



Generell informasjon

Brønnbane navn	7/11-6
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	7/11-6
Seismisk lokalisering	SG 8048 - 207 SP 240
Utvinningstillatelse	070
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	342-L
Boreinnretning	TREASURE SEEKER
Boredager	73
Borestart	09.08.1982
Boreslutt	20.10.1982
Frigitt dato	20.10.1984
Publiseringsdato	15.02.2006
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	71.0
Totalt målt dybde (MD) [m RKB]	4500.0
Totalt vertikalt dybde (TVD) [m RKB]	4500.0
Maks inklinasjon [°]	8.5
Temperatur ved bunn av brønnbanen [°C]	148
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SMITH BANK FM
Geodetisk datum	ED50
NS grader	57° 6' 59.45" N
ØV grader	2° 36' 55.16" E
NS UTM [m]	6330563.56
ØV UTM [m]	476703.64
UTM sone	31
NPDID for brønnbanen	86



Brønnhistorie

General

Well 7/11-6 is located approximately half way between the Mime and the Ula Fields in the North Sea. The primary objective of well 7/11-6 was to test Late Jurassic sandstones. The secondary objective of the well was to test sandstones of Triassic age. The well was planned to reach total depth at 4400 +/- 200 m, approximately 100 m in to the Triassic.

Operations and results

Wildcat well 7/11-6 was spudded with the semi-submersible installation Treasure Seeker on 9 August 1982 and drilled to TD at 4500 m in the Triassic Smith Bank Formation. The well was drilled without incident except some problems with gumbo in the 17 1/2" section. The well was drilled with seawater and high viscosity pills of pre-hydrated bentonite/lime mud down to 670 m, with KCl/Drispac mud from 670 m to 2060 m, with KCl/Drispac mud converting to gel/lignosulphonate mud in the 2060 m to 3970 m section, and with a lignosulphonate mud from 3970 m to TD.

The well encountered a Late Jurassic Ula Formation gross sand interval of 47 m between 4098 and 4145 m. Based on wire line log evaluation net sand was 21.25 m with an average porosity of 15.8%. The Ula Formation rests unconformable on the Triassic Smith Bank Formation, which consists of interbedded sandstones and shales with local siltstones and rare stringers of limestone. Both the Jurassic and Triassic sandstones proved water bearing, but with residual hydrocarbons in the Ula Formation, based on logs. Shows were reported in the interval 4007.5 m to 4038 m in the Late Jurassic hot shale unit, in the Ula Formation, and some meters into the Triassic.

Four cores were taken in the 8 3/8" section. Cores 1 to 3 were cut mainly in the Ula Formation. The lower part of core 3 and all of core 4 were cut in the Triassic Smith Bank Formation. Thirteen RFT pressure tests were attempted in the well over the interval of 4106 to 4204.5 m. From the pressure tests a water gradient of 0.44 psi/ft (1.014 gm/cc) was calculated. A fluid sample was attempted at 4117.5 m, but failed.

The well was permanently abandoned on 20 October 1982 as a dry well with shows

Testing

No drill stem test was performed in the well.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
190.00	4500.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4100.0	4117.7	[m]
2	4118.0	4131.1	[m]
3	4131.1	4149.4	[m]
4	4149.4	4157.8	[m]

Total kjerneprøve lengde [m]	57.5
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



4101-4105m



4105-4109m



4111-4115m



4116-4117m



4119-4123m



4124-4128m



4129-4131m



4132-4136m



4137-4141m



4142-4146m



4147-4149m



4150-4154m



4155-4157m

Palynologiske preparater i Sjøkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3922.5	[m]	SWC	RRI
3936.0	[m]	SWC	RRI
3946.0	[m]	SWC	RRI



