



Generell informasjon

Brønnbane navn	7/11-9
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	7/11-9
Seismisk lokalisering	NH CN 82 - 308 SP. 713
Utvinningstillatelse	070
Boreoperatør	Norsk Hydro Produksjon AS
Boretillatelse	491-L
Boreinnretning	BYFORD DOLPHIN
Boredager	104
Borestart	26.11.1985
Boreslutt	09.03.1986
Frigitt dato	09.03.1988
Publiseringsdato	19.10.2006
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	81.0
Totalt målt dybde (MD) [m RKB]	4271.0
Totalt vertikalt dybde (TVD) [m RKB]	4270.0
Maks inklinasjon [°]	2.8
Temperatur ved bunn av brønnbanen [°C]	170
Eldste penetrerte alder	EARLY TRIASSIC
Eldste penetrerte formasjon	SMITH BANK FM
Geodetisk datum	ED50
NS grader	57° 12' 11.79" N
ØV grader	2° 24' 50.18" E
NS UTM [m]	6340308.60
ØV UTM [m]	464590.88
UTM sone	31
NPDID for brønnbanen	856



Brønnhistorie

General

Well 7/11-9 is located ca 5.5 km from the UK border, North of the Cod and Mime Fields on the Cod Terrace. It was designed to test the sedimentary sequences that were seismically correlateable with Ula sands in the 7/11-5 Mime Discovery. The closure of prospect was dependent on pinch-out of the Ula sands and sealing Triassic rocks over the faults to the east and west. Prognosed top of the Ula sands was at 4119 m, and the thickness 90 m. Prognosed TD was at 4260 m in Triassic rocks.

Operations and results

Well 7/11-9 was spudded with the semi-submersible installation Byford Dolphin on 26 November 1985 and drilled to TD at 4271 m in the Triassic Smith Bank Formation. The well was drilled with seawater and hi-vis pills down to 723 m and with KCl polymer mud from 723 m to 3947 m. Due to stuck drill pipe at 3706 m pills with diesel/Imco Spot/Pipelax was spotted. A total of six days were spent freeing the pipe and pulling out of hole before drilling could commence. The 8 3/8" section from 3947 m to TD was drilled with KCl polymer with additions of Chrome lignite starting at 4084 m.

Top limestone came in at 3162 m, and the limestone continued down to top Rødby Formation at 3899 m. Top Jurassic was encountered at 4027 m. Grey/brownish siltstone of the Farsund Formation was encountered at 4093 m. The Ula Formation sand came in at 4168.5 m, and three cores were cut in the interval 4165- 4209.7 m. The cores indicated a 14 m column of shows all through the Ula sands down to top Triassic rocks at 4182.5 m. RFT-tests were run and showed very low permeability, which was confirmed by a DST-test. No shows were reported from above or below the Ula Formation. One RFT sample was recovered from 4181 m. The Horner corrected temperature from 5 highly consistent wire line BHT's at TD gave a temperature of 170 deg C.

The well was permanently abandoned on 9 March 1986 as a dry well.

Testing

One DST-test was performed in the interval 4168.4 to 4182.5 m. Only a small amount of water was produced (3.1 Sm³/day). BHT during the test was 156.1 deg C.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
210.00	4260.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4166.0	4179.0	[m]
2	4179.0	4190.0	[m]
3	4191.0	4209.7	[m]

Total kjerneprøve lengde [m]	42.7
Kjerner tilgjengelig for prøvetaking?	YES

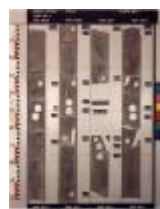
Kjernebilder



4165-4168m



4173-4176m



4169-4172m



4177-4180m



4181-4184m



4185-4188m



4189-4192m



4193-4196m



4197-4200m



4201-4204m



4205-4208m



4209-4210m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2969.0	[m]	SWC	RRI
2985.0	[m]	SWC	RRI
3009.0	[m]	SWC	RRI
3044.5	[m]	SWC	RRI



