



Generell informasjon

Brønnbane navn	15/9-3
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	15/9-3
Seismisk lokalisering	Line 753-411.SP 272
Utvinningstillatelse	046
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	206-L
Boreinnretning	ROSS RIG (1)
Boredager	108
Borestart	17.12.1978
Boreslutt	03.04.1979
Frigitt dato	03.04.1981
Publiseringsdato	08.04.2015
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	115.0
Totalt målt dybde (MD) [m RKB]	3796.0
Temperatur ved bunn av brønnbanen [°C]	107
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SKAGERRAK FM
Geodetisk datum	ED50
NS grader	58° 29' 10.04" N
ØV grader	1° 41' 38.46" E
NS UTM [m]	6483722.00
ØV UTM [m]	423852.54
UTM sone	31
NPDID for brønnbanen	324

**Brønnhistorie****General**

Well was drilled on the northwestern part of the Sleipner Vest structure in the Viking Graben of the North Sea. The objective was to test hydrocarbons in the "Alpha structure" of the Sleipner field. The target was Middle Jurassic sandstones.

Operations and results

Appraisal well 15/9-3 was spudded with the semi-submersible installation Ross Rig on 17 December 1978 and drilled to TD at 3796 m in the Triassic Skagerrak Formation. Many problems were encountered in the operations. When drilling the 26" interval, the circulation was lost several times. Pumping lost circulation material pills and cement into the formation solved this. The main problem arose when drilling the 8 1/2" interval. At 3375 m on top of Upper Jurassic, an abnormally pressured impermeable zone was penetrated. Due to a series of technical problems that followed this incident, the well was finally plugged back and sidetracked from 1213 m. Furthermore, the well was drilled in the wintertime and the cold was quite severe. Because of this, the hydraulic control system for the BOP stack froze on one occasion. Functional problems with the BOP pods were experienced, consequently, the time and cost estimates, were seriously exceeded. The well was drilled with spud mud down to 402 m, with gel/lignosulphonate from 402 m to 2680 m and with gel/lignosulphonate/lignite mud from 2680 m to TD.

The Middle Jurassic Vestland Group, top Hugin Formation, was encountered at 3498 m. Well 15/9-3 proved very poor reservoir qualities in these strata and the well was hence not production tested. A cluster of RFT pressure data points suggested a light hydrocarbon gradient of 0.11 - 0.25 psi/ft. between 3600 m and 3612 m. Between 3650 m and 3682 m a good "heavier" hydrocarbon gradient of 0.35 psi/ft. was established. This indicates a hydrocarbon/water contact approximately at 3682 m. Very weak spotted shows were described over this section and down to 3709 m.

Four cores were cut from the interval 3511 to 3580 m in the Hugin Formation. RFT fluid-sampling chambers recovered six samples, all containing mud filtrate with minor amounts of gas.

The well was permanently abandoned on 3 April 1981 and was classified as dry with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
200.00	3795.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3511.0	3528.7	[m]
2	3529.0	3546.7	[m]
3	3547.0	3565.1	[m]
4	3565.1	3579.7	[m]

Total kjerneprøve lengde [m]	68.0
Kjerner tilgjengelig for prøvetaking?	YES

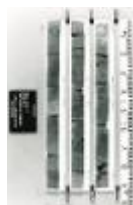
Kjernebilder



3511-3513m



3513-3516m



3516-3519m



3519-3521m



3521-3524m



3524-3527m



3527-3528m



3529-3531m



3521-3534m



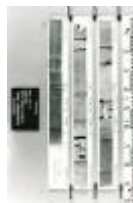
3534-3537m



3537-3539m



3539-3542m



3542-3545m



3545-3546m



3547-3549m



3549-3552m



3552-3551m



3555-3557m



3557-3560m



3560-3563m



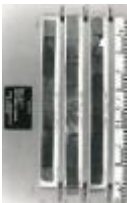
3563-3565m



3565-3567m



3567-3570m



3570-3573m



3573-3575m



3575-3578m



3578-3579m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
2223.0	[m]	DC	RRI
2238.0	[m]	DC	RRI
2253.0	[m]	DC	RRI
2283.0	[m]	DC	RRI
2301.0	[m]	DC	RRI
2319.0	[m]	DC	RRI
2331.0	[m]	DC	RRI
2349.0	[m]	DC	RRI
2367.0	[m]	DC	RRI
2379.0	[m]	DC	RRI
2421.0	[m]	DC	RRI
2433.0	[m]	DC	RRI
2553.0	[m]	DC	RRI
2559.0	[m]	DC	RRI
2571.0	[m]	DC	RRI
2583.0	[m]	DC	RRI
2595.0	[m]	DC	RRI
2601.0	[m]	DC	RRI
2613.0	[m]	DC	RRI
2622.0	[m]	DC	RRI
2631.0	[m]	DC	RRI
2763.6	[m]	C	OD
2767.2	[m]	C	OD



