



Generell informasjon

Brønnbane navn	10/7-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	10/7-1
Seismisk lokalisering	SG 8726-409 & SP. 3115
Utvinningstillatelse	165
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	735-L
Boreinnretning	ARCADE FRONTIER
Boredager	33
Borestart	28.06.1992
Boreslutt	30.07.1992
Frigitt dato	30.07.1994
Publiseringsdato	22.04.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	86.0
Totalt målt dybde (MD) [m RKB]	1890.0
Temperatur ved bunn av brønnbanen [°C]	67
Eldste penetrerte alder	LATE PERMIAN
Eldste penetrerte formasjon	ZECHSTEIN GP
Geodetisk datum	ED50
NS grader	57° 28' 23.3" N
ØV grader	5° 3' 33.21" E
NS UTM [m]	6372070.68
ØV UTM [m]	623496.64
UTM sone	31
NPDID for brønnbanen	1972



Brønnhistorie

General

Well 10/7-1 is located at the southeastern end of the Egersund Basin in the North Sea. The objective of the well was to test the Tott prospect, a faulted anticline over a salt wall. The Middle Jurassic Bryne formation was the primary objective. A thin Sandnes formation sandstone overlying the Bryne was interpreted to be possible at the drilled location.

Operations and results

Wildcat well 10/7-1 was spudded with the semi-submersible installation Sonat Arcade Frontier on 28 June 1992 and drilled to TD at 1890 m in the Late Permian Zechstein Group. The well was drilled with seawater and gel down to 793 m and with KCl/polymer mud from 793 m to TD.

Good reservoir quality sandstones were encountered in both the Sandnes and Bryne formations of the Vestland group. The top of the Sandnes formation was penetrated at 1539 m; top of the Bryne at 1632 m. Total thickness of the Vestland group is 297 m. From drill cuttings, fair to good visible porosity was observed in fine to coarse-grained sandstones throughout the Vestland group. Reservoir quality is good, with a net sand/gross thickness ratio of 54.5% using a 12% porosity cut-off. Using the same cut-off value the average porosity of the reservoir sandstones in the Vestland group is 23.3%. Bathonian age sediments (Bryne Formation) rested directly on Late Permian Zechstein salt at 1836 m. Occasional, spotty shows were observed in cuttings from the Sandnes and Bryne Formations. These marginal shows were interpreted to be sourced from in-situ carbonaceous material and not as migrated hydrocarbons. Analysis of the wire line logs and wire line pressure data clearly indicated that the sandstones of the Vestland group were water bearing. Organic geochemical analyses showed Total Organic Carbon (TOC) from 1.0 to 3.19 % and Hydrogen Index (HI) from 79 to 224 mg HC/g TOC in the Late Jurassic shales, which was classified as a poor oil and gas source. Associated with coals in the Vestland group were gas prone sediments with TOC values ranging from 1.64 - 6.14% and HI values of 118 to 223. The well was found immature for oil and gas generation; maximum vitrinite reflectance, recorded near TD, was 0.45 %Ro. Extractable organic matter contained low to modest amounts of immature hydrocarbons associated with local shales and coals, consistent with the trace shows recorded during drilling.

One conventional core was cut in the Sandnes formation, from 1561 to 1566.5 m, where the core jammed. The recovered core (3.95 m) consisted of sandstone with a thin claystone/shale bed at the base. Shows were not observed in the core. Core analysis indicated generally fair to good porosity and permeability. FMT pressures also indicated fair to good permeability throughout the Vestland group. No fluid sample was taken.

The well was permanently abandoned on 30 July 1992 as a dry hole.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
800.00	1890.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1561.0	1565.2	[m]

Total kjerneprøve lengde [m]	4.2
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
800.0	[m]	DC	RRI
800.0	[m]	DC	
810.0	[m]	DC	RRI
820.0	[m]	DC	RRI
830.0	[m]	DC	RRI
830.0	[m]	DC	
860.0	[m]	DC	
875.0	[m]	DC	
890.0	[m]	DC	
920.0	[m]	DC	
950.0	[m]	DC	
975.0	[m]	DC	
1010.0	[m]	DC	
1029.0	[m]	DC	
1084.0	[m]	DC	
1130.0	[m]	DC	
1160.0	[m]	DC	
1186.5	[m]	SWC	
1220.0	[m]	DC	
1230.0	[m]	DC	
1250.0	[m]	DC	
1280.0	[m]	DC	
1290.0	[m]	DC	
1320.0	[m]	DC	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 12.5.2024 - 17:55

