



Generell informasjon

Brønnbane navn	15/9-2
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	SLEIPNER VEST
Funn	15/6-3 Sleipner Vest
Brønn navn	15/9-2
Seismisk lokalisering	Line 510-314.Sp 785
Utvinningstillatelse	046
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	194-L
Boreinnretning	ROSS RIG (1)
Boredager	67
Borestart	12.04.1978
Boreslutt	17.06.1978
Frigitt dato	17.06.1980
Publiseringsdato	20.05.2015
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	GAS/CONDENSATE
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	MIDDLE JURASSIC
1. nivå med hydrokarboner, formasjon.	HUGIN FM
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	108.0
Totalt målt dybde (MD) [m RKB]	3764.0
Temperatur ved bunn av brønnbanen [°C]	107
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	58° 25' 34.06" N
ØV grader	1° 42' 28.2" E
NS UTM [m]	6477027.07
ØV UTM [m]	424529.68



UTM sone	31
NPDID for brønnbanen	323

Brønnhistorie

General

Well 15/9-2 was drilled on the Sleipner Vest Field in the North Sea. The primary objective was to test the "beta closure" on the 15/6-3 Sleipner Vest discovery. The target was Middle Jurassic sandstones.

Operations and results

Well 15/9-2 was spudded with the semi-submersible installation Ross Rig on 12 April 1978 and drilled to TD at 3764 m in Late Triassic sediments in the Skagerrak Formation. The main problem in operations was the discovery of a washout in the well head 18 3/4" ax seal area after setting 9 5/8" casing. This was repaired so that drilling could proceed, but it was decided not to do the planned DST due to possible leak. Otherwise, operations proceeded without significant problem. The well was drilled with seawater and gel down to 644 m and with gel and lignosulphonate from 644 m to TD.

The Vestland Group, Hugin Formation was encountered at 3483 m. The Hugin Formation contained gas/condensate down to the OWC between 3652 and 3654 m based on logs and pressure gradients. Weak shows continued down to 3659 m, 2 meters into top Sleipner Formation. Two spots of dead oil and fluorescence on limestone/siltstone cuttings at 2788 and 2812 m in the upper Shetland Group were the only other shows described in the well.

A total of 186.3 m core was recovered in 11 cores from the interval 3498 m to 3692 m. RFT fluid samples were taken at 3490 m ((gas, condensate, water), 3535,7 m (gas and condensate), 3601.6 m (gas, condensate, water), 3640.4 m (gas, condensate, water), 3641 m (gas, condensate, water), 3641.5 m (gas, condensate, water), 3644 m (gas, condensate, water), 3652 m (gas, condensate, water), and 3654 m (water). The condensate gravity in the samples varied from 50.3 °API in the shallowest sample to 45.5 °API in the sample just above the OWC.

The well was permanently abandoned on 17 June 1978 as a gas/condensate well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
170.00	3834.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

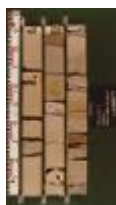
Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3498.0	3514.6	[m]
2	3515.0	3533.3	[m]
3	3533.3	3551.6	[m]
4	3551.6	3569.9	[m]
5	3569.9	3588.2	[m]
6	3588.2	3606.2	[m]
7	3606.2	3625.7	[m]
8	3624.5	3642.5	[m]
9	3645.7	3661.1	[m]
10	3661.1	3669.0	[m]
11	3674.0	3690.8	[m]

