

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 14.08.2000 00:00 - 15.08.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B) m	RKB-MSL Rig (OSEBERG B) m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number	Days Since Spud	Days Ahead/Behind (+/-)
	Budget: -55,0	Perfect Well: -55,2	WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 7 301,0 m	Depth TVD 2 832,3 m
	LOT/FIT g/cm3	Depth MD m	Depth TVD m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD m	TD of Well at 24:00 TVD m	Drilled 00:00-24:00 MD m
	Company Supervisor Day	Company Engineer Day	Geologist Day
	Company Supervisor Night	Company Engineer Night	Geologist Night
Operator			Contractor

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	04:00	4,00	0,0	DP	U BOP - TEST SUBSEA BOP, OK Continued to pressure test the BOP.

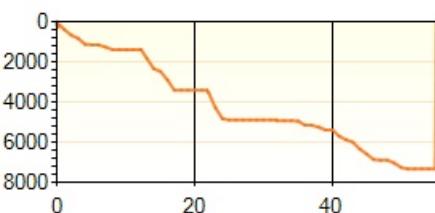
3.1 General Remarks

POB: NH-5,ODM-36,BJ-2,ADF-3,BHI-10.

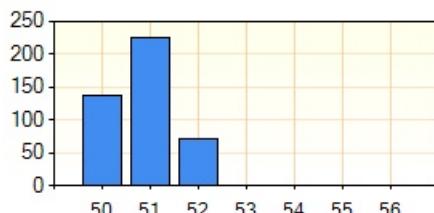
3.3 KPI

Drilling

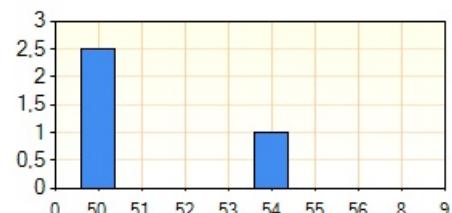
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
4,00	0,00	0,00	4,00	0,00	100,0	0,0	0,0 m/day
966,50	359,00	0,00	1 325,50	0,00	72,9	7 134,0	129,2 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Company								
Operator		4,0/1 325,5	0,0/0,0	0,0/0,0	1 325,5	0,0/0,0	100,0	55,2

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 14.08.2000 00:00 - 15.08.2000 00:00

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
7 301,0	2 832,3	1,08		

7.6 Geology Remarks

Finished B-43 and started B-43A on: 14.08.00 at 04:00 hrs.

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 13.08.2000 00:00 - 14.08.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 56	Days Since Spud 55	Days Ahead/Behind (+/-) Budget: -54,9 Perfect Well: -55,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 7 301,0 m	Depth TVD 2 832,3 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 7 301,0 m	TD of Well at 24:00 TVD 2 832,3 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig:S. Omdal	Geologist Day M. Henderson	
Company Supervisor Night T. Helgøy / T.Fossdal	Company Engineer Night	Geologist Night G.S. Bremmeng	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	03:30	3,50	6 000,0	DP	U PLUGBACK - SET / TEST CEMENT PLUG Continued to circulate and condition the mud prior to the cementplug.
03:30	04:30	1,00	6 000,0	DP	U PLUGBACK - SET / TEST CEMENT PLUG Pumped and displaced 7.5m3 high viscosity pill.
04:30	05:00	0,50	5 800,0	DP	U PLUGBACK - SET / TEST CEMENT PLUG Pulled out of the hole with the cementstinger to 5800m.
05:00	06:00	1,00	5 800,0	DP	U PLUGBACK - SET / TEST CEMENT PLUG Pumped and displaced 10 m3 of spacer and 11 m3 of 2.05 s.g. cement. Cement plug # 1 : 5800m - 5600 m.
06:00	06:30	0,50	5 800,0	DP	U PLUGBACK - SET / TEST CEMENT PLUG Pumped and displaced 10 m3 of spacer and 11 m3 of 2.05 s.g. cement. Cement plug # 1 : 5800m - 5600 m.
06:30	10:00	3,50	5 490,0	DP	U PLUGBACK - SET / TEST CEMENT PLUG Pulled out of the hole with the cementstinger from 5800m to 5490m. Dropped the wiperplug and circulated out the excess cement. Lubricated with 7 strks/stand and 20 RPM. Circulated with : 2400 LPM, 285 bar, 140 RPM, 26 KNm.
10:00	11:00	1,00	5 283,0	DP	U PLUGBACK - SET / TEST CEMENT PLUG Pulled out of the hole with the cement stinger to 5283m. Pumped and displaced 7,5 m3 of high viscosity pill.
11:00	11:30	0,50	5 083,0	DP	U PLUGBACK - SET / TEST CEMENT PLUG Pulled out of the hole with the cement stinger from 5283m to 5083m.
11:30	13:30	2,00	5 083,0	DP	U PLUGBACK - SET / TEST CEMENT PLUG Pumped and displaced 10 m3 of spacer and 13 m3 of 2.05 s.g. cement. Cement plug # 2 : 5083m - 4830 m.
13:30	17:00	3,50	4 830,0	DP	U PLUGBACK - SET / TEST CEMENT PLUG Pulled out of the hole with the cementstinger from 5083m to 4830m. Dropped the wiperplug and circulated out the excess cement. Lubricated with 7 strks/stand and 20 RPM. Circulated with : 2400 LPM, 280 bar, 120 RPM, 21 KNm.

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 13.08.2000 00:00 - 14.08.2000 00:00

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description		
17:00	23:00	6,00	0,0	DP	U	CASING - TRIP TIME ASSOC. WITH CSG/CEMENTING Pulled out of the hole and laid down the cement stinger.	
23:00	00:00	1,00	0,0	DP	U	BOP - TEST SUBSEA BOP, OK Pressure tested the BOP. 100 bar/5 min. 300 bar/10 min.	

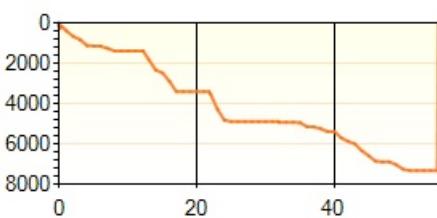
3.1 General Remarks

POB: NH-5,ODM-38,BJ-2,ADF-3,BHI-10.

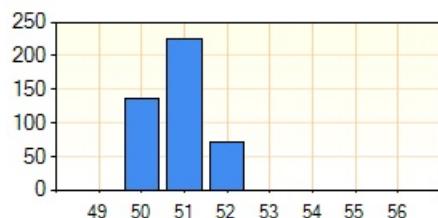
3.3 KPI

Drilling

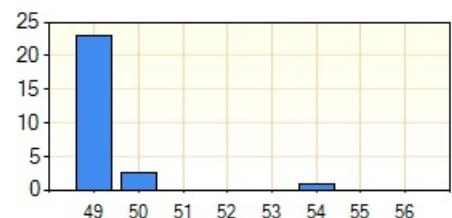
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	0,0	0,0 m/day
Rushmore m/day (for project)	962,50	359,00	0,00	1 321,50	0,00	72,8	7 134,0	129,6 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 321,5	0,0/0,0	0,0/0,0	1 321,5	0,0/0,0	100,0	55,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"		0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
167,0	0,00	0,00	167,0	0,00	0,00	0,00	0,00	HYDRO_CAME RA_GYRO
172,0	0,04	99,20	172,0	0,00	0,00	0,24		HYDRO_CAME RA_GYRO
182,0	0,15	254,30	182,0	0,00	-0,01	0,56		HYDRO_CAME RA_GYRO
192,0	0,22	333,90	192,0	0,01	-0,03	0,73		HYDRO_CAME RA_GYRO
202,0	1,12	347,10	202,0	0,12	-0,06	2,72		HYDRO_CAME RA_GYRO
212,0	1,59	344,90	212,0	0,35	-0,12	1,42		HYDRO_CAME RA_GYRO
222,0	1,57	339,40	222,0	0,61	-0,20	0,46		HYDRO_CAME RA_GYRO
7 263,0	119,20	237,30	2 851,6	-3 721,22	-4 640,17	4,14		HYDRO_MWD _SCC_SAG
7 281,0	121,10	237,00	2 842,6	-3 729,66	-4 653,24	3,20		HYDRO_MWD _SCC_SAG
7 301,0	121,10	237,00	2 832,3	-3 738,99	-4 667,60	0,00		DUMMY

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 13.08.2000 00:00 - 14.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	13.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	7 301,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	12,50
Excess Lime (kg/m3)	9,25
WPS as chlorides (mg/l)	165,00
Organic clay (kg/m3)	
Electrical stability (V)	605,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	58,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	55,0
Yield point (Pa)	12,5
Gel strength 10s/10m (Pa)	7,5 / 13,5
600 / 300 rpm (lbf/100ft2)	135,0 / 80,0
200 / 100 rpm (lbf/100ft2)	60,0 / 39,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	13,0 / 11,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	0,9
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 13.08.2000 00:00 - 14.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
13.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	314,0	18,0	285,0	2,0			72,0	23,0			5,0		100,0
		Estimate 72 m3 left in hole after cementing. Approx. 22 m3 contam														
		Total								72,0	25,0			170,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %			
13.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/			/	/				Nan			
		Estimate 72 m3 left in hole after cementing. Approx. 22 m3 contam													
		Total													Nan

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
7 301,0	2 832,3	1,08		

7.6 Geology Remarks

Finished B-43 and started B-43A on: 14.08.00 at 04:00 hrs.

