



Generell informasjon

Brønnbane navn	2/7-25 S
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	EMBLA
Funn	2/7-20 Embla
Brønn navn	2/7-25
Seismisk lokalisering	KRYSN. 3D LINJER 460 OG 1173
Utvinningstillatelse	018
Boreoperatør	Phillips Petroleum Company Norway
Boretillatelse	657-L
Boreinnretning	WEST DELTA
Boredager	123
Borestart	29.11.1990
Boreslutt	31.03.1991
Frigitt dato	31.03.1993
Publiseringsdato	05.12.2012
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	29.0
Vanndybde ved midlere havflate [m]	70.0
Totalt målt dybde (MD) [m RKB]	5177.0
Totalt vertikalt dybde (TVD) [m RKB]	4560.0
Maks inklinasjon [°]	37.6
Temperatur ved bunn av brønnbanen [°C]	155
Eldste penetrerte alder	DEVONIAN
Eldste penetrerte formasjon	NO GROUP DEFINED
Geodetisk datum	ED50
NS grader	56° 19' 59.69" N
ØV grader	3° 14' 53.9" E
NS UTM [m]	6243336.31
ØV UTM [m]	515353.49



UTM sone	31
NPDID for brønnbanen	1679

Brønnhistorie

General

Well 2/7-25 S was drilled on the Embla structure in the southern North Sea. The objective of the well was to prove the south-eastern continuation of the Embla reservoir sands seen in 2/7-20 and 2/7-21S, and if successful establish another drainage point for future development.

Operations and results

Appraisal well 2/7-25 S was drilled from a temporary subsea template located over the 2/7-20 well, using the semi-submersible installation West Delta. It was spudded on 29 November 1990 and drilled to TD at 5177 m (4560 m TVD) in pre-Jurassic rocks. The well was deviated to a target location 2072 m southeast of the wellhead. It was drilled without any major problems. Shallow gas was encountered in four sand intervals in the 26" hole section over the interval 595 -652 m. A minor gas flow was controlled using 11.0 ppg kill mud with high viscosity pills. The well was drilled with sea water down to 780 m, with ester emulsion based Petrofree mud from 780 m to 4557 m, and with oil based Enviromul mud from 4557 m to TD.

Top Jurassic, Mandal Formation was encountered at 4711 m. The Jurassic consisted of 117 m Mandal Formation, 112 m Farsund Formation, and 214 m Eldfisk Formation at the base. Under the Eldfisk Formation, at 5157 m (4540 m TVD), a pre-Jurassic section was encountered. Oil shows were detected from 1594 m to 1786 m, with good shows from 1704 m to 1750 m at top Hordaland Group. Further oil shows were seen throughout all parts of the limestone section but were concentrated in the intervals 3470 m to 3484 m in the Ekofisk Formation and 4328 m to 4435 m in the Hod Formation. In addition solid bitumen staining was described on cores from the Mandal and Eldfisk Formations.

A total of 57 m core was recovered in four cores; core 1 in the Mandal Formation (4782.3 - 4801 m), core 2 in the Farsund Formation (4843 - 4854.9 m), and cores 3&4 in the Eldfisk Formation (5088 - 5113.9 m). No wire line fluid samples were taken.

The upper part of the well was temporary plugged to allow for sidetrack below the 13-3/8" or 20" casing should this prove economical in the future. The bottom part of the well was permanently abandoned on 31 March as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
780.00	5176.80

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	15698.0	15753.6	[ft]
2	15889.0	15923.0	[ft]
3	16693.0	16733.6	[ft]
4	16740.0	16784.4	[ft]

Total kjerneprøve lengde [m]	53.2
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



15690-15696ft



15696-15702ft



15702-15708ft



15708-15714ft



15714-15720ft



15720-15726ft



15726-15732ft



15732-15738ft



15738-15744ft



15744-15750ft



15750-15753ft



15889-15895ft



15895-15901ft



15901-15907ft



15907-15913ft



15913-15919ft



15919-15923ft



16693-16699ft



16699-16705ft



16705-16711ft



16711-16717ft



16717-16723ft



16723-16729ft



16729-16733ft



16734-16740ft



16740-16746ft



16746-16752ft



16752-16758ft



16758-16764ft



16764-16770ft



16770-16776ft



16776-16778ft

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
99	NORDLAND GP
1698	HORDALAND GP
3283	ROGALAND GP
3283	BALDER FM
3308	SELE FM
3371	LISTA FM
3432	VÅLE FM
3462	SHETLAND GP
3462	EKOFISK FM



