

**General information**

Wellbore name	6505/10-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link to map
Main area	NORWEGIAN SEA
Well name	6505/10-1
Seismic location	SH 9602-3D: INLINE 798 & X-LINE 2249
Production licence	210
Drilling operator	A/S Norske Shell
Drill permit	917-L
Drilling facility	OCEAN ALLIANCE
Drilling days	99
Entered date	28.03.1998
Completed date	04.07.1998
Release date	04.07.2000
Publication date	15.11.2001
Purpose - planned	WILDCAT
Reentry	NO
Content	DRY
Discovery wellbore	NO
Kelly bushing elevation [m]	26.0
Water depth [m]	684.0
Total depth (MD) [m RKB]	5028.0
Final vertical depth (TVD) [m RKB]	5026.0
Maximum inclination [°]	3.24
Bottom hole temperature [°C]	151
Oldest penetrated age	LATE CRETACEOUS
Oldest penetrated formation	LANGE FM
Geodetic datum	ED50
NS degrees	65° 7' 59.69" N
EW degrees	5° 10' 29.39" E
NS UTM [m]	7225243.08
EW UTM [m]	602035.97
UTM zone	31
NPDID wellbore	3259

**Wellbore history****General**

The objectives of the Helland-Hansen prospect exploration well 6505/10-1 were to obtain geological data and information down to 5000 m or Lower Cretaceous, to evaluate the HC potential of the Upper Cenomanian to Upper Coniacian interval of Helland-Hansen prospect in terms of reservoir and hydrocarbon phase, and to take appropriate samples in terms of reservoir, pressures and fluids.

Operations and results

Exploration well 6505/10-1 is located in the southern part of the Vøring Basin, m PL210, some 70 km West of the Smørbukk field and 250 km from the Norwegian mainland. After cementing the 20" casing string, it was decided to re-spud the well due to shallow water flow. The initial well was temporarily abandoned and re-numbered 6505/10-1X. The final well, numbered as 6505/10-1, was drilled to target depth of 5026 m TVD. The main objectives of the well were fulfilled. However, the reservoir quality of the target sequence was very poor, affecting sampling of pressures and formation fluids. Based on the poor reservoir quality, no well testing was carried out. Two cores were cut in the Lysing Formation in the intervals 3485 to 3493 m and 3693 to 3720 m RKB, and one core was cut in the Lange Formation from 3857 to 3884 m. Two MDT samples were collected at 3718.6 m RKB but well site analyses established them to contain mainly filtrate and water and no moveable hydrocarbons. The well was permanently plugged and abandoned as a dry hole on 4th of July 1998.

Testing

No DST was performed

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
1310.00	5026.00

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	3485.0	3493.9	[m]
2	3693.0	3720.8	[m]
3	3857.0	3883.7	[m]

Total core sample length [m]	63.4
Cores available for sampling?	YES

Core photos



3485-3490m



3490-3493m



3693-3698m



3698-3703m



3703-3708m



3708-3713m



3713-3718m



3718-3720m



3857-3862m



3862-3867m



3867-3872m



3872-3877m



3877-3882m



3882-3884m

Palynological slides at the Norwegian Offshore Directorate

Sample depth	Depth unit	Sample type	Laboratory
1310.0	[m]	SWC	RRI
1314.0	[m]	SWC	RRI
1319.0	[m]	SWC	RRI
1324.0	[m]	SWC	RRI
1333.0	[m]	SWC	RRI
1387.0	[m]	SWC	RRI
1395.0	[m]	SWC	RRI
3000.0	[m]	DC	RRI
3025.0	[m]	DC	RRI
3105.0	[m]	DC	RRI
3165.0	[m]	DC	RRI
3200.0	[m]	DC	RRI
3250.0	[m]	DC	RRI