13. Cementing

13.1 Plugging

Plug top MD: 4 830,0 m	Plug bottom MD: 5 083,0 m	Company:	Plug no: 0	Plug type: OPEN HOLE INTO CASING	Job objective:
Measured plug top MD: m	Measured by:	Hole size: 8 1/2"	Casing size: 9 5/8"		Placement method:
Remarks					
API CLASS G -					
Fluids pumped	Type	Density g/cm3	Volume m3	Pump rate l/min	Pump pressure bar
Slurry	See description for fluid info	2,05	13,0	650	
Spacer after	See description for fluid info	1,70	11,0	1 000	
Displacement	See description for fluid info	1,35	48,0		

13.4 Cementing Volumes

Observation time	Section	Fluid system	Density g/cm3	Total volume mixed m3	Backloaded m3	Lost to slop m3	Acc spill to sea m3	Discharged to sea m3
13.08.2000 04:11	8"	Displacement (Import only)	1,35	61,0				
13.08.2000 04:12	8"	Lead (Import only)	2,05	11,0				
13.08.2000 04:13	8"	MCS-G Spacer (Import only)	1,70	11,0				
13.08.2000 12:14	8 1/2"	Lead (Import only)	2,05	13,0				

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 13.08.2000 00:00 - 14.08.2000 00:00

14. Logging

Log run no	Logging company	Service	Interval		Tools	Temp tool m MD	BHC P temp degC	BHSP temp degC	Time since circ stopped
			Upper m MD	Lower m MD					
1	Schlumberger	EWL	4 960,5	5 808,0					3480

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 12.08.2000 00:00 - 13.08.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 55	Days Since Spud 54	Days Ahead/Behind (+/-) Budget: -53,9 Perfect Well: -54,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 7 301,0 m	Depth TVD 2 832,3 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 7 301,0 m	TD of Well at 24:00 TVD 2 832,3 m	Drilled 00:00-24:00 MD 0,0 m
	Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig:S. Omdal	Geologist Day M. Henderson
Company Supervisor Night T. Helgøy / T.Fossdal	Company Engineer Night	Geologist Night G.S. Bremmeng	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	02:30	2,50	4 813,0	DP	U DRILLING - TRIP OUT FOR LOGGING Pulled out of the hole with the MDT tool on the drillpipe from 5286m to 4813m.
02:30	05:00	2,50	4 813,0	DP	U EVALUATION - LOGGING TIME OTHER, OK Disconnected the wetconnector and pulled the wireline to the surface. Rigged down the wireline equipment.
05:00	06:00	1,00	4 748,0	DP	U DRILLING - TRIP OUT FOR LOGGING Continued to pull out of the hole and laid down the MDT logging tool.
06:00	13:00	7,00	4 748,0	DP	U DRILLING - TRIP OUT FOR LOGGING Continued to pull out of the hole and laid down the MDT logging tool.
13:00	22:30	9,50	6 000,0	DP	U CASING - TRIP TIME ASSOC. WITH CSG/CEMENTING Made up the 3 1/2" cement stinger and ran in the hole to 6000m. Broke circulation every 1000m in cased hole and every 500m in the openhole.
22:30	00:00	1,50	6 000,0	DP	U PLUGBACK - SET / TEST CEMENT PLUG Circulated and conditioned the mud prior to the cement job. 2000 LPM, 220 bar.

3.1 General Remarks

POB: NH-5,ODM-38,BJ-2,ADF-3,BHI-9

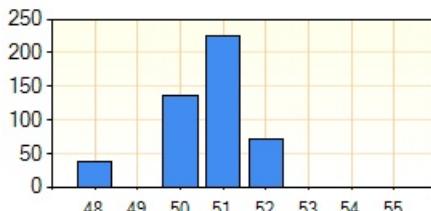
3.3 KPI

Drilling

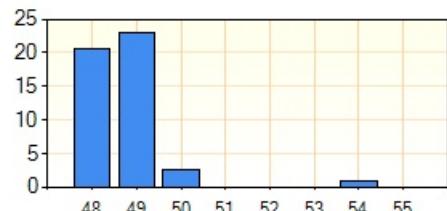
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 12.08.2000 00:00 - 13.08.2000 00:00

	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	0,0	0,0 m/day
Rushmore m/day (for project)	938,50	359,00	0,00	1 297,50	0,00	72,3	7 134,0	132,0 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 297,5	0,0/0,0	0,0/0,0	1 297,5	0,0/0,0	100,0	54,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"		0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 12.08.2000 00:00 - 13.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	12.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	7 301,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	15,00
Excess Lime (kg/m3)	8,88
WPS as chlorides (mg/l)	179,00
Organic clay (kg/m3)	
Electrical stability (V)	770,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	59,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	56,0
Yield point (Pa)	15,0
Gel strength 10s/10m (Pa)	8,5 / 17,0
600 / 300 rpm (lbf/100ft2)	142,0 / 86,0
200 / 100 rpm (lbf/100ft2)	66,0 / 43,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	15,0 / 13,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	1,4
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 12.08.2000 00:00 - 13.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to format ion m3	Left in hole m3	Lost on shake rs m3	Lost to lubri-cation m3	Lost to slop m3	Lost to evapo ration m3	Total loss m3
12.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	386,0		226,0	2,0									0,0
		Total									2,0			165,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
12.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/			
		Total										NaN

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
7 301,0	2 832,3	1,08		

13. Cementing

13.1 Plugging

Plug top MD: 5 600,0 m	Plug bottom MD: 5 800,0 m	Company:	Plug no: 0	Plug type: OPEN HOLE	Job objective:
Measured plug top MD: m	Measured by:	Hole size: 8"	Casing size: 9 5/8"		Placement method:

Remarks

API CLASS G -

Fluids pumped	Type	Density g/cm3	Volume m3	Pump rate l/min	Pump pressure bar	Loss prior to cement job m3	Loss during cement job m3
Slurry	See description for fluid info	2,05	11,0	550			
Spacer after	See description for fluid info	1,70	11,0	1 100			
Displacement	See description for fluid info	1,35	61,0	2 033			

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 11.08.2000 00:00 - 12.08.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 54	Days Since Spud 53	Days Ahead/Behind (+/-) Budget: -52,9 Perfect Well: -53,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 7 301,0 m	Depth TVD 2 832,3 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 7 301,0 m	TD of Well at 24:00 TVD 2 832,3 m	Drilled 00:00-24:00 MD 0,0 m
	Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig:S. Omdal	Geologist Day M. Henderson
Company Supervisor Night T. Helgøy / T.Fossdal	Company Engineer Night	Geologist Night G.S. Bremmeng	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	03:00	3,00	0,0	DP	U EVALUATION - LOGGING TIME OTHER, OK Rigged up the Schlumberger side-entry sub and the wireline.
03:00	06:00	3,00	4 835,0	DP	U EVALUATION - LOGGING TIME OTHER, OK Ran in the hole with the wetconnector on the wireline. Latched the wetconnector and checked the MDT tool. Secured the wireline in the sideentry sub and pull tested the cable. Removed the doors on the PS-21 slips.
06:00	09:30	3,50	4 835,0	DP	U EVALUATION - LOGGING TIME OTHER, OK Ran in the hole with the wetconnector on the wireline. Latched the wetconnector and checked the MDT tool. Secured the wireline in the sideentry sub and pull tested the cable. Removed the doors on the PS-21 slips.
09:30	17:30	8,00	5 372,0	DP	U EVALUATION - FORMATION LOGGING WITH WIRELINE Logged the MDT pressurepoints from 4960m to 5372m.
17:30	18:30	1,00	5 372,0	DP	D EVALUATION - DOWNHOLE EQUIPMENT FAILURE - (E FAIL) Troubleshoot the Schlumberger MDT telemetry problems.
18:30	21:30	3,00	5 808,0	DP	U EVALUATION - FORMATION LOGGING WITH WIRELINE Continued logging the MDT pressure points from 5372m to 5808m.
21:30	00:00	2,50	5 286,0	DP	U DRILLING - TRIP OUT FOR LOGGING Pulled out of the hole from 5808m to 5286m with the MDT logging tool.

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation			
11.08.2000 09:30	17:30	U	EVALUATION - FORMATION LOGGING WITH WIRELINE Logged the MDT pressurepoints from 4960m to 5372m.		
Report status: Completed	Finish Date	Total Down Time 1,0 hrs	Service RIG	Failure Code E014 - Imported from Bore	
Synergi no	Description				
Hazard	Troubleshoot electrical problem in the Schlumberger logging equipment.				

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 11.08.2000 00:00 - 12.08.2000 00:00

Company	Service	Description	Downtime %
Schlumberger	RIG	Rig Operations	100

3.1 General Remarks

POB: NH-5,ODM-38,BJ-2,ADF-3,BHI-9,Schl-6.

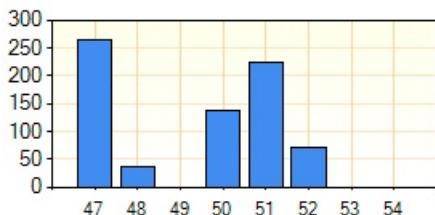
3.3 KPI

Drilling

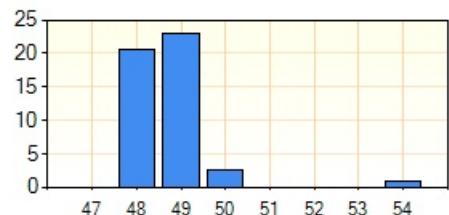
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	23,00	1,00	0,00	24,00	0,00	95,8	0,0	0,0 m/day
Rushmore m/day (for project)	914,50	359,00	0,00	1 273,50	0,00	71,8	7 134,0	134,4 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 273,5	0,0/0,0	0,0/0,0	1 273,5	0,0/0,0	100,0	53,1
	Section	00:00 - 24:00	Avg. section					
Fluid adherence	8 1/2"				0 m3/m3			

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 11.08.2000 00:00 - 12.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	11.08.2000 22:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	7 301,0
Mud weight in/out (g/cm3)	0,00 / 1,37
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	16,00
Excess Lime (kg/m3)	7,77
WPS as chlorides (mg/l)	192,00
Organic clay (kg/m3)	
Electrical stability (V)	775,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	60,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	59,0
Yield point (Pa)	16,0
Gel strength 10s/10m (Pa)	9,0 / 15,5
600 / 300 rpm (lbf/100ft2)	150,0 / 91,0
200 / 100 rpm (lbf/100ft2)	69,0 / 45,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	15,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	1,4
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 11.08.2000 00:00 - 12.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to format ion m3	Left in hole m3	Lost on shake rs m3	Lost to lubri-cation m3	Lost to slop m3	Lost to evapo ration m3	Total loss m3
11.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,37	388,0	2,0	233,0	4,0									0,0
		Total								2,0			165,0			

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
11.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,37	/			/	/				NaN
		Total										NaN

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
7 301,0	2 832,3	1,08		

7.6 Geology Remarks

Took 26 MDT pressure measurements.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 10.08.2000 00:00 - 11.08.2000 00:00

Project No	Section	Start Time	Start Depth MD	Primary Conveyance	Well Classification
	8 1/2"	21.07.2000 19:00	4 871,0 m	DP	OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number	Days Since Spud	Days Ahead/Behind (+/-)
	53	52	Budget: -51,9 Perfect Well: -52,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 7 301,0 m	Depth TVD 2 832,3 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 7 301,0 m	TD of Well at 24:00 TVD 2 832,3 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig:S. Omdal	Geologist Day G.S. Bremmeng	
Company Supervisor Night T. Helgøy / T.Fossdal	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	04:00	4,00	0,0	DP	U DRILLING - Run in and POOH with BHA Continued to pull out of the hole and laid down the 8 1/2" drilling assembly.
04:00	05:00	1,00	0,0	DP	U EVALUATION - LOGGING TIME OTHER, OK Rigged up the Schlumberger MDT and TLC equipment.
05:00	06:00	1,00	4 835,0	DP	U DRILLING - TRIP OUT FOR LOGGING Ran in the hole with the MDT logging tool on the drillpipe to 4835m. Broke the circulation every 10th stand running in the hole.
06:00	22:00	16,00	4 835,0	DP	U DRILLING - TRIP OUT FOR LOGGING Ran in the hole with the MDT logging tool on the drillpipe to 4835m. Broke the circulation every 10th stand running in the hole.
22:00	00:00	2,00	4 835,0	DP	U EVALUATION - LOGGING TIME OTHER, OK Slipped and cut the drilling line. Circulated with 1400 LPM while slip and cut. Serviced the Top Drive.

