

**General information**

Wellbore name	6407/9-12
Type	DEVELOPMENT
Purpose	OBSERVATION
Status	P&A
Press release	link
Multilateral	NO
Factmaps in new window	link
Main area	NORWEGIAN SEA
Field	DRAUGEN
Discovery	6407/9-1 Draugen
Well name	6407/9-12
Production licence	093 D
Drilling operator	OKEA ASA
Drill permit	1789-L
Drilling facility	DEEPSEA NORDKAPP
Drilling days	11
Entered date	16.10.2019
Completed date	08.11.2019
Release date	08.11.2021
Plugged and abandon date	01.10.2020
Plugged date	08.11.2019
Publication date	10.11.2021
Purpose - planned	APPRAISAL
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	32.7
Water depth [m]	244.0
Total depth (MD) [m RKB]	1775.0
Final vertical depth (TVD) [m RKB]	1775.0
Oldest penetrated age	MIDDLE JURASSIC
Oldest penetrated formation	GARN FM
Geodetic datum	ED50
NS degrees	64° 22' 16.28" N
EW degrees	7° 53' 42.43" E
NS UTM [m]	7139018.47
EW UTM [m]	446675.30
UTM zone	32
NPDID wellbore	8893

**Wellbore history**

Well 6407/9-12 was drilled to test the Skumnisse prospect east of the Draugen Field in the Froan Basin in the Norwegian Sea. The primary objective was to test the hydrocarbon potential in the Rogn Formation. The prospect was seen as an eastward extension of the Draugen reservoir, based on seismic interpretation. The well is thus classified as an appraisal.

Operations and results

Appraisal well 6407/9-12 was spudded with the semi-submersible installation Deepsea Nordkapp on 16 October 2019 and drilled to TD in the 12 1/4" section at 1056 m. At this point, on 19 October 2019, the well was suspended while the rig moved to 6407/9-11, which was drilled in batch with 6407/9-12 in an appraisal drilling campaign on the Draugen Field. The rig returned and re-entered 6407 /9-12 on 30 October 2019 and the final 8 1/2" section was drilled to final TD at 1775 m in the Middle Jurassic Garn Formation. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 1056 m and with Innovert oil-based mud from 1056 m to TD.

The Rogn Formation was encountered at 1663 m and consisted of sandstone grading to siltstone and claystone. The Rogn Formation proved to be a lower shoreface facies with reduced reservoir properties compared to Draugen. Gross thickness was 40 m, while 15 m was net reservoir based on petrophysical evaluation. The Well was completely dry all through with low gas readings and no indication of oil shows.

One 18 m core was cut in the Rogn Formation from 1669m to 1687m with 100 % recovery. No fluid sample was taken.

The well was plugged and abandoned on 8. November 2019, but the wellhead housings were not cut and retrieved from seabed until 1 October 2020 the year after. 6407/9-12 is classified as a dry well.

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1060.00	1775.00

Cuttings available for sampling?	YES
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Cores at the Norwegian Offshore Directorate





Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1669.0	1687.4	[m]

Total core sample length [m]	18.4
Cores available for sampling?	YES

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	331.0	36	331.0	0.00	
SURF.COND.	9 5/8	1048.0	12 1/4	1056.0	1.63	FIT
OPEN HOLE		1775.0	8 1/2	0.0	0.00	

Logs

Log type	Log top depth [m]	Log bottom depth [m]
HDVS MDT	1519	1519
LWD - DGR ADR ADL CTN PCDC ACALX	1056	1775
LWD - DGR EWRP4D PWD PCDC	331	1056
LWD - DIR	276	331
VSI GR	1519	1519

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
276	NORDLAND GP
276	NAUST FM
690	KAI FM
802	HORDALAND GP
802	BRYGGE FM
1322	ROGALAND GP
1322	TARE FM
1399	TANG FM
1554	SHETLAND GP
1554	SPRINGAR FM
1568	CROMER KNOLL GP



1568	LANGE FM
1613	LYR FM
1622	VIKING GP
1622	SPEKK FM
1663	ROGN FM
1701	SPEKK FM
1704	MELKE FM
1725	FANGST GP
1725	GARN FM