



General information

Wellbore name	25/1-5
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Factmaps in new window	link to map
Main area	NORTH SEA
Field	FRIGG
Discovery	25/1-1 Frigg
Well name	25/1-5
Seismic location	LINE F9/73 SP.305
Production licence	024
Drilling operator	Elf Petroleum Norge AS
Drill permit	136-L
Drilling facility	DEEPSEA DRILLER
Drilling days	51
Entered date	24.07.1975
Completed date	12.09.1975
Release date	12.09.1977
Publication date	24.09.2015
Purpose - planned	APPRAISAL
Reentry	NO
Content	OIL/GAS
Discovery wellbore	NO
1st level with HC, age	EOCENE
1st level with HC, formation	FRIGG FM
Kelly bushing elevation [m]	25.0
Water depth [m]	104.0
Total depth (MD) [m RKB]	2259.0
Bottom hole temperature [°C]	42
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	BALDER FM
Geodetic datum	ED50
NS degrees	59° 52' 27.92" N
EW degrees	2° 6' 36.99" E
NS UTM [m]	6637915.48
EW UTM [m]	450183.75
UTM zone	31
NPDID wellbore	351

**Wellbore history****General**

Well 25/1-5 was drilled southeast flank of the main Frigg structure in the North Sea, about 2.25 km from the discovery well 25/1-1. The objectives were to provide data for development of the Frigg Field and calibrate the seismic model.

Operations and results

Appraisal well 25/1-5 was spudded with the semi-submersible installation Deepsea Driller on 24 July 1975 and drilled to TD at 2259 m in the Paleocene Balder Formation. The well was drilled with spud mud down to 464 m, with KCl mud from 464 to TD.

The Frigg sands were encountered at 1907 m. It was 275 m thick with 225 m net sandstone. The Frigg Formation was gas bearing down to the GOC at 1976 m, oil bearing down to an oil/water transition zone down to 1982 m and the oil/water contact at 1987 m. The only shows described in the well were in the Frigg reservoir: "First significant gas increase in drilling was recorded at 1908 m. Sand on cores showed a gas bearing facies, i.e. dry outlook, faint direct yellow fluo but strong cut. Gas ground began to decrease below 1970 m, becoming nil after 2010 m. Strong direct fluo on cuttings and side wall cores was observed from 1970 m to 2010 m."

Two cores were cut in the Frigg Formation. Core 1 was cut from 1914 to 1923 m and core 2 was cut from 1928 to 1937 m. cores were cut. FIT fluid samples were taken at 1979.6 m (oil and filtrate), 1981 m (oil and filtrate), 1937 m (gas and filtrate), and 1945.5 m (gas and filtrate).

The well was permanently abandoned on 12 September 1975 as an oil and gas appraisal well.

Testing

Two production tests were carried out from the interval 1930 to 1943 m. In the first test, the well produced 3.61 Sm³ condensate and 834000 Sm³ gas/day through a 56/64" choke. In the second test, the well produced 4.364 Sm³ condensate and 967000 Sm³ gas/day through a 74/64" choke.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
547.00	2257.00

Cuttings available for sampling?	YES
----------------------------------	-----

Cores at the Norwegian Offshore Directorate

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1914.0	1923.0	[m]



2	1928.0	1932.0	[m]
---	--------	--------	------

Total core sample length [m]	13.0
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
129	NORDLAND GP
527	UTSIRA FM
760	HORDALAND GP
1907	FRIGG FM
2182	ROGALAND GP
2182	BALDER FM

Geochemical information

Document name	Document format	Document size [MB]
351_GCH_1	pdf	0.41
351_GCH_2	pdf	1.25

Documents - older Norwegian Offshore Directorate WDSS reports and other related documents

Document name	Document format	Document size [MB]
351_01_WDSS_General_Information	pdf	0.26

Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [MB]
351_00_25_1_5_Well_Testing_Report	PDF	88.13
351_25_1_5_COMPLETION_LOG	pdf	0.89
351_25_1_5_COMPLETION_REPORT	pdf	2.98



**Drill stem tests (DST)**

Test number	From depth MD [m]	To depth MD [m]	Choke size [mm]
1.0	1930	1946	22.2
2.0	1928	1937	29.3

Test number	Final shut-in pressure [MPa]	Final flow pressure [MPa]	Bottom hole pressure [MPa]	Downhole temperature [°C]
1.0				
2.0				

Test number	Oil [Sm3/day]	Gas [Sm3/day]	Oil density [g/cm3]	Gas grav. rel.air	GOR [m3/m3]
1.0	575	834000			
2.0	675	967000			

Logs

Log type	Log top depth [m]	Log bottom depth [m]
BHC	1026	2262
CBL	1000	1909
CDM	1025	2264
DLL	1700	2260
FDC CNL	1700	2263
IES	1026	2263
ML MLL	1700	2263
SRS	1025	2261

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
CONDUCTOR	30	176.0	36	176.0	0.00	
SURF.COND.	20	452.0	26	464.0	0.00	
INTERM.	13 3/8	1028.0	17 1/2	1042.0	0.00	
INTERM.	9 5/8	1908.0	12 1/2	1928.0	0.00	
OPEN HOLE		2262.0	8 1/2	2262.0	0.00	

