



Generell informasjon

Brønnbane navn	9/2-7 S
Type	EXPLORATION
Formål	WILDCAT
Status	RE-CLASS TO DEV
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	YME
Funn	9/2-7 S
Brønn navn	9/2-7
Seismisk lokalisering	ST 9413 INLINE 636 & CROSSLINE 732
Utvinningstillatelse	114
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	887-L
Boreinnretning	BYFORD DOLPHIN
Boredager	50
Borestart	22.04.1997
Boreslutt	10.06.1997
Frigitt dato	10.06.1999
Publiseringsdato	24.09.2002
Opprinnelig formål	WILDCAT
Reklassifisert til brønnbane	9/2-B-3 H
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	SANDNES FM
2. nivå med hydrokarboner, alder	MIDDLE JURASSIC
2. nivå med hydrokarboner, formasjon	BRYNE FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	77.0
Totalt målt dybde (MD) [m RKB]	4099.0
Totalt vertikalt dybde (TVD) [m RKB]	3393.0
Maks inklinasjon [°]	50.9
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	BRYNE FM



Geodetisk datum	ED50
NS grader	57° 45' 15.15" N
ØV grader	4° 21' 21.75" E
NS UTM [m]	6402298.71
ØV UTM [m]	580703.80
UTM sone	31
NPDID for brønnbanen	3087

Brønnhistorie

General

The deviated well 9/2-7 S was drilled as an exploration well to identify the oil potential in the Beta Vest prospect on the Yme Field in PL 114. The well was drilled in the northern segment of the Beta Vest structure with the sandstones of the Sandnes Formation as the target horizon. The well was planned to be completed as an oil producer and be renamed to 9/2-B-3H.

Operations and results

Wildcat well 9/2-7 S was spudded with the semi-submersible installation "Byford Dolphin" on 22 April 1997 and drilled to a total depth of 4099 m (3369.7 m TVD MSL) in the Middle Jurassic Bryne Formation. It was drilled from slot 3 on the Yme Beta HOST template with an "S" shaped profile in order to drill vertically through the Sandnes Formation. The Sandnes S12 target was penetrated approximately 1757 m North North-West of the template, at an inclination of about 5 deg. A 7" liner was run over the reservoir section. The bottom section from 3923 m to TD was drilled with turbine and diamond bit. The well was drilled with seawater to 1192 m, with KCl polymer mud from 1192 m to 256 m, with ester-based Petrofree mud from 2576 m to 3867 m, and with Aquadrill glycol mud from 3867 m to TD. The well found oil all through the Sandnes Formation. The top of the Sandnes Formation was encountered at 3854 m (3125.6 m TVD MSL), with the top of the Sandnes Formation S11 reservoir sandstone at 3861,7 m (3133,3 m TVD MSL). The oil/water-contact was found in the Bryne Formation sandstones at 4067m MD (3337.9 m TVD MSL). Two cores were cut in the interval 3868 m - 3923 m in the Sandnes Formation. Two FMT fluid samples were taken at 3896 m in the Sandnes Formation oil zone. Exploration well 9/2-7 S was completed 10 June 1997 as an oil discovery and re-classified to development well 9/2-B-3 H.

Testing

No drill stem test was performed.

Borekjerter i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3868.0	3892.2	[m]
2	3892.8	3922.4	[m]

Total kjerneprøve lengde [m]	53.8
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Kjerner tilgjengelig for prøvetaking? YES

Kjernebilder



3868-3873m



3873-3878m



3878-3883m



3883-3888m



3888-3892m



3892-3897m



3897-3902m



3902-3907m



3907-3912m



3912-3917m



3917-3922m



3922-3923m

Palynologiske preparater i Sjøkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3681.0	[m]	DC	GEOSTR
3690.0	[m]	DC	GEOSTR
3699.0	[m]	DC	GEOSTR
3708.0	[m]	DC	GEOSTR
3717.0	[m]	DC	GEOSTR
3726.0	[m]	DC	GEOSTR
3735.0	[m]	DC	GEOSTR
3744.0	[m]	DC	GEOSTR
3753.0	[m]	DC	GEOSTR
3762.0	[m]	DC	GEOSTR
3771.0	[m]	DC	GEOSTR



