



Generell informasjon

Brønnbane navn	6406/6-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6406/6-1
Seismisk lokalisering	HBGS 83 - 462 SP. 1389
Utvinningstillatelse	105
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	479-L
Boreinnretning	DYVI STENA
Boredager	138
Borestart	15.08.1985
Boreslutt	30.12.1985
Frigitt dato	30.12.1987
Publiseringsdato	28.06.2007
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	243.0
Totalt målt dybde (MD) [m RKB]	4715.0
Totalt vertikalt dybde (TVD) [m RKB]	4708.0
Maks inklinasjon [°]	10.1
Eldste penetrerte alder	EARLY JURASSIC
Eldste penetrerte formasjon	TILJE FM
Geodetisk datum	ED50
NS grader	64° 43' 48.23" N
ØV grader	6° 42' 14.69" E
NS UTM [m]	7180531.71
ØV UTM [m]	390653.80
UTM sone	32
NPDID for brønnbanen	486



Brønnhistorie

General

Well 6406/6-1 was drilled on the Eta structure in the northwest corner of a block located just south of the Trestakk and Smørbukk discoveries. The main objective was hydrocarbon accumulations in Middle Jurassic sandstones. The second objective was Early Jurassic sandstone. Total depth was to be in rocks of Triassic age in order to satisfy the licence commitment.

Operations and results

Well 6406/6-1 was spudded with the semi-submersible installation Dyvi Stena on 15 August 1985 and drilled to TD at 4715 m in the Early Jurassic Tilje Formation. While setting the 9 5/8" casing several problems occurred, starting with difficulties in setting and testing the seal assembly, followed by leakage of the failsafe valves and failure of the BOP acoustic system. This resulted in a total loss of 28 days. The drilling proceeded to 4715 m, and the 7 m liner was run to 4696 m. Further problems, loss of several pieces of equipment in the hole and evaluation of the logs, resulted in the NPD approving the operators request to plug the hole 460 meter short of the prognosed depth. The well was drilled with seawater and hi-vis pills down to 333 m, with gel/seawater from 333 m to 965 m, with gypsum/lignosulphonate mud from 965 m to 4165 m, and with lignite/lignosulphonate from 4165 m to TD.

Traces of hydrocarbons were indicated at ca 3900 m in thin beds of sand stone of Early Cretaceous age. Sandstones were encountered in the Early - Middle Jurassic (Garn IIe and Tofte Formations). No hydrocarbons were observed in the Garn Formation. Weak oil shows were seen in the IIe and Tofte sandstones.

Only one core was cut in the top of the Garn (former Tomma I) Formation. RFT sampling was attempted but all samples failed to recover formation fluid either due to plugging or to seal failure.

The well was permanently abandoned on 30 December 1985 as a dry well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
340.00	4711.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet



Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4211.0	4238.6	[m]

Total kjerneprøve lengde [m]	27.6
Kjerner tilgjengelig for prøvetaking?	YES

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2400.0	[m]	DC	STRAT
2410.0	[m]	DC	STRAT
2430.0	[m]	DC	STRAT
2440.0	[m]	DC	STRAT
2460.0	[m]	DC	STRAT
2470.0	[m]	DC	STRAT
2475.0	[m]	SWC	STRAT
2490.0	[m]	DC	STRAT
2500.0	[m]	DC	STRAT
2518.0	[m]	DC	STRAT
2536.0	[m]	DC	STRAT
2554.0	[m]	DC	STRAT
2572.0	[m]	DC	STRAT
2587.0	[m]	DC	STRAT
2600.0	[m]	SWC	STRAT
2602.0	[m]	DC	STRAT
2617.0	[m]	DC	STRAT
2635.0	[m]	DC	STRAT
2644.0	[m]	DC	STRAT
2662.0	[m]	DC	STRAT
2671.0	[m]	DC	STRAT
2689.0	[m]	DC	STRAT
2692.0	[m]	SWC	STRAT
2698.0	[m]	DC	STRAT
2716.0	[m]	DC	STRAT
2734.0	[m]	DC	STRAT
2746.0	[m]	DC	STRAT
2761.0	[m]	DC	STRAT
2776.0	[m]	DC	STRAT



