) (0.00-1.00)	0.17		0.18		0.20				
Permeability [mD] (>0.0)	50.0		200.0		500.0				
Water Saturation (fraction) (0.00-1.00)	0.25		0.33		0.40				
B _g [Pascals] (<1.0000)	0.81		0.99		0.99				
GOR, free gas [Sm ³ /Sm ³] (>0)	1.28		1.87		2.50				
GOR, oil [Sm ³ /Sm ³] (>0)	0.35		0.35		0.45				
Recov. factor, oil main phase (fraction) (0.00-1.00)	0.25		0.35		0.45				
Recov. factor, gas ass. phase (fraction) (0.00-1.00)									
Recov. factor, gas main phase (fraction) (0.00-1.00)									
Temperature, top res [°C] (>0)	76								
Pressure, top res [bar] (>0)	350								
Cut off criteria for NiG calculation	1 Vshale=0.4	2 Porosity=0.1	3						
For NPD use:									
Mapprp. av geolog-int	NPD will insert value	Mapprp. av geolog-int	NPD will insert value	Registerf - int	NPD will insert value	Mapprp. av geolog-int	NPD will insert value	Registerf - int	NPD will insert value
Date:	NPD will insert value	Date:	NPD will insert value	Date:	NPD will insert value	Date:	NPD will insert value	Date:	NPD will insert value
Kart nr	NPD will insert value	Kart oppdatert	NPD will insert value	Kart dato	NPD will insert value	Kart nr	NPD will insert value	Kart dato	NPD will insert value

Table 4.3: Prospect data – Hafr oil & gas case

Block/6706/10_6707/12	Prospect name	Hafr	Discovery/Prospect/Lead	Prospect	Prospect ID (or Name)	NPD will insert value	NPD approved (Y/N)
Play name NPD will insert value	New Play (Y/N)	No	Outside play (Y/N)	No		NPD will insert value	No
Oil & Gas case	Reported by company	Equinor ASA	Reference document	Structural	Water depth [m MSL] (>0)	1400	Assessment Year Seismic databases (2D/3D)
This is case no.:	Structural element	Vening Basin	Type of trap				3D
3 of 3							
Resources IN PLACE and RECOVERABLE	Main phase	Base Mode	Base Mean	High (P10)	Associated phase	Base Mode	Base Mean
Volumes, this case	Low (P90)						
In place resources	Oil [10 ⁶ Sm ³] (>0.00)	2.30	32.80	96.10	Low (P90)	Base Mode	Base Mean
	Gas [10 ⁶ Sm ³] (>0.00)	0.81	4.71	7.50		0.02	0.15
Recoverable resources	Oil [10 ⁶ Sm ³] (>0.00)	0.80	11.50	33.30		0.13	0.30
	Gas [10 ⁶ Sm ³] (>0.00)	0.40	2.79	4.42		0.01	0.05
Reservoir Chrono (from)	Reservoir litho (from)	Kvitros fm	Source Rock, chrono primary/	Unknown	Source Rock, litho primary/	Unknown	Seal, Chrono
Reservoir Chrono (to)	Reservoir litho (to)	Kvitros fm	Source Rock, chrono secondary	Unknown	Source Rock, litho secondary	Unknown	Seal, Litho
Probability fraction							
Technical (oil + gas + oil & gas case) (0.00-1.00)	Oil case (0.00-1.00)	0.08	Gas case (0.00-1.00)	0.71	Oil & Gas case (0.00-1.00)	0.21	
Reservoir (P1) (0.00-1.00)	Trap (P2) (0.00-1.00)	0.54	Charge (P3) (0.00-1.00)	0.70	Retention (P4) (0.00-1.00)	1.00	
Parameters:	Low (P90)	Base	High (P10)	Comments			
Depth to top of prospect [m MSL] (> 0)	3132	3132	3132				
Area of closure [km ²] (> 0.0)	26.3	31.1	35.9				
Reservoir thickness [m] (> 0)	159	182	206				
H/C column in prospect [m] (> 0)	12.1	203	316				
Gross rock vol. [10 ⁶ m ³] (> 0.000)	0.087	0.386	1.754				
Nel / Gross fraction] (0.00-1.00)	0.90	0.69	0.71				
Porosity fraction] (0.00-1.00)	50.0	200.0	500.0				
Permeability [mD] (> 0.0)	0.25	0.33	0.40				
Water Saturation fraction] (0.00-1.00)	0.17	0.18	0.20				
Bq [Brn3Sm3] (< 1.000)	0.0033	0.0034	0.0035				
IGR [Sm3Sm3] (< 1.00)	0.01	0.09	0.90				
GOR, free gas [Sm3Sm3] (> 0)	4597	5106	5747				
GOR, oil [Sm3Sm3] (> 0)	125	187	250				
Recover. factor, oil main phase fraction] (0.00-1.00)	0.30	0.35	0.40				
Recover. factor, gas main phase fraction] (0.00-1.00)	0.30	0.35	0.40				
Recover. factor, liquid ass. phase fraction] (0.00-1.00)	0.30	0.35	0.40				
Temperature, top res [°C] (>0)	76			For NPD user			
Pressure, top res [bar] (>0)	350			Limppp, av geodog-int:			
Cut-off criteria for N/G calculation	1 Vshale<0.4	2 Porosity>0.1	3	Date: NPD will insert value Registered - mit NPD will insert value Registered - mit NPD will insert value Registered - mit NPD will insert value			