3780.0	[m]	DC	GEOSTR
3789.0	[m]	DC	GEOSTR
3798.0	[m]	DC	GEOSTR
3807.0	[m]	DC	GEOSTR
3816.0	[m]	DC	GEOSTR
3825.0	[m]	DC	GEOSTR
3834.0	[m]	DC	GEOSTR
3843.0	[m]	DC	GEOSTR
3852.0	[m]	DC	GEOSTR
3861.0	[m]	DC	GEOSTR
3864.4	[m]	C	WESTL
3871.9	[m]	C	WESTL
3872.5	[m]	C	WESTL
3878.6	[m]	C	WESTL
3885.5	[m]	C	WESTL
3887.5	[m]	C	WESTL
3889.5	[m]	C	WESTL
3893.7	[m]	C	WESTL
3901.8	[m]	C	WESTL
3907.0	[m]	C	WESTL
3908.8	[m]	C	WESTL
3918.9	[m]	C	WESTL
3927.0	[m]	DC	GEOSTR
3936.0	[m]	DC	GEOSTR
3945.0	[m]	DC	GEOSTR
3954.0	[m]	DC	GEOSTR
3963.0	[m]	DC	GEOSTR
3972.0	[m]	DC	GEOSTR
3981.0	[m]	DC	GEOSTR
3990.0	[m]	DC	GEOSTR
3999.0	[m]	DC	GEOSTR
4008.0	[m]	DC	GEOSTR
4017.0	[m]	DC	GEOSTR
4026.0	[m]	DC	GEOSTR
4035.0	[m]	DC	GEOSTR
4044.0	[m]	DC	GEOSTR
4053.0	[m]	DC	GEOSTR
4062.0	[m]	DC	GEOSTR
4071.0	[m]	DC	GEOSTR
4080.0	[m]	DC	GEOSTR



4089.0	[m]	DC	GEOSTR
4095.0	[m]	DC	GEOSTR

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
102	NORDLAND GP
415	HORDALAND GP
945	ROGALAND GP
945	BALDER FM
980	SELE FM
1000	LISTA FM
1043	VÅLE FM
1057	SHETLAND GP
1057	EKOFISK FM
1117	TOR FM
1585	HOD FM
2105	BLODØKS FM
2180	CROMER KNOLL GP
2180	RØDBY FM
2203	SOLA FM
2362	ÅSGARD FM
3062	BOKNEFJORD GP
3062	FLEKKEFJORD FM
3182	SAUDA FM
3683	TAU FM
3784	EGERSUND FM
3854	VESTLAND GP
3854	SANDNES FM
3994	BRYNE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
3087	pdf	0.68





Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
3087_1	pdf	2.00
3087_2	pdf	0.58

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3087_9_2_7_S_COMPLETION_REPORT	pdf	15.36

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
FMT QUARTZDYNE CHT GR	3868	4067
MWD RES DIR GR	167	4099
ZDL CN MAC DPIL CHT GR	1185	3863
ZDL DLL MLL CN MAC CHT GR	3855	4086

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
SURF.COND.	30	162.0	36	163.0	0.00	LOT
CONDUCTOR	13 3/8	1185.0	17 1/2	1186.0	0.00	LOT
INTERM.	9 5/8	3857.0	12 1/4	3860.0	0.00	LOT
LINER	7	4099.0	8 1/2	4099.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
1192	1.39			SEAWATER/PAC	
1311	1.60	31.0		KCL/PAC/XANVIS	
1687	1.60	32.0		KCL/PAC/PHPA	
1868	1.39	29.0		KCL/PAC/PHPA	





1868	1.39	35.0		KCL/PAC/PHPA	
2169	1.57	45.0		KCL/PAC/PHPA	
2229	1.57	46.0		KCL/PAC/PHPA	
2440	1.57	42.0		KCL/PAC/PHPA	
2576	1.57	44.0		KCL/PAC/PHPA	
2576	1.57	45.0		PETROFREE	
2581	1.60			DUMMY	
2806	1.60	44.0		PETROFREE	
2978	1.60	44.0		PETROFREE	
3088	1.60	42.0		PETROFREE	
3475	1.60	40.0		PETROFREE	
3518	1.60	44.0		PETROFREE	
3723	1.60	39.0		PETROFREE	
3832	1.60	-462.0		PETROFREE	
3852	1.60	-461.0		PETROFREE	
3867	1.60	-461.0		PETROFREE	
3881	1.30	36.0		AQUACOL	
3893	1.30	35.0		KCL/PAC/XANVIS	
3913	1.30	37.0		AQUACOL	
3923	1.30	30.0		KCL/PAC/XANVIS	
4032	1.30	36.0		AQUACOL	
4099	1.30	39.0		AQUACOL	

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]
3087 Formation pressure (Formasjonstrykk)	PDF	0.22

