



Generell informasjon

Brønnbane navn	6407/2-1
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORWEGIAN SEA
Brønn navn	6407/2-1
Seismisk lokalisering	715 - 259 SP 840
Utvinningstillatelse	074
Boreoperatør	Saga Petroleum ASA
Boretillatelse	332-L
Boreinnretning	WEST VENTURE OLD
Boredager	65
Borestart	03.06.1982
Boreslutt	06.08.1982
Frigitt dato	06.08.1984
Publiseringsdato	13.12.2005
Opprinnelig formål	WILDCAT
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	33.0
Vanndybde ved midlere havflate [m]	266.0
Totalt målt dybde (MD) [m RKB]	3870.0
Totalt vertikalt dybde (TVD) [m RKB]	3869.0
Maks inklinasjon [°]	3
Temperatur ved bunn av brønnbanen [°C]	130
Eldste penetrerte alder	LATE TRIASSIC
Eldste penetrerte formasjon	RED BEDS (INFORMAL)
Geodetisk datum	ED50
NS grader	64° 58' 4.97" N
ØV grader	7° 28' 28.12" E
NS UTM [m]	7205942.44
ØV UTM [m]	427977.33
UTM sone	32
NPDID for brønnbanen	76



Brønnhistorie

General

Wildcat well 6407/2-1 was drilled in the Møre-Trøndelag II area offshore Mid-Norway, approximately 215 km NW of Trondheim. The overall goal with this early well was to establish the total stratigraphic column down to Late Triassic. The primary targets were Middle and the Early Jurassic Sandstone units. Secondary targets were the sequence below the Top Palaeocene reflector, the Early Cretaceous sequence, which could show development of sand, and the Triassic sandstones/siltstones immediately below the Åre Formation.

The well is Type Well for the Spekk and Ror Formations.

Operations and results

Well 6407/2-1 was spudded with the semi-submersible installation West Venture on 3 June 1982 and drilled to TD at 3870 m, 40 into the Late Triassic Red Beds. Operations went without significant problems. The well was drilled with spud mud down to 409 m. The 26" section was first drilled as a 14 3/3" pilot hole from 409 m to 1013 m using gel/gypsum mud. At this point 30 bbl of diesel was added to reduce mud weight. The hole section was then opened up with a 26" underreamer using gel/gypsum mud with further diesel addition. The 17 1/2 section was drilled with polymer/gypsum/lignosulphonate from 1013 m to 2215 m, and the remaining well was drilled with a lignite/lignosulphonate mud down to TD.

The well proved mainly claystones down to Middle and Early Jurassic Sandstones. The Tertiary with a total thickness of 1848.5 m, rested unconformably on the Late Cretaceous where the topmost Maastrichtian was missing. Otherwise the Cretaceous section was nearly complete, and relatively thick (ca 700 m) compared to other wells in the area. High gas readings were experienced in the upper part of the Cretaceous (Santonian - Campanian) with weak oil shows on cuttings and two SWCs. A study of wire line logs, sidewall cores and hole response indicated that the gas was overpressured, and trapped in a non-reservoir lithology. The base Cretaceous unconformity (base Lyr Formation) was penetrated at 2842.5 m, overlying a 65.5 m thick Jurassic shale sequence similar to the Kimmeridgian Clay Formation (Spekk Formation). The two Jurassic Sandstone units were 133 m (Fangst Group) and 169 m (Tilje Formation) thick. In contrast to what is seen in the other wells in the area, the upper unit contains a shaly sequence of about 30 m thickness. A "Coal Unit" (Åre Formation) of 378 m thickness, mainly composed of interbedded carbonaceous claystone/shale, fine sand and silt, overlies the Triassic Grey and Red beds.

Six conventional cores were cut, one in the Late Cretaceous, two in the Fangst Group, one in the Ror Formation and two in the Åre Formation Coal Unit, with a total recovery of 66.11 m. No fluid sample was taken.