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 14.5.2024 - 06:57

2770.7 [m]	C	OD
2772.0 [m]	C	OD
2773.5 [m]	C	OD
2774.0 [m]	C	OD
2781.9 [m]	C	OD
2784.3 [m]	C	OD
2789.3 [m]	C	OD
2791.3 [m]	C	OD
2791.8 [m]	C	OD
3299.0 [m]	DC	
3329.0 [m]	DC	
3359.0 [m]	DC	
3389.0 [m]	DC	
3419.0 [m]	DC	
3449.0 [m]	DC	
3479.0 [m]	DC	
3479.0 [m]	DC	HRS
3488.0 [m]	DC	HRS
3497.0 [m]	DC	HRS
3509.0 [m]	DC	HRS
3509.0 [m]	DC	
3509.0 [m]	DC	HRS
3511.0 [m]	SWC	RRI
3511.1 [m]	C	
3511.9 [m]	C	
3512.4 [m]	C	HRS
3517.0 [m]	C	
3518.8 [m]	C	HRS
3521.0 [m]	C	
3525.0 [m]	C	HRS
3528.0 [m]	DC	
3532.0 [m]	DC	
3534.9 [m]	C	HRS
3536.0 [m]	DC	
3542.0 [m]	DC	
3544.8 [m]	C	HRS
3547.5 [m]	C	
3549.0 [m]	C	
3549.2 [m]	C	HRS
3553.7 [m]	C	



3557.7 [m]	C	HRS
3563.4 [m]	C	
3565.0 [m]	C	HRS
3569.4 [m]	C	
3573.5 [m]	C	
3575.6 [m]	C	HRS
3579.5 [m]	C	HRS
3579.5 [m]	C	
3587.0 [m]	DC	HRS
3596.0 [m]	DC	HRS
3599.0 [m]	DC	
3608.0 [m]	DC	HRS
3623.0 [m]	DC	HRS
3629.0 [m]	DC	
3632.0 [m]	DC	HRS
3641.0 [m]	DC	HRS
3650.0 [m]	DC	HRS
3659.0 [m]	DC	HRS
3659.0 [m]	DC	
3667.0 [m]	DC	HRS
3682.0 [m]	DC	HRS
3688.0 [m]	DC	
3691.0 [m]	DC	HRS
3706.0 [m]	DC	HRS
3718.0 [m]	DC	
3748.0 [m]	DC	
3780.0 [m]	DC	
3792.0 [m]	DC	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
139	NORDLAND GP
802	UTSIRA FM
1034	UNDIFFERENTIATED
1112	HORDALAND GP
1810	FRIGG FM
2133	ROGALAND GP
2133	BALDER FM



2189	SELE FM
2224	LISTA FM
2274	HEIMDAL FM
2595	TY FM
2636	SHETLAND GP
2636	EKOFISK FM
2675	TOR FM
2869	HOD FM
3198	BLODØKS FM
3242	SVARTE FM
3285	CROMER KNOLL GP
3285	RØDBY FM
3364	VIKING GP
3364	DRAUPNE FM
3466	HEATHER FM
3498	VESTLAND GP
3498	HUGIN FM
3622	SLEIPNER FM
3703	SKAGERRAK FM

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
324 01 WDSS General Information	pdf	0.12
324 02 WDSS completion log	pdf	0.26

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
324 15 9 3 Completion report and log	pdf	29.40

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL	375	2863
DLL	3435	3781





FDC CAL GR	402	3793
HDT	2863	3792
ISF SON GR SP	139	3797
RFT	3439	3795
VELOCITY	570	3730

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	177.0	36	178.0	0.00	LOT
SURF.COND.	20	402.0	26	416.0	1.41	LOT
INTERM.	13 3/8	1178.0	17 1/2	1195.0	1.90	LOT
INTERM.	9 5/8	2866.0	12 1/4	2880.0	1.69	LOT
LINER	7	3439.0	8 1/2	3440.0	2.03	LOT
OPEN HOLE		3796.0	6 1/2	3796.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
416	1.06	48.0		waterbased	
815	1.15	46.0		waterbased	
1300	1.23	45.0		waterbased	
1860	1.28	53.0		waterbased	
2813	1.20	44.0		waterbased	
3344	1.45	54.0		waterbased	
3492	1.36	49.0		waterbased	
3655	1.38	52.0		waterbased	