



Generell informasjon

Brønnbane navn	6507/7-13
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Pressemelding	lenke til pressemelding
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Felt	HEIDRUN
Funn	6507/7-13 (Alpha Horst)
Brønn navn	6507/7-13
Seismisk lokalisering	ST97 INLINE 1234& CROSSLINE 1435
Utvinningstillatelse	095
Boreoperatør	Norske Conoco A/S
Boretillatelse	991-L
Boreinnretning	MÆRSK JUTLANDER
Boredager	28
Borestart	12.12.2000
Boreslutt	08.01.2001
Frigitt dato	08.01.2003
Publiseringsdato	28.06.2007
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	YES
1. nivå med hydrokarboner, alder	EARLY JURASSIC
1. nivå med hydrokarboner, formasjon.	ÅRE FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	381.0
Totalt målt dybde (MD) [m RKB]	2623.0
Totalt vertikalt dybde (TVD) [m RKB]	2623.0
Maks inklinasjon [°]	1
Temperatur ved bunn av brønnbanen [°C]	87
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	ÅRE FM
Geodetisk datum	ED50



NS grader	65° 24' 4.53" N
ØV grader	7° 19' 49.2" E
NS UTM [m]	7254385.05
ØV UTM [m]	422450.33
UTM sone	32
NPDID for brønnbanen	4213

Brønnhistorie

General

Wildcat well 6507/7-13 is located on a horst structure on the flank of the Nordland Ridge, eight km north of the Heidrun Field installation. The primary objective was to test the hydrocarbon potential in sandstones of the Late Triassic/Early Jurassic Åre Formation. A sidetrack for coring was planned in the event of a hydrocarbon discovery.

Operations and results

Wildcat well 6507/7-13 was spudded with the semi-submersible installation Maersk Jutlander on 12 December 2000 and drilled to TD at 2623 m in Late Triassic sediments of the Åre Formation. The well was drilled with seawater/polymer down to 1062 m and with KCl/polymer/Barasilc mud from 1062 m to TD.

The Åre Formation was encountered at 2391, directly underlying the Cretaceous Kvitnos Formation. The hiatus spanned from Hettangian to Lower Santonian. The Åre Formation proved to contain hydrocarbon-bearing sandstones. A definite oil-water contact was not seen from resistivity data in the well due to coal, silt, and shale below oil-down-to observed at the base of a sand at 2492.5 m. A water-up-to level was assessed at 2505.7 m and MDT pressure data suggest an OWC near 2500 m.

Four runs with the MDT tool were made, acquiring pressure and fluid samples. Fluid samples were recovered from 2425 m (oil), 2427.5 m (oil), and 2540 m (water). All samples were of good quality.

The well bore was plugged back to the 9 5/8" casing at 2120 m and permanently abandoned on 8 January 2001 as an oil discovery. A sidetrack was prepared (6507/7-13 A) to obtain cores from the reservoir.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
1080.00	2623.00

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Søkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1080.0	[m]	DC	RRI
1110.0	[m]	DC	RRI
1140.0	[m]	DC	RRI
1170.0	[m]	DC	RRI
1200.0	[m]	DC	RRI
1220.0	[m]	DC	RRI
1260.0	[m]	DC	RRI
1290.0	[m]	DC	RRI
1320.0	[m]	DC	RRI
1350.0	[m]	DC	RRI
1380.0	[m]	DC	RRI
1410.0	[m]	DC	RRI
1440.0	[m]	DC	RRI
1470.0	[m]	DC	RRI
1510.0	[m]	DC	RRI
1540.0	[m]	DC	RRI
1560.0	[m]	DC	RRI
1600.0	[m]	DC	RRI
1630.0	[m]	DC	RRI
1660.0	[m]	DC	RRI
1700.0	[m]	DC	RRI
1720.0	[m]	DC	RRI
1760.0	[m]	DC	RRI
1780.0	[m]	DC	RRI
1800.0	[m]	DC	RRI
1820.0	[m]	DC	RRI
1850.0	[m]	DC	RRI
1870.0	[m]	DC	RRI
1890.0	[m]	DC	RRI
1920.0	[m]	DC	RRI
1940.0	[m]	DC	RRI
1960.0	[m]	DC	RRI
1980.0	[m]	DC	RRI
2000.0	[m]	DC	RRI
2020.0	[m]	DC	RRI
2040.0	[m]	DC	RRI
2060.0	[m]	DC	RRI
2080.0	[m]	DC	RRI



