Generell informasjon

Brønnbane navn	15/12-15
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	15/12-15
Seismisk lokalisering	Varg 2002-ph1-linline1835 & crossline 10
Utvinningstillatelse	038
Boreoperatør	Pertra AS (OLD)
Boretillatelse	1087-L
Boreinnretning	DEEPSEA TRYM
Boredager	33
Borestart	19.11.2004
Boreslutt	21.12.2004
Frigitt dato	21.12.2006
Publiseringsdato	21.12.2006
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	88.0
Totalt målt dybde (MD) [m RKB]	3300.0
Totalt vertikalt dybde (TVD) [m RKB]	3300.0
Maks inklinasjon [°]	1.91
Temperatur ved bunn av brønnbanen [°C]	122
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	SLEIPNER FM
Geodetisk datum	ED50
NS grader	58° 2' 43.92'' N
ØV grader	1° 52' 22.98'' E
NS UTM [m]	6434481.04
ØV UTM [m]	433470.04
UTM sone	31
NPDID for brønnbanen	5017

Brønnhistorie

General

Wildcat well 15/12-15 was drilled on the Maureen Terrace, ca 3 km west of the Varg and 15/12-12 Rev Discoveries. The main object of the well was to drill to Middle Jurassic/Triassic strata with the aim to explore the hydrocarbon bearing potential of Oxfordian age sandstones analogues to the Varg West. Secondary objective was the hydrocarbon potential of Kimmeridge age sandstone immediately above the main Oxfordian reservoir. The well should measure reservoir pressure and fluid gradients, assess the reservoir quality of the Late Jurassic target reservoir, assess reservoir geometry, and confirm geophysical model in terms of depth to top and base reservoir.

Operations and results

Well 15/12-15 was spudded with the semi-submersible installation Deepsea Trym on 19 November 2004 and drilled to TD at 3300 m in the Middle Jurassic Sleipner Formation. Apart from some very slow drilling in the interval from 2454 m to 2492 m no significant problems were encountered in the operations. The well was drilled with seawater and hi-vis sweeps down to 1370 m, and with a salt saturated /polymer mud system (Performadril) from 1370 m to TD.

Well 15/12-15 penetrated the Oxfordian sandstone at 3140.5 m. The sand was encountered 92 m TVDSS deeper than expected, and was water-wet. The overlying Kimmeridgian sands within the Heather Formation were approximately 96 metres thicker than prognosed and were also water-wet. Weak possible fluorescence was reported from cuttings within the Kimmeridgian reservoir but post-well geochemical analyses revealed no evidence for hydrocarbons of any kind. MDT pressure measurements found the reservoir to be pressure depleted.

No cores were cut and no wire line fluid samples taken in the well.

The well was permanently abandoned on 21 December 2004 as a dry well.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1570.00	3032.00

Borekaks tilgjengelig for prøvetaking?	YES

Kjernebilder

2892-2898m

2998-2904m

2904-2910m

2910-2911m

2911-2916m

2916-2922m

2922-2928m

2928-2934m

2934-2938m

2939-2945m

2945-2951m

2951-2957m

2957-2963m

2963-2967m

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
113	NORDLAND GP
1070	UTSIRA FM
1302	HORDALAND GP
2448	ROGALAND GP
2448	BALDER FM
2459	SELE FM
2512	LISTA FM
2636	VÅLE FM
2655	SHETLAND GP
2881	CROMER KNOLL GP
2956	VIKING GP
2956	DRAUPNE FM
2962	HEATHER FM
3045	INTRA HEATHER FM SS
3279	VESTLAND GP

3279	SLEIPNER FM

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
MDT GR ACTS ECRD	3148	3172
MWD - DGR DM EWR CTN ALD ACAL BA	1370	2173
MWD - DGR EWR CTN ALD ACAL BAT D	2173	2454
MWD - DGR EWR CTN ALD ACAL BAT D	2454	3300
MWD - DGR EWR DM	175	1370

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	175.0	36	176.0	0.00	LOT
SURF.COND.	13 3/8	1364.0	17 1/2	1370.0	1.74	LOT
OPEN HOLE		3300.0	12 1/4	3300.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
150	1.03	30.0		SPUD MUD	
1097	1.03	50.0		SPUD MUD	
1370	1.25	50.0		SPUD MUD	
1938	1.35	36.0		PERFORMADRIL	
2417	1.35	36.0		PERFORMADRIL	
2454	1.35	33.0		PERFORMADRIL	
2650	1.35	24.0		PERFORMADRIL	
3300	1.35	34.0		PERFORMADRIL	

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]
5017_Formation_pressure_(Formasjonstrykk)	pdf	0.23