



Generell informasjon

Brønnbane navn	6507/12-2
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6507/12-2
Seismisk lokalisering	X SG 8045-252 + SG 8045-483.
Utvinningstillatelse	059
Boreoperatør	Saga Petroleum ASA
Boretillatelse	289-L
Boreinnretning	BYFORD DOLPHIN
Boredager	169
Borestart	09.06.1981
Boreslutt	24.11.1981
Frigitt dato	24.11.1983
Publiseringsdato	29.06.2004
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	261.0
Totalt målt dybde (MD) [m RKB]	5008.0
Temperatur ved bunn av brønnbanen [°C]	152
Eldste penetrerte alder	MIDDLE TRIASSIC
Eldste penetrerte formasjon	RED BEDS (INFORMAL)
Geodetisk datum	ED50
NS grader	65° 11' 48.9" N
ØV grader	7° 51' 35.41" E
NS UTM [m]	7231064.18
ØV UTM [m]	446629.36
UTM sone	32
NPDID for brønnbanen	437



Brønnhistorie

General

The purpose of drilling the second exploration well offshore Mid-Norway was to test the whole stratigraphic sequence between the seabed and 5000 m or basement whichever came first, as specified in the licence agreement,

Vertical closures near base Jurassic, top Lower Triassic, and a possible Permian marker represented the primary targets. Any horizon below the mapped Near Base Jurassic reflector would, according to Saga's interpretation, also be closed and thus represent a possible trap.

Operations and results

Well 6507/12-2 was spudded with the semi-submersible installation Byford Dolphin on 9 June 1981 and drilled to TD at 5008 m in the Triassic Red Beds. When pulling out of hole after drilling the 17 1/2" to 1005 m a shallow gas kick was taken. The drill string got stuck in the 8 1/2" section at 3620 and could not be freed. The well had to be plugged back and sidetracked from 3347 m. The well was drilled with sea water and gel down to 354 m, with gel/gypsum mud from 354 m to 1005 m, with PAC/polymer/gypsum mud from 1005 m to 2522 m, and with salt saturated lignite mud from 2522 m to TD.

The well turned out to be dry except for traces of hydrocarbons in a few minor sand-streaks in the Upper Triassic Red Bed sequence. Correlation to the well 6507/12-1 demonstrated generally that all the layers were thinning towards the hinge of the platform. In the Triassic, two significant salt units were encountered, with a total thickness of 800 m, separated by more than 500 m claystones/shales. Two cores were cut. The first was cut from 1929.3 m to 1947.3 m, but nothing was recovered on the rig. The second was cut from 4975 m to 4985 m with 92% recovered. The FIT-samples were attempted through the liner and the 9 5/8" casing at two levels (3010 m and 3002 m), but build up pressure was not achieved. The fluid sample recoveries were respectively 560cc and 550cc, both composed predominantly of mud filtrate.

The well was permanently abandoned on 26 November 1981 as a dry well with shows.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
360.00	4449.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerner i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
2	4975.0	4984.2	[m]

Total kjerneprøve lengde [m]	9.2
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



4975-4980m



4981-4984m

Palynologiske preparater i Sjøkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1570.0	[m]	DC	OD
2016.0	[m]	SWC	SNEA
2023.0	[m]	SWC	SNEA
2053.0	[m]	SWC	SNEA
2071.0	[m]	SWC	SNEA
2104.0	[m]	SWC	SNEA
2183.0	[m]	SWC	SNEA
2310.0	[m]	SWC	SNEA
2351.0	[m]	SWC	SNEA
2400.0	[m]	DC	OD
2420.0	[m]	DC	OD
2440.0	[m]	DC	OD
2442.0	[m]	SWC	SNEA
2460.0	[m]	DC	OD
2480.0	[m]	DC	OD
2482.0	[m]	SWC	SNEA
2500.0	[m]	DC	OD
2520.0	[m]	DC	OD
2541.0	[m]	DC	OD



2559.0	[m]	DC	OD
2589.0	[m]	DC	OD
2610.0	[m]	DC	OD
2631.0	[m]	DC	OD
2652.0	[m]	DC	OD
2670.0	[m]	DC	OD
2691.0	[m]	DC	OD
2709.0	[m]	DC	DC
2733.0	[m]	DC	OD
2751.0	[m]	DC	OD
2769.0	[m]	DC	OD
2790.0	[m]	DC	OD
2811.0	[m]	DC	OD
2829.0	[m]	DC	OD
2850.0	[m]	DC	OD
2868.0	[m]	DC	OD
2889.0	[m]	DC	OD
2910.0	[m]	DC	OD
2931.0	[m]	DC	OD
2949.0	[m]	DC	OD
2970.0	[m]	DC	OD
2990.0	[m]	SWC	PAES
2991.0	[m]	DC	OD
3009.0	[m]	DC	OD
3030.0	[m]	DC	OD
3051.0	[m]	DC	OD
3069.0	[m]	DC	OD
3090.0	[m]	DC	OD
3111.0	[m]	DC	OD
3127.2	[m]	SWC	PAES
3129.0	[m]	DC	OD
3147.0	[m]	DC	OD
3168.0	[m]	DC	OD
3189.0	[m]	DC	OD
3210.0	[m]	DC	OD
3234.0	[m]	DC	OD
3252.0	[m]	DC	OD
3270.0	[m]	SWC	PAES
3273.0	[m]	DC	OD
3291.0	[m]	DC	OD



