

Table 4: Discovery and Prospect data

A new prospect form has been introduced, described in more detail below.

Each file shall include one prospect only (or lead or discovery). For prospects with alternative cases for hydrocarbon phases (oil vs gas vs oil&gas case) the cases shall be reported one by one, one worksheet per case - in the same file.

For input values with decimals, the legal decimal separator will be "." or "," dependent on the setup in your version of excel.

A listing with names of a selection of structural elements and litho- /chronostratigraphic names are attached in a separate work sheet in this file.

Cells coloured yellow are for NPD use only.

Definitions:

Discovery
One or several petroleum deposits discovered in the same well, in which through testing, sampling or logging there has been established a probability of the existence of mobile petroleum (includes both commercial and technical discovery).

Prospect
A possible petroleum trap with a mappable, delimited rock volume.

Lead
A possible petroleum trap where available data coverage and quality is insufficient for proper mapping and delimitation of the rock volume.

Play
A geographically and stratigraphically restricted area where a set of specific geological factors are present, making it possible to discover petroleum in producible quantities. Such geological factors are reservoir rocks, traps, mature source rocks and migration paths, and timing. All fields, discoveries and prospects within the same play are characterised by the play's specific set of geological factors.

Risk analysis
P1 = Probability of reservoir
P2 = Probability of trap
P3 = Probability of charge (source and migration)
P4 = Probability of retention after accumulation
Pdiscovery = probability of discovery of at least the estimated minimum volume (P100) = P1 x P2 x P3 x P4
In addition to probability of discovery, the conditional probability of each case should be specified (as fraction, where probability for oil case + gas case + oil&gas (multiphase) case = 1,0).

Reservoir and fluid parameters

All reservoir and fluid parameters shall be submitted with low (P90), base and high (P10) values.
The cut-off criteria for N/G calculation shall be entered as free text, to specify which cut-off values are used (for instance with regard to Vshale, porosity and permeability)

Resources originally in place
Comprise those volumes of petroleum resources originally in place in a deposit. The volumes shall be given at standard conditions.

Resources originally recoverable
Comprise volumes of the total saleable/deliverable petroleum resources, calculated for the period from the start to the end of production, and based on the current understanding of the volumes in place and recovery factor.

Low estimates, base estimates and high estimates
All resource estimates shall be submitted as a low (P90), base (mode and mean) and a high (P10) estimate.

The low estimate - P90

The low estimate will be lower than the base estimate. It shall be 90 % probability for the successful recovery of the given estimate or more. With reference to the base estimate value, the P90 value should reflect possible downsides with regard to the geometry of the reservoir, reservoir and fluid parameters, and/or recovery factor.

The base estimate
The base estimate will be the prevailing estimate, and shall reflect the current understanding of the reservoir geometry, reservoir and fluid parameters, and recovery factor. The base estimate should be reported both by the mean value and the mode value.

The high estimate - P10

The high estimate will be higher than the base estimate. It shall be 10 % probability for the successful recovery of the given estimate or more. With reference to the base estimate value, the P10 value should reflect possible upsides with regard to the geometry of the reservoir, reservoir and fluid parameters, and/or recovery factor.

Recovery factor
The proportion of the originally in-place resources which can be recovered from the prospect.

Table 4: Discovery and Prospect data (Enclose map)

