



Generell informasjon

Brønnbane navn	16/1-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	16/1-1
Seismisk lokalisering	C 309 C SP: 20470
Utvinningstillatelse	001
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	8-L
Boreinnretning	OCEAN TRAVELER
Boredager	76
Borestart	26.09.1967
Boreslutt	10.12.1967
Frigitt dato	10.12.1969
Publiseringsdato	28.06.2007
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	114.0
Totalt målt dybde (MD) [m RKB]	3203.0
Maks inklinasjon [°]	4.25
Temperatur ved bunn av brønnbanen [°C]	95
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	HOD FM
Geodetisk datum	ED50
NS grader	58° 59' 18.4" N
ØV grader	2° 2' 3" E
NS UTM [m]	6539317.03
ØV UTM [m]	444490.52
UTM sone	31
NPDID for brønnbanen	147



Brønnhistorie

General

Well 16/1-1 is located roughly midway between the Gudrun Discovery and the Balder Field in the North Sea. This early wildcat well had the general objective to: " -test the hydrocarbon potential and investigate the lithology in this portion of the North Sea basin".

The well is Type Well for the Utsira Formation.

Operations and results

Wildcat well 16/1-1 was spudded with the semi-submersible installation Ocean Traveler on 26 September 1967 and drilled to TD at 3203 m in the Late Cretaceous Hod Formation. No significant problems were reported from the operations. Initial drilling from the sea floor to 392 m was with seawater and gel without casing. Returns were to the sea floor. Below 392 m to total depth, a seawater slurry with Bentonite, Zeogel, Spersene, XP-20, Caustic Soda, and 0-12% diesel oil was used.

Porous sandstone was observed in the Miocene, Oligocene, and Eocene. There were also Paleocene sands in the well. Traces of possible residual oil stain were encountered in cuttings and cores from the Oligocene and Eocene. In addition, questionable shows (non-fluorescent dead oil) were reported on cores from the Paleocene. However, neither the hot wire gas indicator nor chromatograph suggested the presence of hydrocarbons.

A total of 18 cores were cut from the different formations within the Hordaland, Rogaland, and Shetland Groups, recovering a total of 171 m core. The depth for core 2 is probably incorrect, possibly be five meter shallow due to malfunction of the bumper subs. FIT wire line fluid samples were taken in potential hydrocarbon-yielding beds at 1878.5 m, 2532.9 m, and at 2592.3 m. Only water and mud were recovered.

The well was permanently abandoned on 10 December 1967 as a dry well.

Testing

No drill stem test was performed.

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	5100.0	5130.0	[ft]
2	5643.0	5673.0	[ft]
3	6315.0	6349.0	[ft]
4	7060.0	7103.0	[ft]
5	7353.0	7407.0	[ft]
6	7609.0	7639.0	[ft]
7	7639.0	7692.0	[ft]
8	7692.0	7701.0	[ft]



10	7932.0	7959.0	[ft]
11	7962.0	7992.0	[ft]
12	7992.0	8022.0	[ft]
13	8305.0	8332.0	[ft]
14	8619.0	8646.0	[ft]
15	8680.0	8690.0	[ft]
16	8699.0	8760.0	[ft]
17	8934.0	8975.0	[ft]
18	10479.0	10509.0	[ft]

Total kjerneprøve lengde [m]	172.5
Kjerner tilgjengelig for prøvetaking?	NO

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1.0	[ft]	C	
1554.0	[m]	C	BGS
1559.0	[m]	C	BGS
1563.0	[m]	C	BGS
1720.0	[m]	C	BGS
1729.0	[m]	C	BGS
2152.5	[m]	C	BGS
2161.5	[m]	C	BGS
2165.0	[m]	C	BGS
2329.0	[m]	C	BGS
2344.0	[m]	C	STAT
2427.0	[m]	C	BGS
2656.0	[m]	C	BGS
2727.0	[m]	C	BGS
2728.0	[m]	C	BGS
2980.0	[m]	C	
3100.0	[m]	C	
3280.0	[m]	C	
3400.0	[m]	C	
3490.0	[m]	C	
3580.0	[m]	C	
3700.0	[m]	C	
3700.0	[m]	C	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 04:50