2778.0	[m]	SWC	STRAT
2791.0	[m]	DC	STRAT
2806.0	[m]	DC	STRAT
2821.0	[m]	DC	STRAT
2836.0	[m]	DC	STRAT
2839.0	[m]	SWC	STRAT
2851.0	[m]	DC	STRAT
2875.0	[m]	DC	STRAT
2890.0	[m]	DC	STRAT
2905.0	[m]	DC	STRAT
2920.0	[m]	DC	STRAT
2935.0	[m]	DC	STRAT
2950.0	[m]	DC	STRAT
2965.0	[m]	DC	STRAT
2975.0	[m]	SWC	STRAT
2980.0	[m]	DC	STRAT
2995.0	[m]	DC	STRAT
3010.0	[m]	DC	STRAT
3025.0	[m]	DC	STRAT
3040.0	[m]	DC	STRAT
3055.0	[m]	DC	STRAT
3070.0	[m]	DC	STRAT
3085.0	[m]	DC	STRAT
3100.0	[m]	DC	STRAT
3115.0	[m]	DC	STRAT
3130.0	[m]	DC	STRAT
3145.0	[m]	DC	STRAT
3151.0	[m]	SWC	STRAT
3160.0	[m]	DC	STRAT
3175.0	[m]	DC	STRAT
3190.0	[m]	DC	STRAT
3205.0	[m]	DC	STRAT
3220.0	[m]	DC	STRAT
3235.0	[m]	DC	STRAT
3250.0	[m]	DC	STRAT
3265.0	[m]	DC	STRAT
3275.0	[m]	SWC	STRAT
3280.0	[m]	DC	STRAT
3295.0	[m]	DC	STRAT
3310.0	[m]	DC	STRAT



3325.0	[m]	DC	STRAT
3355.0	[m]	DC	STRAT
3370.0	[m]	DC	STRAT
3385.0	[m]	DC	STRAT
3400.0	[m]	DC	STRAT
3415.0	[m]	DC	STRAT
3422.0	[m]	SWC	STRAT
3445.0	[m]	DC	STRAT
3460.0	[m]	DC	STRAT
3475.0	[m]	DC	STRAT
3488.5	[m]	SWC	STRAT
3490.0	[m]	DC	STRAT
3505.0	[m]	DC	STRAT
3520.0	[m]	DC	STRAT
3535.0	[m]	DC	STRAT
3550.0	[m]	DC	STRAT
3565.0	[m]	DC	STRAT
3570.0	[m]	SWC	STRAT
3595.0	[m]	DC	STRAT
3610.0	[m]	DC	STRAT
3625.0	[m]	DC	STRAT
3640.0	[m]	DC	STRAT
3655.0	[m]	DC	STRAT
3670.0	[m]	DC	STRAT
3685.0	[m]	DC	STRAT
3695.0	[m]	DC	STRAT
3775.0	[m]	DC	STRAT
3775.0	[m]	SWC	STRAT
3790.0	[m]	DC	STRAT
3805.0	[m]	DC	STRAT
3820.0	[m]	DC	STRAT
3835.0	[m]	DC	STRAT
3880.0	[m]	DC	STRAT
3895.0	[m]	DC	STRAT
3902.0	[m]	DC	STRAT
3910.0	[m]	DC	STRAT
3925.0	[m]	DC	STRAT
3940.0	[m]	DC	STRAT
3955.0	[m]	DC	STRAT
3970.0	[m]	DC	STRAT



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 11.5.2024 - 15:20

3985.0 [m]	DC	STRAT
4000.0 [m]	DC	STRAT
4003.0 [m]	SWC	STRAT
4015.0 [m]	DC	STRAT
4020.0 [m]	SWC	STRAT
4030.0 [m]	DC	STRAT
4037.0 [m]	SWC	STRAT
4045.0 [m]	DC	STRAT
4050.0 [m]	SWC	STRAT
4060.0 [m]	DC	STRAT
4075.0 [m]	DC	STRAT
4080.0 [m]	SWC	STRAT
4090.0 [m]	DC	STRAT
4105.0 [m]	DC	STRAT
4113.0 [m]	SWC	STRAT
4135.0 [m]	DC	STRAT
4145.0 [m]	SWC	STRAT
4150.0 [m]	DC	STRAT
4165.0 [m]	DC	STRAT
4171.0 [m]	SWC	STRAT
4180.0 [m]	DC	STRAT
4195.0 [m]	DC	STRAT
4200.0 [m]	SWC	STRAT
4210.0 [m]	DC	STRAT
4220.0 [m]	C	STRAT
4225.0 [m]	DC	STRAT
4236.5 [m]	C	STRAT
4240.0 [m]	DC	STRAT
4255.0 [m]	DC	STRAT
4285.0 [m]	DC	STRAT
4300.0 [m]	DC	STRAT
4307.2 [m]	SWC	STRAT
4315.0 [m]	DC	STRAT
4330.0 [m]	DC	STRAT
4332.5 [m]	SWC	STRAT
4345.0 [m]	DC	STRAT
4417.0 [m]	SWC	STRAT
4430.8 [m]	SWC	STRAT
4435.0 [m]	DC	STRAT
4450.0 [m]	DC	STRAT