Block	34/7; 34/8	Prospect name	Uttapam Rannoch	Discovery/Prosp/Lead	Prospect	Prosp ID (or New!)	NPD will insert value	NPD approved (Y/N)		
Play name	NPD will insert value	New Play (Y/N)		Outside play (Y/N)						
Oil, Gas or O&G case:	Oil	Reported by company	DNO Norge AS	Reference document				Assessment year	2020	
This is case no.:	1 of 1	Structural element	Tampen Spur	Type of trap	Structural 4-way	Water depth [m MSL] (>0)	300	Seismic database (2D/3D)	3D	
Resources IN PLACE and RECOVERABLE Volumes, this case		Main phase				Associated phase				
		Low (P90)	Base, Mode	Base, Mean	High (P10)	Low (P90)	Base, Mode	Base, Mean	High (P10)	
In place resources	Oil [10 ⁶ Sm ³] (>0.00)	0,24	0,28	1,38	3,06					
	Gas [10 ⁹ Sm ³] (>0.00)					0,02	0,03	0,14	0,32	
Recoverable resources	Oil [10 ⁶ Sm ³] (>0.00)	0,08	0,09	0,48	1,07					
	Gas [10 ⁹ Sm ³] (>0.00)					0,01	0,01	0,05	0,11	
Reservoir Chrono (from)	Aalenian	Reservoir litho (from)	Rannoch Fm	Source Rock, chrono primary	Kimmeridgian	Source Rock, litho primary	Draupne Fm	Seal, Chrono	Bathonian	
Reservoir Chrono (to)	Aalenian	Reservoir litho (to)	Rannoch Fm	Source Rock, chrono secondary	Bathonian	Source Rock, litho secondary	Heather Fm	Seal, Litho	Heather Fm	
Probability [fraction]										
Total (oil + gas + oil & gas case) (0.00-1.00)	0,14	Oil case (0.00-1.00)	1,00	Gas case (0.00-1.00)	0,00	Oil & Gas case (0.00-1.00)	0,00			
Reservoir (P1) (0.00-1.00)	0,50	Trap (P2) (0.00-1.00)	0,40	Charge (P3) (0.00-1.00)	0,72	Retention (P4) (0.00-1.00)	1,00			
Parametres:		Low (P90)	Base	High (P10)	Comments: Retention (P4) is included in Trap (P2). For parametre section Base is Mean.					
Depth to top of prospect [m MSL] (> 0)			3770							
Area of closure [km²] (> 0.0)	0,5		1,5	2,8						
Reservoir thickness [m] (> 0)	49		71	95						
HC column in prospect [m] (> 0)	58		93	134						
Gross rock vol. [10 ⁹ m³] (> 0.000)	0,173		0,235	0,297						
Net / Gross [fraction] (0.00-1.00)	0,25		0,32	0,40						
Porosity [fraction] (0.00-1.00)	0,14		0,16	0,19						
Permeability [mD] (> 0.0)	4,0		20,0	50,0						
Water Saturation [fraction] (0.00-1.00)	0,35		0,30	0,25						
Bg [Rm3/Sm3] (< 1.0000)										
1/Bo [Sm3/Rm3] (< 1.00)	0,70		0,74	0,77						
GOR, free gas [Sm³/Sm³] (> 0)										
GOR, oil [Sm³/Sm³] (> 0)	83		104	125						
Recov. factor, oil main phase [fraction] (0.00-1.00)	0,32		0,35	0,38						
Recov. factor, gas ass. phase [fraction] (0.00-1.00)	0,32		0,35	0,38						
Recov. factor, gas main phase [fraction] (0.00-1.00)										
Recov. factor, liquid ass. phase [fraction] (0.00-1.00)										
For NPD use:										
Temperature, top res [°C] (>0)	132				Innrapp. av geolog-init:	NPD will insert value	Registrert - init:	NPD will insert value	Kart oppdatert	NPD will insert value
Pressure, top res [bar] (>0)	520				Dato:	NPD will insert value	Registrert Dato:	NPD will insert value	Kart dato	NPD will insert value
Cut off criteria for N/G calculation	1. VCL <0.4	2. PHI>0.15	3. SW<0.6							
				Kart nr						NPD will insert value