3561	TOR FM
3898	HOD FM
4506	BLODØKS FM
4512	HIDRA FM
4538	CROMER KNOLL GP
4538	RØDBY FM
4561	SOLA FM
4584	TUXEN FM
4634	ÅSGARD FM
4711	TYNE GP
4711	MANDAL FM
4828	FARSUND FM
4940	ELDFISK FM

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1679_01_WDSS_General_Information	pdf	0.54
1679_02_WDSS_completion_log	pdf	0.27

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1679_2_7_25_S_Completion_report	pdf	23.39
1679_2_7_25_S_Completion_report_Drilling	pdf	32.18

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CST GR	4572	5186
DIL BHC CAL GR	2068	4566
DIL BHC GR	4500	5187
DIL LSS CAL GR	738	2276
LDL CNL NGL	4500	5187
MWD - GR RES DIR	213	5159
OBDT GR	2358	4562
OBDT GR	4553	5189





RFT GR	4773	5003
VSP	1356	5188

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	207.0	36	210.0	0.00	LOT
INTERM.	20	764.0	28	770.0	1.73	LOT
INTERM.	13 3/8	2356.0	17 1/2	2360.0	1.94	LOT
INTERM.	9 5/8	4549.0	12 1/4	4552.0	2.16	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
100	1.05	13.0		WATER BASED	
209	1.05			WATER BASED	
290	1.05			WATER BASED	
533	1.05			WATER BASED	
1089	1.34	32.0		WATER BASED	
1645	1.51	35.0		WATER BASED	
2100	1.61	48.0		WATER BASED	
2332	1.66	51.0		WATER BASED	
2569	1.71	43.0		WATER BASED	
3084	1.71	50.0		WATER BASED	
3317	1.71	47.0		WATER BASED	
3406	1.71	44.0		WATER BASED	
3486	1.71	39.0		WATER BASED	
3502	1.73	40.0		WATER BASED	
3547	1.71	43.0		WATER BASED	
3560	1.71	40.0		WATER BASED	
3570	1.73	41.0		WATER BASED	
3603	1.73	42.0		WATER BASED	
3612	1.73	39.0		WATER BASED	
3627	1.71	54.0		WATER BASED	
3643	1.64	56.0		WATER BASED	
3676	1.63	48.0		WATER BASED	
3791	1.63	45.0		WATER BASED	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 11.5.2024 - 15:37

3887	1.63	43.0		WATER BASED	
4005	1.63	46.0		WATER BASED	
4066	1.63	47.0		WATER BASED	
4121	1.63	45.0		WATER BASED	
4175	1.63	45.0		WATER BASED	
4184	1.63	43.0		WATER BASED	
4302	1.63	43.0		WATER BASED	
4364	1.63	40.0		WATER BASED	
4400	1.63	39.0		WATER BASED	
4444	1.67	48.0		WATER BASED	
4496	1.67	48.0		WATER BASED	
4522	1.67	43.0		WATER BASED	
4542	1.67	45.0		WATER BASED	
4551	1.67	48.0		WATER BASED	
4583	2.06	67.0		WATER BASED	
4588	2.06	52.0		WATER BASED	
4710	2.12	48.0		WATER BASED	
4715	2.10	51.0		WATER BASED	
4728	2.12	54.0		WATER BASED	
4801	2.10	52.0		WATER BASED	
4841	2.10	47.0		WATER BASED	
4843	2.10	49.0		WATER BASED	
4855	2.10	49.0		WATER BASED	
4914	2.10	49.0		WATER BASED	
4938	2.10	53.0		WATER BASED	
4941	2.10	53.0		WATER BASED	
4955	2.10	56.0		WATER BASED	
4963	2.10	59.0		WATER BASED	
5081	2.10	56.0		WATER BASED	
5088	2.10	52.0		WATER BASED	
5102	2.10	50.0		WATER BASED	
5112	2.10	48.0		WATER BASED	
5114	2.10	47.0		WATER BASED	
5126	2.10	46.0		WATER BASED	
5139	2.10	46.0		WATER BASED	
5143	2.10	44.0		WATER BASED	
5158	2.10	40.0		WATER BASED	
5165	2.10	48.0		WATER BASED	
5167	2.10	44.0		WATER BASED	
5177	1.64	13.0		WATER BASED	