Table 4.4: Prospect data – Hornklove NE oil case

Block 6706/10, 6707/12 Play name NPD will insert value	Prospect name New Play (Y/N) Reported by company Structural element	Hornklove NE Equinor ASA Voring Basin	Discovery/Prospect lead Outside play (Y/N) Reference document Type of trap	Prospect No	Prop ID (or New)	NPD will insert value	NPD approved (Y/N)
Oil: Gas or O&G case: This is case no.: 1 of 3							
Resources in PLACE and RECOVERABLE	Main phase						
Volumes, this case	Low (P90)	Base, Mode	Base, Mean	High (P10)	low (P90)	Base, Mode	Base, Mean
In place resources	Oil [10^6 Sm^3] (>0.00) 11.80 Gas [10^6 Sm^3] (>0.00) 3.92 Gas [10^6 Sm^3] (>0.00)		22.00 7.70	36.40 13.10	1.55 0.50		4.34 1.50 2.82
Recoverable resources							
Reservoir Chrono (from)	Santonian/Campanian	Reservoir litho (from)	Source Rock, chrono primary	Unknown	Source Rock, litho primary	Unknown	Seal, Chrono
Reservoir Chrono (to)	Santonian/Campanian	Reservoir litho (to)	Source Rock, chrono secondary	Unknown	Source Rock, litho secondary	Unknown	Seal, Litho
Probability fraction							
Technical (oil + gas + oil & gas case) (0.00-1.00)	0.16	Oil case (0.00-1.00)	Charge (P3) (0.00-1.00)	0.47	Oil & Gas case (0.00-1.00)	0.34	
Reservoir (P1) (0.00-1.00)	0.80	Trap (P2) (0.00-1.00)		0.50	Retention (P4) (0.00-1.00)	1.00	
Parameters:	Low (P90)	Base	High (P10)	3250	<i>DFI assessment has been applied to the Hornklove NE segment. The total sum of DFI modified risk (unconditional segment) is 14%</i>		
Depth to top of prospect (m MSL) (> 0)	3250						
Area of closure (km^2) (> 0.0)	7.2		8.5				
Reservoir thickness (m) (> 0)	159		182				
HC column in prospect (m) (> 0)	220		256				
Net / Gross fraction] (0.00-1.00)	0.228		0.379				0.650
Gross rock vol. [10^6 m^3] (> 0.000)	0.91		0.89				0.71
Porosity fraction] (0.00-1.00)	0.17		0.18				0.20
Permeability (mD) (> 0.0)	50.0		200.0				500.0
Water Saturation fraction] (0.00-1.00)	0.25		0.33				0.40
Bq [$\text{Br}0.3\text{Sm}^3$] (< 1.000)	0.41		0.69				0.91
GOR, free gas [Sm^3/Sm^3] (> 0)	0.90		1.91				2.95
GOR, oil [Sm^3/Sm^3] (> 0)	0.30		0.35				0.40
Recover. factor, oil main phase fraction] (0.00-1.00)							
Recover. factor, gas ass. phase fraction] (0.00-1.00)	0.30		0.35				0.40
Recover. factor, liquid ass. phase fraction] (0.00-1.00)							
Temperature, top res [$^{\circ}\text{C}$] (>0)	76						
Pressure, top res [bar] (>0)	350						
Cut-off criteria for N/G calculation	1 Vshale<0.4	2 Porosity>0.1	3				
					For NPD user		
					Dimapp, an geologist:		
					Date: NPD will insert value	Registered - int:	
					NPD will insert value	Registered Date:	
					NPD will insert value		
					NPD will insert value	Kart oppdatert	
					NPD will insert value	Kart dato	
					NPD will insert value	Kart nr	
					NPD will insert value		
					NPD will insert value		
					NPD will insert value		

