SIMON PETROLEUM TECHNOLOGY

Print: 12261 H | Units: (M) F | Length: 19 FT | Initials: July

WELL: 34/10-33B | Top: 1840 | Bottom: 3945 | Scale: 1:500 | TD: 3942

DIGITAL WIRELINE LOGS PACKAGE
1994
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SIMON PETROLEUM TECHNOLOGY

COMPLETION LOG

U-591

REGISTRERT
OLJEDIREKTORATET
07 MARS 1990

PARTNERS
NORSK HYDRO/SAGA PETROLEUM

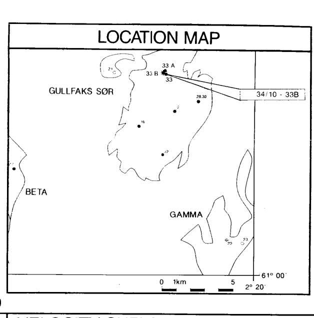
STATOIL

WELL
34/10-33B COMPLETION LOG
Scale 1:500

PROSPECT STRUCTURE
GULLFAKS SØR

AREA: NORTHERN NORTH SEA
LICENCE: PL 050
COORDINATES: 61° 07′ 34.44" N
02° 12′ 57.10"E
K.B.: 23m
WATER DEPTH: 134m
TOTAL DEPTH: 3942m
DEEPEST FORM. PEN.: NESS FM
SPUD DATE: (RE-ENTRY): 27.04.89
RIG RELEASE DATE: 10.07.89
WELL STATUS: PLUGGED BACK FOR SIDETRACK
RIG: DEEPSEA BERGEN
CONTRACTOR: ODFJELL DRILLING
GEOLOGISTS: FRISTAD, JENSEN, AGA, HELLE, GREVE, SVINDLAND
PREPARED BY: B. LAASTAD DATE: NOV. 89

LOCATION MAP



CASING DATA:	LEAK OFF TESTS:	VELOCITY SURVEY:
30" at 219m	—	
20" at 453m	1.43 SG	
16" at —	—	
13 3/8" at 1822m	1.65 SG	
9 5/8" at 3484.5m	1.70 SG (FIT)	
7" at —	—	

LOGS RUN — CONTRACTOR: ATLAS W./SPERRY SUN/ANADRILL

GR (MWD)	EWR-GR-SFØ-CN-(MWD)	4-ARM CAL - GR	GYRO-CCL-GR	CHFT-GR	CDL-CN-GR	FMT-HP-GR
RUN # 1-22 1840 - 3942m	RUN # 1-7 3484.5 - 3906m	RUN 1A: 1822 - 3419m	RUN 2A: 1690 - 3440m ACBL-VDL-CCL-GR RUN 2A: 1800 - 3475m	RUN 3A: 3299.5m RUN 3B: 3335m RUN 3C: 3238m RUN 3D: 3358.6m RUN 3E: 3336.1m	RUN 3A: 3185 - 3475m This log was run on wireline inside 9 5/8" casing	RUN 3A: 3551 - 3894m RUN 3B: MISRUN RUN 3C: 3551 - 3892m All logs were run on drill pipe

COMMENTS:
1. This well was drilled as a sidetrack from well 34/10-33. The kick -off point was at 1840m MD RKB
2. The transition between gas and oil in the well is defined across a pressure barrier at approximately 3370m MD RKB (3310 m TVD RKB)
3. The transition between oil and water in the well is defined across a pressure barrier at approximately 3680m MD RKB (3412m TVD RKB)
4. The MWD-GR and -DWOB logs failed between 2520 and 2980m MD
5. The CDL-CN-GR log between 3190 and 3467m is run on wireline inside 9 5/8" casing.
6. The horizontal section of the well is between 3670 and 3942m MD (TD)
7. Due to severe hole stability problems, the 8 1/2" hole section had to be plugged and abandoned without the planned production test.
8. No biostratigraphical breakdown was done in this well, please refer to well 34/10-33

LITHOLOGICAL SYMBOLS

CONGLOMERATE, SHALE, MARL, COAL or LIGNITE, FORAMS, MICA
SAND SANDSTONE, LIMESTONE, TUFF, WOOD FRAGS, BURROWS, KAOLINITE
SILT SILTSTONE, CHALK, SALT GEN'L, FOSSILS GEN'L, PYRITE, CHERT
CLAY CLAYSTONE, DOLOMITE, ANHYDRITE, SHELL FRAGS, GLAUCONITE, SIDERITE

STAIN, FLUORESCENCE, CUT FLUOR, GAS SHOWS

SIDEWALL CORES: REC., REC. W/SHOW, NO REC
CORES: CORE NO
DST
RFT/FMT: UNSUCCESSFUL
CASING SHOE/LINER

Brønn: 34/10-33B

Kjøring nr nr.:	Målt dyp (m MD BD)	Vert. dyp (mTVD MHN)	Form. trykk (bar)	Hydr.st.trykk (bar)	Kommentarer
3A (FMT[1])	3894.0				Forseglingsfeil
	3892.5				=
	3887.0				=
	3880.0				=
	3857.5				=
	3856.0				=
	3844.5				=
	3818.0				=
	3763.3				=
	3741.5				=
	3738.5				=
	3719.6				=
	3701.0				=
	3668.0	3388.0	459.90	539.40	God test
	3637.0				Forseglingsfeil
	3618.0				=
	3551.0				FMT-feil feilet
3B	Mislykket kjøring				
3C	3551.0	3369.4	-	-	Forseglingsfeil
	3618.0	3382.9	461.31	541.31	God test
	3638.0	3386.0	460.38	544.34	=
	3668.0	3388.0	459.85	542.21	=
	3738.5	3385.4	(460.8)	543.90	Supercharged
	3756.0	3384.3	456.86	538.44	God test
	3757.0	3384.2	456.91	538.51	=
	3817.5	3380.4	457.56	540.58	=
	3892.0	3376.0	457.56	540.37	Prøvetaking/God
4A (CHFT[2])	3299.5	3237.2	451.86	518.97	Prøvetaking OK test
4B	3335.0	3263.2	452.62	524.48	Prøvetaking Lavperm.
4C	3238.0	3188.4	449.28	513.52	Brukbar test
4D	3358.6	3279.1	452.0	530.90	=
4E	3336.1	3263.9	450.58	527.93	=

* FMT kjørt på borestrengen.

[1] FMT: Formation Multi Tester
[2] CHFT: Cased Hole Formation Tester