The well was permanently abandoned on 6 August 1982 as a well with shows.

Testing

No drill stem test was performed.

Borekaks i Sokkeldirektoratet



Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
410.00	3871.00

Borekaks tilgjengelig for prøvetaking?	NO
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Borekjerne i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	2417.0	2434.4	[m]
2	2940.0	2940.3	[m]
3	2943.0	2957.7	[m]
4	3085.0	3100.4	[m]
5	3478.0	3479.6	[m]
6	3480.0	3496.8	[m]

Total kjerneprøve lengde [m]	66.1
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



2417-2422m



2422-2427m



2427-2432m



2432-2434m



2940-2941m



2943-2948m



2948-2953m



2953-2957m



3085-3090m



3090-3095m





3095-3100m 3100-3101m 3478-3479m 3480-3485m 3485-3490m



3490-3495m



3495-3497m

Palynologiske preparater i Sokkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
1790.0	[m]	DC	OD
2120.0	[m]	DC	OD
2130.0	[m]	DC	OD
2140.0	[m]	DC	OD
2150.0	[m]	DC	OD
2155.0	[m]	DC	SAGA
2160.0	[m]	DC	OD
2170.0	[m]	DC	SAGA
2170.0	[m]	DC	OD
2180.0	[m]	DC	SAGA
2180.0	[m]	DC	OD
2190.0	[m]	DC	OD
2200.0	[m]	DC	SAGA
2200.0	[m]	DC	OD
2210.0	[m]	DC	OD
2213.5	[m]	SWC	SAGA
2220.0	[m]	DC	OD
2225.5	[m]	SWC	SAGA
2230.0	[m]	DC	OD
2240.0	[m]	DC	OD
2240.5	[m]	SWC	SAGA
2250.0	[m]	DC	OD
2259.0	[m]	SWC	SAGA
2260.0	[m]	DC	OD
2270.0	[m]	DC	OD
2272.7	[m]	SWC	SAGA
2280.0	[m]	DC	OD



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 29.5.2024 - 14:15

2284.5	[m]	SWC	SAGA
2290.0	[m]	DC	OD
2300.0	[m]	DC	OD
2302.0	[m]	SWC	SAGA
2310.0	[m]	DC	OD
2320.0	[m]	DC	OD
2330.0	[m]	DC	OD
2335.0	[m]	DC	SAGA
2340.0	[m]	DC	OD
2348.0	[m]	SWC	SAGA
2350.0	[m]	DC	OD
2360.0	[m]	DC	OD
2365.5	[m]	SWC	SAGA
2370.0	[m]	DC	OD
2380.0	[m]	DC	OD
2384.5	[m]	SWC	SAGA
2390.0	[m]	DC	OD
2395.0	[m]	DC	SAGA
2400.0	[m]	DC	OD
2410.0	[m]	DC	OD
2410.0	[m]	DC	SAGA
2417.0	[m]	C	OD
2418.0	[m]	C	OD
2418.1	[m]	C	OD
2419.5	[m]	C	OD
2419.5	[m]	C	OD
2420.0	[m]	DC	OD
2420.0	[m]	SWC	OD
2420.7	[m]	C	OD
2421.7	[m]	C	OD
2422.7	[m]	C	OD
2423.5	[m]	C	OD
2424.5	[m]	C	OD
2424.5	[m]	C	OD
2424.7	[m]	C	OD
2425.6	[m]	C	OD
2427.1	[m]	C	OD
2428.1	[m]	C	OD
2428.6	[m]	C	OD
2429.0	[m]	C	OD