3790.0 [m]	C	
3910.0 [m]	C	
4000.0 [m]	C	
4090.0 [m]	C	
4180.0 [m]	C	
4300.0 [m]	C	
4390.0 [m]	C	
4480.0 [m]	C	
4580.0 [m]	C	
4690.0 [m]	C	
4710.0 [m]	C	
4790.0 [m]	C	
4820.0 [m]	C	
4880.0 [m]	C	
4900.0 [m]	C	
4980.0 [m]	C	
5000.0 [m]	C	
5080.0 [m]	C	
5100.0 [m]	C	
5100.0 [m]	C	
5110.0 [m]	C	
5180.0 [m]	C	
5180.0 [m]	C	
5270.0 [m]	C	
5300.0 [m]	C	
5390.0 [m]	C	
5480.0 [m]	C	
5570.0 [m]	C	
5643.0 [m]	C	
5643.0 [m]	C	
5645.0 [m]	C	
5657.0 [m]	C	
5672.0 [m]	C	
5673.0 [m]	C	
5790.0 [m]	C	
5840.0 [m]	C	
5880.0 [m]	C	
5900.0 [m]	C	
5940.0 [m]	C	
5980.0 [m]	C	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 04:50

6000.0	[m]	C	
6080.0	[m]	C	
6100.0	[m]	C	
6190.0	[m]	C	
6190.0	[m]	C	
6280.0	[m]	C	
6300.0	[m]	C	
6315.0	[m]	C	
6345.0	[m]	C	
6375.0	[m]	C	
6480.0	[m]	C	
6500.0	[m]	C	
6580.0	[m]	C	
6600.0	[m]	C	
6680.0	[m]	C	
6700.0	[m]	C	
6780.0	[m]	C	
6800.0	[m]	C	
6890.0	[m]	C	
6900.0	[m]	C	
6985.0	[m]	C	
7000.0	[m]	C	
7060.0	[m]	C	
7062.0	[m]	C	
7065.0	[m]	C	
7065.0	[m]	C	
7066.0	[m]	C	
7067.0	[m]	C	
7072.0	[m]	C	
7078.0	[m]	C	
7084.0	[m]	C	
7087.0	[m]	C	
7092.0	[m]	C	
7094.0	[m]	C	
7096.0	[m]	C	
7099.0	[m]	C	
7100.0	[m]	C	
7102.0	[m]	C	
7103.0	[m]	C	
7103.0	[m]	C	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 04:50

7150.0 [m]	C	EXXON
7190.0 [m]	C	
7200.0 [m]	C	
7240.0 [m]	C	EXXON
7290.0 [m]	C	
7300.0 [m]	C	
7353.0 [m]	C	
7353.0 [m]	C	
7382.0 [m]	C	
7387.0 [m]	C	EXXON
7405.0 [m]	C	EXXON
7450.0 [m]	C	
7480.0 [m]	C	
7490.0 [m]	C	
7500.0 [m]	C	
7520.0 [m]	DC	
7550.0 [m]	DC	
7580.0 [m]	DC	
7600.0 [m]	DC	
7609.0 [m]	C	
7609.0 [m]	C	
7615.0 [m]	C	
7617.0 [m]	C	
7620.0 [m]	DC	
7639.0 [m]	C	EXXON
7639.0 [m]	DC	
7644.0 [m]	DC	
7645.0 [m]	DC	
7692.0 [m]	C	EXXON
7696.0 [m]	DC	
7746.0 [m]	DC	EXXON
7790.0 [m]	DC	
7800.0 [m]	DC	
7850.0 [m]	DC	
7880.0 [m]	DC	
7900.0 [m]	DC	
7945.0 [m]	DC	
7963.5 [m]	DC	
7969.5 [m]	DC	
7980.0 [m]	DC	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 04:50

8011.0	[m]	DC	
8060.0	[m]	DC	EXXON
8100.0	[m]	DC	
8150.0	[m]	DC	EXXON
8200.0	[m]	DC	
8250.0	[m]	DC	EXXON
8290.0	[m]	DC	
8305.0	[m]	DC	
8323.0	[m]	C	EXXON
8340.0	[m]	DC	
8380.0	[m]	DC	EXXON
8380.0	[m]	DC	
8400.0	[m]	DC	
8450.0	[m]	DC	
8500.0	[m]	DC	
8520.0	[m]	SWC	EXXON
8550.0	[m]	DC	EXXON
8558.0	[m]	SWC	EXXON
8560.0	[m]	DC	EXXON
8563.0	[m]	SWC	EXXON
8595.0	[m]	SWC	EXXON
8619.0	[m]	DC	
8620.0	[m]	C	EXXON
8622.0	[m]	DC	
8627.0	[m]	DC	
8630.0	[m]	DC	
8632.0	[m]	C	
8632.0	[m]	DC	
8632.0	[m]	SWC	EXXON
8634.0	[m]	DC	
8641.0	[m]	DC	
8644.0	[m]	DC	
8645.0	[m]	SWC	EXXON
8675.0	[m]	SWC	EXXON
8675.0	[m]	SWC	EXXON
8680.0	[m]	C	EXXON
8680.0	[m]	DC	
8680.0	[m]	DC	
8682.0	[m]	DC	
8685.0	[m]	SWC	EXXON