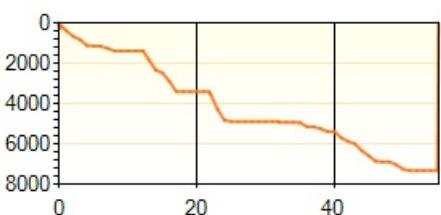
3.1 General Remarks

POB: NH-4,ODM-36,BJ-2,ADF-3,BHI-10,Schl-6.

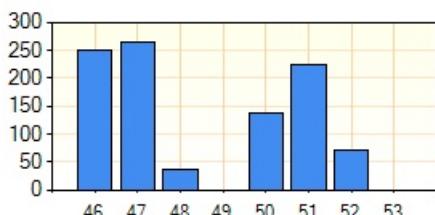
3.3 KPI

Drilling

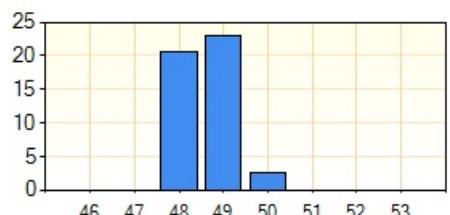
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 10.08.2000 00:00 - 11.08.2000 00:00

	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	0,0	0,0 m/day
Rushmore m/day (for project)	891,50	358,00	0,00	1 249,50	0,00	71,3	7 134,0	137,0 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 249,5	0,0/0,0	0,0/0,0	1 249,5	0,0/0,0	100,0	52,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"		0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 10.08.2000 00:00 - 11.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	10.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	7 302,0
Mud weight in/out (g/cm3)	0,00 / 1,36
Temp in/out (degC)	/
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	15,00
Excess Lime (kg/m3)	7,77
WPS as chlorides (mg/l)	198,00
Organic clay (kg/m3)	
Electrical stability (V)	750,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	60,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	58,0
Yield point (Pa)	15,0
Gel strength 10s/10m (Pa)	9,0 / 16,0
600 / 300 rpm (lbf/100ft2)	146,0 / 88,0
200 / 100 rpm (lbf/100ft2)	70,0 / 45,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	16,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	1,4
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 10.08.2000 00:00 - 11.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
10.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,36	393,0		232,0	7,0									0,0
Centrifuge one down for maintainance.																
		Total									2,0			165,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
10.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,36	/			/	/				NaN
Centrifuge one down for maintainance.												
		Total										NaN

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
7 301,0	2 832,3	1,08		

7.6 Geology Remarks

--

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 09.08.2000 00:00 - 10.08.2000 00:00

Project No	Section	Start Time	Start Depth MD	Primary Conveyance	Well Classification
	8 1/2"	21.07.2000 19:00	4 871,0 m	DP	OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number	Days Since Spud	Days Ahead/Behind (+/-)
	52	51	Budget: -50,9 Perfect Well: -51,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 7 301,0 m	Depth TVD 2 832,3 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 7 301,0 m	TD of Well at 24:00 TVD 2 832,3 m	Drilled 00:00-24:00 MD 72,0 m
Company Supervisor Day K. Jarlsby	Company Engineer Day Ig:S. Omdal	Geologist Day C.Dons	
Company Supervisor Night T. Helgøy / T.Fossdal	Company Engineer Night	Geologist Night G.S. Bremmeng	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	06:00	6,00	7 301,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 7229m to 7301m. 2200 LPM, 269 bar, 130 RPM, 46 KNm, 5-12 ton WOB.
06:00	07:00	1,00	7 301,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 7229m to 7301m. 2200 LPM, 269 bar, 130 RPM, 46 KNm, 5-12 ton WOB.
07:00	11:30	4,50	7 301,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Circulated to clean the hole. 2200 LPM, 267 bar, 140 RPM, 43 KNm.
11:30	00:00	12,50	1 500,0	DP	DRILLING - Run in and POOH with BHA Pulled out of the hole with the 8 1/2" drilling assembly from 7301m to 1500m. Lubricated through the Ness formation from 5900m to 5700m. Laid down 30 jnts of 6 5/8" drillpipe.

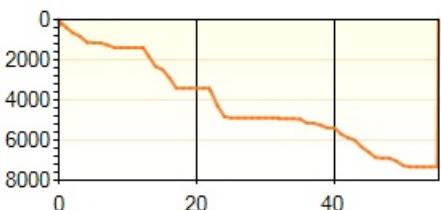
3.1 General Remarks

POB: NH-5,ODM-36,BJ-2,ADF-3,BHI-10,Schl-6.

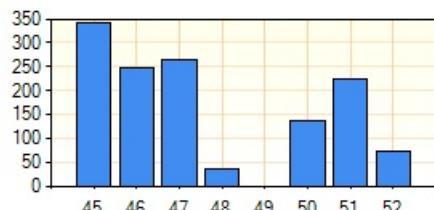
3.3 KPI

Drilling

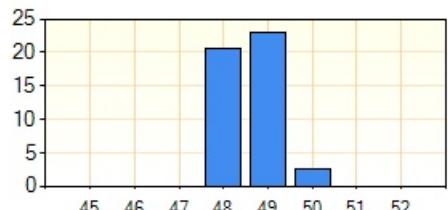
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 09.08.2000 00:00 - 10.08.2000 00:00

	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	72,0	72,0 m/day
Rushmore m/day (for project)	867,50	358,00	0,00	1 225,50	0,00	70,8	7 134,0	139,7 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 225,5	0,0/0,0	0,0/0,0	1 225,5	0,0/0,0	100,0	51,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"	0 m3/m3	0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 09.08.2000 00:00 - 10.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	09.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	7 302,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	15,00
Excess Lime (kg/m3)	8,14
WPS as chlorides (mg/l)	192,00
Organic clay (kg/m3)	
Electrical stability (V)	825,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	60,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	54,0
Yield point (Pa)	15,0
Gel strength 10s/10m (Pa)	8,5 / 16,0
600 / 300 rpm (lbf/100ft2)	138,0 / 84,0
200 / 100 rpm (lbf/100ft2)	65,0 / 43,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	15,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	1,7
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 09.08.2000 00:00 - 10.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
09.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	394,0	12,0	235,0								18,0		21,0
		Run centrifuges in dewatering mode for two full circulations														
		Total									2,0			165,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
09.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/				Nan
		Run centrifuges in dewatering mode for two full circulations											
		Total											Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")			TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs			
17	8 1/2"	12	ATX536HA	M323	Unknown		1212545	4 x 20	0 x 0	0 x 0	0 x 0	
Run No	Pump		WOB		RPM		Torque		Conn drag			
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN		
17	2 126	239,00	7	18	99	136						
Run No	IADC Dull Grading							Remarks				
	I	O	DC	L	B	G	OC	RP	RRAB RE-RUNABLE			
17	1	2	WT	T	X	I	NO	TD	RRAB RE-RUNABLE			

7. Geology / Pressure Data

7.0 Geologists

Geologist day: C.Dons/ G.S. Bremmeng

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
7 229,0	2 866,9	7 230,0	2 866,5	Cuttings	Sandstone / Siltstone								
		Lithology		From %	To %	Properties							
		Sandstone				m gry-dk gry, brn gry, frm-fri, occ mod hd, clr, trnsl Qtz, gen vf-f, occ m, com slty grad Sltst, gen sli-abd Kao/arg Mtrx, sli-v calc cmt, carb, loc grad slty Clst.							
7 230,0	2 866,5	7 255,0	2 855,3	Cuttings	Sandstone								
		Lithology		From %	To %	Properties							
		Sandstone				wh-lt gry, fri-frm, clr, trnsl Qtz, vf-m, gen f, gen calc, com Kao/arg Mtrx, com lse, wl-mod srt.							
7 255,0	2 855,3	7 301,0	2 832,3	Cuttings	Claystone and Sandstone with Coal								
		Lithology		From %	To %	Properties							
		Coal				blk, hd, conh, loc arg, grad coaly Clst.							
		Sandstone				v lt gry-m gry, clr, trnsl Qtz, fri, vf-f, sbrnd, mod srt, com calc/Kao cmt, gen sli arg, Tr carb Mat.							
		Claystone				gry blk-brn blk, lt brn-m dk gry, blky, mod hd, non calc, slty, plt Rem.							

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 09.08.2000 00:00 - 10.08.2000 00:00

7.2 Gas

Remarks
BG-CTOT-.05/.15 %.

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
7 301,0	2 832,3	1,08		

7.6 Geology Remarks

Reached final TD of the well at 7301 m / 2831.9 m TVD. No hydrocarbons observed.

