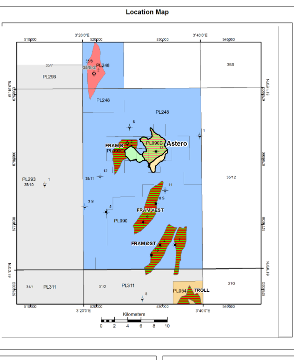
HYDRO

COMPLETION LOG
ASTERO

Scale: 1 / 500

Well: 35/11-13

Location Map



KB Elevation	25.0 m	Country	Norway
Water Depth	361.7 m	Licence	PL 090
Depth Reference	RKB	Owners	Hydro 25 %, Mobil 25 %, Statoil 20%, Idemitsu 15 %, Gaz de France 15 %
Total Depth (Driller)	3291.5 m MD RKB 3290.9 m TVD RKB		
Total Depth (Logger)	3295 m MD RKB 3294.4 m MD RKB		
Formation at Total Depth	Heather	Field	Astero
		Platform	Deepsea Trym
Date Spudded	18.03.2005		
Date Reached TD	29.04.2005	Drilling Contractor	Odfjell Drilling
Date Abandoned	29.05.2005	Mudlogging Company	Baker Hughes Inteq
Well Status	Plugged & abandoned as a discovery well	Logging Company	Schlumberger
		MWD Company	Baker Hughes Inteq
Well Classification	Exploration	Geologists	S.Bjerkenes, M.Henderson, B.Schønningsen, M.Tillung, E.Skottlien
Prepared by	Henderson, Tillung, Schønningsen, Bjerkenes, Skottlien		
Controlled by			
Date	November 2005		
Revision	1.0		
Well Coordinates	Geographic:	61° 09' 44.05" N	3° 32' 21.36" E
	UTM zone 31 (CM 3°E), ED50	6 781 139.0 m N	529 019.0 m E

Output log file created : 2005-12-13 12:47:10
Winlog well ID : 35_11_13
Hydro (BORE) well ID : 907022
Template version : v3.02 [20031210] - AJC
Project file version : v3.01
Designed for Winlog Version 3 (TVD)

Casing Records

Diameter	Shoe depth m MD RKB	Shoe depth m TVD RKB
30" Casing shoe	471.5	471.5
20" Casing shoe	694.5	694.4
13 3/8" Casing shoe	1751.3	1751.0
9 5/8" Casing shoe	2924.4	2924.1
7" Liner shoe	3290.5	3290.1

LOT / FIT

Type	Result g/cc	Depth m MD RKB	Depth m TVD RKB
			0.0
LOT	1.47	704	703.9
FIT	1.64	1760	1759.7
FIT	1.70	2924.4	2924.1

Comments

Well spudded: 12:30hrs, 18.3.2005.
MWD Resistivity failed on 9 7/8" pilot hole. GR & Res logs taken from 26" hole opening.
MWD data down to 2925m. Wireline data spliced in below 2925m.
Wireline data approx 4m deeper than MWD.

Cores 1 & 2 plotted at original drillers depth
Lithology, descriptions & formation tops shifted to wireline depth in 8 1/2" section

Logs

Run no.	Log type	Logged interval
	MWD	
1	DIR- ECD	386 - 474
2	DIR- ECD	474 - 476
3	DIR - GR - RES - ECD	472 - 699 (pilot)
4	DIR - GR - RES - ECD	468 - 693 (26")
5	DIR - GR - RES - ECD	684 - 1145
6	DIR - GR - RES - ECD	1081 -1742
7	DIR - GR - RES - ECD	1734-1769
8	DIR - GR - RES - ECD	1764-1932
9	DIR - GR - RES - ECD	1920-2801
10	DIR - GR - RES - ECD	2780-2918
11	DIR - GR - RES - ECD	2881-2947
12	DIR - GR - RES - ECD	2924-3096
13	DIR - GR - RES - ECD	3083-3291.5
	Wireline	
1A	SP-DSI-HRLA-PEX-ECS	2925.2-3268.2
1A	MDT	3097-3205.5
1A	VSP	1611.5-3290
1B	MDT	3097-3157.5
1A	MSCT	2960-3151

