



Generell informasjon

Brønnbane navn	2/1-9 A
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	GYDA
Funn	2/1-9 Gyda Sør
Brønn navn	2/1-9
Seismisk lokalisering	GYDA 3D IN LINE 580 x- LINE 556
Utvinningstillatelse	019 B
Boreoperatør	BP Norway Limited U.A.
Boretillatelse	713-L
Boreinnretning	ROSS ISLE
Boredager	51
Borestart	18.01.1992
Boreslutt	08.03.1992
Plugget dato	08.03.1992
Plugget og forlatt dato	02.03.2014
Frigitt dato	08.03.1994
Publiseringsdato	17.10.2007
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	ULA FM
Avstand, boredekk - midlere havflate [m]	23.0
Vanndybde ved midlere havflate [m]	66.0
Totalt målt dybde (MD) [m RKB]	4379.0
Totalt vertikalt dybde (TVD) [m RKB]	4124.0
Maks inklinasjon [°]	60
Temperatur ved bunn av brønnbanen [°C]	138
Eldste penetrerte alder	LATE JURASSIC
Eldste penetrerte formasjon	ULA FM



Geodetisk datum	ED50
NS grader	56° 51' 37.77" N
ØV grader	3° 5' 4.77" E
NS UTM [m]	6302000.77
ØV UTM [m]	505162.30
UTM sone	31
NPDID for brønnbanen	1867

Brønnhistorie

General

Well 2/1-9 A was drilled to appraise the 2/1-9 discovery in the Late Jurassic "Gyda sandstone member" (Ula Formation), by side-tracking up-dip to the crest of the Gyda South structure. If successful, the well could at a later stage be completed as a producer and tie back to Gyda platform. The structure is a fault/dip closure, which lies in the Late Jurassic fairway on the eastern flank of the Central Graben, 6 kilometres south of the Gyda field in the North Sea.

Operations and results

Well 2/1-9 was re-entered on 18 January 1992 by the semi submersible installation Ross Isle. The appraisal sidetrack well 2/1-9 A was kicked off in the 8 1/2" hole from 3270 m in the Late Cretaceous Tor Formation and drilled to TD 4379 m in the Late Jurassic Ula Formation. It took 25 1/2 days (18 1/2 days longer than planned) to drill to coring point at 4140 m. This delay was mainly due to difficulties in controlling the directional tendencies of the BHA's, which required a number of correction runs. In addition, poor bit performance and harder than expected formations exacerbated the slow progress. Hole inclination was 52.8 degrees at coring point. Problems were also experienced during TD logging with stuck logging tools and stuck pipe whilst attempting to retrieve the tool. In addition a 9 bbl influx had to be circulated out during this time. The well was drilled with Novamul ether-based mud from kick-off to TD.

The target Ula Formation sandstone was encountered at 4099 m (3966 m TVD RKB). It was 120 m thick (TVD) and oil-bearing all through. The logs observed no OWC.

Six cores (178 m) were cut in the 8 1/2" hole. All cores had 100% recovery with excellent shows being observed throughout. Core 1 to 5 covered the sandstone of the Ula Formation while core 6 entered into a mud stone member at the base. No H₂S was observed whilst coring -despite having high level contingency due to H₂S seen on well 2/1-9. The RFT was run and pressure points were recorded, but no fluid samples were taken.

The well was suspended on 8 March 1983 as a potential future Gyda sub sea producer.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
3280.00	4379.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4141.0	4178.0	[m]
2	4178.0	4223.6	[m]
3	4223.5	4251.5	[m]
4	4251.5	4279.4	[m]
5	4279.4	4307.4	[m]
6	4307.5	4319.1	[m]

Total kjerneprøve lengde [m]	178.1
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



4141-4146m



4146-4151m



4151-4156m



4156-4161m



4161-4166m



4166-4171m



4171-4176m



4176-4178m



4178-4183m



4183-4188m



4188-4193m



4193-4198m



4198-4203m



4203-4208m



4208-4213m



4213-4218m



4218-4223m



4223-4224m



4223-4228m



4228-4233m



4233-4238m



4238-4243m



4243-4248m



4248-4251m



4251-4256m



4256-4261m



4261-4266m



4266-4271m



4271-4276m



4276-4279m



4279-4284m



4284-4289m



4289-4294m



4294-4299m



4299-4304m



4304-4307m



4307-4312m



4312-4317m



4317-4319m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
4142.6	[m]	C	APT
4152.9	[m]	C	APT