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 08.08.2000 00:00 - 09.08.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 51	Days Since Spud 50	Days Ahead/Behind (+/-) Budget: -49,9 Perfect Well: -50,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 7 229,0 m	Depth TVD 2 866,9 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 7 229,0 m	TD of Well at 24:00 TVD 2 866,9 m	Drilled 00:00-24:00 MD 225,0 m
Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig: R Adams	Geologist Day C.Dons	
Company Supervisor Night T. Helgøy	Company Engineer Night	Geologist Night G.S. Bremmeng	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	06:00	6,00	7 229,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 7004m to 7229m. 2200 LPM, 269 bar, 100-140 RPM, 42-48 KNm, 5-12 ton WOB.
06:00	00:00	18,00	7 229,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 7004m to 7229m. 2200 LPM, 269 bar, 100-140 RPM, 42-48 KNm, 5-12 ton WOB.

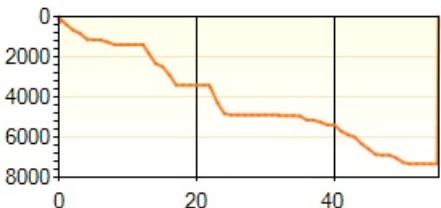
3.1 General Remarks

POB: NH-4,ODM-36,BJ-2,ADF-3,BHI-11,Schl-6.

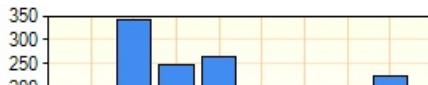
3.3 KPI

Drilling

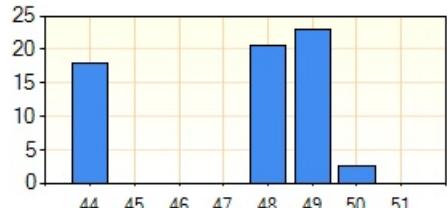
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
24,00	0,00	0,00	24,00	0,00	100,0	225,0	225,0 m/day
843,50	358,00	0,00	1 201,50	0,00	70,2	7 062,0	141,1 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 08.08.2000 00:00 - 09.08.2000 00:00

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling								
Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 201,5	0,0/0,0	0,0/0,0	1 201,5	0,0/0,0	100,0	50,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"	0 m3/m3	0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
7 177,0	105,90	237,00	2 885,1	-3 678,43	-4 573,72	3,25		HYDRO_MWD _SCC_SAG
7 206,0	111,00	237,40	2 875,9	-3 693,32	-4 596,83	5,29		HYDRO_MWD _SCC_SAG
7 234,0	115,20	237,10	2 864,9	-3 707,25	-4 618,49	4,51		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 08.08.2000 00:00 - 09.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	08.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	7 225,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	14,00
Excess Lime (kg/m3)	8,14
WPS as chlorides (mg/l)	194,00
Organic clay (kg/m3)	
Electrical stability (V)	730,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	61,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	56,0
Yield point (Pa)	14,0
Gel strength 10s/10m (Pa)	8,5 / 15,0
600 / 300 rpm (lbf/100ft2)	140,0 / 84,0
200 / 100 rpm (lbf/100ft2)	63,0 / 41,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	15,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	1,4
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 08.08.2000 00:00 - 09.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
08.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	374,0	44,0	249,0								6,0		27,0
		Run centrifuges 1 and 2 in fluid and barite recovery,				deweighting										
		Total									2,0			147,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
08.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/				Nan
		Run centrifuges 1 and 2 in fluid and barite recovery,			deweighting								
		Total											Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")			TFA in2
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs		
17	8 1/2"	12	ATX536HA	M323	Unknown		1212545	4 x 20	0 x 0	0 x 0	0 x 0
<hr/>											
17	6 866,0	7 301,0	435,0	55,9	7,8		0	0,0			
<hr/>											
Run No	Pump		WOB		RPM		Torque		Conn drag		
Run No	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN	
17	1 936	216,00	2	20	89	145					
<hr/>											
Run No	IADC Dull Grading						Remarks				
17	I	O	DC	L	B	G	OC	RP	RRAB RE-RUNABLE		

7. Geology / Pressure Data

7.0 Geologists

Geologist day: C.Dons/ G.S. Bremmeng

Geologist night:

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 08.08.2000 00:00 - 09.08.2000 00:00

7.1 Lithology

From		To		Sample type	General lithology
m MD	m TVD	m MD	m TVD		
7 004,0	2 915,2	7 026,0		Cuttings	Sandstone
		Lithology		From % To %	Properties
		Sandstone			v lt gry-lt gry, clr, trnsl, occ op Qtz, dom f-m, com vf-f, occ crs, sbrnnd-sbang, mod-pr srt, +/- calc cmt, Kao/arg Mtrx
7 026,0	2 912,7	7 155,0		Cuttings	Sandstone/Siltstone
		Lithology		From % To %	Properties
		Sandstone			interlam lt gry-v lt gry-m dk gry-dk gry, clr, trnsl Qtz, fri-mod hd, vf-f, com slty grad Sltst, mnr grad slty Clst, wl srt, sbrnnd, non-mod calc cmt, sli-abd arg/Kao Mtrx, micromic, Mic, Tr Pyr, lam carb/Bit, gen vf lam Sst/Sltst.
7 155,0	2 890,5	7 207,0		Cuttings	Sandstone
		Lithology		From % To %	Properties
		Sandstone			wh-lt gry, fri-frm, clr, trnsl Qtz, vf-m, gen f, sli-abd Kao/arg Mtrx, non-v calc cmt, loc lse, wl srt, loc carb, loc slty.
7 207,0	2 875,5	7 229,0		Cuttings	Sandstone/Siltstone
		Lithology		From % To %	Properties
		Sandstone			m gry-dk gry, brn gry, frm-fri, occ mod hd, clr, trnsl Qtz, gen vf-f, occ m, com slty grad Sltst, gen sli-abd Kao/arg Mtrx, sli-v calc cmt, carb, loc grad slty Clst.

7.2 Gas

Remarks
BG-CTOT-.05/.1 %.

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
7 229,0	2 866,9	1,08		

7.6 Geology Remarks

Reached final TD of the well at 7301 m / 2831.9 m TVD. No hydrocarbons observed.
--

7.7 Preliminary Zonation

Code	Group / Formation	Planned		Actual		Difference
		Top m MD	Top m TVD	Top m MD	Top m TVD	
DUDR	Drake Fm			6 585,0	3 005,3	
BROS	Oseberg Fm			6 828,0	2 944,8	
BRRA	Rannoch Fm			6 872,0	2 934,5	
BRET	Etive Fm			6 887,0	2 931,1	
BRRA	Rannoch Fm			6 947,0	2 921,5	
BROS	Oseberg Fm			7 027,0	2 912,6	
BROS	Oseberg Fm			7 207,0	2 875,5	
BRRA	Rannoch Fm			7 230,0	2 866,5	
BRET	Etive Fm			7 255,0	2 855,3	
BRNE	Ness Fm			7 282,0	2 842,1	
BRNE	Ness Fm			7 301,0	2 832,3	

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 07.08.2000 00:00 - 08.08.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 50	Days Since Spud 49	Days Ahead/Behind (+/-) Budget: -48,9 Perfect Well: -49,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 7 004,0 m	Depth TVD 2 915,2 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 7 004,0 m	TD of Well at 24:00 TVD 2 915,2 m	Drilled 00:00-24:00 MD 137,0 m
Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig: R Adams	Geologist Day C.Dons	
Company Supervisor Night T. Helgøy	Company Engineer Night	Geologist Night G.S. Bremmeng	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	00:30	0,50	6 770,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole from 6500m to 6770m.
00:30	06:00	5,50	6 867,0	DP	K DRILLING - REAMING TIGHT HOLE Logged the MWD azimuthal GR from 6770m to 6867m.
06:00	07:00	1,00	6 867,0	DP	K DRILLING - REAMING TIGHT HOLE Logged the MWD azimuthal GR from 6770m to 6867m.
07:00	11:00	4,00	6 867,0	DP	K DRILLING - REAMING TIGHT HOLE Pulled out of the hole to 6815m. Re-logged the MWD azimuthal GR from 6815m to 6837m. Washed down from 6837m to 6867m. 2100 LPM, 243 bar.
11:00	14:00	3,00	6 893,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 6867m to 6893m. 2200 LPM, 270 bar, 140 RPM, 43 KNm, 3-5 ton WOB.
14:00	15:00	1,00	6 893,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Changed the leaking washpipe on the Top Drive. Circulated while changing the washpipe. 1650 LPM, 185 bar.
15:00	18:30	3,50	6 958,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 6893m to 6958m.
18:30	19:30	1,00	6 958,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (O FAIL) Stopped drilling and secured the well due to alarm on the Oseberg-A.
19:30	00:00	4,50	7 004,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 6958m to 7004m. 2200 LPM, 270 bar, 140 RPM, 40-45 KNm, 5-12 ton WOB.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 07.08.2000 00:00 - 08.08.2000 00:00

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation		
07.08.2000 11:00	14:00	U	DRILLING - DRILLING w/MUDMOTOR/PDM	Drilled and oriented the 8 1/2" hole from 6867m to 6893m. 2200 LPM, 270 bar, 140 RPM, 43 KNm, 3-5 ton WOB.
Report status: Completed	Finish Date		Total Down Time 1,0 hrs	Service RIG
Synergi no	Description			
Hazard	Changed the leaking washpipe on the Top Drive.			
Company	Service	Description		Downtime %
Odfjell Drilling AS	RIG	Rig Operations		100

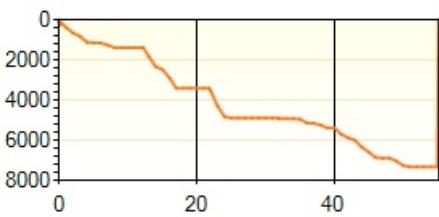
3.1 General Remarks

POB: NH-4,ODM-36,BJ-2,ADF-3,BHI-11,Schl-3.