3062.0	[m]	SWC	RRI
3077.0	[m]	SWC	RRI
3104.0	[m]	SWC	RRI
4035.0	[m]	SWC	RRI
4070.0	[m]	SWC	RRI
4083.0	[m]	DC	HALIB
4140.0	[m]	SWC	RRI
4145.0	[m]	DC	HALIB
4160.0	[m]	C	HALIB
4174.6	[m]	C	HALIB
4177.4	[m]	C	HALIB
4178.8	[m]	C	RRI
4180.0	[m]	C	RRI
4216.5	[m]	SWC	RRI
4228.0	[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	DST1	4169.00	4182.50		03.03.1986 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
106	NORDLAND GP
1452	HORDALAND GP
2966	ROGALAND GP
2966	BALDER FM
2993	SELE FM
3009	LISTA FM
3034	FORTIES FM
3094	MAUREEN FM
3162	SHETLAND GP
3162	EKOFISK FM
3229	TOR FM
3625	HOD FM



3872	BLODØKS FM
3874	HIDRA FM
3899	CROMER KNOLL GP
3899	RØDBY FM
4027	TYNE GP
4027	MANDAL FM
4093	FARSUND FM
4169	VESTLAND GP
4169	ULA FM
4183	HEGRE GP
4183	SMITH BANK FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
856 7 11 9	pdf	0.70

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
856 01 WDSS General Information	pdf	0.25
856 02 WDSS completion log	pdf	0.34

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
856 7 11 9 COMPLETION REPORT AND LOG	pdf	14.69

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	4170	4183	44.5





Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningsstrykk [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					

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL	508	2193
CBL VDL	1600	3933
CST GR	2791	3952
CST GR	3960	4265
DLL MSFL	3890	4255
ISF LSS GR SP	190	4272
LDL CNL GR	2197	3950
LDL CNL NGT	3933	4265
LDL GR CAL	708	2212
RFT	4169	4181
SHDT	2770	3250
SHDT	3800	3950
SHDT	3933	4274
VSP	863	4256

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	190.0	36	192.0	0.00	LOT
SURF.COND.	20	708.0	26	723.0	2.14	LOT
INTERM.	13 3/8	2195.0	17 1/2	2212.0	2.00	LOT
INTERM.	9 5/8	3932.0	12 1/4	3947.0	0.00	LOT
LINER	7	4255.0	8 1/2	4272.0	0.00	LOT



Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
192	1.20			WATER BASED	27.11.1985
192	1.07			WATER BASED	01.12.1985
635	1.10	5.0	12.0	WATER BASED	01.12.1985
723	1.11	15.0	22.0	WATER BASED	01.12.1985
723	1.11	5.0	9.0	WATER BASED	01.12.1985
723	1.10	10.0	17.0	WATER BASED	03.12.1985
723	1.16	10.0	17.0	WATER BASED	04.12.1985
723	1.15	15.0	12.0	WATER BASED	05.12.1985
723	1.15	15.0	12.0	WATER BASED	08.12.1985
830	1.16	16.0	12.0	WATER BASED	08.12.1985
1355	1.26	20.0	14.0	WATER BASED	08.12.1985
1863	1.58	30.0	11.0	WATER BASED	10.12.1985
2058	1.60	34.0	13.0	WATER BASED	11.12.1985
2212	1.60	34.0	10.0	WATER BASED	12.12.1985
2212	1.63	32.0	13.0	WATER BASED	15.12.1985
2212	1.66	38.0	12.0	WATER BASED	15.12.1985
2212	1.66	26.0	12.0	WATER BASED	15.12.1985
2212	1.66	23.0	9.0	WATER BASED	16.12.1985
2212	1.66	23.0	9.0	WATER BASED	17.12.1985
2233	1.60	26.0	10.0	WATER BASED	18.12.1985
2404	1.60	22.0	11.0	WATER BASED	19.12.1985
2478	1.60	20.0	10.0	WATER BASED	22.12.1985
2661	1.60	17.0	10.0	WATER BASED	22.12.1985
2808	1.60	24.0	11.0	WATER BASED	22.12.1985
2945	1.60	22.0	10.0	WATER BASED	23.12.1985
2968	1.60	21.0	10.0	WATER BASED	26.12.1985
3093	1.60	26.0	12.0	WATER BASED	26.12.1985
3159	1.57	24.0	10.0	WATER BASED	29.12.1985
3211	1.56	23.0	11.0	WATER BASED	29.12.1985
3241	1.56	23.0	11.0	WATER BASED	29.12.1985
3347	1.56	23.0	10.0	WATER BASED	30.12.1985
3364	1.60	26.0	10.0	WATER BASED	01.01.1986
3375	1.60	23.0	8.0	WATER BASED	01.01.1986
3505	1.60	22.0	9.0	WATER BASED	02.01.1986
3613	1.60	19.0	9.0	WATER BASED	05.01.1986
3696	1.60	23.0	12.0	WATER BASED	05.01.1986



