



Generell informasjon





Brønnbane navn	6407/10-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6407/10-2
Seismisk lokalisering	NH 8604-808 LINE 270 COLUMN 8604-1420
Utvinningstillatelse	132
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	633-L
Boreinnretning	VILDKAT EXPLORER
Boredager	52
Borestart	03.05.1990
Boreslutt	23.06.1990
Frigitt dato	23.06.1992
Publiseringsdato	02.03.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	334.0
Totalt målt dybde (MD) [m RKB]	3825.0
Totalt vertikalt dybde (TVD) [m RKB]	3824.0
Maks inklinasjon [°]	4.5
Temperatur ved bunn av brønnbanen [°C]	120
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	TILJE FM
Geodetisk datum	ED50
NS grader	64° 13' 44.34" N
ØV grader	7° 16' 54.02" E
NS UTM [m]	7123832.87
ØV UTM [m]	416644.87
UTM sone	32
NPDID for brønnbanen	1497



Brønnhistorie

General

Well 6407/10-2 was drilled on the B-II structure south-east of the Njord Field, and is characterized by a prominent hanging wall anticline and syncline off the Trøndelag Platform and shows little tectonic disturbance as seen on seismic sections. From tectonic model inferred in the area, the tectonic damage to the reservoir rocks was expected to be less than previously encountered in the A-Central and the A-North areas. Movements along the main fault during the Late Jurassic caused sedimentation of Triassic and / or Middle and Early Jurassic clastics of delta fan type. Source rock for B-II area was prognosed to be the mature part of the Spekk Formation. Possible shallow gas might be present some 30 - 40 m below sea level. One core would be taken in each of the Garn, Ile and Tilje formations. The main objectives for the well were to assess the reservoir quality and hydrocarbon potential of the Garn, Ile, and Tilje Formations and the Late Jurassic sequence; to obtain reservoir pressure; confirm the seismic and geological model; and to assess the presence of sands in the Early Cretaceous sequence.

Prognosed TD was 3700 m in the upper part of the Tilje Formation, or alternatively 4040 m in Triassic rocks.

Operations and results

Wildcat well 6407/10-2 was spudded with the semi-submersible rig Vildkat Explorer on 3 May 1990 and drilled to TD at 3825 m in the Early Jurassic Tilje Formation sandstones. The well was drilled with seawater and hi-vis pills down to 1070 m and with KCl/Polymer/Polyacrylamide mud system from 1070 m to TD. In the 17 1/2" section 1070 to 2188 m mud from a previous well was used, below 2188 m fresh mud was used. Apart from some difficulties during logging, drilling went on without any significant problems. No shallow gas was encountered in this well. Apart from 8 m Lysing sand at 2378 m there was no significant sand body development in the Cretaceous succession. The Garn Formation was not present in the well location. Hydrocarbons were absent in both the Ile- and Tilje formations. Weak to very weak shows were observed on claystones between 2660 m to 2720 m in the Lange Formation. Moderate to very weak shows were observed on claystones and sandstones throughout most of the Jurassic section. A total of 180 sidewall cores were attempted in three runs, and 104 were recovered. Two conventional cores were cut in the Ile- and Tilje formations. No fluid samples were taken. The well was permanently abandoned on 23 June 1990 as a dry well.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1080.00	3825.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3446.0	3457.2	[m]
2	3682.0	3694.0	[m]

Total kjerneprøve lengde [m]	23.2
Kjerner tilgjengelig for prøvetaking?	YES

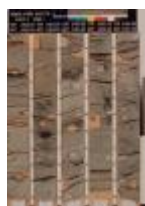
Kjernebilder



3442-3447m



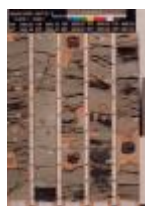
3447-3452m



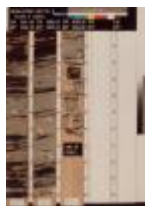
3452-3457m



3457-3686m



3686-3691m



3691-3693m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1080.0	[m]	DC	STRAT
1090.0	[m]	DC	STRAT
1110.0	[m]	DC	STRAT
1140.0	[m]	DC	STRAT
1170.0	[m]	DC	STRAT
1210.0	[m]	DC	STRAT
1250.0	[m]	DC	STRAT
1290.0	[m]	DC	STRAT
1330.0	[m]	DC	STRAT
1370.0	[m]	DC	STRAT
1400.0	[m]	DC	STRAT