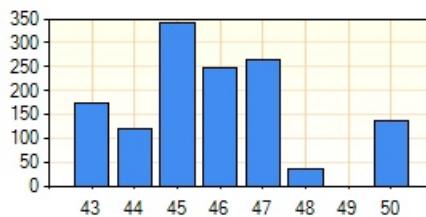
3.3 KPI

Drilling

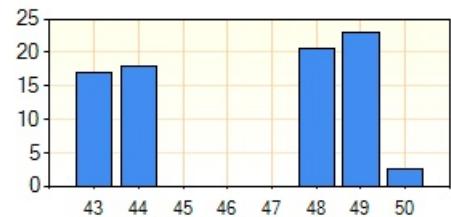
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	21,50	2,50	0,00	24,00	0,00	89,6	137,0	137,0 m/day
Rushmore m/day (for project)	819,50	358,00	0,00	1 177,50	0,00	69,6	6 837,0	139,4 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 177,5	0,0/0,0	0,0/0,0	1 177,5	0,0/0,0	100,0	49,1
Fluid adherence	Section	00:00 - 24:00	Avg. section					
	8 1/2"	0 m3/m3	0 m3/m3					

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
6 975,0	96,40	235,40	2 918,4	-3 567,46	-4 408,53	0,00		HYDRO_MWD _SCC_SAG
7 004,0	96,20	235,60	2 915,2	-3 583,79	-4 432,29	0,29		HYDRO_MWD _SCC_SAG
7 033,0	96,60	235,70	2 912,0	-3 600,05	-4 456,08	0,43		HYDRO_MWD _SCC_SAG
7 062,0	100,10	236,20	2 907,8	-3 616,12	-4 479,85	3,66		HYDRO_MWD _SCC_SAG
7 091,0	99,40	235,90	2 902,8	-3 632,08	-4 503,56	0,79		HYDRO_MWD _SCC_SAG
7 119,0	100,30	236,70	2 898,1	-3 647,38	-4 526,51	1,28		HYDRO_MWD _SCC_SAG
7 148,0	102,80	236,50	2 892,2	-3 663,02	-4 550,23	2,59		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 07.08.2000 00:00 - 08.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	07.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	7 004,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,50
Excess Lime (kg/m3)	8,14
WPS as chlorides (mg/l)	222,00
Organic clay (kg/m3)	
Electrical stability (V)	830,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	63,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	50,0
Yield point (Pa)	13,5
Gel strength 10s/10m (Pa)	8,5 / 14,5
600 / 300 rpm (lbf/100ft2)	127,0 / 77,0
200 / 100 rpm (lbf/100ft2)	59,0 / 39,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	14,0 / 12,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,0
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 07.08.2000 00:00 - 08.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
07.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	367,0	6,0	242,0								15,0		24,0
		Run centrifuges in dewatering mode for two circulations to contr														
		Total									2,0			141,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
07.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/			/	/				Nan
		Run centrifuges in dewatering mode for two circulations to contr										
		Total										Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")			TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs			
17	8 1/2"	12	ATX536HA	M323	Unknown		1212545	4 x 20	0 x 0	0 x 0	0 x 0	
Run No	Pump		WOB		RPM		Torque		Conn drag			
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN		
17	1 739	199,00	0	14	80	140						
Run No	IADC Dull Grading							Remarks				
	I	O	DC	L	B	G	OC	RP	RRAB RE-RUNABLE			
17	1	2	WT	T	X	I	NO	TD	RRAB RE-RUNABLE			

7. Geology / Pressure Data

7.0 Geologists

Geologist day: C.Dons/ G.S. Bremmeng

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
6 866,0	2 935,8	6 888,0	2 930,9	Cuttings	Sandstone								
		Lithology		From %	To %	Properties							
		Sandstone				v lt gy-lt gy, clr,trnsl Qtz, pred vf-f, occ m-f, frm-fri, sbang-sbrndd, mod-wl srt, calc cmt, occ ls, mod-wl srt, occ grad Sltst, occ arg.							
6 888,0	2 930,9	6 947,0	2 921,5	Cuttings	Siltstone								
		Lithology		From %	To %	Properties							
		Siltstone				dk gy-grish blk, brn blk, mod hd-frm, non calc, sbblk, sli-mod carb, Tr micropyr, loc vf sd, loc arg, grad Clst: m-m dk gy, sbplty.							
6 947,0	2 921,5	7 004,0	2 915,2	Cuttings	Sandstone								
		Lithology		From %	To %	Properties							
		Sandstone				v lt gy-lt gy, clr, trnsl, occ op Qtz, dom f-m, com vf-f, occ crs, sbrndd-sbang, mod-pr srt, +/- calc cmt, Kao/arg Mtrx.							

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 07.08.2000 00:00 - 08.08.2000 00:00

7.2 Gas

Remarks
BG-CTOT-.05/.1 %.

Gas peaks					Chromatographic analysis (ppm)						
Peak Type	m MD	m TVD	Max %	Drilled gas %	C1	C2	C3	i-C4	n-C4	i-C5	n-C5
Trip gas	6 866,0	2 935,8	1,20		7 879	253	68	4	12		

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
7 004,0	2 915,2	1,08		

7.6 Geology Remarks

New formation at 7027m / 2912.6 m TVD.

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 06.08.2000 00:00 - 07.08.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 49	Days Since Spud 48	Days Ahead/Behind (+/-) Budget: -47,9 Perfect Well: -48,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 6 867,0 m	Depth TVD 2 935,6 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 6 867,0 m	TD of Well at 24:00 TVD 2 935,6 m	Drilled 00:00-24:00 MD 0,0 m
	Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig: R Adams	Geologist Day C.Dons
Company Supervisor Night T. Helgøy	Company Engineer Night	Geologist Night G.S. Bremmeng	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	06:00	6,00	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole from 3064m and laid down the BHA.
06:00	20:00	14,00	4 880,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Made up new bit and new Autotrak and ran in the hole to 4880m. Laid down 6 x 5" HWDP and picked up 5 x 5" HWDP due to undergauge tool joints. Tested the Autotrak @ 1000m. Filled the pipe every 1000m.
20:00	21:00	1,00	4 880,0	DP	DRILLING - DRILLING OTHER TIME, OK Slipped the drilling line. Serviced the DDM and adjusted the brakes on the draw works.
21:00	00:00	3,00	6 500,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole with the drilling assembly from 4880m to 6500m.

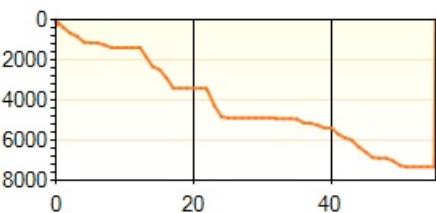
3.1 General Remarks

POB: NH-4,ODM-35,BJ-2,ADF-3,BHI-12,Schl-1.

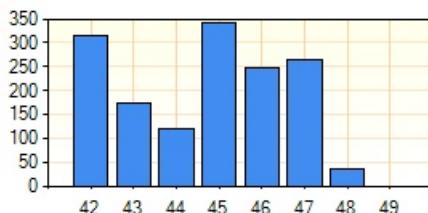
3.3 KPI

Drilling

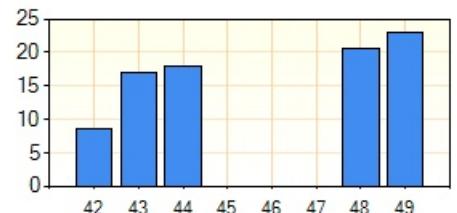
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	1,00	23,00	0,00	24,00	0,00	4,2	0,0 m/day
Rushmore m/day (for project)	798,00	355,50	0,00	1 153,50	0,00	69,2	6 700,0 139,4 m/day

Drilling contractors downtime

Printed: 24.10.2018 14:14

Page 1 of 4

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 06.08.2000 00:00 - 07.08.2000 00:00

OSEBERG B	:	0,0 hrs (00:00 - 24:00)	0,0 hrs (accumulated independent of well this month)
-----------	---	-------------------------	--

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling								
Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 153,5	0,0/0,0	0,0/0,0	1 153,5	0,0/0,0	100,0	48,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"		0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
6 827,0	103,90	236,70	2 945,1	-3 486,95	-4 287,50	0,13		HYDRO_MWD _SCC_SAG
6 843,0	103,80	236,90	2 941,2	-3 495,45	-4 300,50	0,41		HYDRO_MWD _SCC_SAG
6 859,0	103,80	237,10	2 937,4	-3 503,92	-4 313,53	0,36		HYDRO_MWD _SCC_SAG
6 887,0	102,20	237,00	2 931,1	-3 518,76	-4 336,42	1,72		HYDRO_MWD _SCC_SAG
6 916,0	99,30	236,30	2 925,7	-3 534,42	-4 360,22	3,08		HYDRO_MWD _SCC_SAG
6 946,0	96,40	235,40	2 921,6	-3 551,10	-4 384,81	3,03		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 06.08.2000 00:00 - 07.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	06.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	6 867,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	14,50
Excess Lime (kg/m3)	8,14
WPS as chlorides (mg/l)	222,00
Organic clay (kg/m3)	
Electrical stability (V)	915,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	62,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	50,0
Yield point (Pa)	14,5
Gel strength 10s/10m (Pa)	8,5 / 15,0
600 / 300 rpm (lbf/100ft2)	129,0 / 79,0
200 / 100 rpm (lbf/100ft2)	61,0 / 41,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	16,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,8
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 06.08.2000 00:00 - 07.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to format ion m3	Left in hole m3	Lost on shake rs m3	Lost to lubri-cation m3	Lost to slop m3	Lost to evapo ration m3	Total loss m3
06.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	371,0		293,0	2,0							3,0		3,0
		Total								2,0			126,0			

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
06.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/			/	/				NaN
		Total										NaN

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
6 867,0	2 935,6	1,08		

7.6 Geology Remarks

.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 05.08.2000 00:00 - 06.08.2000 00:00

Project No	Section	Start Time	Start Depth MD	Primary Conveyance	Well Classification
	8 1/2"	21.07.2000 19:00	4 871,0 m	DP	OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number	48	Days Since Spud	47	Days Ahead/Behind (+/-)
	Budget:	-46,9	Perfect Well:	-47,1	WOW: 0,0
	Mud weight	g/cm3	BOP Pressure Rating	345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max	1,08 g/cm3	Depth MD	6 867,0 m	Depth TVD 2 935,6 m
	FIT	1,66 g/cm3	Depth MD	3 399,0 m	Depth TVD 2 105,8 m
	Casing Size	9 5/8"	Depth MD	4 883,0 m	Depth TVD m
TD of Well at 24:00 MD		6 867,0 m	TD of Well at 24:00 TVD	2 935,6 m	Drilled 00:00-24:00 MD 37,0 m
Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig: R Adams		Geologist Day C.Dons		
Company Supervisor Night T. Helgøy	Company Engineer Night		Geologist Night G.S. Bremmeng		
Operator Norsk Hydro			Contractor ODB		

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	03:30	3,50	6 867,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 6830m to 6867m.
03:30	06:00	2,50	6 867,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Circulated prior to pulling out of the hole due to MWD failure. MWD density failed. 2270 LPM, 280 bar, 140 RPM.
06:00	10:30	4,50	6 867,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Circulated prior to pulling out of the hole due to MWD failure. MWD density failed. 2270 LPM, 280 bar, 140 RPM.
10:30	20:30	10,00	4 880,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole from 6867m to 4880m. Lubricated out through the Ness formation from 6151m to 5700m. Reamed and relogged the MWD/Neutron from 5090m to 4900m.
20:30	00:00	3,50	3 064,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pumped slug and pulled out of the hole from 4880m to 3064m.