Total kjerneprøve lengde [m]	185.3
Kjerner tilgjengelig for prøvetaking?	YES

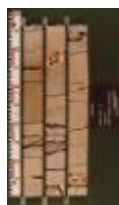
Kjernebilder



3498-3500m



3500-3503m



3503-3506m



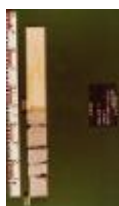
3506-3508m



3508-3511m



3511-3514m



3514-3515m



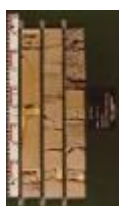
3515-3517m



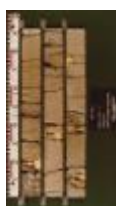
3517-3520m



3520-3523m



3523-3525m



3525-3528m



3528-3531m



3531-3533m



3533-3535m



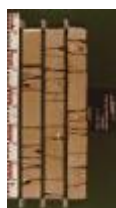
3535-3538m



3538-3541m



3541-3544m



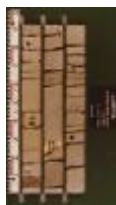
3544-3546m



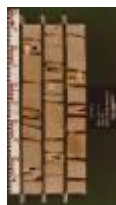
3546-3549m



3549-3551m



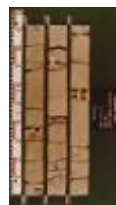
3551-3554m



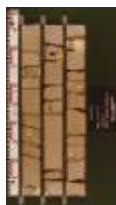
3554-3556m



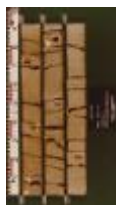
3556-3559m



3559-3562m



3562-3565m



3565-3567m



3567-3569m



3569-3572m



3572-3575m



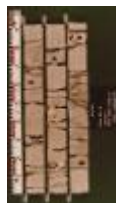
3575-3577m



3577-3580m



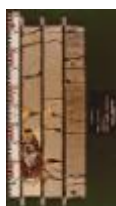
3580-3583m



3583-3586m



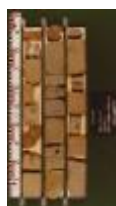
3586-3588m



3588-3590m



3590-3593m



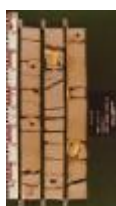
3593-3596m



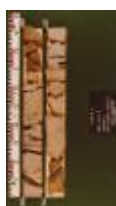
3596-3598m



3598-3601m



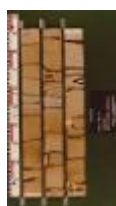
3601-3604m



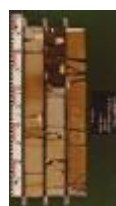
3604-3606m



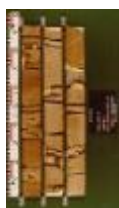
3606-3608m



3608-3611m



3611-3614m



3614-3616m



3616-3619m



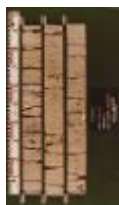
3619-3622m



3622-3623m



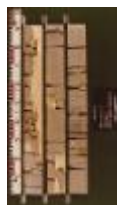
3624-3627m



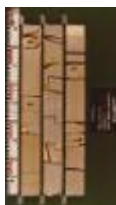
3627-3629m



3629-3632m



3632-3635m



3635-3637m



3637-3640m



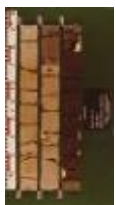
3640-3642m



3642-3645m



3645-3648m



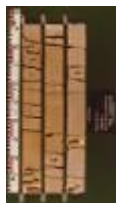
3648-3650m



3650-3653m



3653-3656m



3656-3658m



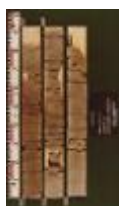
3658-3660m



3661-3663m



3663-3666m



3666-3669m



3674-3676m



3676-3679m



3679-3682m



3682-3684m



3684-3687m



3687-3690m



3690-3691m



Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3148.0	[m]	DC	
3178.0	[m]	DC	
3208.0	[m]	DC	
3238.0	[m]	DC	
3262.0	[m]	SWC	
3298.0	[m]	DC	
3327.0	[m]	SWC	
3359.0	[m]	SWC	
3365.0	[m]	SWC	
3370.0	[m]	SWC	
3390.0	[m]	SWC	
3397.0	[m]	SWC	
3400.0	[m]	SWC	
3410.0	[m]	SWC	
3420.0	[m]	SWC	
3425.0	[m]	SWC	
3430.0	[m]	SWC	
3438.0	[m]	SWC	
3442.0	[m]	SWC	
3445.0	[m]	SWC	
3452.0	[m]	SWC	
3455.0	[m]	SWC	
3458.0	[m]	SWC	
3460.0	[m]	SWC	
3468.0	[m]	SWC	
3471.0	[m]	SWC	
3475.0	[m]	SWC	
3482.0	[m]	SWC	
3485.0	[m]	SWC	
3495.2	[m]	C	
3501.5	[m]	C	
3507.0	[m]	C	
3512.9	[m]	C	
3517.4	[m]	C	
3522.5	[m]	C	