Table 4.5: Prospect data – Hornklove NE gas case

Block 6706/10, 6707/12		Prospect name	Hornklove NE	Discovery/Prospect	prospect	Prospect ID (or Name)	NPD will insert value	NPD approved (Y/N)
Oil/Gas or O&G case	Play name NPD will insert value	New Play (Y/N)	Equator ASA	Outside Play (Y/N)	No			
This is case no.:	Gas 2 of 3	Reported by company	Verring Basin	Reference document	Structural	Water depth [m MSL] (>0)	1400	Assessment Year (Sismic database (2D/3D))
Resources IN PLACE and RECOVERABLE	Structural element	Verring Basin	Type of trap					2018 3D
Volumes this case	Main phase	Low (P90)	Base, Mode	Base, Mean	High (P10)	Associated phase	Base, Mode	Base, Mean
In place resources	Oil [10 ⁶ Sm ³] (>0.00)	5.01		8.99	16.00	Water depth [m MSL] (>0)	1400	Assessment Year (Sismic database (2D/3D))
Recoverable resources	Gas [10 ⁶ Sm ³] (>0.00)	2.19		4.04	6.76	Retention (P4) (0.00-1.00)	1.00	High (P10)
	Gas [10 ⁶ Sm ³] (>0.00)							0.67
	Oil [10 ⁶ Sm ³] (>0.00)							1.93
	Gas [10 ⁶ Sm ³] (>0.00)							3.20
								1.15
Reservoir Chrono (from)	Santonian/Campanian	Reservoir litho (from)	Koltnos fm	Source Rock: chrono primary	Unknown	Source Rock: litho primary	Unknown	Seal Chrono
Reservoir Chrono (to)	Santonian/Campanian	Reservoir litho (to)	Koltnos fm	Source Rock: chrono secondary	Unknown	Source Rock: litho secondary	Unknown	Seal Litho
Probability fraction	Technical (oil + gas + oil & gas case) (0.00-1.00)	Trap (P2) (0.00-1.00)	0.19	Gas case (0.00-1.00)	0.47	Oil & Gas case (0.00-1.00)	0.34	
	Reservoir (P1) (0.00-1.00)	Trap (P2) (0.00-1.00)	0.60	Charge (P3) (0.00-1.00)	0.50	Retention (P4) (0.00-1.00)	1.00	
Parameters:	Low (P90)	Base	High (P10)	Comments				
Depth to top of prospect [m MSL] (> 0)	3250	3250	3250					
Area of closure [km ²] (> 0.0)	7.2	8.5	9.9					
Reservoir thickness [m] (> 0)	159	182	206					
HC column in prospect [m] (> 0)	220	256	307					
Gross rock vol. [10 ⁶ m ³] (> 0.000)	0.228	0.378	0.650					
Nel / Goss fraction] (0.00-1.00)	0.61	0.66	0.71					
Porosity fraction] (0.00-1.00)	0.17	0.18	0.20					
Permeability [mD] (> 0.0)	50.0	200.0	500.0					
Water Saturation fraction] (0.00-1.00)	0.32	0.35	0.38					
Bq [Brn3Sm3] (< 1.000)	0.0033	0.0034	0.0035					
GOR free gas [Sm ³ /Sm ³] (< 1.00)	4194	4651	5236					
GOR oil [Sm ³ /Sm ³] (> 0)								
Recover. factor, oil main phase fraction] (0.00-1.00)	0.40	0.45	0.50					
Recover. factor, gas main phase fraction] (0.00-1.00)	0.30	0.36	0.40					
Recover. factor, liquid ass. phase fraction] (0.00-1.00)								
Temperature, top res [°C] (>0)	76			Immap: av geoloint:	NPD will insert value	Registerd - int:	NPD will insert value	Kart oppdatert
Pressure, top res [bar] (>0)	350			Date:	NPD will insert value	Registerd Date:	NPD will insert value	Kart dato
Cut-off criteria for NiG calculation	1 Vshale<0.4	2 Porosity>0.1	3					NPD will insert value

