



Generell informasjon





Brønnbane navn	7/11-3
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	COD
Funn	7/11-1 Cod
Brønn navn	7/11-3
Seismisk lokalisering	
Utvinningstillatelse	018
Boreoperatør	Phillips Petroleum Company Norway
Boretillatelse	20-L
Boreinnretning	OCEAN TRAVELER
Boredager	114
Borestart	17.10.1968
Boreslutt	07.02.1969
Frigitt dato	07.02.1971
Publiseringsdato	18.01.2013
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	27.0
Vanndybde ved midlere havflate [m]	79.0
Totalt målt dybde (MD) [m RKB]	3350.0
Maks inklinasjon [°]	3.7
Temperatur ved bunn av brønnbanen [°C]	133
Eldste penetrerte alder	PALEOCENE
Eldste penetrerte formasjon	EKOFISK FM
Geodetisk datum	ED50
NS grader	57° 2' 58.8" N
ØV grader	2° 28' 18.8" E
NS UTM [m]	6323180.27
ØV UTM [m]	467959.73
UTM sone	31
NPDID for brønnbanen	159



Brønnhistorie

General

Well 7/11-3 was drilled ca 3.5 km south-east of the 7/11-1 Cod discovery well on the eastern side of the Breiflabb Basin in the southern North Sea. The objective was to test the extension of the Paleocene sands that were found hydrocarbon bearing in wells 7/11-1 and 7/11-2.

Operations and results

Appraisal well 7/11-3 was spudded with the semi-submersible installation Ocean Traveller on 17 October 1968 and drilled to TD at 3350 m. The hole collapsed when drilling a shale section between 1950 m and 2300 m. Bridging took place until the mud weight was increased to 14.5 ppg. Otherwise the well was drilled without significant problems. The well was drilled with a Drispac-Flosal-Desco system, which was salt saturated when drilling the lower part of the hole.

Minor amounts of oil and gas was tested in a Forties Formation sandstone sequence correlated to the best sandstone sequences that were tested in the two first Cod wells.

Three cores were cut in the intervals 3074.2 to 3082 m, 3092.8 to 3105 m, and 3160.3 to 3177.2 m. No wire line fluid samples were taken.

The well was permanently abandoned on 7 January 1969 as an oil appraisal well.

Testing

Eight drill stem testes were carried out.

DST 1 tested the interval 3239.7 to 3246.4 m. It produced a total of 15 m3 diesel cushion, mud and water. Bottom hole temperature was 129 deg C.

DST 2 tested the interval 3210.2 to 3231.8 m. It produced a total of 14.5 m3 water, diesel cushion and mud. Bottom hole temperature was 128 deg C.

DST 3 tested the interval 3176.9 to 3202.2 m. It produced a total of 14.5 m3 water, diesel cushion and mud. Bottom hole temperature was 128 deg C.

DST 4 tested the interval 3160.5 to 3172.4 m. It produced a total of 14 m3 water, diesel cushion and mud. Bottom hole temperature was 127 deg C.

DST 5 tested the interval 3126 to 3144 m. It produced a total of 8 m3 water, diesel cushion and mud.

DST 6 tested the interval 3096 to 3110 m. It produced a total of 38.5 m3 water, diesel cushion and mud.

DST 7 tested the interval 3086.1 to 3092.2 m. It produced 14 m3 oil, 4400 Sm3 gas and 54 m3 water/day through a choke. The stock tank gas/oil ratio was 237 Sm3/Sm3. The oil was greenish-black and its gravity was 47 deg API. The bottom hole temperature at 3081.5 m was 123 deg C.

DST 1 tested the interval 3036 to 3045 m. This test gave no flow.



Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
560.80	3349.75

Borekaks tilgjengelig for prøvetaking?	NO
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Borekjerter i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3074.2	3082.0	[m]
2	3092.8	3105.0	[m]
3	3160.3	3177.2	[m]

Total kjerneprøve lengde [m]	37.0
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3074.2	[m]	C	OD
3078.5	[m]	C	OD
3081.8	[m]	C	OD
3092.8	[m]	C	OD
3095.5	[m]	C	OD
3103.8	[m]	C	OD
3162.6	[m]	C	OD
3166.3	[m]	C	OD
3176.0	[m]	C	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
106	NORDLAND GP
1584	HORDALAND GP
3032	ROGALAND GP
3032	BALDER FM
3044	SELE FM



3084	FORTIES FM
3286	MAUREEN FM
3333	SHETLAND GP
3333	EKOFISK FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
159_GCH_1	pdf	0.86
159_GCH_2	pdf	0.89

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
159_01_WDSS_General_Information	pdf	0.20

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
159_7_11_3_AAODC_REPORTS	PDF	16.17
159_7_11_3_CLASTIC_SEDIMENTS_OF_WELL_S	PDF	2.64
159_7_11_3_COMPLEX_LITHOLOGY_ANALYSIS	PDF	9.08
159_7_11_3_CORE_LABORATORIES	PDF	0.81
159_7_11_3_DRILLING_FLUID_SUMMARY	PDF	2.88
159_7_11_3_DRILL_STEM_TEST_DATA_TEST_NO-6	PDF	1.22
159_7_11_3_DRILL_STEM_TEST_DATA_TEST_NO-7	PDF	1.82
159_7_11_3_DRILL_STEM_TEST_DATA_TEST_NO-8	PDF	1.25
159_7_11_3_DST_NO_1_SUMMARY	PDF	0.81
159_7_11_3_EXPLORATORY_TEST_DRILLING_VESSEL_OCEAN_TRAVELER	PDF	0.48
159_7_11_3_GEOCHEM	PDF	0.12
159_7_11_3_KONTINENTALSOKKELEN_BORE_TILLATELSE_NR-20	PDF	0.07





159 7 11 3 PRELIMINARY GCH REPOR NO-7	PDF	0.57
159 7 11 3 SAND DISTRIBUTION WITHIN THE PALEOCENE	PDF	12.03
159 7 11 3 SYNTHETIC SEISMOIGRAM REPORT	PDF	3.68
159 7 11 3 THE MICROPALAEONTOLOGY AND STRATIGRAPHY	PDF	8.88
159 7 11 3 WELL COMPLETION REPORT-1	PDF	2.59
159 7 11 3 WELL COMPLETION REPORT-2	PDF	2.32
159 7 11 3 WELL PRODUCTION TEST	PDF	1.64
159 7 11 3 WELL PRODUCTION TEST 2	PDF	3.25

Dokumenter - Sökkeldirektoratets publikasjoner

Dokument navn	Dokument format	Dokument størrelse [KB]
159 01 NPD Paper No.10 Lithology Well 7 11 3	pdf	24.45
159 02 NPD Paper No.10 Lithologic Correlation chart Well 7 11 3	pdf	32.57
159 03 NPD Paper No.10 Paleocene Correlation map Well 7 11 3	pdf	12.36

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsventil størrelse [mm]
1.0	3241	3247	0.0
2.0	3211	3233	0.0
3.0	3180	3203	0.0
4.0	3161	3173	0.0
5.0	3127	3145	0.0
6.0	3097	3111	0.0
7.0	3087	3093	0.0
8.0	3037	3046	0.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				
2.0				





3.0				
4.0				
5.0				
6.0				
7.0				123
8.0				

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0					
2.0					
3.0					
4.0					
5.0					
6.0					
7.0	14	4400			237
8.0					

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	1951	3292
CDM	2920	3349
FDC	2927	3351
GR	91	494
IES	1972	3351
LL-7	2927	3351
MLL	2927	3351
SGR	494	3351
SNP	2927	3299
SP	1974	3351
VSP	494	3351

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	20	172.0	26	176.0	0.00	LOT



INTERM.	13 3/8	496.0	17 1/2	511.0	0.00	LOT
INTERM.	9 5/8	1973.0	12 1/4	1994.0	0.00	LOT
PROD.	7	3341.0	8 1/2	3351.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
141	1.05			waterbased	
502	1.22			waterbased	
1993	1.43			waterbased	
2298	1.55			waterbased	
2743	1.72			waterbased	
3179	1.65			waterbased	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
10086.00	[ft]
10147.00	[ft]
10147.00	[ft]
10183.00	[ft]
10423.00	[ft]