



Generell informasjon

Brønnbane navn	25/2-7
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	25/2-7
Seismisk lokalisering	881 105 SP 315
Utvinningstillatelse	026
Boreoperatør	Elf Petroleum Norge AS
Boretillatelse	321-L
Boreinnretning	BORGSTEN DOLPHIN
Boredager	103
Borestart	01.04.1982
Boreslutt	12.07.1982
Frigitt dato	12.07.1984
Publiseringsdato	01.12.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	117.0
Totalt målt dybde (MD) [m RKB]	4110.0
Totalt vertikalt dybde (TVD) [m RKB]	4110.0
Temperatur ved bunn av brønnbanen [°C]	133
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	DUNLIN GP
Geodetisk datum	ED50
NS grader	59° 54' 20.41" N
ØV grader	2° 38' 25.87" E
NS UTM [m]	6641115.53
ØV UTM [m]	479891.01
UTM sone	31
NPDID for brønnbanen	47

**Brønnhistorie**

General Block 25/2 is located on the eastern margin of the Viking Graben towards the Bjørgvin Arch. The main targets for well 25/2-7 were the Middle Jurassic Vestland Group and the Early Jurassic Staffjord Formation, which were hydrocarbon bearing in the surrounding wells 25/2-4, 25/2-5 and 25/2-6. In addition possible Late Callovian sands, as in the 25/2 -4 well, constituted a second target.

Operations and result

Wildcat well 25/2-7 was spudded with the semi-submersible installation Borgsten Dolphin on 1 April 1982 and drilled to TD at 4110 m in the Early Jurassic Dunlin Group. Operations took 103 days including 13 days of down time. Four and a half days were lost due to WOW, 5.5 days due to rig compensator damage, and 3 days were lost due to a leaking pack off assembly in the 9 5/8" casing. No Callovian sands (Intra Heather Formation) were encountered. Of the two main objectives the Vestland Group was confirmed and tested as a reservoir. The Vestland Group sandstones were encountered at 3406 m, 174 m higher than prognosed. It was 389 m thick, which was thicker than expected, and it consisted of an upper and a lower interval. Massive beds of sandstone, locally slightly shaly or well cemented with some layers of black shales and coal were encountered in the upper interval from 3406 m to 3628 m. The gross thickness of this interval was 222 m and net thickness approximately 179 m. Porosity as estimated from cores 1 and 2 and logs ranged from 2.5 % to 21 % with an average of 12 %. Permeability in this zone was rather low (0.01 to 15.55 mD). The second zone was penetrated from 3628 m to 3795 m. This interval was composed of shales and sandstones alternating in a regular sequences of 15 to 20 m. Net thickness was approximately 77 m with a porosity ranging from 16 % to 21% based on logs. Some oil shows were recorded on cores 1 and 2 in the upper Vestland sand interval. They must be considered as residual shows as the reservoir is water bearing according to the logs. The RFT results confirmed this, showing a hydrostatic pressure gradient. Sandstones of the Staffjord Formation was not found. A silty/shaley interval at 3870 m, 198 m thick, was thought to be an equivalent of them, according to log correlation with the 25/2-5 well, but this was not supported by biostratigraphic data. Due to lack of seismic information at this level there was no incitement to drill deeper. A yellow direct fluorescence cut was observed on cuttings from this interval from 3917 m to 3920 m. Four conventional cores were cut in the well. Two were cut in the interval 3409 m to 3444 m in the Vestland Group (Sandstone with coals), two were cut in the Dunlin Group. Of the latter one was cut in shale from 3791 m to 3799 m and the other was cut at TD in red brown shale. One RFT fluid sample was taken at 3436.7 m (filtrate, formation water, and traces of oil), another at 3410 m (filtrate and formation water). The well was permanently abandoned on 12 July 1982 as a well with shows.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
220.00	4102.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3409.0	3414.0	[m]
2	3424.5	3443.5	[m]
3	3791.0	3798.0	[m]
4	4101.0	4110.0	[m]

Total kjerneprøve lengde [m]	40.0
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



3409-3414m



3424-3429m



3429-3434m



3434-3439m



3439-3792m



3792-3797m



3797-4109m



4109-4114m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2450.0	[m]	SWC	SNEA
2550.0	[m]	SWC	SNEA
2789.0	[m]	SWC	SNEA
2850.0	[m]	SWC	SNEA
3050.0	[m]	SWC	SNEA
3135.0	[m]	SWC	SNEA
3150.0	[m]	SWC	SNEA
3220.0	[m]	SWC	SNEA



3265.0	[m]	SWC	SNEA
3270.0	[m]	SWC	SNEA
3275.0	[m]	SWC	SNEA
3380.0	[m]	SWC	SNEA
3398.0	[m]	SWC	SNEA
3409.0	[m]	C	SPT
3410.0	[m]	C	SPT
3412.0	[m]	C	SNEA
3413.5	[m]	C	SPT
3426.2	[m]	C	SPT
3427.3	[m]	C	SNEA
3428.6	[m]	C	SPT
3430.6	[m]	C	SPT
3431.5	[m]	C	SNEA
3434.3	[m]	C	SPT
3435.0	[m]	C	SNEA
3439.3	[m]	C	SPT
3630.0	[m]	SWC	SNEA
3701.0	[m]	SWC	SNEA
3791.1	[m]	C	SPT
3795.5	[m]	C	SPT
3797.6	[m]	C	SPT
3798.5	[m]	C	SNEA
4101.4	[m]	C	OD
4103.3	[m]	C	OD
4106.2	[m]	C	OD
4109.0	[m]	C	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
141	NORDLAND GP
1049	HORDALAND GP
2023	FRIGG FM
2149	ROGALAND GP
2149	BALDER FM
2189	SELE FM
2194	HEIMDAL FM
2318	LISTA FM



2475	VÅLE FM
2589	SHETLAND GP
3205	CROMER KNOLL GP
3263	VIKING GP
3263	DRAUPNE FM
3275	HEATHER FM
3406	VESTLAND GP
3406	HUGIN FM
3418	SLEIPNER FM
3628	DUNLIN GP

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
47_1	pdf	1.75

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
47_01_WDSS_General_Information	pdf	0.15
47_02_WDSS_completion_log	pdf	0.23

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
47_25_2_7_COMPLETION_REPORT_AND_LOG	pdf	9.97

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BGT	727	2182
BHC GR	2198	3180
CBL VDL	300	2198
CBL VDL	1800	3279





CIS	2198	3285
CIS	3279	4084
CST	2162	2183
CST	2345	3280
CST	3380	4080
DLL MSFL	3350	3630
HDT	2198	3285
HDT	3279	4084
ISF GR BHC SL	138	4097
LDT CNL GR CAL	201	4088
NGST	3279	4077
RFT	3408	3591
VELOCITY	138	4097

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	201.0	36	203.0	0.00	LOT
SURF.COND.	20	727.0	26	739.0	1.06	LOT
INTERM.	13 3/8	2194.5	17 1/2	2210.0	1.17	LOT
INTERM.	9 5/8	3275.0	12 1/4	3290.0	1.27	LOT
OPEN HOLE		4110.0	8 1/2	4110.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
210	1.09			spud mud	
540	1.11			water based	
790	1.06			water based	
1640	1.22			water based	
2210	1.17			water based	
2990	1.23			water based	
3240	1.27			water based	
3635	1.21			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]
47 Formation pressure (Formasjonstrykk)	pdf	0.23