2100.0	[m]	DC	RRI
2128.0	[m]	DC	RRI
2155.0	[m]	DC	RRI
2190.0	[m]	DC	RRI
2210.0	[m]	DC	RRI
2240.0	[m]	DC	RRI
2250.0	[m]	DC	RRI
2260.0	[m]	DC	RRI
2270.0	[m]	DC	RRI
2280.0	[m]	DC	RRI
2290.0	[m]	DC	RRI
2300.0	[m]	DC	RRI
2310.0	[m]	DC	RRI
2320.0	[m]	DC	RRI
2330.0	[m]	DC	RRI
2340.0	[m]	DC	RRI
2350.0	[m]	DC	RRI
2355.0	[m]	DC	RRI
2370.0	[m]	DC	RRI
2380.0	[m]	DC	RRI
2390.0	[m]	DC	RRI
2400.0	[m]	DC	RRI
2410.0	[m]	DC	RRI
2422.0	[m]	DC	RRI
2431.0	[m]	DC	RRI
2440.0	[m]	DC	RRI
2446.0	[m]	DC	RRI
2464.0	[m]	DC	RRI
2476.0	[m]	DC	RRI
2488.0	[m]	DC	RRI
2494.0	[m]	DC	RRI
2500.0	[m]	DC	RRI
2509.0	[m]	DC	RRI
2524.0	[m]	DC	RRI
2530.0	[m]	DC	RRI
2536.0	[m]	DC	RRI
2548.0	[m]	DC	RRI
2557.0	[m]	DC	RRI
2566.0	[m]	DC	RRI
2578.0	[m]	DC	RRI



2590.0	[m]	DC	RRI
2599.0	[m]	DC	RRI
2608.0	[m]	DC	RRI
2617.0	[m]	DC	RRI
2623.0	[m]	DC	RRI

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
404	NORDLAND GP
404	NAUST FM
1485	KAI FM
1842	HORDALAND GP
1842	BRYGGE FM
1990	ROGALAND GP
1990	TARE FM
2020	TANG FM
2080	SHETLAND GP
2080	SPRINGAR FM
2146	NISE FM
2256	KVITNOS FM
2391	BÅT GP
2391	ÅRE FM

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
4213_1	pdf	1.43

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
4213_6507_7_13_COMPLETION_LOG	.pdf	1.91
4213_6507_7_13_COMPLETION_REPORT	.pdf	12.70





Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DSI GPIT NGS EMS	2122	2577
LWD - GR RES DEN NEU DIR	2128	2621
LWD - GR RES DIR	468	2128
MDT GR	2405	2410
MDT GR	2411	2574
MDT GR	2428	2481
MDT GR	2481	2483
VSP	1090	2600

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	465.0	36	466.0	0.00	LOT
SURF.COND.	13 3/8	1065.0	17 1/2	1066.0	1.57	LOT
INTERM.	9 5/8	2120.0	12 1/4	2122.0	1.89	LOT
OPEN HOLE		2623.0	8 1/2	2623.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
404	1.05			SPUD MUD	
468	1.05			SPUD MUD	
1180	1.34	19.0		LOW SOLIDS	
1930	1.46	23.0		LOW SOLIDS	
2128	1.43	22.0		LOW SOLIDS	
2414	1.39	25.0		LOW SOLIDS	
2623	1.39	25.0		LOW SOLIDS	

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]
4213 Formation pressure (Formasjonstrykk)	pdf	0.27

