



Generell informasjon

Brønnbane navn	7228/7-1 A
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	BARENTS SEA
Funn	7228/7-1 (Pandora)
Brønn navn	7228/7-1
Seismisk lokalisering	3D ST 9403- INLINE 1378 & CROSSLINE 1557
Utvinningstillatelse	202
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	996-L
Boreinnretning	TRANSOCEAN ARCTIC
Boredager	26
Borestart	08.01.2001
Boreslutt	02.02.2001
Plugget dato	02.02.2001
Frigitt dato	02.02.2003
Publiseringsdato	11.02.2003
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE TRIASSIC
1. nivå med hydrokarboner, formasjon.	SNADD FM
2. nivå med hydrokarboner, alder	EARLY TRIASSIC
2. nivå med hydrokarboner, formasjon	KLAPPMYSS FM
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	288.0
Totalt målt dybde (MD) [m RKB]	2881.0
Totalt vertikalt dybde (TVD) [m RKB]	2848.0
Maks inklinasjon [°]	19.3
Temperatur ved bunn av brønnbanen [°C]	89



Eldste penetrerte alder	EARLY TRIASSIC
Eldste penetrerte formasjon	KLAPPMYSS FM
Geodetisk datum	ED50
NS grader	72° 15' 28.9" N
ØV grader	28° 8' 59.7" E
NS UTM [m]	8018306.53
ØV UTM [m]	539111.27
UTM sone	35
NPDID for brønnbanen	4257

Brønnhistorie

General

Wellbore 7228/7-1 A is situated in the Nordkapp basin. The Nordkapp basin is the most pronounced structural element east of Loppa High, with a basinal-axis oriented NE-SW. From top Cretaceous and down to TD of the well the sediments are steeply dipping due to salt diapirism, with the salt diapir located SE of the surface location. Well 7228/7-1S unexpectedly drilled into a Permian block where the target reservoir was prognosed and so did not reach the main target for the planned well. Based on this result it was decided to drill sidetrack 7228/7-1 A. The main objectives of well 7228/7-1 A was to test the hydrocarbon potential of Upper and Middle Triassic sandstones of the Snadd Formation.

Operations and results

Well 7228/7-1 A was kicked off from well 7228/7-1 S T3 below the 13 3/8" casing shoe at 1341 m on 8 January 2001 and drilled with the semi-submersible installation "Transocean Arctic" to a total depth of 2881 m in the Early Triassic (Spathian) Klappmys Formation. The well was drilled with "Glydril" mud (KCl / Polymer / glycol) from kick-off to TD. As in 7228/7-1 S several good reservoir zones were penetrated in the Jurassic section, the Stø Formation, the Nordmela Formation and the Tubåen Formation. The Jurassic reservoirs were water wet as proved in 7228/7-1 S T3. Good reservoir zones were also penetrated in Snadd and Klappmys Formations in the Triassic section. The Lower Carnian sandstones in the Snadd Formation proved to be gas and oil bearing, whilst the Klappmys Formation was gas bearing. This was verified both by shows on cores, logs, samples and laboratory studies of the cores. Both hydrocarbon bearing reservoir zones were cored. Two of these were cut in the Snadd Formation, one in the Kobbe Formation, and one in the Klappmys Formation. Wire line MDT gas samples were taken at 2051.1 m and 2057.5 m, while a MDT oil sample was taken at 2091.1 m. The samples were considered of good quality. Well 7228/7-1 A proved an oil-down-to situation in the Lower Carnian sandstone at 2100 m (2078 m TVD RKB, 2054 m TVD MSL). The gas to oil contact was estimated at approximately 2086 m (2064 m TVD RKB, 2040 m TVD MSL). It was decided to drill a sidetrack in order to verify the oil-water contact. Well 7228/7-1 A was permanently abandoned as an oil and gas discovery on 2 February 2001.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1344.00	2880.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2059.0	2074.7	[m]
2	2075.1	2102.8	[m]
3	2455.0	2457.3	[m]
4	2833.0	2860.9	[m]

Total kjerneprøve lengde [m]	73.6
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2059-2064m



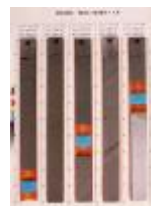
2064-2069m



2069-2074m



2074-2079m



2079-2084m



2084-2089m



2089-2094m



2094-2099m



2099-2456m



2456-2836m



2836-2841m



2841-2846m



2846-2851m



2851-2856m



2856-2860m



Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2106.6	[m]	C	ICHRON

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
MDT		2091.10	0.00	CONDE NSATE	23.07.2001 - 00:00	YES
MDT		0.00	0.00	CONDE NSATE	23.07.2001 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
311	NORDLAND GP
334	ADVENTDALEN GP
334	KOLMULE FM
1300	KNURR FM
1314	HEKKINGEN FM
1347	FUGLEN FM
1361	KAPP TOSCANA GP
1361	STØ FM
1379	NORDMELA FM
1399	TUBÅEN FM
1494	FRUHOLMEN FM
1642	SNADD FM
2255	SASSENDALEN GP
2255	KOBBE FM
2741	KLAPPMYSS FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
4257	pdf	0.45





Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
4257_1	pdf	1.83
4257_2	pdf	1.82
4257_3	pdf	2.56
4257_4	pdf	6.08
4257_5	pdf	0.13
4257_6	pdf	5.05

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4257_7228_7_1_A_COMPLETION_LOG	.pdf	1.83
4257_7228_7_1_A_COMPLETION_REPORT_NY	.pdf	6.95

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CMR ECS HNGS ACTS	2023	2115
DSI FMI GR	1323	2881
HRLA PEX HNGS ACTS	1323	2881
MDT ACTS GR	1398	2493
MDT GR	2087	2091
MWD MPR	1341	2059
VSP GR	871	1322
VSP GR	1245	2873

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
CONDUCTOR	30	372.0	36	373.0	0.00	LOT
INTERM.	20	502.0	26	503.0	1.62	LOT
INTERM.	13 3/8	1323.0	17 1/2	1325.0	1.73	LOT





OPEN HOLE		2881.0	12 1/4	2881.0	0.00	LOT
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Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1540	1.35	19.0		GLYDRILL	
1764	1.35	18.0		GLYDRILL	
2004	1.34	21.0		GLYDRILL	
2045	1.35	19.0		GLYDRILL	
2098	1.35	20.0		GLYDRILL	
2102	1.35	20.0		GLYDRILL	
2224	1.35	19.0		GLYDRILL	
2833	1.43	27.0		GLYDRILL	
2856	1.43	26.0		GLYDRILL	
2861	1.43	27.0		GLYDRILL	
2881	1.45	28.0		GLYDRILL	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
2100.75	[m]
2841.30	[m]
2843.80	[m]
2853.45	[m]

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
4257 Formation pressure (Formasjonstrykk)	pdf	0.28