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation			
05.08.2000 00:00	03:30	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 6830m to 6867m.			
Report status: Completed	Finish Date	Total Down Time 44,0 hrs	Service RIG	Failure Code E357 - Imported from Bore	
Synergi no	Description				
Hazard	Circulated to clean the hole prior to pulling out of the hole due to MWD failure.				
Company	Service	Description	Downtime %		
Baker Hughes Inteq	RIG	Rig Operations	100		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 05.08.2000 00:00 - 06.08.2000 00:00

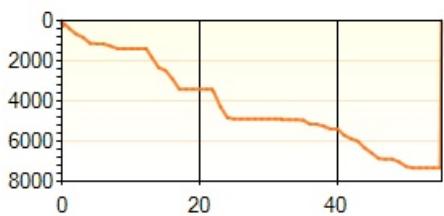
3.1 General Remarks

POB: NH-4,ODM-35,BJ-2,ADF-3,BHI-12,Schl-1.

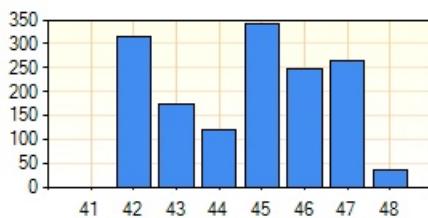
3.3 KPI

Drilling

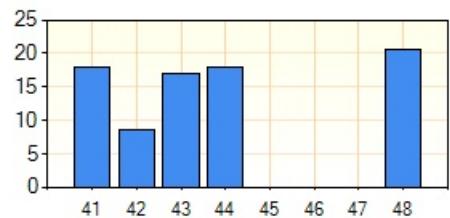
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	3,50	20,50	0,00	24,00	0,00	14,6	37,0	37,0 m/day
Rushmore m/day (for project)	797,00	332,50	0,00	1 129,50	0,00	70,6	6 700,0	142,4 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 129,5	0,0/0,0	0,0/0,0	1 129,5	0,0/0,0	100,0	47,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"	0 m3/m3	0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 05.08.2000 00:00 - 06.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	05.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	6 867,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,00
Excess Lime (kg/m3)	9,99
WPS as chlorides (mg/l)	203,00
Organic clay (kg/m3)	
Electrical stability (V)	840,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	62,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	46,0
Yield point (Pa)	13,0
Gel strength 10s/10m (Pa)	8,5 / 13,5
600 / 300 rpm (lbf/100ft2)	118,0 / 72,0
200 / 100 rpm (lbf/100ft2)	0,0 / 37,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	14,0 / 13,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,0
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 05.08.2000 00:00 - 06.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
05.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	373,0	58,0	294,0	2,0							17,0		40,0
		Run centrifuges in dewatering mode while circulating bottoms up.														
		Total								2,0				123,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %				
05.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/			/	/	/			Nan				
		Run centrifuges in dewatering mode while circulating bottoms up.														
		Total														Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")			TFA in2
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs		
16	8 1/2"	11	ATX536HA	M323	Unknown		1213239	6 x 15	0 x 0	0 x 0	0 x 0
Run No											
16	5 854,0	6 866,0	1 012,0	89,9	11,3		0	0,0			
Run No	Pump		WOB		RPM		Torque		Conn drag		
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN	
16	2 252	258,00	6	11	136	138					
Run No	IADC Dull Grading						Remarks				
	I	O	DC	L	B	G	OC	RP	RRAB RE-RUNABLE		
16	2	3	WT	T	X	I	RO	DTF	RE-RUNABLE		

7. Geology / Pressure Data

7.0 Geologists

Geologist day: C.Dons/ G.S. Bremmeng

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology						
m MD	m TVD	m MD	m TVD								
6 830,0	2 944,3	6 866,0	2 935,8	Cuttings	Siltstone						
		Lithology		From %	To %	Properties					
		Siltstone				at top arg grad Clst, m dk gry-dk gry-gry blk-brn blk, sbplty, frm-m hd, non calc, micromic, micropyr, loc vf sdy/carb lam, bcm Sst/Sltst lam, v lt gry-m lt gry w/ dk gry lam, loc calc cmt, mn-abd arg, micromic, mn carb.					

7.2 Gas

Remarks
BG-CTOT-.05/.1 %.

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
6 867,0	2 935,6	1,08		

7.6 Geology Remarks

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 05.08.2000 00:00 - 06.08.2000 00:00

.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 04.08.2000 00:00 - 05.08.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 47	Days Since Spud 46	Days Ahead/Behind (+/-) Budget: -45,9 Perfect Well: -46,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 6 830,0 m	Depth TVD 2 944,3 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 6 830,0 m	TD of Well at 24:00 TVD 2 944,3 m	Drilled 00:00-24:00 MD 265,0 m
	Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig: R Adams	Geologist Day C.Dons
Company Supervisor Night T. Helgøy	Company Engineer Night	Geologist Night G.S. Bremmeng	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	00:30	0,50	6 577,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 6565m to 6577m.
00:30	02:00	1,50	6 577,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Circulated to clean the hole. 2200 LPM, 265 bar, 140 RPM
02:00	06:00	4,00	6 830,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 6577m to 6830m. 2230 LPM, 270 bar, 140 RPM, 42-48 KNm, 5-10 ton WOB. Had problems to start pulsing the MWD after connections and after downlinks.
06:00	00:00	18,00	6 830,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 6577m to 6830m. 2230 LPM, 270 bar, 140 RPM, 42-48 KNm, 5-10 ton WOB. Had problems to start pulsing the MWD after connections and after downlinks.

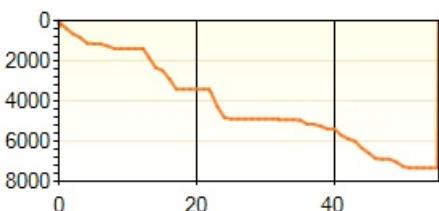
3.1 General Remarks

POB: NH-4,ODM-35,BJ-2,ADF-3,BHI-12

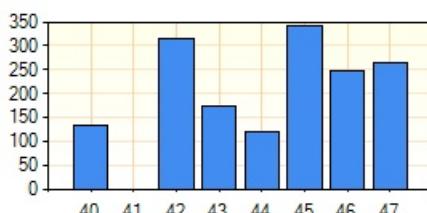
3.3 KPI

Drilling

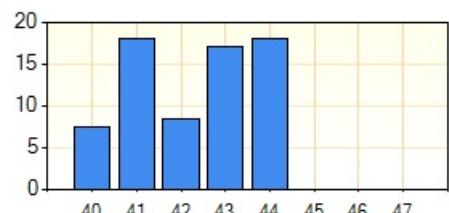
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 04.08.2000 00:00 - 05.08.2000 00:00

	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	265,0	265,0 m/day
Rushmore m/day (for project)	793,50	312,00	0,00	1 105,50	0,00	71,8	6 663,0	144,7 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 105,5	0,0/0,0	0,0/0,0	1 105,5	0,0/0,0	100,0	46,1
		Section	00:00 - 24:00	Avg. section				
Fluid adherence	8 1/2"		0 m3/m3	0 m3/m3				

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
6 777,0	103,80	236,90	2 957,0	-3 460,37	-4 246,88	0,14		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 04.08.2000 00:00 - 05.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	04.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	6 827,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	14,00
Excess Lime (kg/m3)	9,99
WPS as chlorides (mg/l)	197,00
Organic clay (kg/m3)	
Electrical stability (V)	865,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	62,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	48,0
Yield point (Pa)	14,0
Gel strength 10s/10m (Pa)	8,5 / 14,0
600 / 300 rpm (lbf/100ft2)	124,0 / 76,0
200 / 100 rpm (lbf/100ft2)	59,0 / 39,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	15,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,0
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 04.08.2000 00:00 - 05.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
04.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	362,0	4,0	265,0								5,0		21,0
		Run centrifuges continously.														
		Total									2,0			106,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
04.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/			
		Run centrifuges continously.										
		Total										

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")			TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs			
16	8 1/2"	11	ATX536HA	M323	Unknown		1213239	6 x 15	0 x 0	0 x 0	0 x 0	
16	5 854,0	6 866,0	1 012,0	89,9	11,3		0	0,0				
Pump				WOB		RPM		Torque		Conn drag		
Run No	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN		
16	2 253	231,00	4	16	99	140						
IADC Dull Grading								Remarks				
Run No	I	O	DC	L	B	G	OC	RP				
16	2	3	WT	T	X	I	RO	DTF	RRAB RE-RUNABLE			

7. Geology / Pressure Data

7.0 Geologists

Geologist day: C.Dons/ G.S. Bremmeng

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
6 565,0	3 010,5	6 585,0	3 005,3	Cuttings	Siltstone/Claystone								
		Lithology		From %	To %	Properties							
		Siltstone				brn gry-brn blk, bcm gry blk-brn blk, mod hd, blky, non calc, v arg grad Clst, Tr-loc abd carb spkld, r plt Rem, loc micropyr.							
6 585,0	3 005,3	6 830,0	2 944,3	Cuttings	Sandstone								
		Lithology		From %	To %	Properties							
		Sandstone				wh-lt gry, clr, trnsl Qtz, frm-fri, vf-v crs, pred m, sbrndd, mod-wl srt, loc abd Kao Mtrx, loc lse, loc calc cmt strgr, loc arg.							

