



Generell informasjon

Brønnbane navn	6607/12-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6607/12-1
Seismisk lokalisering	LINE B-20-83 SP.940
Utvinningstillatelse	127
Boreoperatør	Elf Petroleum Norge AS
Boretillatelse	521-L
Boreinnretning	HENRY GOODRICH
Boredager	75
Borestart	19.07.1986
Boreslutt	01.10.1986
Frigitt dato	01.10.1988
Publiseringsdato	17.09.2007
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	21.0
Vanndybde ved midlere havflate [m]	369.0
Totalt målt dybde (MD) [m RKB]	3521.0
Totalt vertikalt dybde (TVD) [m RKB]	3516.0
Maks inklinasjon [°]	7.8
Temperatur ved bunn av brønnbanen [°C]	124
Eldste penetrerte alder	LATE CRETACEOUS
Eldste penetrerte formasjon	SHETLAND GP
Geodetisk datum	ED50
NS grader	66° 12' 54.15" N
ØV grader	7° 44' 26.72" E
NS UTM [m]	7344635.95
ØV UTM [m]	443329.05
UTM sone	32
NPDID for brønnbanen	925



Brønnhistorie

General

Well 6607/12-1 is located in the western part of the Dønna Terrace in the Norwegian Sea off shore Mid Norway. It was designed to test a structure in the north-western part of the block. The main structuration was seen at top Brygge Formation and top Tare Formation. A secondary structure was mapped at an intra Cretaceous marker. The top of the Shetland Group showed an anomalous graben-like development without structural closure. The well was located close to or at the highest structural point of all closed levels. The main objectives of the well were to test for hydrocarbons at all closed levels of the main structure, to test the contents of the anomalous graben feature seen at top Shetland Group level, and to test the upper part of the Cretaceous section west of the Nordland Ridge for potential source rocks. The prognosed depth was 3500 m.

Operations and results

Wildcat well 6607/12-1 was spudded with the semi-submersible installation Henry Goodrich on 19 July 1986 and drilled to TD at 3521 m in the Late Cretaceous Shetland Group. Down to 1440 m drilling proceeded without significant problems. At this depth there was experienced a loss of mud to the formation, but the well was stabilised. The well was drilled with bentonite mud down to 765 m, with polymer mud from 765 m to 1526 m, and with Lignosulphonate mud from 1526 m to TD.

Only thin levels of water bearing sandstones were encountered. The main target (Brygge Formation) came in at 1398 m, 43 meter shallower than prognosis with claystones and a few stringers of limestone and sand. The Cretaceous section came in at 1725 m. The main lithology here was multicoloured claystone with stringers of white, hard limestone. A fault zone, rich in dolomite and calcite alternating with limestone were penetrated at 2666 to 2672 m. Total gas of 38% were recorded from this interval, otherwise no other major shows were recorded during drilling or coring. Minor shows, however, were recorded between 2935 - 2940 m in bituminous claystones and argillaceous dolomites of the Shetland Group. Source rock geochemical analyses did not reveal any prolific kerogen at this depth however. The best source rock in the well was found in the interval 1630 to 1725 m in the Tang Formation, which had TOC in the range 1.2 - 4.5 % and Hydrogen Index in the range 50 - 150 mg HC/g TOC. This can be classified as fair source rock potential with potential for gas and possibly oil.

One core was cut in the interval 1409 - 1426 m in the Brygge Formation. The recovery was 56% with claystones, limestone, tuff and thin sand stringers. No RFT sampling was performed. Corrected wire line BHT temperatures at TD indicate a formation temperature of 124 deg. C at TD.

The well was permanently abandoned on 1 October 1986 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
470.00	3460.00



Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sökkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1409.0	1417.6	[m]

Total kjerneprøve lengde [m]	8.6
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



1409-1412m



1412-1415m



1415-1417m

Palynologiske preparater i Sökkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1345.0	[m]	DC	OD
1355.0	[m]	DC	RRI
1363.0	[m]	DC	RRI
1380.0	[m]	DC	RRI
1385.0	[m]	DC	OD
1400.0	[m]	DC	RRI
1405.0	[m]	DC	OD
1410.0	[m]	DC	OD
1415.0	[m]	DC	RRI
1435.0	[m]	DC	OD
1440.0	[m]	DC	RRI
1460.0	[m]	DC	RRI
1470.0	[m]	DC	OD
1480.0	[m]	DC	RRI



