



Generell informasjon

Brønnbane navn	6407/5-2 S
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Funn	6407/5-2 S (Cortina)
Brønn navn	6407/5-2
Seismisk lokalisering	OMV2008MR08-xl1249 & il1174
Utvinningstillatelse	471
Boreoperatør	OMV (Norge) AS
Boretillatelse	1363-L
Boreinnretning	BORGLAND DOLPHIN
Boredager	39
Borestart	28.07.2011
Boreslutt	04.09.2011
Frigitt dato	04.09.2013
Publiseringsdato	04.09.2013
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	ROGN FM
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	GARN FM
Avstand, boredekk - midlere havflate [m]	31.0
Vanndybde ved midlere havflate [m]	230.0
Totalt målt dybde (MD) [m RKB]	3545.0
Totalt vertikalt dybde (TVD) [m RKB]	3390.0
Maks inklinasjon [°]	37.1
Temperatur ved bunn av brønnbanen [°C]	133
Eldste penetrerte alder	EARLY JURASSIC



Eldste penetrerte formasjon	TILJE FM
Geodetisk datum	ED50
NS grader	64° 34' 48.77" N
ØV grader	7° 37' 11.93" E
NS UTM [m]	7162568.68
ØV UTM [m]	433904.08
UTM sone	32
NPDID for brønnbanen	6648

Brønnhistorie



General

Well 6407/5-2 S was drilled on the eastern side of the Gimsan Basin on the Halten Terrace in the Norwegian Sea. Nearest discoveries are the Mikkel Sør gas wells, 2-3 km to the east. The main objective of the well was to drill and evaluate the Late Cretaceous Lysing Formation in the Chamonix Prospect. The deeper Jurassic reservoirs of the Garn, Ile, Tofte and Tilje Formations were seen as secondary targets.

Operations and results

Due to presence of cold water corals and sponges in the region, identified during the site survey, the spud location for Chamonix was moved 500m SE from its original planned position. This prevented any negative effects on the cold-water corals and sponges during anchor laying and drilling operations. In order to penetrate all targets vertically, the well was drilled with an S-shaped trajectory.

Wildcat well 6407/5-2 S was spudded with the semi-submersible installation Borgland Dolphin on 28 July 2011 and drilled to TD at 3545 m in the Early Jurassic Tilje Formation. Due to potential shallow gas a 9 7/8" pilot hole was drilled from 332 m to 545 m. No shallow gas was observed. No significant problem was encountered in the operations. The well was drilled with spud mud down to 545 m and with Carbo-Sea synthetic oil-based mud from 545 m to TD.

No movable hydrocarbons were discovered in the prognosed Late Cretaceous Lysing Formation. Post-well biostratigraphic evaluation of the well assigned these sand intervals to the Lange Sandstone Member. A non commercial gas discovery was made in Jurassic sandstones where a ca 40 m gross gas column was penetrated from top Rogn Formation at 3109.5 m (2986.4 m TVD), through a thin Melke Formation sandstone and into the Garn Formation. No gas/water contact was established. The only shows that could be distinguished from the oil based mud were seen in the Rogn Formation.

One core was cut from 2844 to 2871 m in the Lange Formation. RCI wire line fluid samples were taken at 3114.9 m (gas/condensate), 3135.2 m (gas/condensate), 3141.3 m (gas/condensate), and at 3155.3 m (water).

The well was permanently abandoned on 4 September 2011 as a minor gas discovery.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
550.00	3554.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2844.0	2871.8	[m]

Total kjerneprøve lengde [m]	27.8
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3050.0	[m]	DC	PETROSTR
3056.0	[m]	DC	PETROS
3062.0	[m]	DC	PETROS
3068.0	[m]	DC	PETROS
3074.0	[m]	DC	PETROS
3080.0	[m]	DC	PETROS
3086.0	[m]	DC	PETROS
3092.0	[m]	DC	PETROS
3098.0	[m]	DC	PETROS
3104.0	[m]	DC	PETROS
3107.0	[m]	DC	PETROS
3110.0	[m]	DC	PETROS
3113.0	[m]	DC	PETROS
3116.0	[m]	DC	PETROS
3125.0	[m]	DC	PETROS
3128.0	[m]	DC	PETROS

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
261	NORDLAND GP
261	NAUST FM
1152	KAI FM
1336	HORDALAND GP
1336	BRYGGE FM
1995	ROGALAND GP
1995	TARE FM



2082	TANG FM
2217	SHETLAND GP
2217	SPRINGAR FM
2310	NISE FM
2400	KVITNOS FM
2770	CROMER KNOLL GP
2770	LANGE FM
3054	VIKING GP
3054	SPEKK FM
3109	ROGN FM
3116	MELKE FM
3141	FANGST GP
3141	GARN FM
3250	NOT FM
3280	ILE FM
3340	BÅT GP
3340	ROR FM
3367	TOFTE FM
3436	ROR FM
3498	TILJE FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
EARTH IMAGER	2760	3510
LWD - GR RES DIR PWD	261	330
LWD - GR RES DIR SON DEN PWD	1192	2780
LWD - GR RES DIR SON DEN PWD NEU	2780	3345
LWD - GR RES DIR SON PWD	495	1192
LWD- DIR GR	255	479
MREX GR	2820	3520
RCI GR	3113	3500
VSP	1065	3465

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	326.0	36	326.0	0.00	LOT
SURF.COND.	20	509.0	26	545.0	1.37	LOT
PILOT HOLE		545.0	9 7/8	545.0	0.00	LOT
INTERM.	13 3/8	1186.0	17 1/2	1192.0	1.80	LOT
INTERM.	9 5/8	2760.0	12 1/4	2780.0	1.90	LOT
OPEN HOLE		3545.0	8 1/2	3545.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
261	1.05			Spud mud	
545	1.05			Spud mud	
558	1.21	20.0		Carbo-sea OBM	
2580	1.57	38.0		Carbo-sea OBM	
2780	1.57	33.0		Carbo-sea OBM	
3139	1.39	22.0		Carbo-sea OBM	
3545	1.57	32.0		Carbo-sea OBM	
3545	1.39	24.0		Carbo-sea OBM	

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]
6648 Formation pressure (Formasjonstrykk)	pdf	0.29

