



Generell informasjon

Brønnbane navn	6508/5-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6508/5-1
Seismisk lokalisering	86 - 122 SP. 595
Utvinningstillatelse	125
Boreoperatør	A/S Norske Shell
Boretillatelse	542-L
Boreinnretning	WEST VANGUARD
Boredager	33
Borestart	22.04.1987
Boreslutt	24.05.1987
Frigitt dato	24.05.1989
Publiseringssdato	30.06.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	411.0
Totalt målt dybde (MD) [m RKB]	2586.0
Totalt vertikalt dybde (TVD) [m RKB]	2586.0
Maks inklinasjon [°]	1.8
Temperatur ved bunn av brønnbanen [°C]	66
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	RED BEDS (INFORMAL)
Geodetisk datum	ED50
NS grader	65° 42' 51.22" N
ØV grader	8° 28' 35.37" E
NS UTM [m]	7288341.64
ØV UTM [m]	475973.17
UTM sone	32
NPID for brønnbanen	1044



Brønnhistorie

General

Well 6508/5-1 was drilled on a structure located in the western part of the Helgeland Basin off shore Mid Norway. The primary target was sandstone of the Early/Middle Jurassic Ile Formation. The Tilje Formation was a secondary target in the case of a shaled out Early/Middle Jurassic sequence acting as a seal.

Operations and results

Wildcat well 6508/5-1 was spudded with the semi-submersible installation West Vanguard on 22 April 1987 and drilled to TD at 2589 m in the Triassic Red Beds. The hole was drilled without significant problems and without any signs of shallow gas. It was drilled with seawater and gel down to 961 m, and with KCl/polymer mud from 961 m to TD.

The top prospect was encountered at 1778 m and cored. The cored section exhibited excellent porosities with an average of 32% and permeabilities of generally several hundreds of mD to tens of Darcies. From petrophysical log evaluation the whole of Ile Formation had a net to gross of 64% and the same porosity average as in the cored section using a 15% porosity cut off. The Tilje Formation also possessed excellent reservoir characteristics. Reservoir characteristics remained good in the Åre Formation and Red Beds with an average of 25% porosity at around 2500 m. Unfortunately there were no signs of hydrocarbons on the logs and no shows were recorded in any part of the well, except for cut fluorescence in sidewall cores in claystones from the Spekk and upper Melke Formations. The RFT tool was run from 1786 m in the Ile Formation to 2542m in the Red Beds with 13 pressure points acquired. A clear water gradient of 1.013 g/cm³ was established. Post-well organic geochemical analyses included in the well completion reports only partly considered migrated hydrocarbons/shows, but from rock-eval PI data the lack of shows were confirmed. These analyses also proved excellent source rock potential in the Spekk Formation, although more gas-prone than further to the west and south on Mid Norway. Coals of the Åre Formation were present with potential for gas. The well section was however immature for any petroleum generation all through. One conventional core was cut in the Ile Formation from 1786 m to 1804 m. No attempts were made to take fluid samples.

The well was permanently abandoned on 24 may 1987 as a dry hole.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
980.00	2586.00
Borekaks tilgjengelig for prøvetaking?	YES



Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1786.0	1798.2	[m]

Total kjerneprøve lengde [m]	12.2
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



1786-1791m 1791-1795m 1791-1796m 1796-1798m

Palyologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1120.0	[m]	DC	OD
1130.0	[m]	DC	OD
1140.0	[m]	DC	OD
1150.0	[m]	DC	OD
1160.0	[m]	DC	OD
1170.0	[m]	DC	OD
1180.0	[m]	DC	OD
1190.0	[m]	DC	OD
1200.0	[m]	DC	OD
1210.0	[m]	DC	OD
1220.0	[m]	DC	OD
1230.0	[m]	DC	OD
1240.0	[m]	DC	OD
1250.0	[m]	DC	OD
1260.0	[m]	DC	OD
1270.0	[m]	DC	OD
1280.0	[m]	DC	OD
1290.0	[m]	DC	OD



1300.0	[m]	DC	OD
1310.0	[m]	DC	OD
1320.0	[m]	DC	OD
1330.0	[m]	DC	OD
1340.0	[m]	DC	OD
1350.0	[m]	DC	OD
1360.0	[m]	DC	OD
1370.0	[m]	DC	OD
1380.0	[m]	DC	OD
1390.0	[m]	DC	OD
1400.0	[m]	DC	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
433	NORDLAND GP
1163	HORDALAND GP
1163	BRYGGE FM
1427	ROGALAND GP
1427	TARE FM
1476	TANG FM
1527	CROMER KNOLL GP
1527	LANGE FM
1562	LYR FM
1580	VIKING GP
1580	SPEKK FM
1650	MELKE FM
1710	FANGST GP
1710	NOT FM
1778	ILE FM
1824	BÅT GP
1824	TILJE FM
1981	ÅRE FM
2229	RED BEDS (INFORMAL)

Spleisede logger





Dokument navn	Dokument format	Dokument størrelse [KB]
1044	pdf	0.38

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1044_1	pdf	1.83
1044_2	pdf	2.58

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1044_01_WDSS_General_Information	pdf	0.35
1044_02_WDSS_completion_log	pdf	0.23

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1044_01_Completion_report	pdf	4.14
1044_02_Completion_log	pdf	6.15
1044_01_Encl_1	pdf	0.83
1044_01_Encl_2	pdf	0.75
1044_01_Encl_3	pdf	2.63

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL	700	15185
ISF LSS GR	519	972
ISF LSS GR	961	1603
ISF LSS GR MSFL	1590	2580
LDL CNL GR	519	975
LDL CNL GR NGT	1590	2580
LDL CNL NGL	961	1605
RFT	1786	2542





Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 17.5.2024 - 02:11

SAT	450	2575
SHDT	1590	2581
SWS	0	0

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	519.0	36	677.0	0.00	LOT
SURF.COND.	20	960.0	26	975.0	1.50	LOT
INTERM.	13 3/8	1589.0	17 1/2	1603.0	1.62	LOT
OPEN HOLE		2586.0	12 1/4	2586.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
457	1.03			WATER BASED	25.05.1987
1855	1.28	17.0	14.0	WATER BASED	25.05.1987
2586	1.28	16.0	14.0	WATER BASED	21.05.1987
2586	1.28	16.0	14.0	WATER BASED	21.05.1987

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]
1044 Formation pressure (Formasjonstrykk)	pdf	0.28

