



Generell informasjon





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 19:02

Brønnbane navn	9/2-8 S
Type	EXPLORATION
Formål	WILDCAT
Status	RE-CLASS TO DEV
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	YME
Funn	9/2-1 Yme
Brønn navn	9/2-8
Seismisk lokalisering	ST9413- INLINE 866 & CROSSLINE 1296
Utvinningstillatelse	114
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	895-L
Boreinnretning	YME
Boredager	203
Borestart	24.06.1997
Boreslutt	02.02.1998
Frigitt dato	02.02.2000
Publiseringsdato	24.09.2002
Opprinnelig formål	WILDCAT
Reklassifisert til brønnbane	9/2-A-3
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	42.0
Vanndybde ved midlere havflate [m]	93.0
Totalt målt dybde (MD) [m RKB]	7584.0
Totalt vertikalt dybde (TVD) [m RKB]	3345.0
Maks inklinasjon [°]	99
Eldste penetrerte alder	LATE PERMIAN
Eldste penetrerte formasjon	ZECHSTEIN GP
Geodetisk datum	ED50
NS grader	57° 49' 7.58" N
ØV grader	4° 31' 11" E
NS UTM [m]	6409692.56
ØV UTM [m]	590282.87
UTM sone	31
NPDID for brønnbanen	3126



Brønnhistorie

General

Well 9/2-8 S was drilled from slot 3 of the Yme template. The well was planned as an exploration well, to identify the hydrocarbon potential of the Yme Epsilon East and West structures. The well design was based on flexibility to enable later completion as a production well if commercial reserves of oil were encountered. The Epsilon East and West structures are developed on the east and west sides of a salt diapir. The well was planned to drill down through the sequence on the east flank with the Sandnes Formation being the primary target. As a secondary target the well was planned to extend a further 1600 m into Epsilon West structure. This involved drilling through the base of the salt diapir and then up through the sequence within the western flank. The Epsilon East structure was recognized as a fairly well defined prospect, comprising of an eastward dipping tilted fault block. Complicated tectonism affecting the Epsilon West structure however, meant this could only have the status of a lead. The main uncertainties with respect to probability of discovery were considered as leakage/trap and source/migration.

Operations and results

Wildcat well 9/2-8 S was spudded from the seabed with the jack-up installation "Mærsk Giant" on 24 June 1997. At 5936 m the BHA became stuck while drilling the Sandnes Formation. The well was subsequently sidetracked to 9/2-8S T2 from 5680 m on the 4 October 1997. The T2 sidetrack was only drilled to 6011 m due to the BHA becoming stuck at 6002 m while pulling out of hole. A further sidetrack, 9/2-8S T3, was drilled from 5628.5 m, on 19 October 1997 and reached a TD of 7203 m on 16 December 1997. This sidetrack failed to penetrate the Vestland Group, passing from Zechstein salts of the faulted zone straight into the shales of the Tau Formation. As a result a final sidetrack, 9/2-8S T4, was started from 6144 m on 21 December 1997. This wellbore reached final TD at 7584 m in the Late Jurassic Egersund formation on 18 January 1998 after penetrating the uppermost Sandnes Formation. The Sandnes Formation proved to be dry and tight. Cores were taken in the original 9/2-8S well from 5842 m to 5926 m within the Sandnes reservoir on the Epsilon East structure. Oil shows were noted, but MWD logging indicated that the formation was water wet. A FMT fluid sample was taken in 9/2-8S T4 at 7397 m (Epsilon West structure). The plan was to complete the well with a 5" liner through the reservoir section, but as both structures were water wet, cement-plugs were set in the Epsilon West. The well was completed in the Epsilon East structure on 2 February 1998 as a dry well. It was subsequently re-classified to development well 9/2-A-3 and used as an injection well for gas produced from the Yme field.

Testing

No drill stem test was performed.

Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	5842.0	5869.3	[m]
2	5870.0	5876.5	[m]
3	5876.5	5898.6	[m]



4	5898.6	5927.0	[m]
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Total kjerneprøve lengde [m]	84.3
Kjerner tilgjengelig for prøvetaking?	YES

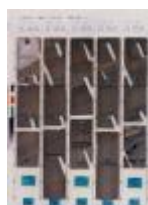
Kjernebilder



5842-5847m



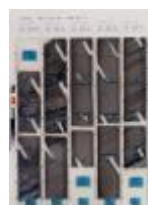
5847-5852m



5852-5857m



5857-5862m



5862-5867m



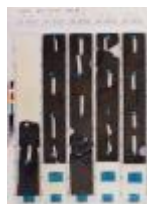
5867-5869m



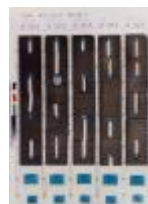
5870-5875m



5875-5876m



5876-5881m



5881-5886m



5886-5891m



5891-5896m



5896-5899m



5899-5903m



5903-5908m



5908-5913m



5913-5918m



5918-5923m



5923-5927m

Palynologiske preparater i Søkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
5690.0	[m]	DC	GEOSTR
5710.0	[m]	DC	GEOSTR