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Block	34/7; 34/8	Prospect name	Uttapam Rannoch	Discovery/Prosp/Lead		Prosp ID (or New!)	NPD will insert value	NPD approved (Y/N)			
Play name	NPD will insert value	New Play (Y/N)		Outside play (Y/N)							
Oil, Gas or O&G case:		Reported by company	DNO Norge AS	Reference document	0			Assessment year	2020		
This is case no.:		Structural element	Tampen Spur	Type of trap	Structural 4-way	Water depth [m MSL] (>0)	300	Seismic database (2D/3D)			
Resources IN PLACE and RECOVERABLE Volumes, this case		Main phase				Associated phase					
		Low (P90)	Base, Mode	Base, Mean	High (P10)	Low (P90)	Base, Mode	Base, Mean	High (P10)		
In place resources	Oil [10 ⁶ Sm ³] (>0.00)										
	Gas [10 ⁹ Sm ³] (>0.00)										
Recoverable resources	Oil [10 ⁶ Sm ³] (>0.00)										
	Gas [10 ⁹ Sm ³] (>0.00)										
Reservoir Chrono (from)	Aalenian	Reservoir litho (from)	Rannoch Fm	Source Rock, chrono primary	Kimmeridgian	Source Rock, litho primary	Draupne Fm	Seal, Chrono	Bathonian		
Reservoir Chrono (to)	Aalenian	Reservoir litho (to)	Rannoch Fm	Source Rock, chrono secondary	Bathonian	Source Rock, litho secondary	Heather Fm	Seal, Litho	Heather Fm		
Probability [fraction]											
Total (oil + gas + oil & gas case) (0.00-1.00)	0,14	Oil case (0.00-1.00)	1,00	Gas case (0.00-1.00)	0,00	Oil & Gas case (0.00-1.00)	0,00				
Reservoir (P1) (0.00-1.00)	0,50	Trap (P2) (0.00-1.00)	0,40	Charge (P3) (0.00-1.00)	0,72	Retention (P4) (0.00-1.00)	1,00				
Parametres:	Low (P90)	Base	High (P10)	Comments							
Depth to top of prospect [m MSL] (> 0)											
Area of closure [km ²] (> 0.0)											
Reservoir thickness [m] (> 0)											
HC column in prospect [m] (> 0)											
Gross rock vol. [10 ⁹ m ³] (> 0.000)											
Net / Gross [fraction] (0.00-1.00)											
Porosity [fraction] (0.00-1.00)											
Permeability [mD] (> 0.0)											
Water Saturation [fraction] (0.00-1.00)											
Bg [Rm3/Sm3] (< 1.0000)											
1/Bo [Sm3/Rm3] (< 1.00)											
GOR, free gas [Sm ³ /Sm ³] (> 0)											
GOR, oil [Sm ³ /Sm ³] (> 0)											
Recov. factor, oil main phase [fraction] (0.00-1.00)											
Recov. factor, gas ass. phase [fraction] (0.00-1.00)											
Recov. factor, gas main phase [fraction] (0.00-1.00)											
Recov. factor, liquid ass. phase [fraction] (0.00-1.00)											
		For NPD use:									
Temperature, top res [°C] (>0)				Innrapp. av geolog-init:	NPD will insert value	Registrert - init:	NPD will insert value	Kart oppdatert	NPD will insert value		
Pressure, top res [bar] (>0)				Dato:	NPD will insert value	Registrert Dato:	NPD will insert value	Kart dato	NPD will insert value		
Cut off criteria for N/G calculation	1.	2.	3.					Kart nr	NPD will insert value		

