



Generell informasjon

Brønnbane navn	25/2-5
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	HUGIN
Funn	25/2-5 Lille Frøy
Brønn navn	25/2-5
Seismisk lokalisering	LINE 58 2401 SP.232/LINE 78 0228 SP.1109
Utvinningsstillatelse	026
Boreoperatør	Elf Petroleum Norge AS
Boretillatelse	153-L
Boreinnretning	POLYGLOMAR DRILLER
Boredager	150
Borestart	08.03.1976
Boreslutt	04.08.1976
Frigitt dato	04.08.1978
Publiseringsdato	15.08.2008
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	VESTLAND GP
2. nivå med hydrokarboner, alder	EARLY JURASSIC
2. nivå med hydrokarboner, formasjon	STATFJORD GP
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	117.0
Totalt målt dybde (MD) [m RKB]	4000.0
Temperatur ved bunn av brønnbanen [°C]	112
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SMITH BANK FM
Geodetisk datum	ED50



NS grader	59° 48' 1.4" N
ØV grader	2° 28' 18.3" E
NS UTM [m]	6629453.96
ØV UTM [m]	470356.85
UTM sone	31
NPDID for brønnbanen	357

Brønnhistorie

Well 25/2-5 is located on the north-west rim of the Stord Basin and to the north of the main part of the Utsira High in the North Sea. The main target was Jurassic sandstones, which appeared promising after the discovery made in well 25/2-4 where Mid Jurassic (Dogger) sandstones were found to be hydrocarbon bearing, and also after the positive results of 25/4-1.

Operations and results

Wildcat well 25/2-5 was spudded with the semi-submersible installation Polyglomar Driller on 8 March 1976 and drilled to TD at 4000 m in the Triassic Smith Bank Formation.

As anticipated, good reservoirs were encountered in the early Tertiary, but without any shows (no structural closure) Jurassic sandstones present two main reservoirs: The upper reservoir "Brent sands" (3336 - 3489 m) was oil bearing in 3 zones (3339 m - 3388.5 m, 3448.5 - 3481 m, and 3487 - 3489 m), with a net oil pay of 40 m. Tests of the upper Brent showed a good productivity. The lower reservoir "Statfjord sands" (3652 - 3847 m) was oil bearing in two zones (3652 - 3692 m and 3706 - 3763 m), with a net oil pay of 44.5 m, but with lower porosities than in the "Brent sands". The pressure of the Jurassic reservoir was hydrostatic (equivalent density = 1.08).

Five cores were cut in the Vestland Group. Four were cut from 3339.5 to 3372 m in the Hugin Formation and one was cut from 3476 to 3485 m in the Sleipner Formation. Ten FIT tests were carried out in the Vestland Group sands. Five were carried out while drilling from 3354 to 3384 m. Of these, oil was recovered in two FITs at 3357.2 and 3382.5 m (density = 0.804 g/cm³ = 44 deg API). The others were unsuccessful. Another five FITS were carried out during DST3. Of these, oil was recovered in FIT no 15 at 3383.8 m and gas in the 4 others. Nine FITs were carried out in the Statfjord Formation. None of these recovered any oil or gas.

The well was permanently abandoned on 4 August as an oil and gas discovery.

Testing

Three drill stem tests were made.

DST 1 from 3692 - 3695 m (Statfjord Formation) gave no flow.

DST 2 from 3652 - 3695 m (Statfjord Formation) flowed 47700 Sm³ gas and 229 Sm³ oil /day through a 0.5 inch choke. The GOR was 208 Sm³/Sm³.

DST 3 from 3337 - 3362 m (Vestland Group) flowed 95399 Sm³ gas and 470 sm³ oil /day through a 0.5 inch choke. The GOR was 203 Sm³/Sm³ and the oil density was 0.813 g/cm³.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
200.00	4000.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3339.5	3340.0	[m]
2	3350.0	3352.0	[m]
3	3354.0	3362.0	[m]
4	3363.0	3372.0	[m]
5	3476.0	3484.7	[m]

Total kjerneprøve lengde [m]	28.2
Kjerner tilgjengelig for prøvetaking?	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
141	NORDLAND GP
458	UTSIRA FM
1055	HORDALAND GP
1158	SKADE FM
1167	NO FORMAL NAME
2155	ROGALAND GP
2155	BALDER FM
2238	HERMOD FM
2374	LISTA FM
2508	TY FM
2660	VÅLE FM
2702	SHETLAND GP
2702	HARDRÅDE FM
2990	KYRRE FM
3158	TRYGGVASON FM



3240	BLODØKS FM
3259	SVARTE FM
3292	CROMER KNOLL GP
3292	RØDBY FM
3302	VIKING GP
3302	DRAUPNE FM
3316	HEATHER FM
3336	VESTLAND GP
3336	HUGIN FM
3407	SLEIPNER FM
3489	DUNLIN GP
3489	DRAKE FM
3513	COOK FM
3605	AMUNDSEN FM
3652	STATEFJORD GP
3847	NO GROUP DEFINED
3847	SMITH BANK FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
357_1	pdf	0.11
357_2	pdf	2.29
357_3	pdf	4.40
357_4	pdf	0.54

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
357_01 WDSS General Information	pdf	0.39

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
357_25_2_5 COMPLETION REPORT AND LOG	pdf	8.84





Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	3692	3695	0.0
2.0	3652	3695	19.0
3.0	3337	3362	12.5

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				
2.0				
3.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0					
2.0	330	108000			327
3.0	470	95400	0.813		203

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC GR	193	715
CBL	1491	3705
DEV	699	2000
DLL	3300	3994
FDC CNL	3300	4001
GR CLL	3202	3705
HDT	2000	4000
HRT	143	2600
ISF GR SL	699	4001
ML MLL	2999	4001
SS	150	3893



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	193.0	36	195.0	0.00	LOT
SURF.COND.	13 3/8	2860.0	17 1/2	2873.0	0.00	LOT
INTERM.	9 5/8	3300.0	12 1/8	3313.0	0.00	LOT
LINER	7	3577.0	8 1/2	3580.0	0.00	LOT

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
3385.00	[m]
3384.00	[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]
357 Formation pressure (Formasjonstrykk)	pdf	0.23

