



Generell informasjon

Brønnbane navn	25/10-1
Type	EXPLORATION
Formål	APPRAISAL
Status	SUSPENDED
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	BALDER
Funn	25/11-1 Balder
Brønn navn	25/10-1
Seismisk lokalisering	LINE SC 70-shotpoint 136
Utvinningstillatelse	028
Boreoperatør	Esso Exploration and Production Norway A/S
Boretillatelse	32-L
Boreinnretning	GLOMAR GRAND ISLE
Boredager	74
Borestart	04.08.1969
Boreslutt	16.10.1969
Frigitt dato	16.10.1971
Publiseringsdato	26.05.2009
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	10.0
Vanndybde ved midlere havflate [m]	124.0
Totalt målt dybde (MD) [m RKB]	1747.0
Totalt vertikalt dybde (TVD) [m RKB]	1747.0
Maks inklinasjon [°]	4.9
Temperatur ved bunn av brønnbanen [°C]	76
Eldste penetrerte alder	PALEOCENE
Eldste penetrerte formasjon	SELE FM
Geodetisk datum	ED50
NS grader	59° 11' 21.72" N
ØV grader	2° 19' 11.83" E
NS UTM [m]	6561488.14



ØV UTM [m]	461142.95
UTM sone	31
NPDID for brønnbanen	441

Brønnhistorie

General

Well 25/10-1 is located in the western part of the Balder Field in the North Sea. It was drilled on the crest of an Eocene structure up dip from the 25/11-1 Balder Discovery well, which had thin, oil-bearing Lower Eocene sands underlain by wet Paleocene sands. The purpose was to test this structure, and it was anticipated that 25/10-1 would find the Paleocene sands structurally higher and oil-bearing.

Operations and results

Appraisal well 25/10-1 was spudded with the vessel Glomar Grand Isle on 4 August 1969. The pipe got stuck at 1572 m. Fishing was unsuccessful and a technical sidetrack was made. The well was drilled to 1747 m (TD) into Paleocene shale belonging to the Sele Formation, where it was plugged and suspended due to severe winter autumn storms. A later re-entry would complete the well objectives. Initial drilling from the set floor to 997 m was with sea water and gel. From 997 m to TD, the mud system consisted of seawater/spersene XP-20, Splinex mud.

Down to top Oligocene at 1247 m the sediments were composed of soft clays and unconsolidated sands and silts with no indication of hydrocarbons. The lower part of the well section (Early Eocene, Balder Formation) was predominantly grey shale with very thin sands developed below a volcanic ash zone near the base. These sands had good oil shows and tested 24.8 - 25.1 deg API gravity oil on wire line formation tests in the re-entry well 25/10-1 R, but were too thin to be considered commercial.

The section from 1664.8 to TD in this well was cored all through in eight cores, with near 100% total recovery. A further five cores in partially overlapping lithology, were cut in the re-entry well 25/10-1 R. No wire line tests were performed in this well, but a number of wire line FITs, including fluid sampling, were taken in the re-entry well.

The well was suspended on 16 October 1969. It is classified as a well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
385.57	1706.88

Borekaks tilgjengelig for prøvetaking?	NO
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	5480.0	5517.0	[ft]
2	5517.0	5549.0	[ft]
3	5550.0	5605.0	[ft]
4	5605.0	5645.0	[ft]
5	5645.0	5688.0	[ft]
6	5688.0	5705.0	[ft]
7	5705.0	5719.0	[ft]
8	5719.0	5733.0	[ft]

Total kjerneprøve lengde [m]	76.8
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