3270.0 [m]	DC	RRI
3285.0 [m]	DC	RRI
3305.0 [m]	DC	RRI
3485.2 [m]	C	OD
3485.7 [m]	C	RRI
3487.5 [m]	C	OD
3488.8 [m]	C	RRI
3489.5 [m]	C	OD
3490.7 [m]	C	RRI
3491.5 [m]	C	OD
3493.4 [m]	C	RRI
3493.5 [m]	C	OD
3593.3 [m]	C	OD
3601.0 [m]	DC	RRI
3640.0 [m]	DC	RRI
3693.2 [m]	C	RRI
3694.9 [m]	C	OD
3695.2 [m]	C	OD
3695.6 [m]	C	OD
3697.3 [m]	C	OD
3697.8 [m]	C	RRI
3699.5 [m]	C	OD
3700.5 [m]	C	RRI
3701.2 [m]	C	OD
3702.0 [m]	C	RRI
3703.2 [m]	C	OD
3705.3 [m]	C	OD
3705.6 [m]	C	RRI
3707.5 [m]	C	OD
3707.5 [m]	C	RRI
3709.5 [m]	C	OD
3710.6 [m]	C	RRI
3711.2 [m]	C	OD
3713.7 [m]	C	OD
3713.7 [m]	C	RRI
3715.4 [m]	C	OD
3716.8 [m]	C	RRI
3717.5 [m]	C	OD
3719.4 [m]	C	OD
3720.0 [m]	C	RRI



3720.7 [m]	C	OD
3739.0 [m]	DC	RRI
3838.0 [m]	DC	RRI
3857.2 [m]	C	OD
3857.4 [m]	C	RRI
3859.4 [m]	C	OD
3861.6 [m]	C	OD
3861.9 [m]	C	RRI
3863.6 [m]	C	OD
3865.5 [m]	C	OD
3865.7 [m]	C	RRI
3867.2 [m]	C	OD
3868.9 [m]	C	RRI
3869.5 [m]	C	OD
3871.5 [m]	C	OD
3871.8 [m]	C	RRI
3873.5 [m]	C	OD
3874.7 [m]	C	RRI
3875.5 [m]	C	OD
3877.0 [m]	C	RRI
3877.3 [m]	C	OD
3879.5 [m]	C	OD
3880.8 [m]	C	RRI
3881.3 [m]	C	OD
3882.4 [m]	C	RRI
3883.1 [m]	C	OD

Lithostratigraphy

Top depth [mMD RKB]	Lithostrat. unit
710	NORDLAND GP
710	NAUST FM
1354	HORDALAND GP
1354	BRYGGE FM
1379	ROGALAND GP
1379	TARE FM
1504	TANG FM
1642	SHETLAND GP
1642	SPRINGAR FM



2154	NISE FM
2525	KVITNOS FM
3688	CROMER KNOLL GP
3688	LYSING FM
3746	LANGE FM

Composite logs

Document name	Document format	Document size [MB]
3259	pdf	0.85

Geochemical information

Document name	Document format	Document size [MB]
3259_1	pdf	1.14

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

Document name	Document format	Document size [MB]
3259_6505_10_1_COMPLETION_LOG	.pdf	19.96
3259_6505_10_1_COMPLETION_REPORT	.PDF	82.50

Logs

Log type	Log top depth [m]	Log bottom depth [m]
CDR	761	1273
CDR	3494	4515
CDR CDN ISON	1300	3469
CST GR	1307	2462
CST GR	2528	3676
CST GR	2552	4997
DLL MSFL CNL SP AS	4145	5031
DLL MSFL CNL SP ASGR	1296	2486
DLL MSFL SP LDL CNL	3300	4186





DSI NGT ACTS	1296	2475
DSI NGT FMI GR	3300	4186
LDS APS HNGS	3350	3530
LDS APS HNGS	3675	3930
LDS APS HNGS	4145	5031
MDT GR	3364	4965
MDT GR	3366	3857
VSP GR	710	2475
VSP GR	785	5032

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	782.0	36	788.0	0.00	LOT
SURF.COND.	20	1296.0	26	1301.0	1.37	LOT
INTERM.	13 3/8	2518.0	16	2526.0	1.59	LOT
OPEN HOLE		5028.0	12 1/4	5028.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
709	1.20	1.0		SPUD MUD	
1301	1.22	15.0	1.0	BARASILC	
4535	1.42	36.0	13.4	BARASILC	
4571	1.42	37.0	11.0	NACL/KCL/GE	
5028	1.42	37.0	9.6	NACL/POLYME	

Pressure plots

The pore pressure data is sourced from well logs if no other source is specified. In some wells where pore pressure logs do not exist, information from Drill stem tests and kicks have been used. The data has been reported to the NPD, and further processed and quality controlled by IHS Markit.

Document name	Document format	Document size [MB]
3259 Formation pressure (Formasjonstrykk)	PDF	0.28

