



Generell informasjon

Brønnbane navn	32/4-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	32/4-1
Seismisk lokalisering	TE 90 -112 * TE 90 - 207
Utvinningstillatelse	205
Boreoperatør	Phillips Petroleum Company Norway
Boretillatelse	863-L
Boreinnretning	TRANSOCEAN 8
Boredager	45
Borestart	21.10.1996
Boreslutt	04.12.1996
Frigitt dato	04.12.1998
Publiseringsdato	29.05.2002
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	312.0
Totalt målt dybde (MD) [m RKB]	3186.0
Totalt vertikalt dybde (TVD) [m RKB]	3185.0
Maks inklinasjon [°]	3
Temperatur ved bunn av brønnbanen [°C]	110
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	60° 43' 21.58" N
ØV grader	4° 4' 36.44" E
NS UTM [m]	6732537.25
ØV UTM [m]	558747.24
UTM sone	31
NPDID for brønnbanen	2918



Brønnhistorie

General

Wildcat well 32/4-1 was the first well drilled in Production Licence 205. It is located on the Horda Platform in the Northern North Sea about five kilometers east of the East Troll Gas Field. The primary objective of the well was to prove commercial reserves within the Upper Jurassic Sognefjord Formation sand reservoirs. The Alpha prospect was believed to be filled with oil spilled from the Troll Field. Secondary objectives were present in potential stacked Upper, Middle and Lower Jurassic sand reservoirs, in Triassic, and in possible Paleozoic sand reservoirs.

Operations and results

Well 32/4-1 was spudded 21 October 1996, using the semi-submersible drilling rig "Transocean 8". The first attempt to drill the well failed after experiencing problems when running the 13 3/8" casing. The casing unscrewed and parted at 619 m. The hole was filled with cement and abandoned. The rig was moved about 50 m to the north and the well was respudded. The well was drilled without major drilling problems, except for some difficulties with getting the 9 5/8" casing hanger through the BOP stack and mud losses when drilling through the Viking Group. The well was drilled into Basement rocks at a total depth of 3186 m. The well was drilled with spud mud to 720 m and water based KCl/Drispac with glycol from 720 m to TD.

The Upper Jurassic reservoir interval was encountered 6 m shallower than prognosed and contained 65.5 m of water-wet Sognefjord sandstones. In addition, water wet sandstones of the secondary targets were present as the Fensfjord, Krossfjord, Cook, Statfjord and Lunde Formations.

Four cores were cut in the Upper Jurassic. The two first were cut in the Heather Formation silt- and sandstones, while core 3 and 4 were cut in sandstones of the Sognefjord Formation (1220-1235.5 m, 1232.5-1237.5 m, 1237.5-1256 m and 1257-1275 m, respectively). A FMT water sample was collected from 1359 m.

The well was permanently plugged and abandoned as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
730.00	3186.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1220.0	1232.6	[m]
2	1232.6	1237.1	[m]
3	1237.5	1242.1	[m]
4	1256.0	1275.2	[m]

Total kjerneprøve lengde [m]	40.9
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



1220-1225m



1225-1230m



1230-1232m



1232-1237m



1237-1242m



1256-1261m



1261-1266m



1266-1271m



1271-1275m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
730.0	[m]	DC	RRI
760.0	[m]	DC	RRI
800.0	[m]	DC	RRI
820.0	[m]	DC	RRI
840.0	[m]	DC	RRI
860.0	[m]	DC	RRI
880.0	[m]	DC	RRI
890.0	[m]	DC	RRI
910.0	[m]	DC	RRI
940.0	[m]	DC	RRI



960.0 [m]	DC	RRI
980.0 [m]	DC	RRI
1000.0 [m]	DC	RRI
1020.0 [m]	DC	RRI
1040.0 [m]	DC	RRI
1070.0 [m]	DC	RRI
1100.0 [m]	DC	RRI
1120.0 [m]	DC	RRI
1140.0 [m]	DC	RRI
1150.0 [m]	DC	RRI
1156.0 [m]	DC	RRI
1162.0 [m]	DC	RRI
1171.0 [m]	DC	RRI
1180.0 [m]	DC	RRI
1189.0 [m]	DC	RRI
1198.0 [m]	DC	RRI
1207.0 [m]	DC	RRI
1216.0 [m]	DC	RRI
1220.4 [m]	DC	RRI
1226.4 [m]	DC	RRI
1233.0 [m]	DC	RRI
1240.0 [m]	DC	RRI
1240.6 [m]	DC	RRI
1260.6 [m]	DC	RRI
1266.8 [m]	DC	RRI
1277.0 [m]	DC	RRI
1310.0 [m]	DC	RRI
1316.0 [m]	DC	RRI
1328.0 [m]	DC	RRI
1340.0 [m]	DC	RRI
1368.0 [m]	DC	RRI
1374.0 [m]	DC	RRI
1395.0 [m]	DC	RRI
1404.0 [m]	DC	RRI
1410.0 [m]	DC	RRI
1416.0 [m]	DC	RRI
1422.0 [m]	DC	RRI
1431.0 [m]	DC	RRI
1440.0 [m]	DC	RRI
1458.0 [m]	DC	RRI



