



Generell informasjon

Brønnbane navn	34/7-20
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	34/7-20
Seismisk lokalisering	E-86-3D: REKKE 540 & KOLONNE 1219
Utvinningstillatelse	089
Boreoperatør	Saga Petroleum ASA
Boretillatelse	736-L
Boreinnretning	TREASURE SAGA
Boredager	41
Borestart	18.07.1992
Boreslutt	27.08.1992
Frigitt dato	27.08.1994
Publiseringsdato	28.02.2008
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	295.0
Totalt målt dybde (MD) [m RKB]	3177.0
Totalt vertikalt dybde (TVD) [m RKB]	3177.0
Maks inklinasjon [°]	2.9
Temperatur ved bunn av brønnbanen [°C]	100
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	LUNDE FM
Geodetisk datum	ED50
NS grader	61° 26' 39.65" N
ØV grader	2° 1' 49.98" E
NS UTM [m]	6812829.08
ØV UTM [m]	448299.25
UTM sone	31
NPDID for brønnbanen	1967

**Brønnhistorie****General**

Exploration well 34/7-20 is located between the Snorre and the Statfjord Nord Field on Tampen Spur in the Northern North Sea. The well is positioned up-dip on a gently west-dipping structure that includes a supposed thin Late Jurassic sand interval. The primary objective was this Late Jurassic sand in a pinch-out trap. A secondary objective was to test the Brent Group, and if water-bearing, make a pressure test in order to evaluate possible communication to the Vigdis West Field.

Operations and results

Wildcat well 34/7-20 was spudded with the semi-submersible installation Treasure Saga on 18 July 1992 and drilled to TD at 3177 m in the Late Triassic Lunde Formation. The 12 1/4" section was drilled with slow penetration rates, frequent wiper trips, and frequent change of drill bits. After a bit change, the new BHA went stuck at 2724 m while running in the hole, and had to be worked free with 110 tons overpull. The well was drilled with spud mud down to 419 m, with gel mud from 419 m to 1220 m, and with KCl mud from 1220 m to TD. Indications of shallow gas were seen at 557 -558 m and at 620 - 621 m.

Down to Base Cretaceous the well penetrated mainly claystones. An exception to this was the sandy Utsira Formation between 961 and 1040 m. The Jurassic interval comprised the prognosed Late Jurassic sandstone and Heather Formation, the Middle Jurassic Brent Group and the Early Jurassic Dunlin Group.

The top of the primary target Late Jurassic reservoir was penetrated at 2578 m, 7 meter shallower than prognosed. Only 3 meter of Late Jurassic sand was penetrated and proved water bearing with oil-shows. These were the only shows reported in the well.

Pressure tests in the Brent and Viking Groups in well 34/7-20 indicated communication between the sandstones of the Late Jurassic and Brent Groups. These sandstone units are probably in contact further up-dip, which is, most likely, the explanation to why the well was dry. The Brent Group pressure tests indicated, when compared to the tests from well 34/7-13, a communication within the Brent Group between the NW-Area and the Vigdis West Field. A relatively low pressure in well 34/7-20 indicated pressure depletion from the Statfjord Field. The pressure tests carried out in the Statfjord Formation were compared to the oil pressure tests in wells 34/7-7 and P-33 in the Snorre Field. The results of this comparison indicated a significantly deeper OWC in the Snorre Field than stated prior to the completion of well 34/7-20.

A total of 3 cores were cut from 2576 m in the lowermost Cromer Knoll Group down to 2637 m in the Ness Formation. An RFT segregated fluid sample was taken at 2579.5 m. The 2 3/4 gallon chamber contained 2 l water and filtrate with an oil film.