Table 4.6: Prospect data – Hornklove NE oil & gas case

Block/6706/10_6707/12	Prospect name	Hornklove NE	Discovery/Prospect	Prospect	Prospect ID (or Name)	NPD will insert value	NPD approved (Y/N)
Play name NPD will insert value	New Play (Y/N)	Equinor ASA	Outside Play (Y/N)	0			
O&G case O&G case	Reported by company	Verring Basin	Reference document	Structural	Water depth [m MSL] (>0)	1400	Assessment Year (Sismic database (2D/3D))
This is case no.: 3 of 3	Structural element		Type of trap				2018
Resources IN PLACE and RECOVERABLE	Main phase	Base, Mode	Base, Mean	High (P10)	Associated phase	Base, Mode	Base, Mean
Volumes, this case	Low (P90)				Water depth [m MSL] (>0)		High (P10)
Oil [10 ⁶ Sm ³] (>0.00)	10.40		21.40	36.80	1.34		4.06
Gas [10 ⁶ Sm ³] (>0.00)	0.04		0.50	1.37	0.01		0.10
Recoverable resources	3.56		7.49	12.90	0.46		2.72
Reservoir Chrono (from)	Reservoir litho (from)	Reservoir litho (to)	Source Rock, chrono primary	Unknown	Source Rock, chrono primary	Unknown	1.42
Santonian/Campanian		Katros fm	Source Rock, chrono secondary	Unknown	Source Rock, chrono secondary	Unknown	0.04
Reservoir Chrono (to)	Reservoir litho (to)	Katros fm					0.11
Probability fraction	Technical (oil + gas + oil & gas case) (0.00-1.00)	Trap (P2) (0.00-1.00)	Gas case (0.00-1.00)	0.47	Oil & Gas case (0.00-1.00)	0.34	Seal, Chrono
Reservoir (P1) (0.00-1.00)	0.80	0.60	Charge (P3) (0.00-1.00)	0.50	Retention (P4) (0.00-1.00)	1.00	Seal, Litho
Parameters:	Low (P90)	Base	High (P10)		Comments		Nise fm
Depth to top of prospect [m MSL] (> 0)	3250	3250	3250				
Area of closure [km ²] (> 0.0)	7.2	8.5	9.9				
Reservoir thickness [m] (> 0)	159	182	206				
HC column in prospect [m] (> 0)	220	256	307				
Gross rock vol. [10 ⁶ m ³] (> 0.000)	0.228	0.378	0.650				
Nel / Gorg fraction] (0.00-1.00)	0.61	0.66	0.71				
Porosity fraction] (0.00-1.00)	0.17	0.18	0.20				
Permeability [mD] (> 0.0)	50.0	200.0	500.0				
Water Saturation fraction] (0.00-1.00)	0.25	0.33	0.40				
Bq [Brn3Sm3] (< 1.000)	0.0033	0.0034	0.0035				
GOR free gas [Sm ³ /Sm ³] (> 0)	0.61	0.69	0.91				
GOR oil [Sm ³ /Sm ³] (> 0)	4184	4651	5236				
Recover. factor, oil main phase fraction] (0.00-1.00)	0.30	0.35	0.40				
Recover. factor, gas main phase fraction] (0.00-1.00)	0.30	0.35	0.40				
Recover. factor, liquid ass. phase fraction] (0.00-1.00)	0.40	0.45	0.50				
Temperature, top res [°C] (>0)	76				Per NPD use		
Pressure, top res [bar] (>0)	350				Impreg. or geogunit:		
Cut-off criteria for N/G calculation	1 Vshale<0.4	2 Porosity>0.1	3		Date:		
					NPD will insert value		
					Registered - int.		
					NPD will insert value		
					Kart oppdatert		
					NPD will insert value		
					Kart nr.		
					NPD will insert value		