4465.0	[m]	DC	STRAT
4477.0	[m]	DC	STRAT
4495.0	[m]	DC	STRAT
4510.0	[m]	DC	STRAT
4513.1	[m]	SWC	STRAT
4525.0	[m]	DC	STRAT
4540.0	[m]	DC	STRAT
4552.5	[m]	SWC	STRAT
4555.0	[m]	DC	STRAT
4572.5	[m]	SWC	STRAT
4585.0	[m]	DC	STRAT
4600.0	[m]	DC	STRAT
4615.0	[m]	DC	STRAT
4630.0	[m]	DC	STRAT
4645.0	[m]	DC	STRAT
4646.0	[m]	SWC	STRAT
4660.0	[m]	DC	STRAT
4675.0	[m]	DC	STRAT
4690.0	[m]	DC	STRAT
4705.0	[m]	DC	STRAT
4711.0	[m]	DC	STRAT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
268	NORDLAND GP
1494	KAI FM
1898	HORDALAND GP
1898	BRYGGE FM
2376	ROGALAND GP
2376	TARE FM
2475	TANG FM
2514	SHETLAND GP
3324	CROMER KNOLL GP
4005	VIKING GP
4005	SPEKK FM
4050	MELKE FM
4204	FANGST GP
4204	GARN FM



4275	NOT FM
4335	ILE FM
4416	BÅT GP
4416	ROR FM
4519	TOFTE FM
4556	ROR FM
4592	TILJE FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
486	pdf	0.93

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
486_1	pdf	0.13
486_2	pdf	4.52

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
486_01_WDSS_General_Information	pdf	0.29
486_02_WDSS_completion_log	pdf	0.34

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
486_01_6406_6_1_Completion_report	pdf	7.76
486_02_6406_6_1_Completion_report_Drilling	pdf	10.01
486_03_6406_6_1_Completion_log	pdf	2.87

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR CCL	380	2390
CBL VDL GR CCL	2000	4150
CBL VDL GR CCL	3980	4711
CST GR	2475	3969
CST GR	4000	4155
CST GR	4420	4685
DLL MSFL GR	3831	4161
ISF LSS MSFL SP GR	331	4705
LDL CNL GR	331	4706
NGS	2392	4706
RFT	3894	3899
RFT	4211	4215
RFT	4211	4680
RFT HP GR	3894	3899
SHDT GR	4154	4705
VELOCITY	331	4702

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	331.0	36	332.0	0.00	LOT
SURF.COND.	20	954.0	26	965.0	1.73	LOT
INTERM.	13 3/8	2392.0	17 1/2	2415.0	1.85	LOT
INTERM.	13 3/8	2393.0	17 1/2	2415.0	1.85	LOT
INTERM.	9 5/8	4157.0	12 1/4	4165.0	2.20	LOT
LINER	7	4696.0	8 1/2	4711.0	0.00	LOT
LINER	7	4702.0	8 1/2	4711.0	2.02	LOT
OPEN HOLE		4715.0	6	4715.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
330	1.02			WATER BASED	06.09.1985
332	1.04	5.0	15.0	WATER BASED	06.09.1985
359	1.05	5.0	12.0	WATER BASED	06.09.1985



826	1.08	5.0	14.0	WATER BASED	06.09.1985
965	1.10	15.0	5.0	WATER BASED	06.09.1985
1305	1.11	17.0	10.0	WATER BASED	06.09.1985
1652	1.20	17.0	9.0	WATER BASED	06.09.1985
1746	1.00	17.0	9.0	WATER BASED	06.09.1985
1980	1.20	18.0	11.0	WATER BASED	06.09.1985
1981	1.30	18.0	11.0	WATER BASED	02.09.1985
2020	1.30	14.0	8.0	WATER BASED	06.09.1985
2173	1.30	14.0	8.0	WATER BASED	06.09.1985
2193	1.40	15.0	9.0	WATER BASED	06.09.1985
2296	1.49	20.0	9.0	WATER BASED	06.09.1985
2335	1.57	22.0	8.0	WATER BASED	06.09.1985
2383	1.57	18.0	7.0	WATER BASED	06.09.1985
2415	1.60	19.0	7.5	WATER BASED	09.09.1985
2490	1.72	34.0	9.0	WATER BASED	12.09.1985
2497	1.72	34.0	9.0	WATER BASED	12.09.1985
2504	1.77	34.0	9.0	WATER BASED	12.09.1985
2509	1.77	35.0	7.5	WATER BASED	13.09.1985
2532	1.77	35.0	7.5	WATER BASED	13.09.1985
2553	1.79	35.0	5.5	WATER BASED	13.09.1985
2590	1.78	34.0	8.0	WATER BASED	13.09.1985
3008	1.78	30.0	7.0	WATER BASED	17.09.1985
3082	1.78	32.0	7.0	WATER BASED	18.09.1985
3325	1.78	26.0	8.0	WATER BASED	24.09.1985
3360	1.78	52.0	7.5	WATER BASED	24.09.1985
3407	1.78	54.0	9.0	WATER BASED	25.09.1985
3935	1.78	24.0	5.0	WATER BASED	07.10.1985
3935	1.78	24.0	5.0	WATER BASED	16.10.1985
4239	1.81	24.0	5.0	WATER BASED	20.11.1985
4485	1.80	28.0	6.4	WATER BASED	25.11.1985
4710	1.79	28.0	6.4	WATER BASED	06.12.1985
4715	1.76	28.0	6.4	WATER BASED	06.12.1985

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]
486 Formation pressure (Formasjonstrykk)	pdf	0.28