5729.0 [m]	DC	GEOSTR
5752.0 [m]	DC	GEOSTR
5769.0 [m]	DC	GEOSTR
5790.0 [m]	DC	GEOSTR
5808.0 [m]	DC	GEOSTR
5829.0 [m]	DC	GEOSTR
5841.0 [m]	DC	GEOSTR
5842.6 [m]	C	WESTL
5846.6 [m]	C	WESTL
5850.0 [m]	DC	GEOSTR
5851.5 [m]	C	WESTL
5859.0 [m]	DC	GEOSTR
5859.4 [m]	C	WESTL
5863.0 [m]	DC	GEOSTR
5866.8 [m]	C	WESTL
5868.9 [m]	C	WESTL
5877.0 [m]	DC	GEOSTR
5899.5 [m]	C	WESTL
5900.8 [m]	C	WESTL
5904.5 [m]	C	WESTL
5911.8 [m]	C	WESTL
5919.0 [m]	C	WESTL
5923.6 [m]	C	WESTL
5926.8 [m]	C	WESTL
5931.0 [m]	DC	GEOSTR
5995.6 [m]	C	WESTL

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
135	NORDLAND GP
540	HORDALAND GP
752	ROGALAND GP
752	BALDER FM
773	SELE FM
810	LISTA FM
838	VÅLE FM
850	SHETLAND GP
850	EKOFISK FM



886	TOR FM
1251	HOD FM
2132	BLODØKS FM
2257	CROMER KNOLL GP
2257	RØDBY FM
2290	SOLA FM
2572	ÅSGARD FM
4762	BOKNEFJORD GP
4762	FLEKKEFJORD FM
4995	SAUDA FM
5689	TAU FM
5769	EGERSUND FM
5823	VESTLAND GP
5823	SANDNES FM
5955	BRYNE FM
6023	ZECHSTEIN GP
7378	VESTLAND GP
7378	SANDNES FM
7420	EGERSUND FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
3126	pdf	0.52

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3126 9 2 8 S COMPLETION REPORT	pdf	22.64

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CNL ZDL HDIL MAC CHT GR	7378	7584
DGR EWR DIR	244	2286





DGR EWR PWD DIR	2286	6011
DGR EWR PWD DIR	6003	7378
DGR EWR SLD CN DIR	5700	6003
DPIL 6-CALI MAC CHT GR	2212	5636
FMT CHT GR	5836	5896
FMT CHT GR	7400	7394
SF-4 DIR	7279	7584

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	244.0	36	245.0	0.00	LOT
CONDUCTOR	20	847.0	26	850.0	0.00	LOT
INTERM.	13 3/8	2281.4	17 1/2	2283.0	0.00	LOT
INTERM.	9 5/8	5941.0	12 1/4	6011.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
59	1.64	41.0		PETROFREE	
189	1.03			SEAWATER/BENT.	
247	1.39			SEAWATER/BENT.	
300	1.03			SEAWATER/PAC	
400	1.03			SEAWATER/PAC	
820	1.03			SEAWATER/PAC	
853	1.03			DUMMY	
1330	1.30	30.0		SEAWATER/PAC	
1571	1.30	28.0		SEAWATER/PAC	
1740	1.30	31.0		SEAWATER/PAC	
1775	1.30	32.0		SEAWATER/PAC	
1856	1.30	35.0		SEAWATER/PAC	
2031	1.30	33.0		KCL/PAC/PHPA	
2190	1.03			DUMMY	
2249	1.30	32.0		KCL/PAC/PHPA	
2286	1.39	40.0		KCL/PAC/PHPA	
2286	1.39	40.0		KCL/PAC/PHPA	
2840	1.54	46.0		PETROFREE	



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3292	1.54	49.0	PETROFREE
3760	1.54	42.0	PETROFREE
3962	1.54		DUMMY
4021	1.54	48.0	PETROFREE
4316	1.54	44.0	PETROFREE
4671	1.54	41.0	PETROFREE
4957	1.60	44.0	PETROFREE
5274	1.60	44.0	PETROFREE
5300	1.60	45.0	PETROFREE
5332	1.60	41.0	PETROFREE
5560	1.60	33.0	PETROFREE
5667	1.64	42.0	PETROFREE
5680	1.64	42.0	PETROFREE
5714	1.67	42.0	PETROFREE
5717	1.64	39.0	PETROFREE
5730	1.64	45.0	PETROFREE
5741	1.64	36.0	PETROFREE
5788	1.64	39.0	PETROFREE
5842	1.67	42.0	PETROFREE
5854	1.64	40.0	PETROFREE
5866	1.64		DUMMY
5870	1.64	40.0	PETROFREE
5877	1.64	40.0	PETROFREE
5936	1.64	41.0	PETROFREE
5942	1.60	35.0	PETROFREE
5942	1.64	41.0	PETROFREE
6002	1.64	41.0	PETROFREE
6178	1.60	39.0	PETROFREE
6210	1.60	36.0	PETROFREE
6213	1.60	34.0	PETROFREE
6264	1.60	36.0	PETROFREE
6300	1.60	33.0	PETROFREE
6314	1.60	33.0	PETROFREE
6405	1.60	33.0	PETROFREE
6681	1.60	32.0	PETROFREE
6770	1.60	32.0	PETROFREE
6850	1.60	33.0	PETROFREE
6876	1.60	32.0	PETROFREE
6991	1.60	33.0	PETROFREE
7082	1.60	32.0	PETROFREE



7154	1.60	35.0		PETROFREE	
7157	1.60	32.0		PETROFREE	
7203	1.60	32.0		PETROFREE	
7203	1.60	32.0		PETROFREE	
7285	1.60	33.0		PETROFREE	
7378	1.60	31.0		PETROFREE	
7394	1.32	30.0		PETROFREE	
7584	1.32	24.0		PETROFREE	
7584	1.32	30.0		PETROFREE	

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 brønnspar. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
3126 Formation pressure (Formasjonstrykk)	PDF	0.21