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 11.5.2024 - 07:15

3528.0 [m]	C	
3532.0 [m]	C	
3537.0 [m]	C	
3542.0 [m]	C	
3547.0 [m]	C	
3551.8 [m]	C	
3551.8 [m]	C	
3557.6 [m]	C	
3562.0 [m]	C	
3567.0 [m]	C	
3572.0 [m]	C	
3577.0 [m]	C	
3582.0 [m]	C	
3587.0 [m]	C	
3592.0 [m]	C	
3597.0 [m]	C	
3601.5 [m]	C	
3607.0 [m]	C	
3613.5 [m]	C	
3617.0 [m]	C	
3622.0 [m]	C	
3627.0 [m]	C	
3632.0 [m]	C	
3636.3 [m]	C	
3642.0 [m]	C	
3647.0 [m]	C	
3652.0 [m]	C	
3657.0 [m]	C	
3662.0 [m]	C	
3666.0 [m]	C	
3672.0 [m]	C	
3677.0 [m]	C	
3682.0 [m]	C	
3687.3 [m]	C	
3700.0 [m]	SWC	
3708.0 [m]	SWC	
3723.0 [m]	SWC	
3735.0 [m]	SWC	
3750.0 [m]	SWC	
3755.0 [m]	SWC	



3760.0 [m]	SWC	
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Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
133	NORDLAND GP
861	UTSIRA FM
1028	UNDIFFERENTIATED
1094	HORDALAND GP
1246	SKADE FM
1319	UNDIFFERENTIATED
1438	SKADE FM
1469	UNDIFFERENTIATED
2287	ROGALAND GP
2287	BALDER FM
2324	SELE FM
2387	LISTA FM
2419	HEIMDAL FM
2684	VÅLE FM
2762	SHETLAND GP
2762	EKOFISK FM
2798	TOR FM
3041	HOD FM
3214	BLODØKS FM
3263	HIDRA FM
3303	CROMER KNOLL GP
3303	RØDBY FM
3324	SOLA FM
3345	ÅSGARD FM
3396	VIKING GP
3396	DRAUPNE FM
3478	HEATHER FM
3483	VESTLAND GP
3483	HUGIN FM
3657	SLEIPNER FM
3699	HEGRE GP
3699	SKAGERRAK FM



Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
323_GCH_1	pdf	0.58
323_GCH_2	pdf	1.26

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
323_01_WDSS_General_Information	pdf	0.21
323_03_WDSS_lithlog	pdf	0.09

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
323_15_9_2_COMPLETION_LOG	pdf	1.95
323_15_9_2_COMPLETION_REPORT	pdf	22.47

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL GR	399	1176
CBL GR	1908	2785
CBL VDL CCL GR	2686	2721
CPI	3460	3750
DLL MSFL GR	3450	3675
FDC CNL GR	2784	3760
FDC GR	399	2800
GEODIP	3476	3660
HDT	2784	3760
ISF SON	171	3760
LCS SON	2784	3750
MLL	3475	3760
NGS	3450	3760
TDT	3475	3758





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	171.0	36	171.0	0.00	
SURF.COND.	20	399.0	26	415.0	0.00	
INTERM.	13 3/8	1181.0	17 1/2	1195.0	0.00	
INTERM.	9 5/8	2788.0	12 1/4	2819.0	0.00	
LINER	7	3763.0	8 1/2	3764.0	0.00	

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
171	0.00			spud mud	
530	1.09			water based	
1573	1.24			water based	
2517	1.24			water based	
2819	1.25			water based	
3578	1.35			water based	
3693	1.35			water based	
3764	1.25			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]
323 Formation pressure (Formasjonstrykk)	pdf	0.21