1333.0 [m]	SWC	
1350.0 [m]	DC	
1370.0 [m]	DC	
1378.0 [m]	SWC	
1400.0 [m]	DC	
1436.5 [m]	SWC	
1440.0 [m]	DC	GEUS
1460.0 [m]	DC	GEUS
1462.0 [m]	DC	
1480.0 [m]	DC	GEUS
1490.0 [m]	DC	
1500.0 [m]	DC	
1500.0 [m]	DC	GEUS
1510.0 [m]	DC	
1520.0 [m]	DC	GEUS
1535.0 [m]	SWC	
1540.0 [m]	DC	
1540.0 [m]	DC	GEUS
1545.0 [m]	SWC	
1550.0 [m]	DC	
1560.0 [m]	DC	GEUS
1561.0 [m]	DC	
1561.6 [m]	C	
1565.0 [m]	DC	
1565.2 [m]	C	
1581.0 [m]	DC	GEUS
1587.0 [m]	DC	
1600.0 [m]	DC	
1600.0 [m]	DC	GEUS
1618.0 [m]	DC	GEUS
1619.0 [m]	SWC	
1630.0 [m]	DC	
1640.0 [m]	DC	GEUS
1650.0 [m]	DC	
1660.0 [m]	DC	GEUS
1660.0 [m]	DC	GEUS
1670.0 [m]	DC	
1680.0 [m]	DC	GEUS
1690.0 [m]	DC	
1700.0 [m]	DC	GEUS



1710.0	[m]	DC	
1715.0	[m]	SWC	
1720.0	[m]	DC	GEUS
1730.0	[m]	DC	
1733.0	[m]	SWC	
1740.0	[m]	DC	GEUS
1750.0	[m]	DC	
1759.0	[m]	DC	
1760.0	[m]	DC	GEUS
1760.0	[m]	DC	GEUS
1765.0	[m]	DC	
1775.0	[m]	DC	
1780.0	[m]	DC	
1780.0	[m]	C	
1780.0	[m]	DC	
1800.0	[m]	DC	GEUS
1805.0	[m]	DC	
1805.0	[m]	DC	
1820.0	[m]	DC	GEUS
1820.0	[m]	DC	GEUS
1825.0	[m]	SWC	
1830.0	[m]	C	
1830.0	[m]	DC	GEUS
1840.0	[m]	C	
1850.0	[m]	SWC	
1850.0	[m]	DC	
1865.0	[m]	C	
1877.0	[m]	SWC	
1886.0	[m]	SWC	
1890.0	[m]	DC	
1890.0	[m]	C	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
110	NORDLAND GP
451	HORDALAND GP
652	ROGALAND GP
652	BALDER FM



673	FISKEBANK FM
720	LISTA FM
781	SHETLAND GP
1022	CROMER KNOLL GP
1298	BOKNFJORD GP
1298	FLEKKEFJORD FM
1386	SAUDA FM
1486	TAU FM
1539	VESTLAND GP
1539	SANDNES FM
1632	BRYNE FM
1836	ZECHSTEIN GP

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
1972	pdf	0.26

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1972_1	pdf	2.32
1972_2	pdf	4.82

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1972_01_WDSS_General_Information	pdf	0.36
1972_02_WDSS_completion_log	pdf	0.14

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1972_10_7_1_COMPLETION_LOG	pdf	1.36
1972_10_7_1_COMPLETION_REPORT_2	pdf	7.24





1972 10 7 1 COMPLETION REPORT DRILLING	pdf	17.96
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Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	110	656
CNL ZDL GR SP CAL	777	1888
DIPMETER	777	1888
DLL MLL AC GR SP CAL	777	1888
FMT GR	1542	1823
MWD EQW	150	786
SONAN	120	656
SWC	875	1886
TEMPERATURE	110	665
VSP ZO	400	1845

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	145.0	36	147.0	0.00	LOT
INTERM.	13 3/8	779.0	17 1/2	793.0	0.00	LOT
OPEN HOLE		1890.0	12 1/4	1890.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
115	1.04			WATER BASED	
132	1.04			WATER BASED	
147	1.04			WATER BASED	
147	1.04			WATER BASED	
505	1.04			WATER BASED	
666	1.20	38.0		WATER BASED	
793	1.11			WATER BASED	
793	1.04			WATER BASED	
804	1.11	10.0		WATER BASED	
889	1.14	10.0		WATER BASED	





987	1.14	10.0		WATER BASED	
1070	1.14	10.0		WATER BASED	
1230	1.16	11.0		WATER BASED	
1230	1.16	8.0		WATER BASED	
1288	1.26	36.0		WATER BASED	
1379	1.29	42.0		WATER BASED	
1541	1.33	41.0		WATER BASED	
1565	1.37	44.0		WATER BASED	
1681	1.37	45.0		WATER BASED	
1842	1.37	43.0		WATER BASED	
1890	1.37	43.0		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]
1972 Formation pressure (Formasjonstrykk)	pdf	0.17