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 04:50

8700.0 [m]	C	EXXON
8730.0 [m]	SWC	EXXON
8778.0 [m]	SWC	EXXON
8780.0 [m]	DC	EXXON
8820.0 [m]	DC	EXXON
8835.0 [m]	SWC	EXXON
8855.0 [m]	SWC	EXXON
8870.0 [m]	DC	EXXON
8875.0 [m]	SWC	EXXON
8905.0 [m]	SWC	EXXON
8915.0 [m]	SWC	EXXON
8925.0 [m]	DC	
8934.0 [m]	C	
8934.0 [m]	DC	
8940.0 [m]	DC	
8941.0 [m]	DC	
8941.0 [m]	C	
8954.0 [m]	C	
8957.0 [m]	C	
8962.0 [m]	SWC	EXXON
8983.0 [m]	SWC	EXXON
9000.0 [m]	DC	
9005.0 [m]	SWC	EXXON
9035.0 [m]	SWC	EXXON
9050.0 [m]	DC	
9100.0 [m]	DC	EXXON
9100.0 [m]	DC	
9150.0 [m]	DC	EXXON
9200.0 [m]	DC	EXXON
9250.0 [m]	DC	EXXON
9300.0 [m]	DC	EXXON
9810.0 [m]	DC	
10060.0 [m]	DC	
10140.0 [m]	DC	
10175.0 [m]	DC	
10240.0 [m]	DC	
10340.0 [m]	DC	
10396.0 [m]	DC	
10509.0 [m]	DC	
10509.0 [m]	DC	



Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
140	NORDLAND GP
644	UTSIRA FM
775	NO FORMAL NAME
908	HORDALAND GP
908	SKADE FM
1127	NO FORMAL NAME
1222	SKADE FM
1254	NO FORMAL NAME
1854	GRID FM
1942	NO FORMAL NAME
2207	ROGALAND GP
2207	BALDER FM
2259	SELE FM
2316	HERMOD FM
2355	SELE FM
2361	LISTA FM
2402	HEIMDAL FM
2646	VÅLE FM
2734	SHETLAND GP
2734	EKOFISK FM
2763	TOR FM
2926	HOD FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
147	pdf	0.55

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
147_1	pdf	1.25





147 2	pdf	1.13
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Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
147 01 WDSS General Information	pdf	0.20

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
147 01 16 1 1 Completion Report	pdf	5.96
147 02 16 1 1 Completion log	pdf	1.74

Dokumenter - Sokkeldirektoratets publikasjoner

Dokument navn	Dokument format	Dokument størrelse [KB]
147 01 NPD Paper No.8 Lithology Well 16 1 1	pdf	12.73
147 02 NPD Paper No.8 Interpreted Lithology log Well 16 1 1	pdf	89.24

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CDM	1401	3205
FDC	1401	3207
GR BHC	137	3203
IES	388	3206
MLL	388	3206
SNP	1401	2593

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	174.0	36	175.0	0.00	LOT
SURF.COND.	20	387.0	26	390.0	0.00	LOT
INTERM.	9 5/8	1400.0	12 1/4	1401.0	0.00	LOT
OPEN HOLE		3203.0	8 1/2	3203.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
391	0.00			seawater	
1000	0.00			bent/Zeo/sp	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
2250.00	[m]
2250.00	[m]
2250.00	[m]
2250.00	[m]
2251.00	[m]
2251.00	[m]
2251.00	[m]
2251.00	[m]
2251.00	[m]
2251.00	[m]
2251.00	[m]
2251.00	[m]
2251.00	[m]
2251.00	[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]
147 Formation pressure (Formasjonstrykk)	pdf	0.21