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Play name	NPD will insert value	New Play (Y/N)		Outside play (Y/N)						
Oil, Gas or O&G case:		Reported by company	DNO Norge AS	Reference document	0			Assessment year	2020	
This is case no.:		Structural element	Tampen Spur	Type of trap	Structural 4-way	Water depth [m MSL] (>0)	300	Seismic database (2D/3D)		
Resources IN PLACE and RECOVERABLE Volumes, this case		Main phase				Associated phase				
		Low (P90)	Base, Mode	Base, Mean	High (P10)	Low (P90)	Base, Mode	Base, Mean	High (P10)	
In place resources	Oil [10 ⁶ Sm ³] (>0.00)									
	Gas [10 ⁹ Sm ³] (>0.00)									
Recoverable resources	Oil [10 ⁶ Sm ³] (>0.00)									
	Gas [10 ⁹ Sm ³] (>0.00)									
Reservoir Chrono (from)	Aalenian	Reservoir litho (from)	Rannoch Fm	Source Rock, chrono primary	Kimmeridgian	Source Rock, litho primary	Draupne Fm	Seal, Chrono	Bathonian	
Reservoir Chrono (to)	Aalenian	Reservoir litho (to)	Rannoch Fm	Source Rock, chrono secondary	Bathonian	Source Rock, litho secondary	Heather Fm	Seal, Litho	Heather Fm	
Probability [fraction]										
Total (oil + gas + oil & gas case) (0.00-1.00)	0,14	Oil case (0.00-1.00)	1,00	Gas case (0.00-1.00)	0,00	Oil & Gas case (0.00-1.00)	0,00			
Reservoir (P1) (0.00-1.00)	0,50	Trap (P2) (0.00-1.00)	0,40	Charge (P3) (0.00-1.00)	0,72	Retention (P4) (0.00-1.00)	1,00			
Parametres:		Low (P90)	Base	High (P10)	Comments					
Depth to top of prospect [m MSL] (> 0)										
Area of closure [km²] (> 0.0)										
Reservoir thickness [m] (> 0)										
HC column in prospect [m] (> 0)										
Gross rock vol. [10 ⁹ m³] (> 0.000)										
Net / Gross [fraction] (0.00-1.00)										
Porosity [fraction] (0.00-1.00)										
Permeability [mD] (> 0.0)										
Water Saturation [fraction] (0.00-1.00)										
Bg [Rm3/Sm3] (< 1.0000)										
1/Bo [Sm3/Rm3] (< 1.00)										
GOR, free gas [Sm³/Sm³] (> 0)										
GOR, oil [Sm³/Sm³] (> 0)										
Recov. factor, oil main phase [fraction] (0.00-1.00)										
Recov. factor, gas ass. phase [fraction] (0.00-1.00)										
Recov. factor, gas main phase [fraction] (0.00-1.00)										
Recov. factor, liquid ass. phase [fraction] (0.00-1.00)										
For NPD use:										
Temperature, top res [°C] (>0)					Innrapp. av geolog-init:	NPD will insert value	Registrert - init:	NPD will insert value	Kart oppdatert	NPD will insert value
Pressure, top res [bar] (>0)					Dato:	NPD will insert value	Registrert Dato:	NPD will insert value	Kart dato	NPD will insert value
Cut off criteria for N/G calculation	1.	2.	3.				Kart nr	NPD will insert value		

