



## Generell informasjon

Brønnbane navn	16/6-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	<a href="#">lenke til kart</a>
Hovedområde	NORTH SEA
Brønn navn	16/6-1
Seismisk lokalisering	LINE 0255 SP: 8910
Utvinningstillatelse	<a href="#">007</a>
Boreoperatør	Elf Petroleum Norge AS
Boretillatelse	9-L
Boreinnretning	<a href="#">OCEAN VIKING</a>
Boredager	74
Borestart	07.11.1967
Boreslutt	19.01.1968
Frigitt dato	19.01.1970
Publiseringsdato	24.09.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	28.0
Vanndybde ved midlere havflate [m]	117.0
Totalt målt dybde (MD) [m RKB]	2060.5
Totalt vertikalt dybde (TVD) [m RKB]	2060.5
Temperatur ved bunn av brønnbanen [°C]	65
Eldste penetrerte alder	PRE-DEVONIAN
Eldste penetrerte formasjon	BASEMENT
Geodetisk datum	ED50
NS grader	58° 42' 6" N
ØV grader	2° 54' 44" E
NS UTM [m]	6506985.91
ØV UTM [m]	494913.16
UTM sone	31
NPID for brønnbanen	148



## Brønnhistorie

### General

The 16/6-1 ("ODIN 1") is located on the Utsira High in the North Sea. The well was positioned crestally on the southern tip of a big, seismically defined, horst feature. This horst, trending N-S and sharply limited by faults on west, east and south sides, has induced a vast anticline in his Mesozoic and Tertiary overburden. The well was programmed to investigate the sedimentary section down to pre-Permian formations.

### Operations and results

Wildcat well 16/6-1 was spudded with semi-submersible installation Ocean Viking on 7 November 1967 and drilled to TD at 2061 m in basement rock. The well was drilled with seawater down to 360 m, and with a seawater / Q'Broxin / CMC type mud from 360 m to TD.

Gas shows (C1) were observed with a GAL 21 type chromatograph while drilling the Tertiary series, mainly in the upper part with a maximum of 12 % at 630 m, decreasing to 2-3 % below 790 m. In the Cretaceous, no gas was seen and only a very small show (0.02 %) was recorded at the top of Jurassic shale. In the Utsira Formation 28 m net sand was encountered. The sands had high porosities, but were water wet. From 2019 m to 2050.5 m a very rich Draupne source rock shale with 6 % to 7 % TOC was penetrated. The sequence is immature in the well position. At 2050.5 m 4.5 m of lithic sand was found directly overlying basement. The sand is probably a basement "wash" which reflects the transition from an erosive stage to a depositional one. The lower 4 m of this sand had very good porosities (>32%) but were also water saturated. Permian and Triassic objectives were not present in the well. One core was cut in basement from 2057 to 2060.5 m (TD) with 100 % recovery. Two series of log-operations were run at 1362 m and 2060.5 m. Trouble occurred with gumbo type clay bridging the hole during the first operations and three cleaning trips were necessary. No fluid samples were attempted. The well was permanently abandoned as a dry well on 19 January 1968.

### Testing

No drill stem test was performed

## Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2057.0	2060.5	[m ]

Total kjerneprøve lengde [m]	3.5
Kjerner tilgjengelig for prøvetaking?	YES

## Palynologiske preparater i Sokkeldirektoratet



Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1270.0	[m]	DC	
1290.0	[m]	DC	
1310.0	[m]	DC	
1330.0	[m]	DC	
1350.0	[m]	DC	
1360.0	[m]	DC	
1380.0	[m]	DC	
1395.0	[m]	DC	

### Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
145	<a href="#">NORDLAND GP</a>
722	<a href="#">UTSIRA FM</a>
769	<a href="#">HORDALAND GP</a>
1255	<a href="#">ROGALAND GP</a>
1255	<a href="#">BALDER FM</a>
1292	<a href="#">SELE FM</a>
1307	<a href="#">LISTA FM</a>
1335	<a href="#">VÅLE FM</a>
1344	<a href="#">SHETLAND GP</a>
1344	<a href="#">EKOFISK FM</a>
1362	<a href="#">TOR FM</a>
1548	<a href="#">HOD FM</a>
1654	<a href="#">BLODØKS FM</a>
1734	<a href="#">SVARTE FM</a>
1771	<a href="#">CROMER KNOLL GP</a>
1771	<a href="#">RØDBY FM</a>
1894	<a href="#">SOLA FM</a>
1925	<a href="#">ÅSGARD FM</a>
2019	<a href="#">VIKING GP</a>
2019	<a href="#">DRAUPNE FM</a>
2051	<a href="#">UNDEFINED GP</a>
2055	<a href="#">BASEMENT</a>

### Spleisede logger





Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">148</a>	pdf	0.19

### Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">148_1</a>	pdf	0.01
<a href="#">148_2 Preliminary results of geochemical studies of well 16_6_1</a>	pdf	0.26

### Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">148_01 WDSS General Information</a>	pdf	0.19

### Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">148_1 Completion Report</a>	pdf	0.93

### Dokumenter - Sokkeldirektoratets publikasjoner

Dokument navn	Dokument format	Dokument størrelse [KB]
<a href="#">148_01 NPD Paper No.9 Lithology Well 16_6_1</a>	pdf	10.68
<a href="#">148_02 NPD Paper No.9 Interpreted Lithology log Well 16_6_1</a>	pdf	33.30

### Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	140	1351
CDM	1351	2057
CST	0	0





**Faktasider**  
**Brønnbane / Leting**

Utskriftstidspunkt: 13.5.2024 - 05:46

FDL C	1351	2059
IES	340	1363
IES	1351	2060
ML C	600	1362
SL BHC	340	1362
SL BHC	1351	2059
SL BHC GR	200	1362
TH	70	1325
VSP	150	2060

**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	200.0	36	200.0	0.00	LOT
SURF.COND.	20	340.0	26	360.0	0.00	LOT
SURF.COND.	13 3/8	1350.0	17 1/2	1362.0	0.00	LOT
OPEN HOLE		2060.0	12 1/4	2060.0	0.00	LOT

**Boreslam**

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1140	1.35	45.0		seawater	
1360	1.12	43.0		seawater	
1362	1.33	50.0		seawater	
1918	1.32	55.0		seawater	

**Tynnslip i Sokkeldirektoratet**

Dybde	Enhet
2058.70	[m ]
2060.50	[m ]
2058.70	[m ]