3305.0	[m]	SWC	PAES
3307.0	[m]	DC	OD
3330.0	[m]	DC	OD
3351.0	[m]	DC	OD
3360.0	[m]	SWC	PAES
3369.0	[m]	DC	OD
3390.0	[m]	DC	OD
3411.0	[m]	DC	OD
3429.0	[m]	DC	OD
3435.0	[m]	SWC	PAES
3447.5	[m]	SWC	PAES
3450.0	[m]	DC	OD
3471.0	[m]	DC	OD
3476.0	[m]	SWC	PAES
3489.0	[m]	DC	OD
3501.0	[m]	DC	OD
4278.0	[m]	SWC	SNEA
4526.0	[m]	SWC	SNEA
4794.0	[m]	SWC	PAES
4823.0	[m]	SWC	SNEA
4825.0	[m]	SWC	PAES
4860.0	[m]	SWC	PAES
4890.0	[m]	SWC	PAES
4916.0	[m]	SWC	PAES
4935.0	[m]	SWC	PAES
4962.0	[m]	SWC	PAES
5005.0	[m]	SWC	PAES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
286	NORDLAND GP
286	NAUST FM
1020	KAI FM
1305	HORDALAND GP
1305	BRYGGE FM
1717	ROGALAND GP
1717	TARE FM
1783	TANG FM



1818	SHETLAND GP
1818	SPRINGAR FM
1872	VIKING GP
1872	SPEKK FM
1878	MELKE FM
1922	FANGST GP
1922	GARN FM
2007	BÅT GP
2007	ROR FM
2076	TILJE FM
2193	ÅRE FM
2605	GREY BEDS (INFORMAL)
2727	RED BEDS (INFORMAL)

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
437	pdf	1.00

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
437_1	pdf	4.86
437_2 GEOCHEMICAL EVALUATION OF SAG A WELL6507 12 2APPENDIX	pdf	1.26
437_3 GEOCHEMICAL EVALUATION OF SAG A WELL6507 12 2	pdf	5.66
437_4 PETROLEUM GEOCHEMISTRY REPORT FOR 6507 12 2	pdf	1.24
437_5 MATURATION STUDY USING VITRINITE REFLECTANCE FOR WELL6507 12 2	pdf	0.57
437_6 GEOCHEMICAL STUDY OF ORGANIC MATTER IN-WELL 6507 12 2	pdf	0.59

Dokumenter - eldre Sjøkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
437_01 WDSS General Information	pdf	0.10





437 02 WDSS completion log	pdf	0.27
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Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
437 6507 12 2 COMPLETION REPORT AND LOG	pdf	14.56

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
BGT	3347	3972
CBL VDL	287	2500
CBL VDL GR	1350	3570
CST	1513	2493
CST	2505	3526
CST	3550	4528
CST	4788	5005
DLL MSFL GR	3347	4528
DLT MSFL GR	4555	5003
FDC CNL GR	988	2506
FDC CNL GR	3447	4558
FIT	3002	0
FIT	3010	0
HDT	988	5008
ISF BHC GR	988	2506
ISF BHC GR	3347	5007
ISF BHC MSFL GR	2500	3616
ISF LSS GR	345	1002
LDT CNL GR	2500	3617
LDT CNL GR	4555	5003
RFT	1948	2489
RFT	2571	3290
VSP/WST	560	3561
VSP/WST	3323	5005
WST	288	2502





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	353.5	36	355.0	0.00	LOT
SURF.COND.	20	992.0	26	1005.0	1.48	LOT
INTERM.	13 3/8	2504.0	17 1/2	2522.0	1.70	LOT
INTERM.	9 5/8	3616.0	12 1/4	3633.0	2.05	LOT
LINER	7	4551.0	8 1/2	4554.0	2.04	LOT
OPEN HOLE		5008.0	5 7/8	5008.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
730	1.13	42.0		water based	
1380	1.14	54.0		water based	
1920	1.15	48.0		water based	
2615	1.15	53.0		water based	
2910	1.16	48.0		water based	
3600	1.31	56.0		water based	
3720	1.69	102.0		water based	
3900	1.66	68.0		water based	
4510	1.65	60.0		water based	
4990	1.63	70.0		water based	

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]
437 Formation pressure (Formasjonstrykk)	pdf	0.28