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 20.5.2024 - 13:42

4157.4 [m]	C	APT
4161.7 [m]	C	APT
4166.0 [m]	C	APT
4176.0 [m]	C	APT
4179.0 [m]	C	APT
4185.9 [m]	C	APT
4195.0 [m]	C	APT
4197.9 [m]	C	APT
4213.7 [m]	C	APT
4230.0 [m]	C	APT
4248.0 [m]	C	APT
4251.8 [m]	C	APT
4263.0 [m]	C	APT
4268.0 [m]	C	APT
4274.0 [m]	C	APT
4277.0 [m]	C	APT
4282.6 [m]	C	APT
4284.0 [m]	C	APT
4290.5 [m]	C	APT
4292.2 [m]	C	APT
4292.4 [m]	C	APT
4293.5 [m]	C	APT
4295.0 [m]	C	APT
4295.6 [m]	C	APT
4296.0 [m]	C	APT
4296.5 [m]	C	APT
4297.5 [m]	C	APT
4298.5 [m]	C	APT
4299.4 [m]	C	APT
4300.1 [m]	C	APT
4300.7 [m]	C	APT
4301.0 [m]	C	APT
4301.5 [m]	C	APT
4302.0 [m]	C	APT
4303.2 [m]	C	APT
4303.5 [m]	C	APT
4304.0 [m]	C	APT
4304.4 [m]	C	APT
4304.7 [m]	C	APT
4305.0 [m]	C	APT



4305.3	[m]	C	APT
4305.6	[m]	C	APT
4313.2	[m]	C	APT
4313.5	[m]	C	APT
4314.1	[m]	C	APT
4314.5	[m]	C	APT
4314.9	[m]	C	APT
4315.1	[m]	C	APT
4316.2	[m]	C	APT
4316.8	[m]	C	APT
4316.9	[m]	C	APT
4317.1	[m]	C	APT
4317.4	[m]	C	APT
4317.6	[m]	C	APT
4317.9	[m]	C	APT
4318.1	[m]	C	APT
4318.2	[m]	C	APT
4319.0	[m]	C	APT
4319.1	[m]	C	APT

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
89	NORDLAND GP
1814	HORDALAND GP
2898	ROGALAND GP
2898	BALDER FM
2915	SELE FM
2923	FORTIES FM
2982	LISTA FM
3055	VIDAR FM
3143	LISTA FM
3159	VÅLE FM
3168	SHETLAND GP
3168	EKOFISK FM
3256	TOR FM
3618	HOD FM
3788	BLODØKS FM
3799	HIDRA FM



3819	CROMER KNOLL GP
3819	RØDBY FM
3870	SOLA FM
3881	TUXEN FM
3900	ÅSGARD FM
4068	TYNE GP
4068	MANDAL FM
4084	FARSUND FM
4099	VESTLAND GP
4099	ULA FM

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
1867	pdf	0.51

Dokumenter - eldre Sokkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
1867_01_WDSS_General_Information	pdf	0.50
1867_02_WDSS_completion_log	pdf	0.22

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
1867_2_1_9_A_COMPLETION_REPORT_AND_LOG	pdf	18.77

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DIL BHC GR AMS	3272	4385
LDL CNL GR AMS	4320	4385
RFT RPQS GR AMS	4135	4298





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	164.0	36	165.0	0.00	LOT
INTERM.	20	895.0	26	896.0	0.00	LOT
INTERM.	13 3/8	2893.0	17 1/2	2895.0	0.00	LOT
INTERM.	9 5/8	3938.0	12 1/4	3940.0	0.00	LOT
LINER	7	4378.0	8 1/2	4385.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Fløtegrense [Pa]	Type slam	Dato, måling
140	0.00	39.0		OIL BASED	
3200	1.56	70.0		OIL BASED	
3300	1.56	58.0		OIL BASED	
3347	1.60	79.0		OIL BASED	
3464	1.56	51.0		OIL BASED	
3560	1.60	80.0		OIL BASED	
3681	1.60	82.0		OIL BASED	
3860	1.60	87.0		OIL BASED	
4000	1.61	91.0		OIL BASED	
4223	1.62	90.0		OIL BASED	
4318	1.60	88.0		OIL BASED	
4379	1.60	101.0		OIL 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]
1867 Formation pressure (Formasjonstrykk)	PDF	0.21

