

**General information**

Wellbore name	25/8-20 S
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 S
Well name	25/8-20
Seismic location	Inline 1390. crossline 2445
Production licence	027
Drilling operator	Vår Energi AS
Drill permit	1850-L
Drilling facility	SCARABEO 8
Drilling days	26
Entered date	15.04.2021
Completed date	10.05.2021
Plugged date	10.05.2021
Release date	10.05.2023
Publication date	12.09.2023
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	LATE TRIASSIC
1st level with HC, formation	SKAGERRAK FM
Kelly bushing elevation [m]	34.0
Water depth [m]	129.0
Total depth (MD) [m RKB]	2733.0
Final vertical depth (TVD) [m RKB]	2408.0
Maximum inclination [°]	45.6
Bottom hole temperature [°C]	95
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	9275

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 well is situated north of the Balder Field on the Utsira High in the North Sea. The primary well 25/8-20 S Prince targeted Jurassic and Triassic sandstones as primary objectives and the Paleogene Hermod sandstone as secondary objective.

Operations and results

Prior to the main hole an 8 1/2" pilot hole 25/8-20-U-26 was spudded on 11 April 2021 to check for shallow hazards. The Pilot was drilled to 1107 m without encountering shallow gas or other hazards.

Wildcat well 25/8-20 S was spudded with the semi-submersible installation Scarabeo 8 on 15 April 2021 and drilled to TD at 2733 m (2408 m TVD) m in the Late Triassic Skagerrak Formation. The well was drilled vertical down to ca 1020 m and deviated from there to TD with a deviation mostly between 25 and 45 . Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 243 m, with a KCl Polymer mud from 243 m to 1103 m, and with Rheguard Prime oil-based mud from 1103 m to TD.

The Early Jurassic Statfjord Group was penetrated at 2313 m (2053.5 m TVD), directly underlying the Early Cretaceous Cromer Knoll Group. The Statfjord was water wet, but with good reservoir sands in the lower part. Oil was discovered in the Skagerrak Formation. Gross thickness was 105 m with NTG of 0.34 and averaged porosity PHIT of 19%. Oil bearing sands constitute net thickness of 6.4 m. The oil-water contact was indicated by logs and pressure points to be between 2642 m and 2659 m (2325 m and 2341 m TVD). Secondary target Hermod was water bearing having gross thickness of 55.5 m, NTG of 0.96 and averaged PHIT of 34.6%.

The only oil shows described in the well was a weak hydrocarbon odour from the core in the Skagerrak Formation.

A 52.12 m core was cut in Skagerrak Formation from 2644 to 2698 m representing 96.5% recovery. MDT fluid samples were taken in the lower Statfjord Group at 2421.5 m (water), and in the Skagerrak Formation at 2614.48 m (filtrate and oil) and 2640.31 (oil)

The well was plugged back for side-tracking and permanently abandoned on 10 May 2021 as an oil discovery.

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	2733.00

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	2644.0	2696.1	[m]

Total core sample length [m]	52.1
Cores available for sampling?	YES

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
163	NORDLAND GP
163	NAUST FM
533	UTSIRA FM
737	HORDALAND GP
737	SKADE FM
1004	NO FORMAL NAME
1197	GRID FM
1226	UNDIFFERENTIATED
1902	ROGALAND GP
1902	BALDER FM
1988	SELE FM
2023	HERMOD FM
2096	SELE FM
2141	LISTA FM
2249	VÅLE FM
2259	TY FM
2303	CROMER KNOLL GP
2313	STATFJORD GP
2504	HEGRE GP
2504	SKAGERRAK FM



Logs

Log type	Log top depth [m]	Log bottom depth [m]
AIT PEX GPIT PPC MSIP JAR	1094	1586
LWD - ARC TELE	243	1860
LWD - PDGR ECO TELE ST SON	1860	2733
LWD - TELE	162	243
MDT CMR JAR	2028	2733
VSI-4	281	2590

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	1094.0	17 1/2	1103.0	1.75	FIT
LINER	9 5/8	1854.0	12 1/4	1860.0	1.70	FIT
OPEN HOLE		2733.0	8 1/2	2733.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
217	1.05	28.0	16.6	Prime	
236	1.20	14.0	12.1	KC	
528	1.03			Prime	
813	1.20	9.0	7.9	Prime	
1103	1.39	11.0	14.1	Prime	
1705	1.40	25.0	5.5	Prime	
1791	1.42	23.0	7.5	Prime	
2481	1.35	19.0	4.2	Prime	
2644	1.37	23.0	3.7	Prime	
2733	1.40	23.0	5.1	Prime	