1440.0 [m]	DC	STRAT
1480.0 [m]	DC	STRAT
1520.0 [m]	DC	STRAT
1560.0 [m]	DC	STRAT
1620.0 [m]	DC	HYDRO
1630.0 [m]	DC	HYDRO
1640.0 [m]	DC	STRAT
1660.0 [m]	DC	HYDRO
1680.0 [m]	DC	STRAT
1720.0 [m]	DC	STRAT
1760.0 [m]	DC	STRAT
1800.0 [m]	DC	STRAT
1840.0 [m]	DC	STRAT
1860.0 [m]	DC	HYDRO
1880.0 [m]	DC	STRAT
1890.0 [m]	DC	HYDRO
1900.0 [m]	DC	HYDRO
1910.0 [m]	DC	HYDRO
1920.0 [m]	DC	STRAT
1960.0 [m]	DC	STRAT
2000.0 [m]	DC	STRAT
2040.0 [m]	DC	STRAT
2080.0 [m]	DC	STRAT
2120.0 [m]	DC	STRAT
2160.0 [m]	DC	STRAT
2200.0 [m]	DC	STRAT
2240.0 [m]	DC	STRAT
2280.0 [m]	DC	STRAT
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2445.0 [m]	DC	STRAT
2455.0 [m]	DC	STRAT
2465.0 [m]	DC	STRAT
2495.0 [m]	DC	STRAT
2505.0 [m]	DC	STRAT
2515.0 [m]	DC	STRAT
2525.0 [m]	DC	STRAT
2555.0 [m]	DC	STRAT
2585.0 [m]	DC	STRAT
2595.0 [m]	DC	STRAT



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 12.5.2024 - 07:19

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2635.0	[m]	DC	STRAT
2675.0	[m]	DC	STRAT
2685.0	[m]	DC	STRAT
2695.0	[m]	DC	STRAT
2705.0	[m]	DC	STRAT
2715.0	[m]	DC	STRAT
2735.0	[m]	DC	STRAT
2745.0	[m]	DC	STRAT
2755.0	[m]	DC	STRAT
2765.0	[m]	DC	STRAT
2775.0	[m]	DC	STRAT
2795.0	[m]	DC	STRAT
2805.0	[m]	DC	STRAT
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2822.0	[m]	DC	PETROSTR
2827.0	[m]	DC	PETROS
2832.0	[m]	DC	PETROS
2837.0	[m]	DC	PETROS
2842.0	[m]	DC	PETROS
2847.0	[m]	DC	PETROS
2852.0	[m]	DC	PETROS
2855.0	[m]	DC	PETROS
2855.0	[m]	DC	STRAT
2860.0	[m]	DC	PETROSTR
2865.0	[m]	DC	PETROS
2870.0	[m]	DC	PETROS
2875.0	[m]	DC	PETROS
2880.0	[m]	DC	PETROS
2885.0	[m]	DC	PETROS
2885.0	[m]	DC	STRAT
2890.0	[m]	DC	PETROS
2895.0	[m]	DC	PETROS
2895.0	[m]	DC	STRAT
2900.0	[m]	DC	PETROSTR
2905.0	[m]	DC	PETROS
2910.0	[m]	DC	PETROS
2915.0	[m]	DC	STRAT
2925.0	[m]	DC	STRAT



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 12.5.2024 - 07:19

2930.0	[m]	DC	STRAT
2930.0	[m]	DC	PETROSTR
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2945.0	[m]	DC	STRAT
2947.0	[m]	DC	PETROSTR
2955.0	[m]	DC	STRAT
2965.0	[m]	DC	STRAT
2965.0	[m]	DC	PETROSTR
2975.0	[m]	DC	STRAT
2985.0	[m]	DC	STRAT
2985.0	[m]	DC	PETROSTR
3015.0	[m]	DC	STRAT
3025.0	[m]	DC	STRAT
3035.0	[m]	DC	STRAT
3045.0	[m]	DC	STRAT
3055.0	[m]	DC	STRAT
3085.0	[m]	DC	STRAT
3105.0	[m]	DC	STRAT
3140.0	[m]	DC	STRAT
3150.0	[m]	DC	STRAT
3160.0	[m]	DC	STRAT
3180.0	[m]	DC	STRAT
3200.0	[m]	DC	STRAT
3220.0	[m]	DC	STRAT
3250.0	[m]	DC	STRAT
3280.0	[m]	DC	STRAT
3290.0	[m]	DC	STRAT
3300.0	[m]	DC	STRAT
3310.0	[m]	DC	STRAT
3340.0	[m]	DC	STRAT
3360.0	[m]	DC	HYDRO
3370.0	[m]	DC	STRAT
3400.0	[m]	DC	STRAT
3430.0	[m]	DC	STRAT
3470.0	[m]	DC	STRAT
3480.0	[m]	DC	STRAT
3500.0	[m]	DC	STRAT
3510.0	[m]	DC	STRAT
3520.0	[m]	DC	STRAT
3530.0	[m]	DC	STRAT



3540.0	[m]	DC	STRAT
3550.0	[m]	DC	STRAT
3560.0	[m]	DC	STRAT
3590.0	[m]	DC	STRAT
3610.0	[m]	DC	STRAT
3640.0	[m]	DC	STRAT
3660.0	[m]	DC	STRAT
3670.0	[m]	DC	STRAT
3700.0	[m]	DC	STRAT
3710.0	[m]	DC	STRAT
3720.0	[m]	DC	STRAT
3750.0	[m]	DC	STRAT
3770.0	[m]	DC	STRAT
3780.0	[m]	DC	STRAT
3800.0	[m]	DC	STRAT
3825.0	[m]	DC	HYDRO

