

General information

Wellbore name	25/8-20 B
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	BALDER
Discovery	25/8-20 B
Well name	25/8-20
Seismic location	Inline 1390. crossline 2445
Production licence	027
Drilling operator	Vår Energi AS
Drill permit	1852-L
Drilling facility	SCARABEO 8
Drilling days	18
Entered date	11.05.2021
Completed date	28.05.2021
Plugged date	28.05.2021
Release date	28.05.2023
Publication date	12.09.2023
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS
Discovery wellbore	YES
1st level with HC, age	EOCENE
1st level with HC, formation	BALDER FM
Kelly bushing elevation [m]	34.0
Water depth [m]	129.0
Total depth (MD) [m RKB]	2698.0
Final vertical depth (TVD) [m RKB]	2387.0
Maximum inclination [°]	42.3
Bottom hole temperature [°C]	93
Oldest penetrated age	LATE TRIASSIC
Oldest penetrated formation	SKAGERRAK FM
Geodetic datum	ED50
NS degrees	59° 17' 27.34" N
EW degrees	2° 22' 27.16" E

NS UTM [m]	6572767.26
EW UTM [m]	464349.30
UTM zone	31
NPDID wellbore	9277

Wellbore history

General

Well 25/8-20 S Prince with side-track 25/8-20 B King is a dual branch exploration well that tested several independent targets. The dual well is situated north of the Balder Field on the Utsira High in the North Sea. The primary objective of the side-track 25/8-20 B King was to test the minimum economic hydrocarbon volumes in Eocene/Paleogene injectites. The Skagerrak Formation was secondary objective.

Operations and results

Wildcat well 25/8-20 S was kicked off from a milled window in the 13 3/8" casing from 1030 to 1038 m in primary well bore 25/8-20 S on 11 May 2021. The well was drilled with the semi-submersible installation Scarabeo 8 to TD at 2698 m (2386.5 m TVD) in the Late Triassic Skagerrak Formation. The well path above kick-off is vertical. From kick off the well path deviation is between ca 30 and 42°. Drilling proceeded without significant problems. The well was drilled with Rheguard Prime oil-based mud from kick-off to TD.

One-meter-thick gas bearing injectite sands were penetrated at 1833 m and 1849 m, while an oil-filled injectite sand was penetrated from 1866 to 1875 m. The gas-oil contact in the injectite complex was estimated at ca 1868 m (1761 m TVD) m, while the Free Water Level was estimated at ca 1934 m (1815 m TVD). The sands had excellent petrophysical properties. The Skagerrak Formation in 25/8-20 B well was mainly water bearing with some hydrocarbon indications at 2608.8 m / 2320.3.3 m TVD. Good quality reservoir units in the 25/8-20 B well were encountered below the OWC of Skagerrak Discovery in Prince 25/8-20 S well.

Strong oil shows were described on the cored injectite sand in the Balder Formation, otherwise no shows are described from 25/8-20 B.

A 34.54 m core was cut in Balder Formation from 1852-1888 m representing 95.9% recovery. MDT fluid samples were taken at 1833.21 m (gas), 1870.83 (oil), and 1985 m (water).

The well was plugged back and permanent abandoned on 28 May 2021

Testing

No drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1050.00	2698.00
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	1852.0	1886.5	[m]

Total core sample length [m]	34.5
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
163	NORDLAND GP
533	UTSIRA FM
613	NAUST FM
737	HORDALAND GP
737	SKADE FM
1004	NO FORMAL NAME
1185	GRID FM
1215	UNDIFFERENTIATED
1840	ROGALAND GP
1840	BALDER FM
1935	SELE FM
1980	HERMOD FM
2025	SELE FM
2063	LISTA FM
2104	HEIMDAL FM
2129	LISTA FM
2180	TY FM
2191	VÅLE FM
2210	TY FM
2221	SHETLAND GP
2241	CROMER KNOT GP
2250	VESTLAND GP
2276	STATFJORD GP
2438	HEGRE GP
2438	SKAGERRAK FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LSCAN HNGS CMR GR	1725	2477
LWD - PDGR ARC TELE GYRO	1043	1762
LWD - PDGR ECO TELE SON STETH	1762	2698
MDT GR EDTC JAR	1833	2005
ZAIT PEX MSIP QGEO GR	1761	2484

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	235.0	36	243.0	0.00	
INTERM.	13 3/8	1038.0	17 1/2	1043.0	1.60	FIT
INTERM.	9 5/8	1757.8	12 1/4	1762.0	1.69	FIT
OPEN HOLE		2698.0	8 1/2	2698.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
1043	1.40	25.0	5.5	--	
1827	1.35	19.0	4.7	IE RPS	
1852	1.37	23.0	4.2	IE RPS	
2010	1.35	19.0	4.7	IE RPS	
2698	1.40	27.0	5.1	IE RPS	