The well was permanently abandoned on 27 August 1992 as a dry well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
430.00	3177.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2576.0	2579.9	[m]
2	2581.0	2606.7	[m]
3	2608.5	2636.0	[m]

Total kjerneprøve lengde [m]	57.1
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2576-2579m



2581-2585m



2585-2589m



2589-2593m



2593-2597m



2597-2601m



2601-2605m



2605-2607m



2608-2612m



2612-2616m



2616-2620m



2620-2624m



2624-2628m



2628-2632m



2632-2636m



2636-2637m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
430.0	[m]	DC	PALEO
460.0	[m]	DC	PALEO
490.0	[m]	DC	PALEO
520.0	[m]	DC	PALEO
550.0	[m]	DC	PALEO
580.0	[m]	DC	PALEO
610.0	[m]	DC	PALEO
640.0	[m]	DC	PALEO
670.0	[m]	DC	PALEO
700.0	[m]	DC	PALEO
730.0	[m]	DC	PALEO
760.0	[m]	DC	PALEO
790.0	[m]	DC	PALEO
820.0	[m]	DC	PALEO
850.0	[m]	DC	PALEO
880.0	[m]	DC	PALEO
910.0	[m]	DC	PALEO
940.0	[m]	DC	PALEO
970.0	[m]	DC	PALEO
1000.0	[m]	DC	PALEO
1030.0	[m]	DC	PALEO
1060.0	[m]	DC	PALEO
1090.0	[m]	DC	PALEO
1120.0	[m]	DC	PALEO
1150.0	[m]	DC	PALEO
1180.0	[m]	DC	PALEO
1210.0	[m]	DC	PALEO
1240.0	[m]	DC	PALEO
1270.0	[m]	DC	PALEO



1300.0	[m]	DC	PALEO
1330.0	[m]	DC	PALEO
1360.0	[m]	DC	PALEO
1380.0	[m]	DC	PALEO
1410.0	[m]	DC	PALEO
1440.0	[m]	DC	PALEO
1470.0	[m]	DC	PALEO
1500.0	[m]	DC	PALEO
1530.0	[m]	DC	PALEO
1560.0	[m]	DC	PALEO
1590.0	[m]	DC	PALEO
1620.0	[m]	DC	PALEO
1650.0	[m]	DC	PALEO
1680.0	[m]	DC	PALEO
1710.0	[m]	DC	PALEO
1740.0	[m]	DC	PALEO
1770.0	[m]	DC	PALEO
1800.0	[m]	DC	PALEO
1840.0	[m]	DC	PALEO
1860.0	[m]	DC	PALEO
1895.0	[m]	DC	PALEO
1925.0	[m]	DC	PALEO
1955.0	[m]	DC	PALEO
1985.0	[m]	DC	PALEO
2015.0	[m]	DC	PALEO
2045.0	[m]	DC	PALEO
2075.0	[m]	DC	PALEO
2105.0	[m]	DC	PALEO
2135.0	[m]	DC	PALEO
2165.0	[m]	DC	PALEO
2195.0	[m]	DC	PALEO
2225.0	[m]	DC	PALEO
2255.0	[m]	DC	PALEO
2285.0	[m]	DC	PALEO
2315.0	[m]	DC	PALEO
2325.0	[m]	DC	PALEO
2375.0	[m]	DC	PALEO
2405.0	[m]	DC	PALEO
2435.0	[m]	DC	PALEO
2465.0	[m]	DC	PALEO



2495.0 [m]	DC	PALEO
2525.0 [m]	DC	PALEO
2555.0 [m]	DC	PALEO
2565.0 [m]	DC	PALEO
2575.0 [m]	DC	PALEO
2576.0 [m]	C	PALEO
2583.0 [m]	C	PALEO
2588.0 [m]	C	PALEO
2598.0 [m]	C	PALEO
2608.5 [m]	C	PALEO
2618.5 [m]	C	PALEO
2628.5 [m]	C	PALEO
2646.0 [m]	DC	PALEO
2661.0 [m]	DC	PALEO
2676.0 [m]	DC	PALEO
2691.0 [m]	DC	PALEO
2706.0 [m]	DC	PALEO
2721.0 [m]	DC	PALEO
2736.0 [m]	DC	PALEO
2751.0 [m]	DC	PALEO
2766.0 [m]	DC	PALEO
2781.0 [m]	DC	PALEO
2796.0 [m]	DC	PALEO
2811.0 [m]	DC	PALEO
2826.0 [m]	DC	PALEO
2841.0 [m]	DC	PALEO
2856.0 [m]	DC	PALEO
2871.0 [m]	DC	PALEO
2886.0 [m]	DC	PALEO
2901.0 [m]	DC	PALEO
2916.0 [m]	DC	PALEO
2931.0 [m]	DC	PALEO
2946.0 [m]	DC	PALEO
2976.0 [m]	DC	PALEO
2991.0 [m]	DC	PALEO
3006.0 [m]	DC	PALEO
3021.0 [m]	DC	PALEO
3036.0 [m]	DC	PALEO
3045.0 [m]	DC	PALEO
3057.0 [m]	DC	PALEO