Structural elements (North Sea)		Structural elements (Norwegian Sea)		Structural elements (Barents Sea)		Chronostratigraphy (ICS)		Lithostratigraphy (North Sea)	Lithostratigraphy (Norwegian Sea)	Lithostratigraphy (Barents Sea)
Name	Level	Name	Level	Name	Level	Name	Level			
OYGARDEN FAULT ZONE	2	VØRING BASIN	2	BJARMELAND PLATFORM	2	DEVONIAN	1	For Lithostratigraphic names, please refer to www.npd.no (fact pages)		
EAST SHETLAND BASIN	2	RÅS BASIN	3	GARDARBANKEN HIGH	3	Lower	2			
TAMPEN SPUR	3	HELLAND-HANSEN ARCH	4	HAAPET DOME	3	<i>Lochkovian</i>	3			
MAKRELL HORST	3	SLETTINGEN RIDGE	4	HOOP FAULT COMPLEX	3	<i>Pragian</i>	3			
VIKING GRABEN	2	GRIP HIGH	4	MAUD BASIN	3	<i>Emsian</i>	3			
MARFLO SPUR	3	TRÆNA BASIN	3	MERCURIUS HIGH	3	Middle	2			
LOMRE TERRACE	3	NÅGRIND SYNCLINE	3	NORSEL HIGH	3	<i>Eifelian</i>	3			
SLEIPNER TERRACE	3	NYK HIGH	4	NYSLEPPEN FAULT COMPLEX	3	<i>Givetian</i>	3			
SOGN GRABEN	2	UTGARD HIGH	4	POLSTJERNA FAULT COMP	3	Upper	2			
MÅLØY TERRACE	3	HEL GRABEN	3	SAMSON DOME	3	<i>Frasnian</i>	3			
SELJE HORST	4	NAGLFAR DOME	4	SVALIS DOME	3	<i>Famennian</i>	3			
UER TERRACE	3	FENRIS GRABEN	3	SWAEN GRABEN	3	CARBONIFEROUS	1			
HORDA PLATFORM	2	FLES FAULT COMPLEX	3	BJØRNØYA BASIN	2	Mississippian Lower	2			
UTSIRA HIGH	3	REVFALLET FAULT COMPLEX	3	FINGERDJUPET SUB-BASIN	3	<i>Tournaisian</i>	3			
STORD BASIN	3	KLAKK FAULT COMPLEX	3	LEIRDJUPET FAULT COMP	3	Mississippian Middle	2			
PATCH BANK RIDGE	3	SURT LINEAMENT	3	VESLEMØY HIGH	3	<i>Visean</i>	3			
BRAGE HORST	3	RYM FAULT ZONE	4	BJØRNØYRENNÅ F. COMP	2	Mississippian Upper	2			
BRAGE FAULT	3	GJALLAR RIDGE	3	EDGEØYA PLATFORM	2	<i>Serpukhovian</i>	3			
BJØRGVIN ARCH	3	DONNA TERRACE	3	FEDYNSKY HIGH	2	Pennsylvanian Lower	2			
OSEBERG FAULT BLOCK	3	HALTEN TERRACE	3	FINNMARK PLATFORM	2	<i>Bashkirian</i>	3			
NORWEGIAN DANISH BASIN	2	SKLINNA RIDGE	4	MÅSØY FAULT COMPLEX	3	Pennsylvanian Middle	2			
LING DEPRESSION	3	GRINDA GRABEN	3	SIGNALHORN DOME	3	<i>Moscovian</i>	3			
ÅSTA GRABEN	3	HØGBRAKEN HORST	4	THOR IVERSEN FAULT COMP	3	Pennsylvanian Upper	2			
EGERSUND BASIN	3	ELLINGRÅSA GRABEN	4	TIDDLYBANKEN BASIN	3	<i>Kasimovian</i>	3			
LISTA FAULT BLOCK COMP.	3	GIMSAN BASIN	4	TROMS-FINNMARK F. COMP	3	<i>Gzhelian</i>	3			
KRABBE FAULT ZONE	3	KYA FAULT ZONE	4	HAMMERFEST BASIN	2	PERMIAN	1			
KREPS FAULT ZONE	3	GJÆSLINGAN LINEAMENT	4	HARSTAD BASIN	2	Cisuralian	2			
HOLMSLAND FAULT ZONE	3	VEMA DOME	4	HORNSTAD FAULT COMP	2	<i>Asselian</i>	3			
SELE HIGH	3	VIGRID SYNCLINE	3	KNØLEGGÅ FAULT ZONE	3	<i>Sakmarian</i>	3			
FENNOSCANDIAN BORDER	2	YTREHOLMEN FAULT ZONE	3	KONG KARL PLATFORM	2	<i>Artinskian</i>	3			
ROTT BASIN	3	VØRING MARGINAL HIGH	2	LOPPA HIGH	2	<i>Kungurian</i>	3			
STAVANGER PLATFORM	3	VØRING ESCARPMENT	3	ASTERIAS FAULT COMP	3	Guadalupian	2			
EIGERØY HORST	3	GLEIPNE FRACTURE ZONE	3	POLHEM SUB-PLATFORM	3	<i>Roadian</i>	3			
VARNES GRABEN	3	JANMAYEN LINEAMENT	2	NORDKAPP BASIN	2	<i>Wordian</i>	3			
FARSUND BASIN	3	JANMAYEN FRACTURE ZONE	2	VESLEKARI DOME	3	<i>Capitanian</i>	3			
FJERRITSLØV FAULT ZONE	3	BIVROST LINEAMENT	3	OLGA BASIN	2	Lopingian	2			
SØRVESTLANDET HIGH	2	BIVROST FRACTURE ZONE	2	RINGVASSØY-LOPPA F COMP	2	<i>Wuchiapingian</i>	3			
REKEFAULT ZONE	3	TRØNDELAG PLATFORM	2	SENTRALBANKEN HIGH	2	<i>Changhsingian</i>	3			
HUMMER FAULT ZONE	3	NORDLAND RIDGE	3	STAPPEN HIGH	2	TRIASSIC	1			
JÆREN HIGH	3	SØR HIGH	4	SØRKAPP BASIN	2	Lower	2			
ULA GYDA FAULT ZONE	3	RØDØY HIGH	4	SØRVESTSNAGET BASIN	2	<i>Induan</i>	3			
COFFEE SOIL FAULT	3	GRØNØY HIGH	4	VESTBAKKEN VOLCANIC PROV.	3	<i>Olenekian</i>	3			
CENTRAL TROUGH	2	HELGELAND BASIN	3	TROMSØ BASIN	2	Middle	2			
COD TERRACE	3	VEGA HIGH	3	SENJA RIDGE	3	<i>Anisian</i>	3			
HIDRA HIGH	3	YLNINGEN FAULT ZONE	3	YERMAK PLATEAU	2	<i>Ladinian</i>	3			
STEINBIT TERRACE	3	BREMSTEIN FAULT COMPLEX	3			Upper	2			
PIGGVAR TERRACE	3	VINGLEIA FAULT COMPLEX	3			<i>Carnian</i>	3			
BREIFLABB BASIN	3	FROAN BASIN	3			<i>Norian</i>	3			
FEDA GRABEN	3	FRØYA HIGH	3			<i>Rhaetian</i>	3			
GERTRUD GRABEN	3	MØRE BASIN	2			JURASSIC	1			
LINDESNES RIDGE	3	MØRE-TRØNDELAG F COM	3			Lower	2			
ÅL BASIN	3	MANET RIDGE	4			<i>Hettangian</i>	3			
GRENSSEN NOSE	3	GNAUSEN HIGH	4			<i>Sinemurian</i>	3			
JOSEPHINE HIGH	3	GISKE HIGH	4			<i>Pliensbachian</i>	3			
SØGNE BASIN	3	GOSSA HIGH	4			<i>Toarcian</i>	3			
		ØNA HIGH	4			Middle	2			
		MAGNUS BASIN	4			<i>Aalenian</i>	3			
		MARULK BASIN	4			<i>Bajocian</i>	3			
		SLØREBOTN SUB-BASIN	4			<i>Bathonian</i>	3			
		ORMEN LANGE DOME	3			<i>Cellovian</i>	3			
		VIGRA HIGH	3			Upper	2			

