Generell informasjon

Brønnbane navn	6507/6-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6507/6-1
Seismisk lokalisering	NRGS - 84 - 429 & SP. 2235
Utvinningstillatelse	123
Boreoperatør	Saga Petroleum ASA
Boretillatelse	517-L
Boreinnretning	TREASURE SAGA
Boredager	70
Borestart	15.06.1986
Boreslutt	23.08.1986
Frigitt dato	23.08.1988
Publiseringsdato	08.03.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	26.0
Vanndybde ved midlere havflate [m]	419.0
Totalt målt dybde (MD) [m RKB]	4040.0
Totalt vertikalt dybde (TVD) [m RKB]	4039.0
Maks inklinasjon [°]	4.1
Temperatur ved bunn av brønnbanen [°C]	116
Eldste penetrerte alder	EARLY TRIASSIC
Eldste penetrerte formasjon	NO FORMAL NAME
Geodetisk datum	ED50
NS grader	65° 36' 37.59'' N
ØV grader	7° 43' 43.04'' E
NS UTM [m]	7277265.27
ØV UTM [m]	441417.85
UTM sone	32
NPDID for brønnbanen	910

Brønnhistorie

General

Well 6507/6-1 was drilled close to the highest point of the main structure in the block. The prospect is defined at the Late Kimmerian Unconformity along the crest of the NNE-SSW striking Nordland Ridge. The primary objective of the well was to test the hydrocarbon potential and reservoir quality in the main structure. In addition the well was expected to obtain stratigraphic information of a complete Triassic sequence.

The prognosed depth was 4030 m.

Operations and results

Wildcat well 6507/6-1 was spudded with Wi1h. Wi1helmsen Offshore Services semi-submersible installation Treasure Saga 15 June 1986 and drilled to TD at 4040 m in Early Triassic rocks. The well was drilled with spud mud to 584 m, with gel mud from 584 m to 975 m, with Gypsum/Polymer mud from 975 m to 1611 m, with NaCl saturated mud from 1611 m to 3165 m, and with a gel mud again from 3165 m to TD. Drilling proceeded without significant problems.

The larger part of Tertiary, the whole Cretaceous sequence, and most of the Jurassic was missing in the well. Late Pliocene sediments were found to rest directly on Early Jurassic sediments. The top of the reservoir (Åre Formation) came in at 1018 m. It contained 7 m of methane bearing sandstone. The gas water contact was estimated at 1030 m. The Triassic grey beds came in at 1376 m. Apart from a weak cut fluorescence at 1032 m on a core from the Åre Formation no show was recorded throughout the well. Two cores were cut in the interval 1023 m to 1056 m in the Åre fm. and two cores were cut further down in the intervals 3041 m to 3045.2 m (Middle to Early Triassic) and 3995 m to 4013.2 m (Early Triassic). A FMT segregated sample was taken at 1028 m. It contained no oil, only gas close to 99% methane with traces of other constituent gasses including heavier hydrocarbon gases. A total of 265 sidewall cores were recovered, of which 213 were taken in Triassic rocks.

The well was plugged and abandoned completed 23 August 1986 as a dry hole.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
630.00	4038.00

Borekaks tilgjengelig for prøvetaking?	NO

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	1023.0	1040.8	[m]
2	1045.0	1056.0	[m]
3	3041.0	3045.2	[m]
4	3995.0	4013.2	[m]

Total kjerneprøve lengde [m]	51.2
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
940.0	[m]	DC	RRI
960.0	[m]	DC	RRI
1023.0	[m]	C	RRI
1024.0	[m]	C	RRI
1025.9	[m]	C	RRI
1032.0	[m]	C	RRI
1040.0	[m]	C	RRI
1040.8	[m]	C	RRI
1050.0	[m]	C	RRI
1053.3	[m]	C	RRI
1056.0	[m]	C	RRI
1089.0	[m]	DC	RRI
1173.0	[m]	DC	RRI
1191.0	[m]	DC	RRI
1209.0	[m]	DC	RRI
1227.0	[m]	DC	RRI
1242.0	[m]	DC	RRI
1254.0	[m]	DC	RRI
1266.0	[m]	DC	RRI
1290.0	[m]	DC	RRI
1308.0	[m]	DC	RRI
1326.0	[m]	DC	RRI
1338.0	[m]	DC	RRI
1350.0	[m]	DC	RRI
1356.0	[m]	DC	RRI
1371.0	[m]	DC	RRI

1377.0	[m]	DC	RRI
1395.0	[m]	DC	RRI
1413.0	[m]	DC	RRI
1431.0	[m]	DC	RRI
1449.0	[m]	DC	RRI
1458.0	[m]	DC	RRI
1476.0	[m]	DC	RRI
1494.0	[m]	DC	RRI
1512.0	[m]	DC	RRI
1530.0	[m]	DC	RRI
1548.0	[m]	DC	RRI
1551.0	[m]	DC	RRI

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
445	NORDLAND GP
445	NAUST FM
1013	BÅT GP
1013	ÅRE FM
1307	GREY BEDS (INFORMAL)
1425	RED BEDS (INFORMAL)
1754	NO FORMAL NAME
2020	NO FORMAL NAME
2768	NO FORMAL NAME
3063	NO FORMAL NAME
3429	NO FORMAL NAME

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
910	pdf	0.64

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
910_1	pdf	2.06

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
910_01_WDSS_General_Information	pdf	0.24
910_02_WDSS_completion_log	pdf	0.30

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
910_6507_6_1_COMPLETION_REPORT_AND_LOG	pdf	13.52