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 29.5.2024 - 14:15

2429.3	[m]	C	OD
2430.0	[m]	DC	OD
2430.3	[m]	C	OD
2430.7	[m]	C	OD
2431.7	[m]	C	OD
2432.2	[m]	C	OD
2433.6	[m]	C	OD
2434.3	[m]	C	OD
2434.4	[m]	C	OD
2434.4	[m]	C	OD
2440.0	[m]	DC	OD
2450.0	[m]	DC	OD
2453.0	[m]	SWC	OD
2460.0	[m]	DC	OD
2470.0	[m]	DC	OD
2473.0	[m]	SWC	OD
2480.0	[m]	DC	OD
2485.0	[m]	DC	OD
2490.0	[m]	DC	OD
2500.0	[m]	DC	OD
2509.0	[m]	DC	OD
2511.0	[m]	SWC	OD
2521.0	[m]	DC	OD
2530.0	[m]	DC	OD
2530.0	[m]	SWC	OD
2533.0	[m]	DC	OD
2539.0	[m]	DC	OD
2541.0	[m]	SWC	OD
2548.0	[m]	DC	OD
2557.0	[m]	SWC	OD
2560.0	[m]	DC	OD
2572.0	[m]	DC	OD
2575.0	[m]	DC	OD
2581.0	[m]	DC	OD
2590.0	[m]	DC	OD
2592.0	[m]	SWC	OD
2599.0	[m]	DC	OD
2611.0	[m]	DC	OD
2618.0	[m]	SWC	OD
2620.0	[m]	DC	OD



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 29.5.2024 - 14:15

2629.0	[m]	DC	OD
2632.0	[m]	SWC	OD
2641.0	[m]	DC	OD
2650.0	[m]	DC	OD
2652.0	[m]	SWC	OD
2662.0	[m]	DC	OD
2668.0	[m]	SWC	OD
2671.0	[m]	DC	OD
2680.0	[m]	DC	OD
2682.0	[m]	SWC	OD
2691.5	[m]	SWC	OD
2692.0	[m]	DC	OD
2701.0	[m]	DC	OD
2703.0	[m]	SWC	OD
2710.0	[m]	DC	OD
2719.0	[m]	DC	OD
2721.0	[m]	SWC	OD
2731.0	[m]	DC	OD
2737.0	[m]	DC	OD
2743.0	[m]	DC	OD
2752.0	[m]	DC	OD
2761.0	[m]	DC	OD
2767.0	[m]	DC	OD
2770.0	[m]	DC	OD
2779.0	[m]	DC	OD
2788.0	[m]	DC	OD
2797.0	[m]	DC	OD
2800.0	[m]	DC	OD
2812.0	[m]	DC	OD
2821.0	[m]	DC	OD
2830.0	[m]	DC	OD
2839.0	[m]	DC	OD
2842.0	[m]	DC	OD
2848.0	[m]	SWC	OD
2851.0	[m]	DC	OD
2859.0	[m]	SWC	OD
2872.0	[m]	DC	OD
2880.0	[m]	SWC	OD
2902.0	[m]	DC	OD
2904.5	[m]	SWC	OD



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 29.5.2024 - 14:15

2907.0	[m]	SWC	OD
2913.0	[m]	SWC	OD
2932.0	[m]	DC	OD
2947.0	[m]	DC	OD
2962.0	[m]	DC	OD
2977.0	[m]	DC	OD
2992.0	[m]	DC	OD
3008.0	[m]	SWC	OD
3014.0	[m]	SWC	OD
3022.0	[m]	DC	OD
3037.0	[m]	DC	OD
3052.0	[m]	DC	OD
3061.0	[m]	DC	OD
3082.0	[m]	DC	OD
3112.0	[m]	DC	OD
3127.0	[m]	DC	OD
3142.0	[m]	DC	OD
3187.0	[m]	DC	OD
3202.0	[m]	DC	OD
3217.0	[m]	DC	OD
3232.0	[m]	DC	OD
3247.0	[m]	DC	OD
3262.0	[m]	DC	OD
3277.0	[m]	DC	OD
3292.0	[m]	DC	OD
3322.0	[m]	DC	OD
3357.0	[m]	SWC	OD
3367.0	[m]	DC	OD
3427.0	[m]	DC	OD
3457.0	[m]	DC	OD
3472.0	[m]	DC	OD
3487.0	[m]	DC	OD
3502.0	[m]	DC	OD
3517.0	[m]	DC	OD
3562.0	[m]	DC	OD
3577.0	[m]	DC	OD
3592.0	[m]	DC	OD
3612.5	[m]	SWC	OD
3622.0	[m]	DC	OD
3637.0	[m]	DC	OD