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1495.0 [m]	DC	RRI
1500.0 [m]	DC	OD
1520.0 [m]	DC	RRI
1520.0 [m]	DC	OD
1540.0 [m]	DC	RRI
1550.0 [m]	DC	OD
1560.0 [m]	DC	RRI
1580.0 [m]	DC	RRI
1600.0 [m]	DC	RRI
1600.0 [m]	DC	OD
1620.0 [m]	DC	RRI
1640.0 [m]	DC	RRI
1660.0 [m]	DC	RRI
1680.0 [m]	DC	RRI
1680.0 [m]	DC	OD
1700.0 [m]	DC	RRI
1710.0 [m]	DC	OD
1720.0 [m]	DC	SAGA
1725.0 [m]	DC	RRI
1725.0 [m]	DC	SAGA
1730.0 [m]	DC	OD
1730.0 [m]	DC	SAGA
1740.0 [m]	DC	SAGA
1740.0 [m]	DC	OD
1750.0 [m]	DC	RRI
1770.0 [m]	DC	RRI
1790.0 [m]	DC	RRI
1790.0 [m]	DC	OD
1810.0 [m]	DC	RRI
1810.0 [m]	DC	OD
1830.0 [m]	DC	RRI
1840.0 [m]	DC	SAGA
1850.0 [m]	DC	OD
1850.0 [m]	DC	RRI
1870.0 [m]	DC	RRI
1880.0 [m]	DC	SAGA
1890.0 [m]	DC	RRI
1900.0 [m]	DC	SAGA
1900.0 [m]	DC	OD
1910.0 [m]	DC	RRI



1920.0	[m]	DC	SAGA
1930.0	[m]	DC	RRI
1940.0	[m]	DC	SAGA
1950.0	[m]	DC	OD
1960.0	[m]	DC	SAGA
1990.0	[m]	DC	SAGA
2000.0	[m]	DC	OD
2020.0	[m]	DC	SAGA
2040.0	[m]	DC	SAGA
2050.0	[m]	DC	OD
2060.0	[m]	DC	SAGA
2085.0	[m]	DC	SAGA
2100.0	[m]	DC	SAGA
2100.0	[m]	DC	OD
2120.0	[m]	DC	SAGA
2145.0	[m]	DC	SAGA
2150.0	[m]	DC	OD
2165.0	[m]	DC	SAGA
2185.0	[m]	DC	SAGA
2195.0	[m]	DC	RRI
2200.0	[m]	DC	OD
2205.0	[m]	DC	SAGA
2240.0	[m]	DC	SAGA
2250.0	[m]	DC	OD
2260.0	[m]	DC	SAGA
2275.0	[m]	DC	SAGA
2295.0	[m]	DC	SAGA
2300.0	[m]	DC	OD
2330.0	[m]	DC	SAGA
2350.0	[m]	DC	OD
2370.0	[m]	DC	SAGA
2410.0	[m]	DC	SAGA
2410.0	[m]	DC	OD
2445.0	[m]	DC	SAGA
2450.0	[m]	DC	OD
2480.0	[m]	DC	SAGA
2500.0	[m]	DC	OD
2520.0	[m]	DC	SAGA
2550.0	[m]	DC	OD
2580.0	[m]	DC	SAGA



2600.0	[m]	DC	OD
2620.0	[m]	DC	SAGA
2635.0	[m]	DC	SAGA
2650.0	[m]	DC	SAGA
2650.0	[m]	DC	OD
2655.0	[m]	DC	SAGA
2665.0	[m]	DC	SAGA
2670.0	[m]	DC	OD
2675.0	[m]	DC	SAGA
2675.0	[m]	DC	OD
2690.0	[m]	DC	SAGA
2695.0	[m]	DC	OD
2705.0	[m]	DC	OD
2720.0	[m]	DC	SAGA
2725.0	[m]	DC	OD
2740.0	[m]	DC	SAGA
2760.0	[m]	DC	SAGA
2775.0	[m]	DC	OD
2800.0	[m]	DC	SAGA
2825.0	[m]	DC	OD
2840.0	[m]	DC	SAGA
2859.0	[m]	DC	SAGA
2875.0	[m]	DC	OD
2900.0	[m]	DC	SAGA
2925.0	[m]	DC	OD
2940.0	[m]	DC	OD
2960.0	[m]	DC	SAGA
2980.0	[m]	DC	SAGA
3000.0	[m]	DC	OD
3020.0	[m]	DC	SAGA
3050.0	[m]	DC	OD
3080.0	[m]	DC	SAGA
3100.0	[m]	DC	OD
3120.0	[m]	DC	SAGA
3150.0	[m]	DC	OD
3180.0	[m]	DC	SAGA
3200.0	[m]	DC	OD
3235.0	[m]	DC	OD
3250.0	[m]	DC	OD
3300.0	[m]	DC	OD