5480-5487ft



5487-5497ft



5497-5508ft



5508-5517ft



5517-5526ft



5526-5537ft



5537-5549ft



5550-5560ft



5560-5572ft



5572-5584ft



5584-5596ft



5596-5605ft



5605-5613ft



5619-5628ft



4528-5636ft



5636-5645ft



5645-5453ft



5653-5662ft



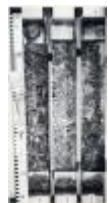
5662-5671ft



5671-5680ft



5688-5696ft



5696-5705ft



5705-5713ft



5713-5719ft



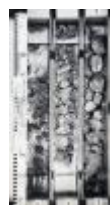
5719-5727ft



5727-5733ft



5680-5687ft



5687-5696ft



5696-5705ft



5705-5714ft



5725-5732ft



5732-5741ft



5741-5750ft



5750-5756ft



5767-5776ft



5776-5785ft



5785-5794ft



5794-5797ft



5799-5859ft



5799-5859ft



5799-5859ft



5799-5859ft



5799-5859ft



5799-5859ft



5799-5859ft



5859-5919ft



5859-5919ft



5859-5919ft



5859-5919ft



5859-5919ft



5859-5919ft



5859-5919ft

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
0.0	[m]	C	
1718.7	[m]	C	
1718.7	[m]	C	
1723.8	[m]	C	
1723.8	[m]	C	
1735.8	[m]	C	
1735.8	[m]	C	
1737.8	[m]	C	
1737.8	[m]	C	
1745.5	[m]	C	
1745.5	[m]	C	
1748.8	[m]	C	
1748.8	[m]	C	
1804.0	[m]	C	
1804.0	[m]	C	
1841.0	[ft]	SWC	
2221.0	[ft]	SWC	
2490.0	[ft]	DC	
2566.0	[ft]	SWC	
2608.0	[ft]	SWC	
2608.0	[ft]	DC	
2717.0	[ft]	SWC	
2790.0	[ft]	DC	



2880.0 [ft]	DC	
3000.0 [ft]	DC	
3090.0 [ft]	DC	
3180.0 [ft]	DC	
3270.0 [ft]	DC	
3300.0 [ft]	DC	
3390.0 [ft]	DC	
3490.0 [ft]	DC	
3510.0 [ft]	DC	
3580.0 [ft]	DC	
3670.0 [ft]	DC	
3790.0 [ft]	DC	
3880.0 [ft]	DC	
4000.0 [ft]	DC	
4060.0 [ft]	DC	
4090.0 [ft]	DC	
4120.0 [ft]	DC	
4180.0 [ft]	DC	
4180.0 [ft]	DC	
4210.0 [ft]	DC	
4270.0 [ft]	DC	
4300.0 [ft]	DC	
4390.0 [ft]	DC	
4420.0 [ft]	DC	
4502.0 [ft]	SWC	
4540.0 [ft]	DC	
4557.0 [ft]	SWC	
4570.0 [ft]	DC	
4596.0 [ft]	SWC	
4600.0 [ft]	DC	
4630.0 [ft]	DC	
4660.0 [ft]	DC	
4700.0 [ft]	SWC	
4720.0 [ft]	DC	
4750.0 [ft]	DC	
4780.0 [ft]	DC	
4820.0 [ft]	SWC	
4840.0 [ft]	DC	
4900.0 [ft]	DC	
4918.0 [ft]	SWC	



4930.0 [ft]	DC	
4960.0 [ft]	DC	
4990.0 [ft]	DC	
5010.0 [ft]	SWC	
5020.0 [ft]	DC	
5050.0 [ft]	DC	
5140.0 [ft]	DC	
5197.0 [ft]	SWC	
5200.0 [ft]	SWC	
5250.0 [ft]	DC	
5295.0 [ft]	SWC	
5350.0 [ft]	SWC	
5350.0 [ft]	DC	
5400.0 [ft]	SWC	
5410.0 [ft]	SWC	
5420.0 [ft]	SWC	
5432.0 [ft]	SWC	
5450.0 [ft]	SWC	
5450.0 [ft]	DC	
5460.0 [ft]	SWC	
5485.0 [ft]	C	
5489.0 [ft]	C	
5490.0 [ft]	DC	
5490.5 [ft]	SWC	
5492.5 [ft]	C	
5493.0 [ft]	C	
5509.0 [ft]	C	
5510.0 [ft]	C	
5535.0 [ft]	C	
5549.0 [ft]	C	
5550.0 [ft]	C	
5550.0 [ft]	DC	
5559.0 [ft]	C	
5560.0 [ft]	C	
5580.0 [ft]	DC	
5586.0 [ft]	C	
5602.0 [ft]	C	
5626.0 [ft]	C	
5675.0 [ft]	C	
5682.0 [ft]	C	