3652.0	[m]	DC	OD
3667.0	[m]	DC	OD
3682.0	[m]	DC	OD
3694.0	[m]	SWC	OD
3731.0	[m]	SWC	OD
3762.5	[m]	SWC	OD
3772.0	[m]	DC	OD
3802.0	[m]	DC	OD
3817.0	[m]	DC	OD

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
299	NORDLAND GP
299	NAUST FM
1392	KAI FM
1650	HORDALAND GP
1650	BRYGGE FM
1997	ROGALAND GP
1997	TARE FM
2096	TANG FM
2147	SHETLAND GP
2147	SPRINGAR FM
2255	NISE FM
2424	KVITNOS FM
2535	CROMER KNOLL GP
2535	LANGE FM
2827	LYR FM
2843	VIKING GP
2843	SPEKK FM
2908	MELKE FM
2939	FANGST GP
2939	GARN FM
2984	NOT FM
3015	ILE FM
3072	BÅT GP
3072	ROR FM
3176	TILJE FM
3345	ÅRE FM



3723	GREY BEDS (INFORMAL)
3830	RED BEDS (INFORMAL)

Spleisede logger

Dokument navn	Dokument format	Dokument størrelse [KB]
76	pdf	0.80

Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
76_1	pdf	0.41
76_2	pdf	7.23
76_3	pdf	1.72
76_4	pdf	1.31
76_5	pdf	0.56
76_6	pdf	0.28
76_7	pdf	0.55
76_8	pdf	1.42

Dokumenter - eldre Søkeldirektoratets WDSS rapporter og andre relaterte dokumenter

Dokument navn	Dokument format	Dokument størrelse [KB]
76_01 WDSS General Information	pdf	0.16
76_02 WDSS completion log	pdf	0.27

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
76_01 CompletionReport & Completionlog	pdf	23.86

Logger





Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CBL VDL GR	780	2200
CBL VDL GR CCL	1785	2717
CST	2206	2725
CST	2730	3870
DIPMETER	2717	3869
FDC CNL GR	2201	2722
HDT	2201	2727
ISF LSS MSFL GR	409	1011
ISF LSS MSFL GR	2201	2573
ISF LSS MSFL GR	2500	2726
ISF LSS MSFL GR	2717	3869
LDL CNL GR	2717	3869
LDT CNL CAL GR	409	1010
RFT	2259	2278
RFT	2947	3774
TEMP	600	2160
VSP WST	408	3869

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	409.0	36	409.0	0.00	LOT
SURF.COND.	20	1004.0	26	1013.0	1.64	LOT
INTERM.	13 3/8	2203.0	17 1/2	2215.0	1.74	LOT
INTERM.	9 5/8	2718.0	12 1/4	2729.0	1.83	LOT
OPEN HOLE		3870.0	8 1/2	3870.0	0.00	LOT

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
400	1.09	36.0		waterbased	
1000	1.14	38.0		waterbased	
1230	1.14	39.0		waterbased	
1960	1.20	54.0		waterbased	
2270	1.36	47.0		waterbased	



2830	1.26	56.0		waterbased	
3800	1.23	50.0		waterbased	

Tynnslip i Sokkeldirektoratet

Dybde	Enhet
2418.10	[m]
2428.60	[m]
2424.50	[m]
2434.30	[m]
2429.00	[m]

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]
76 Formation pressure (Formasjonstrykk)	PDF	0.29

