



Generell informasjon

Brønnbane navn	30/9-7
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	OSEBERG SØR
Funn	30/9-7 Oseberg Sør
Brønn navn	30/9-7
Seismisk lokalisering	NH 8502 RAD 395 KOLONNE 728
Utvinningstillatelse	104
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	592-L
Boreinnretning	POLAR PIONEER
Boredager	52
Borestart	02.11.1988
Boreslutt	23.12.1988
Frigitt dato	23.12.1990
Publiseringsdato	12.01.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	TARBERT FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	98.0
Totalt målt dybde (MD) [m RKB]	3565.0
Totalt vertikalt dybde (TVD) [m RKB]	3563.0
Maks inklinasjon [°]	4.7
Temperatur ved bunn av brønnbanen [°C]	146
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	NANSEN FM
Geodetisk datum	ED50
NS grader	60° 25' 4.76" N



ØV grader	2° 45' 7" E
NS UTM [m]	6698146.38
ØV UTM [m]	486338.28
UTM sone	31
NPDID for brønnbanen	1306

Brønnhistorie

General

Well 30/9-7 was drilled on the B-prospect in the Oseberg South area. The prospect is an easterly tilted fault block, separated from the Omega structure by a NNW-SSE trending normal fault. The objective was to prove oil in the Brent Group sandstones and define an oil/water contact.

Operations and results

Wildcat well 30/9-7 was spudded with the semi-submersible installation Polar Pioneer on 2 November 1988 and drilled to TD at 3565 m in the Early Jurassic Nansen Formation. No significant problem was encountered in the operations. The well was drilled with spud mud down to 1072 m and KCl/polymer mud from 1072 m to TD.

Well 30/9-7 encountered oil in the Brent Group, Tarbert Formation. No additional hydrocarbon bearing intervals were found. The Tarbert Formation (2810 - 2903 m) was oil bearing down to 2827 m (OWC from RFT). The net pay was estimated to be 13.6 m and average water saturation calculated to 37.9%. Average porosity was 21.2%. RFT results showed no pressure communication with well 30/9-4 in the Omega structure within the Tarbert Formation. Some oil shows were described in thin sandstone stringers at the base of the Våle Formation and down into limestones in the uppermost Shetland Group (2375 m to 2382 m). Below OWC in the Tarbert Formation, sandstones had no to weak petroleum odour and cut fluorescence down to 2880 m and brown dead oil stain and weak cut fluorescence down to 2885 m.

Two cores were cut in the Tarbert Formation from 2832 m to 2888 m. RFT fluid samples were taken at 2818.2 m (oil, water and filtrate) and at 2828.6 m (water and filtrate).

The well was suspended on 23 December 1988. It was permanently plugged and abandoned on 7 August 2003. It is classified as an oil discovery.

Testing

One production test was performed in the interval 2811.0 - 2822.0 m in the Tarbert Formation. The test produced on average 540 Sm³ oil and 75600 Sm³ gas /day on a 12.7 mm choke. The GOR was 140 Sm³/Sm³, the oil density was 0.849 g/cc and the gas gravity 0.693 (air-1). The bottom hole temperature measured at 2759.7 m was 108.0 °C. The well produced 1% CO₂ and no H₂S.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1080.00	3465.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2832.0	2857.8	[m]
2	2860.0	2887.0	[m]

Total kjerneprøve lengde [m]	52.8
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2832-2837m



2837-2842m



2842-2847m



Høy: 2847-2852m



Lav: 2847-2852m



2852-2857m



2857-2858m



2860-2865m



2865-2870m



2870-2875m



2875-2880m



2880-2885m



2885-2887m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2100.0	[m]	DC	STRAT



2110.0	[m]	DC	STRAT
2120.0	[m]	DC	STRAT
2130.0	[m]	DC	STRAT
2140.0	[m]	DC	STRAT
2150.0	[m]	DC	STRAT
2160.0	[m]	DC	STRAT
2170.0	[m]	DC	STRAT
2180.0	[m]	DC	STRAT
2190.0	[m]	DC	STRAT
2200.0	[m]	DC	STRAT
2210.0	[m]	DC	STRAT
2220.0	[m]	DC	STRAT
2230.0	[m]	DC	STRAT
2240.0	[m]	DC	STRAT
2250.0	[m]	DC	STRAT
2260.0	[m]	DC	STRAT
2270.0	[m]	DC	STRAT
2280.0	[m]	DC	STRAT
2290.0	[m]	DC	STRAT
2300.0	[m]	DC	STRAT
2310.0	[m]	DC	STRAT
2320.0	[m]	DC	STRAT
2330.0	[m]	DC	STRAT
2340.0	[m]	DC	STRAT
2350.0	[m]	DC	STRAT
2360.0	[m]	DC	STRAT
2370.0	[m]	DC	STRAT
2380.0	[m]	DC	STRAT
2390.0	[m]	DC	STRAT
2400.0	[m]	DC	STRAT
2420.0	[m]	DC	STRAT
2440.0	[m]	DC	STRAT
2460.0	[m]	DC	STRAT
2480.0	[m]	DC	STRAT
2500.0	[m]	DC	STRAT
2520.0	[m]	DC	STRAT
2540.0	[m]	DC	STRAT
2560.0	[m]	DC	STRAT
2580.0	[m]	DC	STRAT
2600.0	[m]	DC	STRAT