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 10.5.2024 - 00:48

3719	1.74	27.0	9.0	WATER BASED	06.03.1986
3719	1.74	26.0	8.0	WATER BASED	08.03.1986
3720	1.60	22.0	12.0	WATER BASED	05.01.1986
3720	1.60	19.0	10.0	WATER BASED	07.01.1986
3720	1.60	25.0	10.0	WATER BASED	08.01.1986
3720	1.60	24.0	10.0	WATER BASED	09.01.1986
3720	1.60	23.0	10.0	WATER BASED	13.01.1986
3720	1.60	23.0	9.0	WATER BASED	13.01.1986
3739	1.60	25.0	10.0	WATER BASED	13.01.1986
3756	1.60	25.0	9.0	WATER BASED	14.01.1986
3775	1.60	26.0	11.0	WATER BASED	14.01.1986
3785	1.60	28.0	11.0	WATER BASED	15.01.1986
3822	1.60	30.0	10.0	WATER BASED	16.01.1986
3834	1.60	28.0	9.0	WATER BASED	19.01.1986
3877	1.60	28.0	9.0	WATER BASED	19.01.1986
3900	1.60	27.0	9.0	WATER BASED	19.01.1986
3926	1.60	27.0	10.0	WATER BASED	19.01.1986
3947	1.60	29.0	8.0	WATER BASED	22.01.1986
3947	1.60	29.0	10.0	WATER BASED	03.02.1986
3947	1.60	29.0	8.0	WATER BASED	29.01.1986
3947	1.60	27.0	12.0	WATER BASED	03.02.1986
3947	1.60	27.0	11.0	WATER BASED	03.02.1986
3947	1.60	29.0	12.0	WATER BASED	03.02.1986
3947	1.60	29.0	11.0	WATER BASED	03.02.1986
3947	1.60	29.0	11.0	WATER BASED	28.01.1986
3962	1.60	25.0	10.0	WATER BASED	28.01.1986
3995	1.60	28.0	12.0	WATER BASED	30.01.1986
4015	1.60	30.0	12.0	WATER BASED	30.01.1986
4025	1.83	47.0	18.0	WATER BASED	30.01.1986
4052	1.89	43.0	13.0	WATER BASED	04.02.1986
4084	1.89	40.0	10.0	WATER BASED	05.02.1986
4084	1.89	35.0	10.0	WATER BASED	07.02.1986
4128	1.89	34.0	10.0	WATER BASED	07.02.1986
4133	1.74	25.0	8.0	WATER BASED	05.03.1986
4133	1.74	23.0	5.0	WATER BASED	04.03.1986
4165	1.89	32.0	8.0	WATER BASED	11.02.1986
4179	1.89	28.0	8.0	WATER BASED	11.02.1986
4179	1.89	31.0	10.0	WATER BASED	11.02.1986
4214	1.89	30.0	7.0	WATER BASED	11.02.1986
4241	1.60	25.0	10.0	WATER BASED	26.12.1985



4260	1.89	30.0	7.0	WATER BASED	12.02.1986
4271	1.89	31.0	7.0	WATER BASED	13.02.1986
4271	1.89	31.0	6.0	WATER BASED	17.02.1986
4271	1.89	29.0	5.0	WATER BASED	17.02.1986
4271	1.89	29.0	5.0	WATER BASED	18.02.1986
4271	1.89	29.0	5.0	WATER BASED	19.02.1986
4271	1.89	29.0	5.0	WATER BASED	20.02.1986
4271	1.89	30.0	7.0	WATER BASED	23.02.1986
4271	1.89	30.0	8.0	WATER BASED	23.02.1986
4271	1.89	28.0	6.0	WATER BASED	23.02.1986
4271	1.74	27.0	7.0	WATER BASED	25.02.1986
4271	1.74	29.0	7.0	WATER BASED	25.02.1986
4271	1.74	29.0	7.0	WATER BASED	27.02.1986
4271	1.74	24.0	6.0	WATER BASED	27.02.1986
4271	1.74	32.0	7.0	WATER BASED	03.03.1986
4271	1.89	33.0	6.0	WATER BASED	21.02.1986
4271	1.74	24.0	6.0	WATER BASED	02.03.1986

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]
856 Formation pressure (Formasjonstrykk)	pdf	0.21