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
359	NORDLAND GP
359	NAUST FM
1009	KAI FM
1105	HORDALAND GP
1105	BRYGGE FM
1627	ROGALAND GP
1627	TARE FM
1689	TANG FM
1877	SHETLAND GP
2378	CROMER KNOLL GP
2378	LYSING FM
2386	LANGE FM
2770	LYR FM
2821	VIKING GP
2821	SPEKK FM
2830	ROGN FM
2904	MELKE FM
3327	FANGST GP
3327	NOT FM



3436	ILE FM
3479	BÅT GP
3479	ROR FM
3679	TILJE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
1497	pdf	0.53

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1497_1	pdf	0.91

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1497_01_WDSS_General_Information	pdf	0.21
1497_02_WDSS_completion_log	pdf	0.22

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1497_6407_10_2_COMPLETION_REPORT_AND_LOG	pdf	19.10

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR	1700	2163
CNL NGL AMS	2163	3828
CST GR	2230	3010





CST GR	2230	3793
CST GR	3025	3813
DIL LDL SP GR	2163	3828
DIL LSS LDL SP GR	1054	2185
FMS GR AMS	2163	3828
LSS GR	0	0
LSS GR	2163	3250
MWD - GR RES DIR	359	3825
RFT HP AMS	2383	3779
SDT GR AMS	3030	3826
VSP	2220	3810

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	445.0	36	447.0	0.00	LOT
INTERM.	20	1056.0	26	1070.0	1.95	LOT
INTERM.	13 3/8	2164.0	17 1/2	2188.0	1.70	LOT
OPEN HOLE		3825.0	12 1/4	3825.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
397	1.07			WATER BASED	03.05.1990
406	1.07			WATER BASED	04.05.1990
443	1.07			WATER BASED	10.05.1990
447	1.07			WATER BASED	10.05.1990
448	1.07			WATER BASED	10.05.1990
808	1.10			WATER BASED	10.05.1990
1070	1.07			WATER BASED	10.05.1990
1070	1.07			WATER BASED	14.05.1990
1070	1.10			WATER BASED	10.05.1990
1070	1.07			WATER BASED	14.05.1990
1177	1.45	11.0	8.0	WATER BASED	14.05.1990
1364	1.60	19.0	8.0	WATER BASED	14.05.1990
1529	1.60	25.0	8.0	WATER BASED	15.05.1990
1656	1.60	24.0	13.0	WATER BASED	16.05.1990



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 12.5.2024 - 07:19

1969	1.59	26.0	10.0	WATER BASED	21.05.1990
2040	1.32	17.0	10.0	WATER BASED	22.06.1990
2119	1.60	30.0	13.0	WATER BASED	21.05.1990
2168	1.60	25.0	11.0	WATER BASED	21.05.1990
2188	1.59	32.0	12.0	WATER BASED	21.05.1990
2188	1.59	31.0	9.0	WATER BASED	21.05.1990
2191	1.38	27.0	10.0	WATER BASED	22.05.1990
2435	1.38	25.0	10.0	WATER BASED	23.05.1990
2590	1.38	23.0	11.0	WATER BASED	25.05.1990
2656	1.39	18.0	10.0	WATER BASED	25.05.1990
2768	1.38	26.0	8.0	WATER BASED	28.05.1990
2853	1.38	21.0	10.0	WATER BASED	28.05.1990
2887	1.38	17.0	10.0	WATER BASED	28.05.1990
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3202	1.38	21.0	10.0	WATER BASED	05.06.1990
3252	1.38	20.0	10.0	WATER BASED	05.06.1990
3305	1.38	25.0	12.0	WATER BASED	05.06.1990
3357	1.38	24.0	10.0	WATER BASED	05.06.1990
3370	1.32	17.0	10.0	WATER BASED	21.06.1990
3411	1.38	22.0	11.0	WATER BASED	05.06.1990
3442	1.38	14.0	10.0	WATER BASED	06.06.1990
3458	1.38	23.0	13.0	WATER BASED	07.06.1990
3509	1.38	20.0	10.0	WATER BASED	08.06.1990
3553	1.38	20.0	10.0	WATER BASED	11.06.1990
3587	1.38	22.0	12.0	WATER BASED	11.06.1990
3641	1.38	20.0	13.0	WATER BASED	11.06.1990
3664	1.38	22.0	12.0	WATER BASED	12.06.1990
3682	1.38	22.0	12.0	WATER BASED	13.06.1990
3700	1.38	20.0	12.0	WATER BASED	14.06.1990
3806	1.38	19.0	14.0	WATER BASED	14.06.1990
3825	1.38	19.0	14.0	WATER BASED	18.06.1990
3825	1.32	17.0	10.0	WATER BASED	18.06.1990
3825	1.38	19.0	14.0	WATER BASED	18.06.1990
3825	1.32	17.0	10.0	WATER BASED	19.06.1990
3825	1.32	17.0	10.0	WATER BASED	20.06.1990

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]
1497 Formation pressure (Formasjonstrykk)	pdf	0.24

