



General information





Wellbore name	7/8-5 S
Type	EXPLORATION
Purpose	APPRAISAL
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Discovery	7/8-3 (Krabbe)
Well name	7/8-5
Seismic location	Brønnhode lokasjon på Seismisk linje7811 & CDP7108
Production licence	301
Drilling operator	Talisman Energy Norge AS
Drill permit	1112-L
Drilling facility	MÆRSK GIANT
Drilling days	46
Entered date	18.04.2006
Completed date	03.06.2006
Release date	03.06.2008
Publication date	15.08.2008
Purpose - planned	APPRAISAL
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	44.2
Water depth [m]	81.4
Total depth (MD) [m RKB]	4168.0
Final vertical depth (TVD) [m RKB]	4127.0
Maximum inclination [°]	16
Bottom hole temperature [°C]	153
Oldest penetrated age	TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	57° 15' 2.65" N
EW degrees	2° 34' 10.91" E
NS UTM [m]	6345521.93
EW UTM [m]	474034.89
UTM zone	31
NPDID wellbore	5304



Wellbore history

Appraisal well 7/8-5 S was drilled on the Krabbe discovery, made by the 7/8-3 well in 1983. That well encountered 43 m gross Ula Formation, oil-bearing throughout, with oil down to the base of the reservoir. Two DSTs were conducted with the upper test flowing 207 Sm³ oil/day. The 7/8-3 well drilled close to the interpreted crest of the structure. The objective of the appraisal well was to drill down-dip in order to constrain or encounter the oil-water contact and determine if reservoir thickness and quality improved down-dip of the discovery well. The data would establish if commercial volumes were likely in the Krabbe pool and if a PDO would be submitted.

Operations and results

Well 7/8-5 S was spudded with the jack-up installation Mærsk Giant on 18 April and drilled to TD at 4168 m (4127 m TVD RKB). The top hole was drilled down to 750 m where shallow gas influx led to a re-spud. The well was drilled vertical down to 1300 m, then building angle to maximum 16 deg at 1700 m, then falling off to a nearly vertical path from about 2500 m and down to TD. It was drilled with seawater and bentonite/KCl polymer down to 1220 m and with Enviromul oil based mud from 1220 m to TD.

The top of the reservoir was picked at 3950 m (3912 m TVD RKB), 36 m deeper than prognosed, and was 71 m thick, 3 m thinner than expected. Because the reservoir was found so much deeper the well drilled into water. No oil water contact was thus found, but from the pressure data and the fluid properties an OWC as deep as 3880 m TVD RKB was estimated. No oil shows were recorded in the well other than a moderate blue-white crush cut fluorescence in the Mandal Formation.

No sidewall or conventional cores were cut in the well. Pressure points taken from 3967.6 m to 4020.2 m (Ula Sandstone) varied from 9657 to 9527 PSIA - 1.59 to 1.60 SG SS. An MDT fluid sample taken at 4018.3 m recovered 2.2 l water.

The well was completed with a 7" liner across the reservoir and was suspended for future use as a water injector. It was abandoned on 12 June 2006 and classified as dry.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
250.00	740.00

Cuttings available for sampling?	YES
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Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
126	NORDLAND GP



1368	HORDALAND GP
2822	ROGALAND GP
2822	BALDER FM
2857	SELE FM
2882	LISTA FM
2974	VÅLE FM
2985	SHETLAND GP
2985	EKOFISK FM
3164	TOR FM
3449	HOD FM
3542	BLODØKS FM
3576	HIDRA FM
3593	CROMER KNOLL GP
3593	RØDBY FM
3675	ÅSGARD FM
3832	TYNE GP
3832	MANDAL FM
3871	FARSUND FM
3950	VESTLAND GP
3950	ULA FM
4021	NO GROUP DEFINED
4021	SKAGERRAK FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT DSI LDL APS GR	4166	4172
LWD - GR RES DDS PWD	1220	2002
LWD - GR RES PWD DDS DM	720	4168
MDT GR	3967	4020
MWD - DM	125	216
MWD - GR RES DDS PWD	216	750
VSP ZO	1845	4080

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	210.0	36	214.0	0.00	LOT



SURF.COND.	13 3/8	1214.0	17 1/2	1220.0	1.75	LOT
INTERM.	9 5/8	3765.0	12 1/4	3772.0	1.90	LOT
LINER	7	4167.0	8 1/2	4168.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
216	1.03	300.0		WATER BASED	
750	1.20			WATER BASED	
1200	1.20	48.0		WATER BASED	
1220	1.10			WATER BASED	
1472	1.62	85.0		OIL BASED	
3000	1.64	68.0		OIL BASED	
3071	1.64	62.0		OIL BASED	
3774	1.67	57.0		OIL BASED	
4167	1.67	61.0		OIL BASED	
4168	1.68	71.0		OIL BASED	