Table 4.7: Prospect data – Hornklove SW oil case

Block#(706/10, 6707/12)	Prospect name	Hornklove SW	Discovery/Prospect lead	prospect	Prospect ID (or Name)	NPD will insert value	NPD approved (Y/N)
Play name	New Play (Y/N)	Equator ASA	Outside Play (Y/N)	No			
Oil: Gas or O&G case:	Reported by company	Vening Basin	Reference document	Structural	Water depth [m MSL] (>0)	1400	Assessment Year (Salinic database (2D/3D))
This is case no.:	Structural element		Type of trap				2018
1 of 3	Main phase	Base, flode					3D
Volumes IN PLACE and RECOVERABLE	Low (P90)	Base, flode	Base, Mean	High (P10)	Associated phase	Base, Mode	Base, Mean
In place resources	Oil [10 ⁶ Sm ³] (>0.00)	25.20	58.30	105.50	Water depth [m MSL] (>0)	1400	Assessment Year (Salinic database (2D/3D))
	Gas [10 ⁶ Sm ³] (>0.00)		20.40	37.40			3D
Recoverable resources	Oil [10 ⁶ Sm ³] (>0.00)	8.43					24.30
	Gas [10 ⁶ Sm ³] (>0.00)						4.03
Reservoir Chrono (from)	Santonian/Campanian	Reservoir litho (from)	Source Rock: chrono primary	Unknown	Source Rock: litho primary	Unknown	Seal: Chrono
Reservoir Chrono (to)	Santonian/Campanian	Reservoir litho (to)	Source Rock: chrono secondary	Unknown	Source Rock: litho secondary	Unknown	Seal: Litho
Probability fraction	Technical (oil + gas + oil & gas case) (0.00-1.00)	0.12	Charge (P3) (0.00-1.00)	0.47	Oil & Gas case (0.00-1.00)	0.34	
	Reservoir (P21) (0.00-1.00)	0.80	Trap (P2) (0.00-1.00)	0.40	Retention (P4) (0.00-1.00)	1.00	
Parameters:	Low (P90)	Base	High (P10)	3310	D/F assessment has been applied to the Hornklove SW segment. The total risk after application of D/F modification (unconditional segment) is 12.3%		
Depth to top of prospect [m MSL] (> 0)	3310			3310			
Area of closure [km ²] (> 0.0)	16.8			19.9			
Reservoir thickness [m] (> 0)	159			182			
HC column in prospect [m] (> 0)	163			224			
Gross rock vol. [10 ⁶ m ³] (> 0.000)	0.495			1.010			
Nel / Goss fraction] (0.00-1.00)	0.61			0.66			
Porosity fraction] (0.00-1.00)	0.17			0.18			
Permeability [mD] (> 0.0)	50.0			200.0			
Water Saturation fraction] (0.00-1.00)	0.25			0.33			
Bq [Brn3Sm3] (< 1.000)	0.61			0.69			
GOR free gas [Sm ³ /Sm ³] (> 0)	92			193			
GOR oil [Sm ³ /Sm ³] (> 0)	0.30			0.35			
Recover factor: oil main phase fraction] (0.00-1.00)	0.30			0.35			
Recover factor: gas main phase fraction] (0.00-1.00)	0.40			0.35			
Recover factor: liquid ass. phase fraction] (0.00-1.00)							
Temperature top res [°C] (>0)	76						
Pressure top res [bar] (>0)	350						
Cut-off criteria for N/G calculation	1 Vshale<0.4						
	2 Porosity>0.1						
	3						
For NPD use	Immapg. or geologic-int. Date:	NPD will insert value	Registerd - int. Date:	NPD will insert value	Kart oppdatert	NPD will insert value	NPD will insert value
					Kart dato		
					Kart nr		

