



Generell informasjon

Brønnbane navn	30/6-10
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	OSEBERG
Funn	30/6-1 Oseberg
Brønn navn	30/6-10
Seismisk lokalisering	913 133 SP 615
Utvinningstillatelse	053
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	348-L
Boreinnretning	TREASURE SCOUT
Boredager	60
Borestart	04.10.1982
Boreslutt	02.12.1982
Frigitt dato	02.12.1984
Publiseringsdato	29.03.2014
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL/GAS
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	BRENT GP
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	109.0
Totalt målt dybde (MD) [m RKB]	2656.0
Totalt vertikalt dybde (TVD) [m RKB]	2656.0
Maks inklinasjon [°]	2.5
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	DRAKE FM
Geodetisk datum	ED50
NS grader	60° 36' 29.53" N
ØV grader	2° 46' 24.74" E
NS UTM [m]	6719328.26



ØV UTM [m]	487600.49
UTM sone	31
NPDID for brønnbanen	92

Brønnhistorie

General

Well 30/6-10 was drilled to appraise the hydrocarbon potential in the Alfa structure on the Oseberg Field in the North Sea. The main objective was to define the gas/oil contact and to obtain cores from this zone.

Operations and results

Appraisal well 30/6-10 was spudded with the semi-submersible installation Treasure Scout on 4 October 1982 and drilled to TD at 2656 m in the Early Jurassic Drake Formation. Some problems were encountered while running both 20" and 13 3/8" casing. The drill string got stuck at 1992 m and leakages in the BOP stack after installing the 13 3/8" casing also occurred. The well was drilled with seawater and hi-vis pills down to 970 m and with KCl/polymer mud from 970 m to TD. At 1992 m 15 m³ diesel and 15.9 m³ Imco spot was pumped to free the pipe.

First oil show in the well was recorded at 1980 m in limestone stringers at top Balder Formation level. Poor oil shows were recorded in the intervals 2030 to 2100 m and 2215 m to 2253 m. Good oil shows were recorded on cuttings from marls and limestones in the Shetland Group from 2253 m to 2380 m, then again poor shows were recorded down to top of the Brent Group at 2457 m. The well encountered oil and gas in Middle Jurassic Brent sandstones. The Brent Group was found hydrocarbon bearing over the entire 118 m interval. Net pay was 37.3 m with 23.3 % average porosity and 23.9% average water saturation. The gas/oil contact was found from RFT pressure gradients to be at 2520 m in the Ness Formation, but no oil/water contact was encountered.

A total of eleven conventional cores were cut from the top of the Ness Formation and down into the Dunlin Group shales. Driller depths through the cored section are 0.0 to 2.5m deeper than logger's depth. The estimated gas/oil contact is captured in core number 6. Segregated RFT samples were taken at 2546.1 m (gas, oil and filtrate), 2555.5 m (gas, oil and filtrate), and 2467.5 m (gas and filtrate).

The well was plugged back on 2 December 1982 for sidetracking to well 30/6-10 A.

Testing

No drill stem test was performed, instead testing was to be done in the 30/6-10 A sidetrack.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
220.00	2655.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2461.0	2475.0	[m]
2	2475.0	2488.1	[m]
3	2493.0	2502.0	[m]
4	2503.0	2509.5	[m]
5	2510.0	2517.2	[m]
6	2517.2	2528.4	[m]
7	2530.0	2548.0	[m]
8	2548.0	2551.0	[m]
9	2553.0	2554.4	[m]
10	2554.5	2572.5	[m]
11	2572.5	2590.5	[m]

Total kjerneprøve lengde [m]	119.3
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2461-2465m



2465-2469m



2469-2473m



2473-2475m



2475-2479m



2479-2483m



2483-2487m



2487-2488m



2493-2497m



2497-2501m



2501-2502m



2503-2507m



2507-2509m



2510-2514m



2514-2517m



2517-2521m



2521-2525m



2525-2528m



2530-2534m



2534-2538m



2538-2542m



2542-2546m



2546-2548m



2548-2551m



2553-2554m



2554-2558m



2558-2562m



2562-2566m



2566-2570m



2570-2572m



2572-2576m



2576-2580m



2580-2584m



2584-2588m



2588-2590m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2385.5	[m]	SWC	RRI
2396.0	[m]	SWC	RRI
2398.0	[m]	SWC	RRI



2402.0	[m]	SWC	RRI
2406.0	[m]	SWC	RRI
2410.0	[m]	SWC	RRI
2413.0	[m]	SWC	RRI
2415.5	[m]	SWC	RRI
2417.0	[m]	SWC	RRI
2419.0	[m]	SWC	RRI
2420.0	[m]	SWC	RRI
2434.0	[m]	SWC	RRI
2445.0	[m]	SWC	RRI
2454.0	[m]	SWC	RRI
2465.0	[m]	C	RRI
2469.9	[m]	C	RRI
2472.5	[m]	C	RRI
2473.0	[m]	C	RRI
2477.3	[m]	C	RRI
2479.5	[m]	C	RRI
2480.2	[m]	C	RRI
2485.3	[m]	C	RRI
2486.8	[m]	C	RRI
2606.0	[m]	SWC	RRI
2627.0	[m]	SWC	RRI
2638.0	[m]	SWC	RRI
2647.0	[m]	SWC	RRI
2655.0	[m]	SWC	RRI

Oljeprøver i Sökkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	RFT2	2467.50	0.00			YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
132	NORDLAND GP
687	UTSIRA FM



890	HORDALAND GP
1981	ROGALAND GP
1981	BALDER FM
2054	SELE FM
2158	LISTA FM
2246	VÅLE FM
2253	SHETLAND GP
2416	VIKING GP
2416	HEATHER FM
2458	BRENT GP
2458	NESS FM
2541	ETIVE FM
2575	DUNLIN GP
2575	DRAKE FM

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
92_01_WDSS_General_Information	pdf	0.18
92_02_WDSS_completion_log	pdf	0.20

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
92_30_6_10_COMPLETION_LOG	pdf	2.29
92_30_6_10_COMPLETION_REPORT	pdf	21.49

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL	1200	2134
CST	1227	2420
CST	2412	2653
DLL MSFL	2370	2650
HDT	1932	2650
ISF LSS	132	2652
LDT CNL	950	2652





NGT	2138	2652
RFT	2458	2574
RFT	2467	2467
RFT	2521	2522
VELOCITY	310	2654

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	219.0	36	220.0	0.00	LOT
SURF.COND.	20	949.0	26	970.0	1.56	LOT
INTERM.	13 3/8	2138.0	17 1/2	2432.0	1.79	LOT
OPEN HOLE		2656.0	12 1/4	2656.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
300	1.10	40.0		waterbased	
1000	1.20	40.0		waterbased	
1520	1.30	45.0		waterbased	
2020	1.35	54.0		waterbased	
2630	1.36	53.0		waterbased	

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]
92 Formation pressure (Formasjonstrykk)	pdf	0.22