1467.0 [m]	DC	RRI
1476.0 [m]	DC	RRI
1494.0 [m]	DC	RRI
1503.0 [m]	DC	RRI
1524.0 [m]	DC	RRI
1653.0 [m]	DC	RRI
1662.0 [m]	DC	RRI
1674.0 [m]	DC	RRI
1680.0 [m]	DC	RRI
1704.0 [m]	DC	RRI
1707.0 [m]	DC	RRI
1719.0 [m]	DC	RRI
1737.0 [m]	DC	RRI
1747.0 [m]	DC	RRI
1765.0 [m]	DC	RRI
1783.0 [m]	DC	RRI
1794.0 [m]	DC	RRI
1801.0 [m]	DC	RRI
1815.0 [m]	DC	RRI
1833.0 [m]	DC	RRI
1845.0 [m]	DC	RRI
1872.0 [m]	DC	RRI
1959.0 [m]	DC	RRI
2079.0 [m]	DC	RRI
2133.0 [m]	DC	RRI
2160.0 [m]	DC	RRI
2250.0 [m]	DC	RRI
2343.0 [m]	DC	RRI
2403.0 [m]	DC	RRI
2463.0 [m]	DC	RRI
2553.0 [m]	DC	RRI
2613.0 [m]	DC	RRI
2703.0 [m]	DC	RRI
2787.0 [m]	DC	RRI
2853.0 [m]	DC	RRI
2913.0 [m]	DC	RRI
3003.0 [m]	DC	RRI
3093.0 [m]	DC	RRI
3141.0 [m]	DC	RRI
3180.0 [m]	DC	RRI



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
336	NORDLAND GP
535	ROGALAND GP
535	SELE FM
652	LISTA FM
837	VÅLE FM
846	SHETLAND GP
846	JORSALFARE FM
849	KYRRE FM
894	TRYGGVASON FM
940	BLODØKS FM
956	SVARTE FM
1081	CROMER KNOLL GP
1081	RØDBY FM
1106	ÅSGARD FM
1109	VIKING GP
1109	DRAUPNE FM
1216	HEATHER FM
1238	SOGNEFJORD FM
1306	HEATHER FM
1366	FENSFJORD FM
1595	HEATHER FM
1598	KROSSFJORD FM
1645	HEATHER FM
1650	BRENT GP
1650	NESS FM
1655	ETIVE FM
1680	DUNLIN GP
1680	DRAKE FM
1733	COOK FM
1783	BURTON FM
1785	JOHANSEN FM
1791	AMUNDSEN FM
1816	STATEFJORD GP
1832	HEGRE GP
3132	BASEMENT



Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
2918	pdf	0.37

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
2918 1	pdf	1.62
2918 2	pdf	0.49

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
2918 32 4 1 COMPLETION REPORT AND COMPLETION LOG	pdf	25.30

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DLL MLL MAC ORIT CN ZDL DSL	1137	3155
DLL MLL MAC ORIT DSL	708	1138
FMT GR	1247	1367
MWD LWD DGR EWR4	399	3132
VSP GR	670	3170
ZDL GR	1137	3164

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	394.0	36	395.0	0.00	LOT
INTERM.	13 3/8	709.0	17 1/2	710.0	0.00	LOT
INTERM.	9 5/8	3186.0	12 1/4	3186.0	0.00	LOT





Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
352	1.30			WATER BASED	
370	1.10			WATER BASED	
395	1.20			WATER BASED	
399	1.20	2.0		WATER BASED	
556	1.20	2.0		WATER BASED	
720	1.20	7.0		WATER BASED	
723	1.10	30.0		WATER BASED	
920	1.10	46.0		WATER BASED	
1153	1.10	21.0		WATER BASED	
1156	1.10	37.0		WATER BASED	
1232	1.10	40.0		WATER BASED	
1274	0.00	24.0		WATER BASED	
1541	0.00	30.0		WATER BASED	
1915	0.00	24.0		WATER BASED	
1980	0.00	24.0		WATER BASED	
2033	0.00	28.0		WATER BASED	
2072	0.00	24.0		WATER BASED	
2249	1.41	31.0		WATER BASED	
2284	0.00	26.0		WATER BASED	
2425	0.00	31.0		WATER BASED	
2588	0.00	36.0		WATER BASED	
2991	0.00	29.0		WATER BASED	
3132	0.00	26.0		WATER BASED	
3176	0.00	30.0		WATER BASED	
3186	0.00	30.0		WATER BASED	

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]
2918 Formation pressure (Formasjonstrykk)	PDF	0.12

