



Generell informasjon

Brønnbane navn	17/11-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Brønn navn	17/11-1
Seismisk lokalisering	LINE 5812A SP. 85
Utvinningstillatelse	010
Boreoperatør	A/S Norske Shell
Boretillatelse	13-L
Boreinnretning	ORION
Boredager	38
Borestart	24.05.1968
Boreslutt	30.06.1968
Frigitt dato	30.06.1970
Publiseringsdato	25.04.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	DRY
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	27.0
Vanndybde ved midlere havflate [m]	75.0
Totalt målt dybde (MD) [m RKB]	3269.0
Totalt vertikalt dybde (TVD) [m RKB]	3269.0
Maks inklinasjon [°]	3.25
Temperatur ved bunn av brønnbanen [°C]	83
Eldste penetrerte alder	LATE PERMIAN
Eldste penetrerte formasjon	ZECHSTEIN GP
Geodetisk datum	ED50
NS grader	58° 12' 36" N
ØV grader	3° 20' 34.9" E
NS UTM [m]	6452288.88
ØV UTM [m]	520158.20
UTM sone	31
NPDID for brønnbanen	906



Brønnhistorie

General

Well 17/11-1 was drilled close to the western edge of the Sele High in the North Sea. The original objective to test the Tertiary and Mesozoic sequences, was extended to penetrate the Zechstein salt and investigate the underlying formations. This latter could not be reached due to drilling difficulties in the salt.

Operations and results

Wildcat well 17/11-1 was spudded with the jack-up installation Orion on 24 May 1968 and drilled to TD at 3269 m in the Late Permian Zechstein Group. When logging at 1173 m the logging tool got stuck in the "gumbo" section and an inflow of 2 - 5 bbl/hr of salt water occurred. Several of the tools failed to reach the bottom, among these the gamma-ray/sonic logging tool. Therefore a laterolog is included on the final composite log in the interval 1017-1158 m. The pipe stuck when drilling in potassium and magnesium salt (carnallite). Efforts to free the pipe by jarring and spotting Pipelax were unsuccessful. After working the stuck pipe for 19 hours the drill string parted, leaving a bit and junk sub in the hole. An unsuccessful attempt was made to jar the fish free. It was then decided that further efforts to drill to the base of the salt could not be justified. The well was drilled with seawater down to 166 m, a Spersene/XP-20 mud system from 166 m to 2539 m, converting to a salt-saturated mud from 2539 m through salt to TD.

Shetland Group chalk (Ekofisk Formation) came in at 1020 m. Top Cretaceous is set at 1040 m where Tor and Hod chalks extend down to 1447 m. Porosities in the chalks were estimated between 15 % to 25%. At 1447 m 63 m of Ran Sandstone Units were penetrated. The remaining Early Cretaceous consisted of mudstones. The Boknfjord Group was encountered at 2083 m, with shales extending down to 2211 m. These shales rest directly on Triassic sediments. The Skagerrak Formation from 2211 m to 2315 m consisted of claystone with sand and siltstone stringers. The sandstone stringers were generally less than 2 m thick with 20 - 30 % estimated porosity. The Smith Bank Formation is set at 2315 m to 2517 m. From 2517 m to 2538 m anhydrite was present. Below 2538 m massive salt is shown on the logs with occasional beds of anhydrite and claystone. Between 3205 m and 3269 low density beds indicate carnallite interbedded with the normal halite. There were no hydrocarbon indications in the well.

Conventional cores were not cut. A total of 41 sidewall cores were taken from 427 m to 3226 m. No fluid samples were taken.