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CDL CNL GR	2212	3161
CDL CNL GR	3146	4040
CDL CNL SPECTRA	956	1406
CDL LSBHC GR	1350	2220
COREGUN	617	974
COREGUN	1023	1069
COREGUN	3041	3056
COREGUN	3995	4013
DIFL LSBHC CDL GR CAL	617	974
DIFL LSBHC GR CAL	956	1404
DIFL LSBHC GR CAL	3146	4040
DIPLOG GR	956	1397
DIPLOG GR	1350	2221
DIPLOG GR	2212	3161
DIPLOG GR	3146	4040
DLL GR	1350	2222
DLL GR	2212	3163
FMT	1018	1377

FMT	1018	1038
LSBHC GR	2212	3158
MWD - GR RES	617	4037
VSP	422	1410
VSP	650	4024

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	616.0	36	622.0	1.26	LOT
SURF.COND.	20	959.0	26	975.0	1.61	LOT
INTERM.	13 3/8	2214.0	17 1/2	2224.0	1.73	LOT
INTERM.	9 5/8	3150.0	12 1/4	3165.0	2.04	LOT
OPEN HOLE		4040.0	8 1/2	4040.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
584	1.03			WATER BASED	17.06.1986
616	1.03			WATER BASED	18.06.1986
627	1.10	24.0	5.8	WATER BASED	19.06.1986
975	1.15	8.0	21.1	WATER BASED	23.06.1986
975	1.20	8.0	18.2	WATER BASED	23.06.1986
975	1.30	17.0	11.5	WATER BASED	24.06.1986
975	1.12	7.0	16.8	WATER BASED	19.06.1986
975	1.20			WATER BASED	24.06.1986
1017	1.15	11.0	6.8	WATER BASED	24.06.1986
1018	1.15	16.0	9.1	WATER BASED	25.06.1986
1018	1.32	17.0	8.7	WATER BASED	30.06.1986
1018	1.39	20.0	9.1	WATER BASED	30.06.1986
1018	1.38	21.0	9.1	WATER BASED	07.07.1986
1018	1.20	18.0	9.6	WATER BASED	30.06.1986
1026	1.50	18.0	10.6	WATER BASED	25.06.1986
1095	1.20			WATER BASED	21.08.1986
1716	1.39	20.0	9.6	WATER BASED	07.07.1986
1745	1.38	22.0	9.6	WATER BASED	07.07.1986
1767	1.39	20.0	9.6	WATER BASED	07.07.1986

1844	1.40	23.0	9.6	WATER BASED	07.07.1986
1980	1.37	20.0	9.1	WATER BASED	07.07.1986
2013	1.37	20.0	10.1	WATER BASED	14.07.1986
2172	1.37	20.0	8.2	WATER BASED	14.07.1986
2214	1.20	19.0	7.2	WATER BASED	31.07.1986
2214	1.20	21.0	7.7	WATER BASED	31.07.1986
2224	1.38	23.0	9.1	WATER BASED	14.07.1986
2224	1.38	21.0	9.6	WATER BASED	14.07.1986
2224	1.38	19.0	5.8	WATER BASED	14.07.1986
2224	1.38	21.0	4.8	WATER BASED	14.07.1986
2224	1.38	18.0	7.2	WATER BASED	21.07.1986
2224	1.38	22.0	8.7	WATER BASED	21.07.1986
2400	1.38	23.0	10.1	WATER BASED	14.07.1986
2423	1.35	18.0	7.2	WATER BASED	21.07.1986
2424	1.35	18.0	7.2	WATER BASED	21.07.1986
2605	1.35	20.0	7.2	WATER BASED	21.07.1986
2891	1.35	19.0	7.2	WATER BASED	21.07.1986
2946	1.35	20.0	7.2	WATER BASED	21.07.1986
3000	1.20			WATER BASED	19.08.1986
3041	1.36	19.0	7.2	WATER BASED	28.07.1986
3052	1.36	19.0	7.2	WATER BASED	28.07.1986
3052	1.36	19.0	7.2	WATER BASED	28.07.1986
3120	1.36	18.0	7.2	WATER BASED	28.07.1986
3150	1.20	16.0	7.7	WATER BASED	04.08.1986
3165	1.36	18.0	7.2	WATER BASED	28.07.1986
3165	1.35	17.0	6.3	WATER BASED	28.07.1986
3165	1.32	14.0	5.8	WATER BASED	28.07.1986
3165	1.32	14.0	5.8	WATER BASED	31.07.1986
3221	1.20	14.0	6.8	WATER BASED	31.07.1986
3335	1.20	16.0	7.2	WATER BASED	04.08.1986
3386	1.20	16.0	5.8	WATER BASED	04.08.1986
3447	1.20	16.0	6.8	WATER BASED	05.08.1986
3560	1.20	16.0	6.3	WATER BASED	06.08.1986
3611	1.20	16.0	5.8	WATER BASED	06.08.1986
3621	1.23	14.0	6.3	WATER BASED	07.08.1986
3704	1.20	16.0	5.8	WATER BASED	11.08.1986
3793	1.20	17.0	6.3	WATER BASED	11.08.1986
3822	1.20	16.0	6.3	WATER BASED	12.08.1986
3863	1.20	17.0	6.8	WATER BASED	12.08.1986
3934	1.20	18.0	6.8	WATER BASED	13.08.1986

3984	1.20	18.0	6.3	WATER BASED	13.08.1986
3995	1.20	18.0	6.3	WATER BASED	14.08.1986
4013	1.20	18.0	5.8	WATER BASED	18.08.1986
4040	1.20	18.0	5.3	WATER BASED	17.08.1986
4040	1.20	18.0	5.3	WATER BASED	18.08.1986

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]
910_Formation_pressure_(Formasjonstrykk)	pdf	0.28