3350.0	[m]	DC	OD
3380.0	[m]	DC	SAGA
3400.0	[m]	DC	OD
3420.0	[m]	DC	SAGA
3440.0	[m]	DC	SAGA
3450.0	[m]	DC	OD
3470.0	[m]	DC	SAGA
3480.0	[m]	DC	SAGA
3490.0	[m]	DC	SAGA
3500.0	[m]	DC	OD
3510.0	[m]	DC	SAGA
3521.0	[m]	DC	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
390	NORDLAND GP
1299	KAI FM
1398	HORDALAND GP
1398	BRYGGE FM
1484	ROGALAND GP
1484	TARE FM
1578	TANG FM
1725	SHETLAND GP

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
925_01_WDSS_General_Information	pdf	0.21
925_02_WDSS_completion_log	pdf	0.28

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BGL	750	1325
BHC	1330	2709
BHC	2692	3521





CBL VDL	390	1330
CBL VDL	1331	2694
CNL	1330	2709
CNL	2692	3522
DIL	464	765
DIL GR	750	1325
DIL GR	1331	1523
GR	385	765
HRT	1000	1900
ISF GR	1330	2709
ISF GR	2692	3521
LDL	1330	2709
LDL	2692	3522
LDL GR	464	765
LDL GR	750	1325
LDL GR	1331	1527
LSS	464	765
LSS	750	1325
LSS	1331	1523
MWD - GR RES DIR	484	3521
NGL	1330	2699
NGL	2692	3522
SHDT GR	1330	2660
SHDT GR	2692	3523
VELOCITY	1775	3521
VSP	35	900

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	463.0	36	765.0	0.00	LOT
SURF.COND.	20	750.0	26	1015.0	1.33	LOT
INTERM.	13 3/8	1331.0	17 1/2	1353.0	1.68	LOT
INTERM.	9 5/8	2694.0	12 1/4	2709.0	1.82	LOT

Boreslam



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Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
420	1.06			WATER BASED	22.07.1986
765	1.16	30.0	11.7	WATER BASED	27.07.1986
1015	1.11	28.0	5.8	WATER BASED	05.08.1986
1285	1.16	32.0	14.7	WATER BASED	05.08.1986
1345	1.17	40.0	14.7	WATER BASED	05.08.1986
1353	1.18	32.0	8.8	WATER BASED	08.08.1986
1409	1.18	32.0	7.8	WATER BASED	10.08.1986
1445	1.30	36.0	6.8	WATER BASED	10.08.1986
1526	1.58	53.0	11.7	WATER BASED	15.08.1986
1526	1.45	30.0	2.9	WATER BASED	12.08.1986
1526	1.50	38.0	5.8	WATER BASED	12.08.1986
1526	1.58	48.0	12.7	WATER BASED	12.08.1986
1613	1.59	55.0	11.7	WATER BASED	18.08.1986
1676	1.62	66.0	13.7	WATER BASED	17.08.1986
1748	1.64	62.0	12.7	WATER BASED	18.08.1986
2014	1.64	61.0	11.7	WATER BASED	21.08.1986
2178	1.64	59.0	12.7	WATER BASED	21.08.1986
2217	1.64	58.0	12.7	WATER BASED	25.08.1986
2298	1.64	59.0	10.7	WATER BASED	25.08.1986
2402	1.64	51.0	9.8	WATER BASED	25.08.1986
2412	1.64	50.0	9.8	WATER BASED	25.08.1986
2436	1.65	66.0	13.7	WATER BASED	27.08.1986
2540	1.64	54.0	8.8	WATER BASED	28.08.1986
2569	1.64	54.0	10.7	WATER BASED	29.08.1986
2681	1.63	61.0	12.7	WATER BASED	01.09.1986
2707	1.64	60.0	11.7	WATER BASED	01.09.1986
2733	1.39	58.0	13.7	WATER BASED	08.09.1986
2815	1.39	52.0	12.7	WATER BASED	08.09.1986
2859	1.40	48.0	11.7	WATER BASED	08.09.1986
2942	1.40	46.0	8.8	WATER BASED	09.09.1986
3000	1.41	46.0	7.8	WATER BASED	10.09.1986
3033	1.42	40.0	8.8	WATER BASED	10.09.1986
3113	1.45	40.0	8.8	WATER BASED	11.09.1986
3159	1.47	44.0	7.8	WATER BASED	14.09.1986
3181	1.47	40.0	7.8	WATER BASED	14.09.1986
3209	1.47	46.0	7.8	WATER BASED	14.09.1986
3238	1.47	48.0	8.8	WATER BASED	16.09.1986



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3251	1.47	39.0	8.8	WATER BASED	22.09.1986
3260	1.47	50.0	9.8	WATER BASED	17.09.1986
3316	1.47	50.0	10.7	WATER BASED	17.09.1986
3372	1.47	46.0	9.8	WATER BASED	19.09.1986
3437	1.47	43.0	8.8	WATER BASED	22.09.1986
3508	1.47	39.0	8.8	WATER BASED	22.09.1986