Generell informasjon

Brønnbane navn	15/9-14
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	15/9-14
Seismisk lokalisering	510 - 313 SP 480
Utvinningstillatelse	046
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	327-L
Boreinnretning	DEEPSEA SAGA
Boredager	58
Borestart	01.05.1982
Boreslutt	27.06.1982
Frigitt dato	27.06.1984
Publiseringsdato	10.01.2010
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	25.0
Vanndybde ved midlere havflate [m]	103.0
Totalt målt dybde (MD) [m RKB]	3563.0
Totalt vertikalt dybde (TVD) [m RKB]	3562.0
Maks inklinasjon [°]	4.3
Temperatur ved bunn av brønnbanen [°C]	106
Eldste penetrerte alder	TRIASSIC
Eldste penetrerte formasjon	SMITH BANK FM
Geodetisk datum	ED50
NS grader	58° 17' 23.19'' N
ØV grader	1° 41' 28.06'' E
NS UTM [m]	6461865.65
ØV UTM [m]	423258.77
UTM sone	31
NPDID for brønnbanen	71

Brønnhistorie

General

Well 15/9-14 is located ca 7 km south of the Sleipner Vest Field in the south Viking Graben of the North Sea. The main objectives of the well were sandstones of Late to middle Jurassic age. The secondary objective was the Triassic.

Operations and results

Wildcat well 15/9-14 was spudded with the semi-submersible installation Deepsea Saga on 1 May 1982 and drilled to TD at 3563 m in Triassic Smith Bank Formation. Operations were conducted without incident except some problems with tight hole and stuck pipe in the 12 1/4" section. The well was drilled with spud mud down to 561 m, with seawater/gel/ lignosulphonate from 561 m to 1371 m, with seawater/gypsum/ lignosulphonate from 1371 m to 3016 m, and with lignite/lignosulphonate from 3016 m to TD.

All objectives proved water bearing according to logs and RFT measurements. The RFT data also showed that the predicted pore pressures had been on the low side. The well was shut in two times due to flow, but there was no pressure build-up. Grains of siltstone and sandstone in cuttings the interval 1220 to 1260 had weak shows (fluorescence, no cut). Fluorescence and cut were observed on sandstones from 3220 to 3290 m in the Vestland Group.

Two cores were cut in the Vestland Group. Core no 1 was cut from 3228 to 3243 m (recovered interval 3228.4 - 3636.6 m corrected to loggers depth) and core no 2 was cut from 3267 to 3285.9 (recovered interval 3267 m to 3285.9 m) corrected to loggers depth). One RFT run was performed in the Middle Jurassic - Triassic Formations. Eleven pre-test samples were obtained out of 19 sampling points. No wire line fluid samples were taken.

The well was permanently abandoned on 27 June 1982 as a dry well.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
180.00	3536.00

Borekaks tilgjengelig for prøvetaking?	NO

Borekjerner i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	3228.0	3235.3	[m]
2	3267.0	3285.9	[m]

Total kjerneprøve lengde [m]	26.2
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder

3228-3233m

3234-3235m

3267-3272m

3272-3277m

3277-3282m

3282-3286m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
3221.0	[m]	DC	OD
3228.5	[m]	C	OD
3228.6	[m]	C	RRI
3230.3	[m]	C	OD
3231.3	[m]	C	RRI
3231.9	[m]	C	OD
3233.2	[m]	C	RRI
3251.0	[m]	DC	OD
3257.0	[m]	DC	OD
3260.0	[m]	DC	OD
3266.0	[m]	DC	OD
3267.1	[m]	C	OD

3267.6	[m]	C	RRI
3270.4	[m]	C	OD
3271.2	[m]	C	RRI
3272.4	[m]	C	OD
3275.4	[m]	C	OD
3275.7	[m]	C	RRI
3279.4	[m]	C	OD
3282.6	[m]	C	OD
3285.2	[m]	C	RRI
3285.8	[m]	C	OD
3299.0	[m]	DC	OD
3314.0	[m]	DC	OD
3332.0	[m]	DC	OD
3344.0	[m]	DC	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
128	NORDLAND GP
925	UTSIRA FM
1078	HORDALAND GP
1260	NO FORMAL NAME
2048	NO FORMAL NAME
2387	ROGALAND GP
2387	BALDER FM
2427	SELE FM
2484	LISTA FM
2623	HEIMDAL FM
2698	TY FM
2756	SHETLAND GP
2756	EKOFISK FM
2765	TOR FM
2889	HOD FM
3040	BLODØKS FM
3075	SVARTE FM
3082	CROMER KNOLL GP
3082	RØDBY FM
3131	SOLA FM
3142	ÅSGARD FM

3176	VIKING GP
3176	DRAUPNE FM
3212	HEATHER FM
3226	VESTLAND GP
3226	HUGIN FM
3254	SLEIPNER FM
3360	NO GROUP DEFINED
3360	SKAGERRAK FM
3543	SMITH BANK FM

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
71_01_WDSS_General_Information	pdf	0.16
71_02_WDSS_completion_log	pdf	0.30

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
71_01_15_9_14_Biostratigraphy	pdf	19.70
71_01_15_9_14_CompletionReport_and_Log	pdf	21.93
71_01_15_9_14_Geolog.progn.and_drilling_progr	pdf	2.64
71_01_15_9_14_Geolog.progn.and_drilling_progr._encl_1	pdf	0.19
71_01_15_9_14_Geolog.progn.and_drilling_progr._encl_2	pdf	1.04
71_01_15_9_14_Post-well_audit	pdf	2.45
71_01_15_9_14_Synthetic_seismogram_table	pdf	35.01
71_01_15_9_14_Synthetic_seismogram_table_encl_1	pdf	0.55
71_01_15_9_14_Synthetic_seismogram_table_encl_2	pdf	1.24
71_01_15_9_14_Synthetic_seismogram_table_encl_3	pdf	1.41
71_01_15_9_14_Synthetic_seismogram_table_encl_4	pdf	0.54
71_01_15_9_14_Synthetic_seismogram_table_encl_5	pdf	0.36
71_01_15_9_14_Synthetic_seismogram_table_encl_6	pdf	0.53

71_01_15_9_14_Synthetic_seismogram_table_encl_7	pdf	0.55
71_01_15_9_14_Well_completion_report	pdf	0.99
71_01_15_9_14_Well_completion_report_encl_1	pdf	4.28
71_01_15_9_14_Well_completion_report_encl_2	pdf	0.90
71_01_15_9_14_Well_completion_report_encl_3	pdf	0.91
71_01_Core_report	pdf	0.10
71_02_Biostratigraphy	pdf	2.62

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR	124	1347
CBL VDL GR	848	2998
DIP	3002	3563
GEODIP	3200	3400
HDT	3004	3563
ISF BHC GR	100	3564
LDT CNL GR	499	3564
RFT	3234	3548
VELOCITY	270	3566

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	187.0	36	189.0	0.00	LOT
SURF.COND.	20	500.0	26	515.0	1.51	LOT
INTERM.	13 3/8	1351.0	17 1/2	1371.0	1.71	LOT
INTERM.	9 5/8	3001.0	12 1/4	3016.0	1.88	LOT
OPEN HOLE		3563.0	8 1/2	3563.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
200	1.04	78.0		waterbased	

525	1.08	42.0		waterbased	
1095	1.12	43.0		waterbased	
1515	1.15	58.0		waterbased	
1890	1.20	51.0		waterbased	
2280	1.23	52.0		waterbased	
3030	1.35	54.0		waterbased	
3475	1.38	59.0		waterbased	

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]
71_Formation_pressure_(Formasjonstrykk)	pdf	0.23