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 18:19

2625.0	[m]	DC	STRAT
2640.0	[m]	DC	STRAT
2680.0	[m]	DC	STRAT
2700.0	[m]	DC	STRAT
2715.0	[m]	DC	STRAT
2735.0	[m]	DC	STRAT
2755.0	[m]	DC	STRAT
2775.0	[m]	SWC	HYDRO
2783.0	[m]	SWC	HYDRO
2787.5	[m]	SWC	HYDRO
2792.5	[m]	SWC	HYDRO
2795.0	[m]	SWC	HYDRO
2798.0	[m]	SWC	HYDRO
2800.0	[m]	SWC	HYDRO
2805.0	[m]	SWC	HYDRO
2810.0	[m]	SWC	HYDRO
2812.5	[m]	SWC	HYDRO
2813.0	[m]	SWC	HYDRO
2818.0	[m]	SWC	HYDRO
2822.5	[m]	SWC	HYDRO
2827.0	[m]	SWC	HYDRO
2833.0	[m]	SWC	HYDRO
2835.4	[m]	C	HYDRO
2840.5	[m]	C	HYDRO
2845.3	[m]	C	HYDRO
2850.3	[m]	C	HYDRO
2857.0	[m]	C	HYDRO
2866.5	[m]	C	HYDRO
2874.5	[m]	C	HYDRO
2879.5	[m]	C	HYDRO
2895.0	[m]	SWC	HYDRO
2907.0	[m]	SWC	HYDRO
2915.0	[m]	DC	STRAT
2923.0	[m]	SWC	HYDRO
2932.0	[m]	DC	STRAT
2941.0	[m]	SWC	HYDRO
2953.0	[m]	SWC	HYDRO
2964.0	[m]	SWC	HYDRO
2972.0	[m]	DC	STRAT
2978.0	[m]	SWC	HYDRO



2986.0	[m]	SWC	HYDRO
2995.0	[m]	DC	STRAT
3005.0	[m]	DC	STRAT
3015.0	[m]	DC	STRAT
3022.0	[m]	SWC	HYDRO
3025.0	[m]	DC	STRAT
3032.0	[m]	DC	STRAT
3033.0	[m]	SWC	HYDRO
3054.0	[m]	SWC	HYDRO
3062.0	[m]	DC	STRAT
3072.0	[m]	DC	STRAT
3087.0	[m]	SWC	HYDRO
3092.0	[m]	DC	STRAT
3102.0	[m]	DC	STRAT
3112.0	[m]	SWC	HYDRO
3120.0	[m]	SWC	HYDRO
3130.0	[m]	SWC	HYDRO
3140.0	[m]	DC	STRAT
3150.0	[m]	DC	STRAT
3160.0	[m]	SWC	HYDRO
3169.0	[m]	SWC	HYDRO
3180.0	[m]	SWC	HYDRO
3195.0	[m]	SWC	HYDRO
3202.0	[m]	DC	STRAT
3212.0	[m]	DC	STRAT
3220.0	[m]	SWC	HYDRO
3230.0	[m]	DC	STRAT
3240.0	[m]	SWC	HYDRO
3250.0	[m]	DC	STRAT
3260.0	[m]	DC	STRAT
3270.0	[m]	SWC	HYDRO
3280.0	[m]	DC	STRAT
3290.0	[m]	DC	STRAT
3300.0	[m]	SWC	HYDRO
3310.0	[m]	DC	STRAT
3320.0	[m]	DC	STRAT
3330.0	[m]	DC	STRAT
3337.0	[m]	DC	STRAT
3347.0	[m]	DC	STRAT
3357.0	[m]	DC	STRAT



3365.0	[m]	SWC	HYDRO
3372.0	[m]	DC	STRAT
3382.0	[m]	DC	STRAT
3390.0	[m]	SWC	HYDRO
3397.0	[m]	DC	STRAT
3405.0	[m]	SWC	HYDRO
3415.0	[m]	DC	STRAT
3425.0	[m]	DC	STRAT
3435.0	[m]	SWC	HYDRO
3442.0	[m]	DC	STRAT
3450.0	[m]	DC	STRAT
3457.0	[m]	SWC	HYDRO
3465.0	[m]	DC	STRAT
3475.0	[m]	DC	STRAT
3480.0	[m]	SWC	HYDRO
3490.0	[m]	DC	STRAT
3500.0	[m]	DC	STRAT
3510.0	[m]	DC	STRAT
3520.0	[m]	DC	STRAT
3530.0	[m]	DC	STRAT
3540.0	[m]	DC	STRAT
3550.0	[m]	DC	STRAT

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	TEST1	2811.00	2822.00		01.01.1989 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
121	NORDLAND GP
615	UTSIRA FM
911	HORDALAND GP
911	NO FORMAL NAME
2082	ROGALAND GP