3952.0 [m]	SWC	RRI
3960.5 [m]	SWC	RRI
3967.0 [m]	SWC	RRI
3973.0 [m]	SWC	RRI
4030.0 [m]	SWC	RRI
4060.0 [m]	SWC	RRI
4065.0 [m]	SWC	RRI
4085.0 [m]	SWC	RRI
4090.0 [m]	SWC	RRI
4095.0 [m]	SWC	RRI
4100.5 [m]	C	HYDRO
4104.5 [m]	C	HYDRO
4107.9 [m]	C	RRI
4109.5 [m]	C	HYDRO
4112.5 [m]	SWC	HYDRO
4113.6 [m]	C	HYDRO
4114.8 [m]	C	RRI
4115.7 [m]	C	HYDRO
4118.8 [m]	C	HYDRO
4121.3 [m]	C	HYDRO
4124.0 [m]	C	HYDRO
4126.5 [m]	C	HYDRO
4127.8 [m]	C	HYDRO
4128.2 [m]	C	HYDRO
4128.7 [m]	C	HYDRO
4130.0 [m]	C	HYDRO
4131.7 [m]	C	HYDRO
4134.3 [m]	C	HYDRO
4134.7 [m]	C	HYDRO
4136.1 [m]	C	HYDRO
4136.7 [m]	C	HYDRO
4137.5 [m]	C	HYDRO
4141.8 [m]	C	HYDRO
4142.7 [m]	C	HYDRO
4144.9 [m]	SWC	RRI
4145.0 [m]	C	HYDRO
4150.6 [m]	C	HYDRO
4152.8 [m]	C	HYDRO
4223.5 [m]	SWC	RRI
4261.8 [m]	SWC	RRI



4281.5	[m]	SWC	RRI
4290.0	[m]	SWC	RRI
4299.0	[m]	SWC	RRI
4313.8	[m]	SWC	RRI
4325.5	[m]	SWC	RRI
4338.7	[m]	SWC	RRI
4352.0	[m]	SWC	RRI
4379.5	[m]	SWC	RRI

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
96	NORDLAND GP
1498	HORDALAND GP
3015	ROGALAND GP
3015	BALDER FM
3044	SELE FM
3086	LISTA FM
3151	MAUREEN FM
3225	SHETLAND GP
3290	TOR FM
3694	HOD FM
3821	HIDRA FM
3895	CROMER KNOLL GP
3895	RØDBY FM
3945	ÅSGARD FM
4008	TYNE GP
4008	MANDAL FM
4036	FARSUND FM
4098	VESTLAND GP
4098	ULA FM
4145	NO GROUP DEFINED
4145	SMITH BANK FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
86	pdf	0.79





Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
86_1	pdf	0.42
86_2	pdf	2.22

Dokumenter - eldre Sjøkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
86_01_WDSS_General_Information	pdf	0.16
86_02_WDSS_completion_log	pdf	0.30

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
86_01_7_11_06_Completion_Report	pdf	10.64
86_02_7_11_6_Completion_log	pdf	2.78

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CST	2061	3972
CST	4002	4491
CST	4002	4379
HDT	2042	4491
ISF LSS GR SP	96	4224
ISF MSFL LSS GR SP	4090	4497
LDT CNL GR	2042	4498
LDT GR	652	2058
RFT	4106	4204
SEISLOOK	1000	4490
TEMP	1200	1995
VELOCITY	1000	4490





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	182.0	36	182.5	0.00	LOT
SURF.COND.	20	654.0	26	670.0	1.92	LOT
INTERM.	13 3/8	2044.0	17 1/2	2060.0	1.85	LOT
INTERM.	9 5/8	3955.0	12 1/4	3970.0	2.03	LOT
OPEN HOLE		4500.0	8 3/8	4500.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
200	1.12			waterbased	
650	1.15			waterbased	
1220	1.25	44.0		waterbased	
1650	1.46	51.0		waterbased	
2070	1.50	48.0		waterbased	
3640	1.56	38.0		waterbased	
4170	1.60	45.0		waterbased	
4500	1.60	48.0		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]
86 Formation pressure (Formasjonstrykk)	pdf	0.22

