



Generell informasjon

Brønnbane navn	15/6-2 R
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	GINA KROG
Funn	15/5-1 Gina Krog
Brønn navn	15/6-2
Seismisk lokalisering	SC 23 SP.7490
Utvinningstillatelse	029
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	62-L2
Boreinnretning	DRILLMASTER
Boredager	85
Borestart	09.05.1974
Boreslutt	01.08.1974
Plugget og forlatt dato	01.08.1974
Frigitt dato	01.08.1976
Publiseringsdato	24.09.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	YES
Årsak til gjenåpning	DRILLING
Innhold	GAS/CONDENSATE
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	HUGIN FM
Avstand, boredekk - midlere havflate [m]	24.0
Vanndybde ved midlere havflate [m]	115.0
Totalt målt dybde (MD) [m RKB]	4779.0
Totalt vertikalt dybde (TVD) [m RKB]	4779.0
Temperatur ved bunn av brønnbanen [°C]	91
Eldste penetrerte alder	LATE PERMIAN
Eldste penetrerte formasjon	ZECHSTEIN GP



Geodetisk datum	ED50
NS grader	58° 32' 47.58" N
ØV grader	1° 41' 54.09" E
NS UTM [m]	6490444.74
ØV UTM [m]	424236.03
UTM sone	31
NPDID for brønnbanen	517

Brønnhistorie

General

Well 15/6-2 R is a re-entry of well 15/6-2 in the Ve Sub-basin in the North Sea, ca 5 km north of the Sleipner Field. The initial well 15/6-2 was drilled to 3131 m in the Shetland Group with the drill vessel Glomar Grand Isle. The well found good shows in Paleocene sandstones and was suspended in October 1971. The primary objective of the re-entry was to deepen the well and test the Dogger (Middle Jurassic) deltaic sands. A secondary objective was to test the Lias section (Early Jurassic).

Operations and results

Wildcat well 15/6-2 re-entered on 9 May 1974. It was drilled with the semi-submersible installation Drillmaster to TD at 4779 m in the Late Permian Zechstein Group. The pipe stuck temporarily three times in intervals below 4602 m. Due to hole problems and tight spots no logs were run below 4611 m. The well was drilled with a seawater /lignosulphonate mud from re-entry point to TD.

The only hydrocarbon reservoir penetrated was the Dogger gas-condensate sands from 3582 to 3641 m. The lower part of Dogger section and all of the Lias section were cut out of this test by an erosional unconformity and/or faulting. The missing interval has good potential for additional reservoir quality sands. In addition, the Late Triassic has good sand development that could be adequate for reservoiring hydrocarbons. During the drilling of the Triassic and Permian section (3688 to TD), the background gas in mud and cuttings was near zero, which probably is related to lack of source material for hydrocarbons.

No shows were recorded except in Dogger.

Five cores were cut with 100% recovery in the interval 3582.3 to 3641.1 m. A total of eight FIT fluid samples were taken: P8 (3600.6 m, mud filtrate and poor gas), P7 (3606.4 m, gas and 2 litres condensate), P6 (3610.4 m, gas), P1 (3615.5 m, mud and gas), P3 (3616.5 m, gas and water), P5 (3623.5 m, gas and mud filtrate), P4 (3634.4 m, gas and 2 litres condensate), and P2 (3675.3 m, water, mud and filtrate).

The well was permanently abandoned on 1 August 1974. It is classified as an appraisal well for the 15/5-1 Gina Krog Discovery

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
3135.78	4779.26
Borekaks tilgjengelig for prøvetaking?	YES

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	11735.0	11783.0	[ft]
2	11783.0	11822.0	[ft]
3	11823.0	11870.0	[ft]
4	11870.0	11898.0	[ft]
5	11898.0	11946.0	[ft]

Total kjerneprøve lengde [m]	64.0
Kjerner tilgjengelig for prøvetaking?	YES

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
FIT		3606.60	0.00	OIL	28.07.1974 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
139	NORDLAND GP
768	UTSIRA FM
1009	HORDALAND GP
1746	GRID FM
2112	ROGALAND GP
2112	BALDER FM
2155	SELE FM
2183	LISTA FM
2206	HEIMDAL FM



2676	VÅLE FM
2735	SHETLAND GP
3383	CROMER KNOLL GP
3438	VIKING GP
3438	DRAUPNE FM
3523	HEATHER FM
3583	VESTLAND GP
3583	HUGIN FM
3638	SLEIPNER FM
3682	STATFJORD GP

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
517_GCH_1	pdf	0.35

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
517_15_6_2_R_COMPLETION_REPORT	pdf	11.53

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BHC	3078	4593
CDM	3063	3654
DIL	3078	4145
FDC CNL	3063	3654
IES	3680	4611
VELOCITY	1315	3611

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
LINER	7	3678.0	8 1/2	3681.0	0.00	
OPEN HOLE		4779.0	5 2/3	4779.0	0.00	

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]
517 Formation pressure (Formasjonstrykk)	pdf	0.20