7.2 Gas

Remarks
BG-CTOT-.05/.11 %.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 04.08.2000 00:00 - 05.08.2000 00:00

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
6 830,0	2 944,3	1,08		

7.6 Geology Remarks

.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 03.08.2000 00:00 - 04.08.2000 00:00

Project No	Section	Start Time	Start Depth MD	Primary Conveyance	Well Classification
	8 1/2"	21.07.2000 19:00	4 871,0 m	DP	OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number	46	Days Since Spud	45	Days Ahead/Behind (+/-)
	Budget:	-44,9	Perfect Well:	-45,1	WOW: 0,0
	Mud weight	g/cm3	BOP Pressure Rating	345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max	1,08 g/cm3	Depth MD	6 565,0 m	Depth TVD 3 010,5 m
	FIT	1,66 g/cm3	Depth MD	3 399,0 m	Depth TVD 2 105,8 m
	Casing Size	9 5/8"	Depth MD	4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD	6 565,0 m	TD of Well at 24:00 TVD	3 010,5 m	Drilled 00:00-24:00 MD 249,0 m
Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig: R Adams				Geologist Day C.Dons
Company Supervisor Night T. Helgøy	Company Engineer Night				Geologist Night G.S. Bremmeng
Operator Norsk Hydro					Contractor ODB

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	06:00	6,00	6 565,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 6316m to 6565m. 2200 LPM, 265 bar, 140 RPM, 40-45 KNm, 3-10 ton WOB.
06:00	00:00	18,00	6 565,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 6316m to 6565m. 2200 LPM, 265 bar, 140 RPM, 40-45 KNm, 3-10 ton WOB.

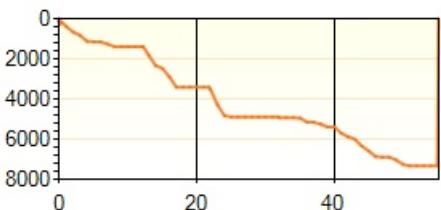
3.1 General Remarks

POB: NH-4,ODM-35,BJ-3,ADF-2,BHI-12

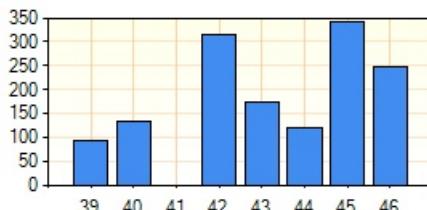
3.3 KPI

Drilling

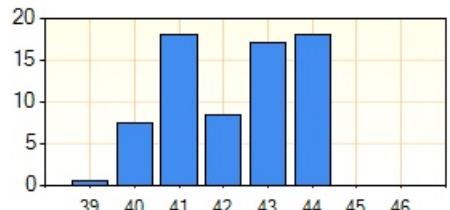
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
24,00	0,00	0,00	24,00	0,00	100,0	249,0	249,0 m/day
769,50	312,00	0,00	1 081,50	0,00	71,2	6 398,0	142,0 m/day

Drilling contractors downtime
OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 03.08.2000 00:00 - 04.08.2000 00:00

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling								
Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 081,5	0,0/0,0	0,0/0,0	1 081,5	0,0/0,0	100,0	45,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"	0 m3/m3	0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
6 509,0	98,80	233,90	3 022,0	-3 312,65	-4 033,10	1,63		HYDRO_MWD _SCC_SAG
6 538,0	102,40	234,10	3 016,7	-3 329,40	-4 056,15	3,73		HYDRO_MWD _SCC_SAG
6 567,0	104,20	234,80	3 010,0	-3 345,81	-4 079,11	1,99		HYDRO_MWD _SCC_SAG
6 596,0	106,60	234,60	3 002,3	-3 361,97	-4 101,93	2,49		HYDRO_MWD _SCC_SAG
6 625,0	106,40	235,00	2 994,1	-3 377,99	-4 124,65	0,45		HYDRO_MWD _SCC_SAG
6 654,0	103,90	235,40	2 986,5	-3 393,97	-4 147,64	2,62		HYDRO_MWD _SCC_SAG
6 683,0	103,90	235,20	2 979,6	-3 409,99	-4 170,78	0,20		HYDRO_MWD _SCC_SAG
6 711,0	103,90	236,60	2 972,8	-3 425,23	-4 193,29	1,46		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 03.08.2000 00:00 - 04.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	03.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	6 565,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,00
Excess Lime (kg/m3)	9,62
WPS as chlorides (mg/l)	194,00
Organic clay (kg/m3)	
Electrical stability (V)	860,0
Activity of water	
Solids	
Sand (vol%)	0,3
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	62,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	46,0
Yield point (Pa)	13,0
Gel strength 10s/10m (Pa)	8,5 / 13,0
600 / 300 rpm (lbf/100ft2)	118,0 / 72,0
200 / 100 rpm (lbf/100ft2)	55,0 / 37,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	14,0 / 13,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,2
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	123,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 03.08.2000 00:00 - 04.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
03.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	353,0	50,0	289,0	3,0							7,0		30,0
		Run centrifuges continously.														
		Total									2,0			101,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
03.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/			
		Run centrifuges continously.										
		Total										

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")			TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs			
16	8 1/2"	11	ATX536HA	M323	Unknown		1213239	6 x 15	0 x 0	0 x 0	0 x 0	
16	5 854,0	6 866,0	1 012,0	89,9	11,3		0	0,0				
Pump				WOB		RPM		Torque		Conn drag		
Run No	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN		
16	2 249	221,00	2	17	93	140						
IADC Dull Grading								Remarks				
Run No	I	O	DC	L	B	G	OC	RP				
16	2	3	WT	T	X	I	RO	DTF	RRAB RE-RUNABLE			

7. Geology / Pressure Data

7.0 Geologists

Geologist day: C.Dons/ G.S. Bremmeng

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
6 316,0	3 033,9	6 375,0	3 034,6	Cuttings	Sandstone								
		Lithology		From %	To %	Properties							
		Sandstone				wh-lt grey, pl brn, clr, trnsl Qtz, vf-m, occ crs-pbly, dom f-m, frm-fri, sbrndd, mod-pr srt, loc abd Kao/arg Mtrx, loc calc cmt, Tr sil cmt. At base pred crs-m.							
6 375,0	3 034,6	6 565,0	3 010,5	Cuttings	Siltstone/Claystone								
		Lithology		From %	To %	Properties							
		Siltstone				brn gry-brn blk, bcm gry blk-brn blk, mod hd, blky, non calc, v arg grad Clst, Tr-loc abd carb spkld, r plt Rem, loc micropyr.							

7.2 Gas

Remarks
BG-CTOT-.01/.45 %.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 03.08.2000 00:00 - 04.08.2000 00:00

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
6 565,0	3 010,5	1,08		

7.6 Geology Remarks

.

7.7 Preliminary Zonation

Code	Group / Formation	Planned		Actual		Difference
		Top m MD	Top m TVD	Top m MD	Top m TVD	
BRNE	Ness Fm			5 914,0	2 917,3	
BRNE	Ness Fm			6 100,0	2 991,6	
BRNE	Ness Fm			6 116,0	2 997,1	
BRET	Etive Fm			6 127,0	3 000,7	
RRRA	Rannoch Fm			6 136,0	3 003,5	
BROS	Oseberg Fm			6 151,0	3 007,8	
DUDR	Drake Fm			6 375,0	3 034,6	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 02.08.2000 00:00 - 03.08.2000 00:00

Project No	Section	Start Time	Start Depth MD	Primary Conveyance	Well Classification
	8 1/2"	21.07.2000 19:00	4 871,0 m	DP	OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead 58,0 m	Rig Heading deg

1. Daily Status

	Report Number	45	Days Since Spud	44	Days Ahead/Behind (+/-)
	Budget:	-43,9	Perfect Well:	-44,1	WOW: 0,0
	Mud weight	g/cm3	BOP Pressure Rating	345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max	1,08 g/cm3	Depth MD	6 316,0 m	Depth TVD
	FIT	1,66 g/cm3	Depth MD	3 399,0 m	Depth TVD
	Casing Size	9 5/8"	Depth MD	4 883,0 m	Depth TVD
	TD of Well at 24:00 MD	6 316,0 m	TD of Well at 24:00 TVD	3 033,9 m	Drilled 00:00-24:00 MD 342,0 m
Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig: R Adams				Geologist Day C.Dons
Company Supervisor Night T. Helgøy	Company Engineer Night				Geologist Night G.S. Bremmeng
Operator Norsk Hydro					Contractor ODB

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	06:00	6,00	6 316,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5974m to 6316m. 2200 LPM, 257 bar, 140 RPM, 42 KNm, 3-7 ton WOB.
06:00	00:00	18,00	6 316,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5974m to 6316m. 2200 LPM, 257 bar, 140 RPM, 42 KNm, 3-7 ton WOB.

3.1 General Remarks

POB: NH-4,ODM-35,BJ-3,ADF-2,BHI-13

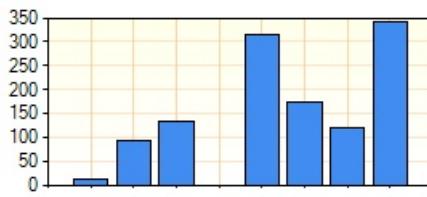
3.3 KPI

Drilling

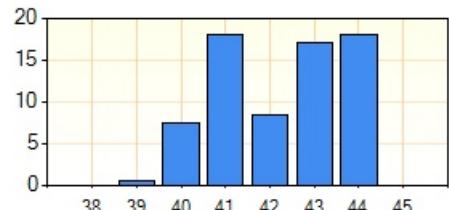
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	342,0	342,0 m/day
Rushmore m/day (for project)	745,50	312,00	0,00	1 057,50	0,00	70,5	6 149,0	139,6 m/day

Drilling contractors downtime
OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 02.08.2000 00:00 - 03.08.2000 00:00