The well was permanently abandoned on 30 June 1968 as dry hole.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
170.69	3267.46

Borekaks tilgjengelig for prøvetaking?	NO
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Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
5500.0	[ft]	DC	RRI
5540.0	[ft]	DC	RRI
5580.0	[ft]	DC	RRI
5620.0	[ft]	DC	RRI
5660.0	[ft]	DC	RRI
5700.0	[ft]	DC	RRI
5740.0	[ft]	DC	RRI
5780.0	[ft]	DC	RRI
5820.0	[ft]	DC	RRI
5860.0	[ft]	DC	RRI
5900.0	[ft]	DC	RRI
5940.0	[ft]	DC	RRI
5980.0	[ft]	DC	RRI
6000.0	[ft]	DC	
6020.0	[ft]	DC	RRI
6060.0	[ft]	DC	RRI
6100.0	[ft]	DC	RRI
6100.0	[ft]	DC	
6140.0	[ft]	DC	RRI
6180.0	[ft]	DC	RRI
6200.0	[ft]	DC	
6230.0	[ft]	DC	RRI
6260.0	[ft]	DC	RRI
6290.0	[ft]	DC	
6305.0	[ft]	DC	RRI
6335.0	[ft]	DC	RRI
6380.0	[ft]	DC	RRI
6395.0	[ft]	DC	
6410.0	[ft]	DC	RRI
6470.0	[ft]	DC	RRI
6500.0	[ft]	DC	RRI
6500.0	[ft]	DC	
6540.0	[ft]	DC	RRI
6590.0	[ft]	DC	RRI
6600.0	[ft]	DC	
6620.0	[ft]	DC	RRI



6660.0 [ft]	DC	RRI
6690.0 [ft]	DC	
6700.0 [ft]	DC	RRI
6740.0 [ft]	DC	RRI
6780.0 [ft]	DC	RRI
6800.0 [ft]	DC	
6820.0 [ft]	DC	RRI
6840.0 [ft]	DC	RRI
6880.0 [ft]	DC	RRI
6900.0 [ft]	DC	
6920.0 [ft]	DC	RRI
6960.0 [ft]	DC	RRI
7000.0 [ft]	DC	RRI
7000.0 [ft]	DC	
7040.0 [ft]	DC	RRI
7080.0 [ft]	DC	RRI
7100.0 [ft]	DC	
7120.0 [ft]	DC	RRI
7140.0 [ft]	DC	RRI
7180.0 [ft]	DC	RRI
7200.0 [ft]	DC	
7220.0 [ft]	DC	RRI
7260.0 [ft]	DC	RRI
7300.0 [ft]	DC	
7400.0 [ft]	DC	
7500.0 [ft]	DC	
7600.0 [ft]	DC	
7700.0 [ft]	DC	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
102	NORDLAND GP
600	HORDALAND GP
967	ROGALAND GP
967	BALDER FM
990	SELE FM
1005	LISTA FM
1020	SHETLAND GP



1020	EKOFISK FM
1040	TOR FM
1361	HOD FM
1447	CROMER KNOLL GP
1447	RAN SANDSTONE UNITS
1510	RØDBY FM
1587	SOLA FM
1665	TUXEN FM
1724	ÅSGARD FM
2083	BOKNFJORD GP
2083	FLEKKEFJORD FM
2101	SAUDA FM
2180	TAU FM
2195	EGERSUND FM
2211	NO GROUP DEFINED
2211	SKAGERRAK FM
2315	SMITH BANK FM
2517	ZECHSTEIN GP

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
906	pdf	0.49

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
906_1	pdf	1.28

Dokumenter - eldre Sjøkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
906_01_WDSS_General_Information	pdf	0.21





Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
906_01_Exploration_well_resume	pdf	8.44
906_02_Composite_well_log	pdf	1.50

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CAL	165	415
CBL	1068	1158
CDM	1155	3244
FDC	415	3244
IES	166	2196
LL	415	3246
MLL-C	415	3244
SGR	165	2194
SGR-C	2165	3244
SNP	415	3244
SRS	121	3244
TS	0	442

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
CONDUCTOR	30	166.0	36	170.0	0.00	LOT
SURF.COND.	20	413.0	26	419.0	0.00	LOT
INTERM.	13 3/8	1170.0	17 1/2	1177.0	0.00	LOT
OPEN HOLE		3270.0	12 1/4	3270.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
152	1.01			seawater	
419	1.04	90.0		waterbased	
1173	1.17	36.0		waterbased	





2195	1.24	42.0		waterbased	
2540	1.24	58.0		waterbased	
2681	1.34	65.0		waterbased	
3269	1.37	53.0		waterbased	