Table 4.8: Prospect data – Hornklove SW gas case

Block/6706/10_6707/12	Prospect name	Hornklove SW	Discovery/Pros/Lead	Prospect	Prospect ID (or Name)	NPD will insert value	NPD approved (Y/N)
Play name	New Play (Y/N)	Equator ASA	Outside Play (Y/N)	No			
Oil/Gas or O&G case	Reported by company	Verring Basin	Reference document	Structural	Water depth [m MSL] (>0)	1400	Assessment Year (Sismic database (2D/3D))
This is case no.:	Structural element		Type of trap				2018
2 of 3							3D
Resources IN PLACE and RECOVERABLE							
Volumes this case							
In place resources	Oil [10 ⁶ Sm ³] (>0.00)	Low (P90)	Base, Mode	Base, Mean	High (P10)	Low (P90)	Base, Mode
	Gas [10 ⁶ Sm ³] (>0.00)	10.70		23.80	43.40	2.28	Base, Mean
Recoverable resources	Oil [10 ⁶ Sm ³] (>0.00)	4.70		10.70	19.50	0.77	Base, Mean
	Gas [10 ⁶ Sm ³] (>0.00)						1.79
							3.30
Reservoir Chrono (from)	Reservoir litho (from)	Reservoir litho (to)	Source Rock: chrono primary	Unknown	Source Rock: litho primary	Unknown	Seal: Chrono
Reservoir Chrono (to)	Reservoir litho (to)	Katros fm	Source Rock: chrono secondary	Unknown	Source Rock: litho secondary	Unknown	Seal: Litho
Probability fraction							
Technical (oil + gas + oil & gas case) (0.00-1.00)	Oil case (0.00-1.00)	0.12	0.19	0.47	Oil & Gas case (0.00-1.00)	0.34	
Reservoir (P*1) (0.00-1.00)	Trap (P2) (0.00-1.00)	0.80	0.40	0.60	Retention (P4) (0.00-1.00)	1.00	
Parameters:							
Depth to top of prospect [m MSL] (> 0)	Low (P90)	3310	Base	High (P10)	3310		
Area of closure [km ²] (> 0.0)		16.8		19.9	22.9		
Reservoir thickness [m] (> 0)		159		182	206		
HC column in prospect [m] (> 0)		163		224	308		
Gross rock vol. [10 ⁶ m ³] (> 0.000)		0.495		1.010	1.898		
Net / Gross fraction] (0.00-1.00)		0.61		0.66	0.71		
Porosity fraction] (0.00-1.00)		0.17		0.18	0.20		
Permeability [mD] (> 0.0)		50.0		200.0	500.0		
Water Saturation fraction] (0.00-1.00)		0.32		0.35	0.38		
Bq [Brn3Sm3] (< 1.000)		0.0033		0.0034	0.0035		
GOR free gas [Sm ³ /Sm ³] (< 1.00)		4194		4651	5236		
GOR oil [Sm ³ /Sm ³] (> 0)							
Recover. factor, oil main phase fraction] (0.00-1.00)		0.40		0.45	0.50		
Recover. factor, gas ass. phase fraction] (0.00-1.00)		0.30		0.35	0.40		
Recover. factor, liquid ass. phase fraction] (0.00-1.00)							
Temperature, top res [°C] (>0)		350					
Pressure, top res [bar] (>0)							
Cut-off criteria for NiG calculation	1 Vshale<0.4	2 Porosity>0.1	3				
Per NPD use							
Immapg. or geodg-int:	NPD will insert value	NPD will insert value	Registered - int:	NPD will insert value	NPD will insert value	Kart oppdatert	NPD will insert value
Date:	NPD will insert value	NPD will insert value	Registered - int:	NPD will insert value	NPD will insert value	Kart dato	NPD will insert value
	NPD will insert value	NPD will insert value	Registered - int:	NPD will insert value	NPD will insert value	Kart nr	NPD will insert value

Comments: Df assessment has been applied to the Hornklove SW segment. The total risk after application of DfT modification (unconditional segment) is 12.3%