2082	BALDER FM
2150	SELE FM
2214	LISTA FM
2318	VÅLE FM
2380	SHETLAND GP
2380	HARDRÅDE FM
2613	KYRRE FM
2768	CROMER KNOLL GP
2768	RØDBY FM
2791	VIKING GP
2791	DRAUPNE FM
2805	HEATHER FM
2810	BRENT GP
2810	TARBERT FM
2903	NESS FM
3093	ETIVE FM
3110	RANNOCH FM
3137	OSEBERG FM
3168	DUNLIN GP
3168	DRAKE FM
3288	COOK FM
3387	BURTON FM
3426	AMUNDSEN FM
3535	STATFJORD GP
3535	NANSEN FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1306_GCH_1	pdf	0.20
1306_GCH_2	pdf	3.60

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1306_01_WDSS_General_Information	pdf	0.22
1306_02_WDSS_completion_log	pdf	0.26





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1306_30_9_7_Completion_log	pdf	5.45
1306_30_9_7_Completion_report	pdf	15.22

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	2811	2822	12.7

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0	540	75600	0.849	0.693	140

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL	2230	2755
CBL VDL	2690	2850
CST	2775	3480
DIL LSS GR SP	2755	3567
DIL LSS LDL CNL GR SP	1055	2769
DLL MSFL GR	2755	3190
FEWD	2817	3106
LDL CNL NGT CAL	2755	3565
MWD	121	2770
RFT HP AMS	2812	3167
SHDT	2350	2768
VSP	1100	3290





VSP	1100	2870
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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	207.0	36	207.0	0.00	LOT
INTERM.	13 3/8	1057.0	17 1/2	1072.0	1.68	LOT
INTERM.	9 5/8	2756.0	12 1/4	2770.0	1.50	LOT
LINER	7	2953.0	8 1/2	3565.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
350	1.25	11.0	5.0	WATER BASED	22.12.1988
350	1.25	11.0	5.0	WATER BASED	23.12.1988
350	1.25	11.0	5.0	WATER BASED	28.12.1988
638	1.05	1.0	1.0	WATER BASED	07.11.1988
1072	1.05	1.0	1.0	WATER BASED	07.11.1988
1072	1.20	12.0	5.0	WATER BASED	10.11.1988
1329	1.45	19.0	9.0	WATER BASED	10.11.1988
1334	1.45	20.0	8.0	WATER BASED	11.11.1988
1675	1.45	21.0	10.0	WATER BASED	14.11.1988
1964	1.45	24.0	10.0	WATER BASED	15.11.1988
2252	1.45	25.0	9.0	WATER BASED	15.11.1988
2356	1.45	25.0	7.0	WATER BASED	15.11.1988
2386	1.45	20.0	6.0	WATER BASED	15.11.1988
2433	1.45	22.0	6.0	WATER BASED	16.11.1988
2525	1.45	23.0	6.0	WATER BASED	17.11.1988
2555	1.25	11.0	5.0	WATER BASED	21.12.1988
2589	1.45	20.0	6.0	WATER BASED	18.11.1988
2639	1.45	23.0	6.0	WATER BASED	21.11.1988
2712	1.45	21.0	6.0	WATER BASED	21.11.1988
2745	1.45	22.0	5.0	WATER BASED	21.11.1988
2770	1.45	21.0	6.0	WATER BASED	22.11.1988
2770	1.45	21.0	7.0	WATER BASED	24.11.1988
2770	1.26	16.0	6.0	WATER BASED	29.11.1988
2817	1.25	22.0	8.0	WATER BASED	29.11.1988



2832	1.25	11.0	9.0	WATER BASED	29.11.1988
2860	1.25	11.0	9.0	WATER BASED	29.11.1988
2888	1.25	11.0	5.0	WATER BASED	13.12.1988
2888	1.25	11.0	5.0	WATER BASED	14.12.1988
2888	1.25	11.0	5.0	WATER BASED	15.12.1988
2888	1.25	11.0	5.0	WATER BASED	16.12.1988
2888	1.25	11.0	5.0	WATER BASED	19.12.1988
2888	1.25	11.0	5.0	WATER BASED	20.12.1988
2890	1.25	11.0	9.0	WATER BASED	29.11.1988
2955	1.25	11.0	5.0	WATER BASED	12.12.1988
2977	1.25	11.0	10.0	WATER BASED	30.11.1988
3038	1.25	12.0	12.0	WATER BASED	01.12.1988
3106	1.25	14.0	10.0	WATER BASED	02.12.1988
3190	1.25	12.0	9.0	WATER BASED	05.12.1988
3242	1.25	13.0	9.0	WATER BASED	05.12.1988
3320	1.26	10.0	6.0	WATER BASED	12.12.1988
3373	1.25	13.0	8.0	WATER BASED	05.12.1988
3480	1.25	14.0	7.0	WATER BASED	06.12.1988
3565	1.25	12.0	5.0	WATER BASED	09.12.1988
3565	1.26	12.0	5.0	WATER BASED	12.12.1988
3565	1.25	11.0	5.0	WATER BASED	07.12.1988
3565	1.25	12.0	5.0	WATER BASED	08.12.1988

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]
1306 Formation pressure (Formasjonstrykk)	pdf	0.22