<i>MODGUNN ARCH</i>	4
MØRE MARGINAL HIGH	2
FÆROY-SHETLAND ESCARPMENT	3
VESTFJORDEN BASIN	2
LOFOTEN RIDGE	2
RIBBAN BASIN	2
SKOMVÆR SUB-BASIN	3
HAVBÆN SUB-BASIN	3
UTRØST RIDGE	2
RØST HIGH	3
MARMÆLE SPUR	3
JENNEGGA HIGH	3
VESTERDJUPET FAULT ZONE	2

<i>Oxfordian</i>	3
<i>Kimmeridgian</i>	3
<i>Tithonian</i>	3
CRETACEOUS	1
<i>Lower</i>	2
<i>Berriasian</i>	3
<i>Valanginian</i>	3
<i>Hauterivian</i>	3
<i>Barremian</i>	3
<i>Aptian</i>	3
<i>Albian</i>	3
<i>Upper</i>	2
<i>Cenomanian</i>	3
<i>Turonian</i>	3
<i>Coniacian</i>	3
<i>Santonian</i>	3
<i>Campanian</i>	3
<i>Maastrichtian</i>	3
PALEOGENE	1
<i>Paleocene</i>	2
<i>Danian</i>	3
<i>Selandian</i>	3
<i>Thanetian</i>	3
<i>Eocene</i>	2
<i>Ypresian</i>	3
<i>Lutetian</i>	3
<i>Bartonian</i>	3
<i>Priabonian</i>	3
<i>Oligocene</i>	2
<i>Rupelian</i>	3
<i>Chattian</i>	3
NEOGENE	1
<i>Miocene</i>	2
<i>Aquitanian</i>	3
<i>Burdigalian</i>	3
<i>Langhian</i>	3
<i>Serravallian</i>	3
<i>Tortonian</i>	3
<i>Messinian</i>	3
<i>Pliocene</i>	2
<i>Zanclean</i>	3
<i>Piacenzian</i>	3
<i>Pleistocene</i>	2
<i>Gelasian</i>	3
<i>Calabrian</i>	3
<i>Ionian</i>	3
<i>Tarantian</i>	3
<i>Holocene</i>	2