5691.0 [ft]	SWC	
5697.0 [ft]	C	
5698.0 [ft]	C	
5700.0 [ft]	C	
5704.0 [ft]	C	
5710.0 [ft]	C	
5713.0 [ft]	C	
5720.0 [ft]	DC	
5729.0 [ft]	C	
5734.0 [ft]	C	
5748.0 [ft]	C	
5750.0 [ft]	DC	
5755.0 [ft]	C	
5780.0 [ft]	DC	
5784.0 [ft]	C	
5786.0 [ft]	C	
5795.0 [ft]	C	
5797.0 [ft]	C	
5800.0 [ft]	DC	
5806.0 [ft]	C	
5810.0 [ft]	C	
5814.0 [ft]	C	
5817.0 [ft]	C	
5828.0 [ft]	C	
5828.0 [ft]	C	
5829.0 [ft]	C	
5874.0 [ft]	SWC	
5900.0 [ft]	DC	
5911.0 [ft]	C	
5916.0 [ft]	SWC	
5919.0 [ft]	C	
5920.0 [ft]	DC	
5959.0 [ft]	C	
5970.0 [ft]	DC	
5980.0 [ft]	SWC	
6000.0 [ft]	DC	
6026.0 [ft]	SWC	
6080.0 [ft]	DC	
6090.0 [ft]	SWC	
6106.0 [ft]	SWC	



6134.0 [ft]	SWC	
6181.0 [ft]	SWC	
6200.0 [ft]	DC	
6214.0 [ft]	SWC	
6250.0 [ft]	SWC	
6262.0 [ft]	SWC	
6272.0 [ft]	SWC	
6290.0 [ft]	DC	
6294.0 [ft]	SWC	
6310.0 [ft]	SWC	
6334.0 [ft]	SWC	
6390.0 [ft]	SWC	
6396.0 [ft]	SWC	
6400.0 [ft]	DC	
6412.0 [ft]	SWC	
6426.0 [ft]	SWC	
6436.0 [ft]	SWC	
6450.0 [ft]	SWC	
6450.0 [ft]	DC	
6488.0 [ft]	SWC	
6500.0 [ft]	DC	
6548.0 [ft]	SWC	
6556.0 [ft]	SWC	
6580.0 [ft]	SWC	
6600.0 [ft]	DC	
6609.0 [ft]	SWC	
6618.0 [ft]	SWC	
6630.0 [ft]	SWC	
6641.0 [ft]	SWC	
6662.0 [ft]	SWC	
6683.0 [ft]	SWC	
6700.0 [ft]	DC	
6724.0 [ft]	SWC	
6724.0 [ft]	SWC	
6736.0 [ft]	SWC	
6746.0 [ft]	SWC	
6774.0 [ft]	SWC	
6782.0 [ft]	SWC	
6800.0 [ft]	DC	
6812.0 [ft]	SWC	



6834.0	[ft]	SWC	
6840.0	[ft]	SWC	
6850.0	[ft]	DC	

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
134	NORDLAND GP
555	UTSIRA FM
675	NO FORMAL NAME
733	HORDALAND GP
733	SKADE FM
1045	NO FORMAL NAME
1192	NO FORMAL NAME
1247	NO FORMAL NAME
1682	ROGALAND GP
1682	BALDER FM
1699	INTRA BALDER FM SS
1705	BALDER FM
1717	SELE FM
1730	HERMOD FM
1745	SELE FM

Dokumenter - eldre Sökkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
441_01_WDSS_General_Information	pdf	0.19

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
441_00_25_10_1_Completion_Log	pdf	1.33
441_00_25_10_1_Completion_Report	pdf	3.46

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
DIP	380	1746
FDC	380	1074
GR	123	380
IEL	380	1746
MLL	380	1073
SON BHC GR	380	1743
VELOCITY	380	1740

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	162.0	36	170.0	0.00	LOT
SURF.COND.	20	380.0	26	386.0	0.00	LOT
INTERM.	13 3/8	1045.0	17 1/2	1061.0	0.00	LOT
INTERM.	9 5/8	1370.0	12 1/4	1385.0	0.00	LOT
OPEN HOLE		1747.0	8 1/2	1747.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	Flytegrense [Pa]	Type slam	Dato, måling
162	1.00			sea water	
380	1.01			sea water	
1045	0.00			spersen	
1370	1.13			spersen	
1754	1.14			spersen	

Trykkplott

Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
441 Formation pressure (Formasjonstrykk)	PDF	0.14