Cores

Core no.	Cored interval m MD RKB		Recovered interval m MD RKB		Rec. mMD	Rec. %
1	3100	3115	3100	3114.4	14.4	96
2	3115	3142	3115	3134.3	19.3	71.5

Pressure points (MDT)

Test no.	Depth m MD RKB	Depth m TVD RKB	Fmn. Press. Bar	Test no.	Depth m MD RKB	Depth m TVD RKB	Fmn. Press. Bar
1A1	3205.5	3205.1		1A20	3123.5	3123.1	315.439
1A2	3202	3201.6	322.550	1A21	3117.5	3117.1	315.068
1A3	3200.5	3200.1	322.546	1A22	3115	3114.6	314.898
1A4	3193.5	3193.1	321.784	1A23	3112.5	3112.1	314.776
1A5	3186.5	3186.1	321.043	1A24	3107	3106.6	314.374
1A6	3183.5	3183.1	320.850	1A25	3105	3104.6	314.269
1A7	3175.5	3175.1	319.979	1A26	3102.5	3102.1	314.107
1A8	3170	3169.6	319.441	1A27	3100.5	3100.1	313.981
1A9	3166.2	3165.8	319.110	1A28	3098	3097.6	313.840
1A10	3157.5	3157.1	318.243	1A29	3097	3096.6	313.816
1A11	3155.5	3155.1	318.068	1B1	3097	3096.6	313.722
1A12	3147.5	3147.1	317.295	1B2	3107	3106.6	314.392
1A13	3142.5	3142.1	316.819	1B3	3128	3127.6	315.760
1A14	3136	3135.6	316.291	1B4	3135	3134.6	316.195
1A15	3135	3134.6	316.274	1B5	3157.5	3157.1	318.177
1A16	3134.1	3133.7	316.227	1B6	3135	3134.6	316.188
1A17	3133.3	3132.9	316.100	1B7	3137	3136.6	316.268
1A18	3128	3127.6	315.770	1B8	3136	3135.6	316.168
1A19	3126.5	3126.1	315.626				

Perforated Intervals

Interval no.	Perforation top m MD RKB	Perforation bottom m MD RKB
1	3111.5	3130

Lithology Legend

CONGLOMERATE, LIMESTONE, ANHYDRITE, SANDY, VERY, CARBONACEOUS MAT.
SAND/SANDSTONE, DOLOMITE, SALT, SANDY, CHERT
SILT/SILTSTONE, DOL. LIMESTONE, GYPSUM, SANDY, SLIGHTLY, GLAUCONITE
CLAY/CLAYSTONE, CALC. DOLOMITE, TUFF, SILTY, VERY, MICA
SHALE, CHALK, INTR. IGNEOUS, SILTY, PYRITE
SILTY, SLIGHTLY, TUFFACEOUS
ARGILLACEOUS, BITUMINOUS

Symbol legend

Casing shoe, Liner hanger, Liner shoe, Milled window
Deviation survey - MWD, Deviation survey - Other
Core interval, Perforation interval
Sidewall core (No recovery), RFT / MDT

DST: Open hole, Open hole (rerun), Through casing, Through casing (rerun)

SHOWS: Oil stain, Fluorescence, Visible cut, Fluorescence cut, Gas shows

LITHOLOGICAL DESCRIPTION

Seabed at 386.7 m MD / 386.7 m TVD RKB

387-701m: Returns to seabed. Lithology interpreted from logs and drilling parameters.

LOT 704 m MD / 703.9 m TVD RKB : 1.47 g/cc EMW

701 - 710 m Claystones

710 - 765 m Sandstones with Traces of Claystones

Hordaland Gp. at 763 m MD / 762.9 m TVD RKB

765 - 800 m Claystones with Traces of Sandstones

800 - 910 m Claystones

910 - 932 m Sandstones

932 - 1012 m Claystones

1012 - 1079 m Sandstones