Table 4.9: Prospect data – Hornklove SW oil & gas case

Block/Prospect name	Play name	NPD will insert value	Prospect name	Hornklove SW	Discovery/Prospect lead	Prospect	Prospect ID (or Name)	NPD will insert value	NPD approved (Y/N)
Block/6706/10_6707/12	New Play (Y/N)		New Play (Y/N)	Equinor ASA	Outside Play (Y/N)	0			
This is case no.:									
3 of 3									
Resources IN PLACE and RECOVERABLE									
Volumes, this case									
In place resources									
Oil [10 ⁶ Sm ³] (>0.00)	20.30		Base, Mode		Base, Mean	High (P10)	Low (P90)	Base, Mode	Base, Mean
Gas [10 ⁶ Sm ³] (>0.00)	0.33				56.30	106.10	2.93		10.50
Oil [10 ⁶ Sm ³] (>0.00)	7.01				2.07	4.39	0.07		0.45
Gas [10 ⁶ Sm ³] (>0.00)	0.15				19.30	35.80	0.96		1.04
					0.93	2.18	0.02		0.37
Recoverable resources									
Reservoir Chrono (fm)	Santonian/Campanian	Reservoir litho (fm)	Katros fm	Source Rock, chrono primary	Unknown	Source Rock, litho primary	Unknown	Source Rock, chrono secondary	Unknown
Reservoir Chrono (fm)	Santonian/Campanian	Reservoir litho (fm)	Katros fm	Source Rock, chrono secondary	Unknown	Source Rock, litho secondary	Unknown		Seal, Chrono
Probability fraction	0.12		0.19		0.47				Seal, Litho
Technical (oil + gas + oil & gas case) (0.00-1.00)	0.80		0.40		0.60				
Reservoir (P1) (0.00-1.00)									
Parameters:									
Depth to top of prospect (m MSL) (> 0)	3310		3310						
Area of closure (km ²) (> 0.0)	16.8		19.9						
Reservoir thickness (m) (> 0)	159		182						
HC column in prospect (m) (> 0)	163		224						
Gross rock vol. [10 ⁶ m ³] (> 0.000)	0.495		1.010						
Nel / Gores fraction] (0.00-1.00)	0.91		0.66						
Porosity fraction] (0.00-1.00)	0.17		0.18						
Permeability (mD) (> 0.0)	50.0		200.0						
Water Saturation fraction] (0.00-1.00)	0.25		0.33						
Bq [Brn3Sm3] (< 1.000)	0.0033		0.0034						
Bq [Sm3Sm3] (< 1.00)	0.01		0.69						
GOR, free gas [Sm ³ /Sm ³] (> 0)	4194		4651						
GOR, oil [Sm ³ /Sm ³] (> 0)	90		191						
Recover. factor, oil main phase fraction] (0.00-1.00)	0.30		0.35						
Recover. factor, gas main phase fraction] (0.00-1.00)	0.30		0.35						
Recover. factor, liquid ass. phase fraction] (0.00-1.00)	0.30		0.35						
Temperature, top res [°C] (>0)	350								
Pressure, top res [Bar] (>0)	1		2						
Cut-off criteria for NiV calculation									
1 Vshale-D-4									
2 Porosity>0.1									
3									
Comments: Df assessment has been applied to the Hornklove SW segment. The total risk after application of Df modification (unconditional segment) is 12.3%									
Per NPD use									
Imprints, or geodigital, Date:	NPD will insert value	NPD will insert value	Registered - int.	NPD will insert value	NPD will insert value	Kart dato	NPD will insert value	NPD will insert value	NPD will insert value
Kart nr									

5 Technical evaluation

Since the APA2016, no new technical/economical evaluation has been done for any of the prospects in the PL899 license, since probabilities of an oil discovery are low and volumes have declined in Hafr (main prospect). Instead, it is referred to chapter 2.3.4 and 2.4 in the application for further details on historical evaluation and potential development plans.

6 Conclusion

The work programme for the initial period of PL899 has been fulfilled by the partnership.

Partners of PL899 agree that the combination of low probability of success and low oil volume potential in Hafr do not support any exploration drilling in PL899.

7 References

APA2016; "Awards in predefined areas – Part of blocks 6706/12 and 6707/10"