3066.0	[m]	DC	PALEO
3078.0	[m]	DC	PALEO
3099.0	[m]	DC	PALEO
3108.0	[m]	DC	PALEO
3120.0	[m]	DC	PALEO
3129.0	[m]	DC	PALEO
3141.0	[m]	DC	PALEO
3150.0	[m]	DC	PALEO
3162.0	[m]	DC	PALEO
3177.0	[m]	DC	PALEO

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
321	NORDLAND GP
1114	UTSIRA FM
1124	HORDALAND GP
1308	NO FORMAL NAME
1330	NO FORMAL NAME
1682	ROGALAND GP
1682	BALDER FM
1732	LISTA FM
1881	SHETLAND GP
1881	JORSALFARE FM
2138	KYRRE FM
2572	CROMER KNOLL GP
2572	MIME FM
2578	VIKING GP
2578	INTRA DRAUPNE FM SS
2581	HEATHER FM
2613	BRENT GP
2613	TARBERT FM
2630	NESS FM
2649	ETIVE FM
2695	RANNOCH FM
2785	DUNLIN GP
2785	DRAKE FM
2882	COOK FM
2919	BURTON FM



2947	AMUNDSEN FM
3046	STATEFJORD GP
3128	HEGRE GP
3128	LUNDE FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1967_1	pdf	0.32
1967_2	pdf	4.56

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1967_01_WDSS_General_Information	pdf	0.47
1967_02_WDSS_completion_log	pdf	0.19

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1967_34_7_20_COMPLETION_REPORT_AND_LOG	pdf	14.30

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
ATE	350	1000
CST GR	1890	3175
DSI GR AMS VDL	2530	3172
MSFL DLL LSS LDL CNL GR AMS SP	1828	2815
MWD CDR - GR RES DIR TEMP	422	3177
PI MSFL LDL CNL GR AMS SP	2550	3178
PI MSFL SLS LDL GR AMS SP	1201	1831
RFT GR AMS	2583	2779
RFT GR AMS	3047	3152





SHDT GR AMS	1824	3179
VELOCITY	980	3170

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	418.0	36	419.0	0.00	LOT
INTERM.	20	1204.0	26	1207.0	1.59	LOT
INTERM.	13 3/8	1824.0	17 1/2	1845.0	1.79	LOT
OPEN HOLE		3177.0	12 1/4	3177.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
392	1.24			WATER BASED	
419	1.03	13.0		WATER BASED	
880	1.12	10.0		WATER BASED	
1220	1.14	7.0		WATER BASED	
1223	1.35	16.0		WATER BASED	
1716	1.45	36.0		WATER BASED	
1845	1.48	38.0		WATER BASED	
2017	1.60	31.0		WATER BASED	
2250	1.64	34.0		WATER BASED	
2364	1.60	38.0		WATER BASED	
2480	1.64	36.0		WATER BASED	
2572	1.64	37.0		WATER BASED	
2582	1.64	37.0		WATER BASED	
2936	1.60	33.0		WATER BASED	
3029	1.60	40.0		WATER BASED	
3169	1.60	39.0		WATER BASED	
3177	1.60	40.0		WATER BASED	