



Generell informasjon

Brønnbane navn	1/9-3
Type	EXPLORATION
Formål	APPRAISAL
Status	SUSPENDED
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	TOMMELITEN A
Funn	1/9-1 Tommeliten Alpha
Brønn navn	1/9-3
Seismisk lokalisering	line no 404-404&SP476
Utvinningstillatelse	044
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	181-L
Boreinnretning	DYVI GAMMA
Boredager	107
Borestart	13.08.1977
Boreslutt	27.11.1977
Frigitt dato	27.11.1979
Publiseringsdato	18.01.2007
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	35.8
Vanndybde ved midlere havflate [m]	76.5
Totalt målt dybde (MD) [m RKB]	2771.0
Totalt vertikalt dybde (TVD) [m RKB]	2771.0
Maks inklinasjon [°]	0.75
Temperatur ved bunn av brønnbanen [°C]	116
Eldste penetrerte alder	EOCENE
Eldste penetrerte formasjon	HORDALAND GP
Geodetisk datum	ED50
NS grader	56° 24' 55.68" N
ØV grader	2° 54' 15.22" E
NS UTM [m]	6252464.47
ØV UTM [m]	494090.84



UTM sone	31
NPDID for brønnbanen	245

Brønnhistorie

General

Well 1/9-3 is located in the Feda Graben, close to the UK border southwest in the Norwegian North Sea. The primary objective of the well was to evaluate the Jurassic sandstones. The secondary objective was to appraise and test the hydrocarbon bearing zones of Danian and Maastrichtian age (Shetland Group) encountered in 1/9-1. The well was drilled in two phases, of which Phase I is well bore 1/9-3 and Phase II is well bore 1/9-3 R. This procedure was a requirement from the Norwegian Petroleum Directorate since Dyvi Gamma came directly from the yard and had therefore not accumulated the experience needed to drill the high pressure Jurassic well to a planned TD of 5000 m. Phase II was to be drilled with the rig Dyvi Beta.

Operations and results

Wildcat well was spudded with the semi-submersible installation Dyvi Gamma on 13 August 1977 and drilled to TD at 27871 m in the Hordaland Group. The progress of the drilling was very much delayed due to technical problems on Dyvi Gamma. As a result, also hole problems were increased due to very long exposure in open hole condition. Due to these problems the well bore was terminated after setting the 13 3/8" casing instead of the plan, which was to drill down to the 9 5/8" casing point. The well was drilled with seawater and gel all through.

Several thin sand beds were penetrated in the Hordaland Group between 1610 m and 1737 m. Oil shows were recorded in the uppermost of these, from 1610 m to 1625 m.

No cores were cut and no wire line fluid samples taken in the well bore.

The well was suspended as dry on 27 November 1977.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
170.00	4569.00

Borekaks tilgjengelig for prøvetaking?	YES
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Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
4200.0	[m]	DC	OD



4209.0	[m]	DC	OD
4218.0	[m]	DC	OD
4230.0	[m]	DC	OD
4239.0	[m]	DC	OD
4248.0	[m]	DC	OD
4260.0	[m]	DC	OD
4269.0	[m]	DC	OD

Oljeprøver i Sjøkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	TEST3	3126.00	3125.00		14.09.1978 - 00:00	YES
DST	TEST4	3094.00	3112.00		19.09.1978 - 02:25	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
111	NORDLAND GP
1150	HORDALAND GP
1617	NO FORMAL NAME
1634	NO FORMAL NAME
1664	NO FORMAL NAME
1683	NO FORMAL NAME

Dokumenter - eldre Sjøkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
245_01_WDSS_General_Information	pdf	0.42
245_03_WDSS_lithlog	pdf	0.08

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)





Dokument navn	Dokument format	Dokument størrelse [KB]
245 01 1 9 3 Completion Report and Completion log	pdf	29.25
245 1 9 3 Biostratigraphy of the interval 2278m-4570m	pdf	4.22
245 1 9 3 Biostrat of 180-2773m	pdf	8.04
245 1 9 3 Biostrat report 3834-4569m	pdf	4.64
245 1 9 3 Chemical Analysis of Water Gas and Oil	pdf	0.81
245 1 9 3 Core Report	pdf	3.03
245 1 9 3 Daily Drilling Report	pdf	10.99
245 1 9 3 Diplog Results	pdf	8.34
245 1 9 3 Drilling Mud Operation	pdf	2.78
245 1 9 3 Estimated pore pressure and fracture gradient	pdf	3.34
245 1 9 3 Formation Pressure Final Report	pdf	6.96
245 1 9 3 Geological Prognosis	pdf	2.60
245 1 9 3 Petrophysical Evaluation	pdf	1.20
245 1 9 3 Petrophysical Evaluation Encl1	pdf	0.64
245 1 9 3 Phase2 Drilling programme	pdf	1.12
245 1 9 3 Phase2 Well Prognosis Sheet Enc 1	pdf	0.14
245 1 9 3 Preliminary Formation Evaluation	pdf	0.51
245 1 9 3 Preliminary Formation Evaluation Encl1	pdf	0.64
245 1 9 3 Pressure Gradient Calculations	pdf	3.17
245 1 9 3 prod testing	pdf	1.58
245 1 9 3 Report on a geochem eval	pdf	7.06
245 1 9 3 Reservoir Fluid Study DST4	pdf	0.54
245 1 9 3 R Biostrat of 2778-4570m	pdf	4.22
245 1 9 3 R Special Core Analysis Report	pdf	2.55
245 1 9 3 Sonic Calibration	pdf	1.02
245 1 9 3 Sonic Calibration Enc 01	pdf	3.34
245 1 9 3 Sonic Calibration Enc 02	pdf	2.84
245 1 9 3 Sonic Calibration Enc 03	pdf	12.25
245 1 9 3 Sonic Calibration Enc 1	pdf	0.01
245 1 9 3 Test Report	pdf	4.31
245 1 9 3 wellog services	pdf	0.85
245 1 9 3 Well Prognosis Sheet	pdf	0.36
245 1 9 3 Well Testing Report Annexes	pdf	5.86
245 1 9 3 Well Testing Report Flopetrol	pdf	3.55





Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	3205	3214	19.0
2.0	3157	3180	9.5
3.0	3126	3125	0.0
4.0	3094	3112	19.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningsstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0				
2.0				
3.0				
4.0				120

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstyngde rel. luft	GOR [m3/m3]
1.0					
2.0	8	4800		0.840	
3.0					
4.0	397	648400		0.770	

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
AC CBL	220	3822
AC CBL	280	1454
AC CBL	300	1345
AC CBL	1200	2760
BHC AC	3822	4559
CDL CNL GR CAL	2730	4209
CDL GR CAL	394	2771
CDL GR CAL	3822	4563
CNL GR	425	1350
CNL GR	3823	4562



DIP	3820	4564
DLL	3062	3350
FDL	3050	3350
IEL BHC AC GR SP	164	4209
IEL GR SP	3822	4561

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	36	163.0	44	170.0	0.00	LOT
SURF.COND.	20	434.0	26	445.0	0.00	LOT
INTERM.	16	1345.0	19 1/2	1360.0	0.00	LOT
INTERM.	13 3/8	2761.0	17 1/2	2782.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
169	1.04	120.0		spud mud	
445	1.07	53.0		spud mud	
621	1.37	48.0		gel mud	
979	1.37	48.0		gel mud	
1313	1.41	48.0		gel mud	
1529	1.74	57.0		gel mud	
2251	1.89	53.0		gel mud	
2448	1.85	52.0		gel mud	
2773	1.85	56.0		gel mud	