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling								
Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 057,5	0,0/0,0	0,0/0,0	1 057,5	0,0/0,0	100,0	44,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"	0 m3/m3	0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
6 278,0	84,60	231,40	3 031,3	-3 171,76	-3 851,10	2,43		HYDRO_MWD _SCC_SAG
6 307,0	86,40	232,00	3 033,5	-3 189,68	-3 873,79	1,96		HYDRO_MWD _SCC_SAG
6 336,0	89,00	232,50	3 034,7	-3 207,42	-3 896,70	2,74		HYDRO_MWD _SCC_SAG
6 365,0	90,50	231,00	3 034,8	-3 225,37	-3 919,47	2,19		HYDRO_MWD _SCC_SAG
6 394,0	92,10	231,80	3 034,2	-3 243,46	-3 942,13	1,85		HYDRO_MWD _SCC_SAG
6 422,0	94,70	232,10	3 032,5	-3 260,68	-3 964,14	2,80		HYDRO_MWD _SCC_SAG
6 451,0	96,70	232,60	3 029,6	-3 278,31	-3 986,98	2,13		HYDRO_MWD _SCC_SAG
6 480,0	97,30	233,40	3 026,1	-3 295,63	-4 009,97	1,03		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 02.08.2000 00:00 - 03.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	02.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	6 315,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,00
Excess Lime (kg/m3)	9,25
WPS as chlorides (mg/l)	186,00
Organic clay (kg/m3)	
Electrical stability (V)	840,0
Activity of water	
Solids	
Sand (vol%)	0,3
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	62,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	46,0
Yield point (Pa)	13,0
Gel strength 10s/10m (Pa)	8,5 / 13,0
600 / 300 rpm (lbf/100ft2)	118,0 / 72,0
200 / 100 rpm (lbf/100ft2)	55,0 / 37,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	15,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,0
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 02.08.2000 00:00 - 03.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
02.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	346,0	1,0	290,0	4,0							7,0		25,0
		Run centrifuges in Barite and fluid recovery mode continuously. R														
		Total										2,0		94,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %				
02.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/			Nan				
		Run centrifuges in Barite and fluid recovery mode continuously. R														
		Total														Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")			TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs			
16	8 1/2"	11	ATX536HA	M323	Unknown		1213239	6 x 15	0 x 0	0 x 0	0 x 0	1,035
IADC Dull Grading												
Run No	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN		
16	2 164	238,00	2	11	82	140						
Remarks												
Run No	I	O	DC	L	B	G	OC	RP				
16	2	3	WT	T	X	I	RO	DTF	RRAB RE-RUNABLE			

7. Geology / Pressure Data

7.0 Geologists

Geologist day: C.Dons/ G.S. Bremmeng

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
5 974,0	2 942,5	6 151,0	3 007,8	Cuttings	Claystone with Siltstone, Sandstone and stringers of Coal								
		Lithology		From %	To %	Properties							
		Coal				blk, occ brn blk, brit, gen vit, occ dull, com Conch, occ arg grad carb Clst, Tr micropyr.							
		Siltstone				gry brn, occ lt brn gry, frm, blky, non calc, occ vf sdy, tr dism carb Mat, com Plt frags.							
		Sandstone				wh-v It gry, clr-trnsl Qtz, vf-f, r f-m, fri, gen sbrnd, wl snt, loc slty, r grad Sltst, loc Tr Kao Mtrx, occ Plt frags, r micropyr.							
		Claystone				It brn gry-m It gry-brn gry, frm-mod hd, blky, non calc, dism carb + Plt Rem, tr micromic, r micropyr, occ slty grdg Sltst, loc vf sdy.							
6 151,0	3 007,8	6 316,0	3 033,9	Cuttings	Sandstone								
		Lithology		From %	To %	Properties							
		Sandstone				wh-lt gry, clr, trnsl, occ mky Qtz, vf-m, gen m-f, frm-fri, Kao/arg Mtrx, loc abd calc cmt, occ m-crs-pbly, lse, mod-pr srt, r Tr Pyr nod.							

7.2 Gas

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 02.08.2000 00:00 - 03.08.2000 00:00

Remarks
BG-CTOT-.05/.29 %.

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
6 316,0	3 033,9	1,08		

7.6 Geology Remarks

Offset data refers to survey at 6336 m.

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 01.08.2000 00:00 - 02.08.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 44	Days Since Spud 43	Days Ahead/Behind (+/-) Budget: -42,9 Perfect Well: -43,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 5 974,0 m	Depth TVD 2 942,5 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 5 974,0 m	TD of Well at 24:00 TVD 2 942,5 m	Drilled 00:00-24:00 MD 120,0 m
	Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night C.Dons	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	02:00	2,00	1 011,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole to 1011m.
02:00	03:30	1,50	1 011,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Changed the DDM washpipe. 57hrs.
03:30	04:00	0,50	1 011,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Tested the Autotrak at 1011m.
04:00	06:00	2,00	4 651,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued to run in the hole to 4651m.
06:00	10:00	4,00	4 651,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued to run in the hole to 4651m.
10:00	11:30	1,50	4 651,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Cut and slipped the drilling line at 4651m.
11:30	14:00	2,50	4 905,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Picked up 30 joints 6 5/8" drillpipe and ran in the hole to 4905m.
14:00	16:30	2,50	5 830,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued to run in the hole to 5830m.
16:30	18:00	1,50	5 854,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Relogged from 5830m to 5845m. Reamed tight hole and relogged from 5845m to 5854m. Took 10-12ton wt. - press. increased 20 bar.
18:00	00:00	6,00	5 974,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5854m to 5974m. 2120lpm - 253bar - 140rpm - 36/39KNm - 3/5wob

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 01.08.2000 00:00 - 02.08.2000 00:00

3.0.1 Incidents

Start Date/Time		End Date/Time		Activity Code / Aborted Operation							
01.08.2000 00:00	02:00	D	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole to 1011m.								
Report status: Completed		Finish Date		Total Down Time 1,5 hrs	Service RIG	Failure Code E313 - Imported from Bore					
Equipment Type washpipe		Trade Name washpipe		Manufacturer Maritime Hydraulics	Serial no	Equipment Part washpipe					
Synergi no	Description										
Hazard	Changed the DDM washpipe.										
Company		Service	Description			Downtime %					
Odfjell Drilling AS		RIG	Rig Operations			100					

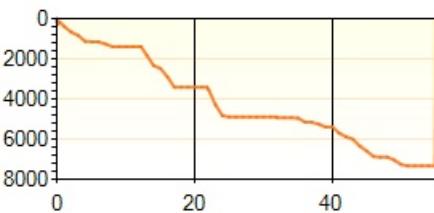
3.1 General Remarks

POB: NH-4,ODM-34,BJ-2,ADF-2,BHI-13

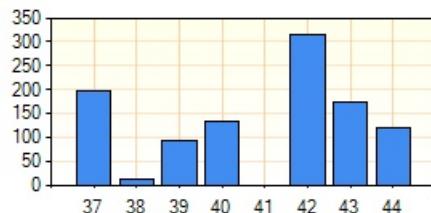
3.3 KPI

Drilling

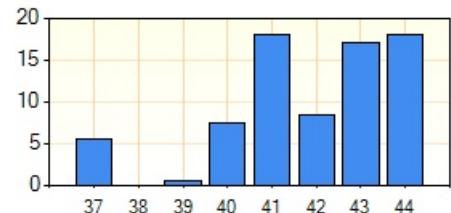
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	6,00	18,00	0,00	24,00	0,00	25,0	120,0	120,0 m/day
Rushmore m/day (for project)	721,50	312,00	0,00	1 033,50	0,00	69,8	5 807,0	134,9 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 033,5	0,0/0,0	0,0/0,0	1 033,5	0,0/0,0	100,0	43,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"	0 m3/m3	0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
5 931,0	64,80	228,70	2 924,6	-2 961,48	-3 599,36	0,22		HYDRO_MWD_SCC_SAG
5 960,0	65,40	229,10	2 936,8	-2 978,78	-3 619,18	0,73		HYDRO_MWD_SCC_SAG
5 989,0	66,80	229,00	2 948,5	-2 996,15	-3 639,20	1,45		HYDRO_MWD_SCC_SAG
6 017,0	66,80	229,50	2 959,6	-3 012,95	-3 658,70	0,49		HYDRO_MWD_SCC_SAG
6 046,0	67,00	229,90	2 970,9	-3 030,20	-3 679,04	0,43		HYDRO_MWD_SCC_SAG
6 075,0	66,90	230,30	2 982,3	-3 047,32	-3 699,52	0,39		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 01.08.2000 00:00 - 02.08.2000 00:00

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
6 104,0	69,40	230,00	2 993,1	-3 064,57	-3 720,18	2,60		HYDRO_MWD _SCC_SAG
6 133,0	71,90	230,20	3 002,7	-3 082,12	-3 741,17	2,59		HYDRO_MWD _SCC_SAG
6 162,0	74,90	230,30	3 011,0	-3 099,89	-3 762,53	3,11		HYDRO_MWD _SCC_SAG
6 191,0	77,20	231,10	3 018,0	-3 117,71	-3 784,31	2,51		HYDRO_MWD _SCC_SAG
6 220,0	80,40	230,90	3 023,6	-3 135,61	-3 806,42	3,32		HYDRO_MWD _SCC_SAG
6 249,0	82,30	230,90	3 028,0	-3 153,69	-3 828,66	1,97		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 01.08.2000 00:00 - 02.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	01.08.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	5 973,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,00
Excess Lime (kg/m3)	6,29
WPS as chlorides (mg/l)	190,00
Organic clay (kg/m3)	
Electrical stability (V)	760,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	61,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	46,0
Yield point (Pa)	13,0
Gel strength 10s/10m (Pa)	8,0 / 12,5
600 / 300 rpm (lbf/100ft2)	118,0 / 72,0
200 / 100 rpm (lbf/100ft2)	57,0 / 38,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	14,0 / 13,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,4
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 01.08.2000 00:00 - 02.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
01.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	335,0	4,0	320,0								12,0		26,0
		Deweighting reserve mud to use with premix. Run centrifuges on active														
		Total									2,0			87,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
01.08.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/			Nan	
		Deweighting reserve mud to use with premix. Run centrifuges on active											
		Total											Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")			TFA in2
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs		
16	8 1/2"	11	ATX536HA	M323	Unknown		1213239	6 x 15	0 x 0	0 x 0	0 x 0
Run No	Pump		WOB		RPM		Torque		Conn drag		
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN	
16	2 232	208,00	1	13	42	139					
Run No	IADC Dull Grading						Remarks				
	I	O	DC	L	B	G	OC	RP	RRAB RE-RUNABLE		
16	2	3	WT	T	X	I	RO	DTF	RRAB RE-RUNABLE		

7. Geology / Pressure Data

7.0 Geologists

Geologist day: P.Anderson/C.Dons

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
5 854,0	2 891,8	5 974,0	2 942,5	Cuttings	Claystone with minor Sandstone, Siltstone and Coal beds								
		Lithology		From %	To %	Properties							
		Coal				blk, hd, blky, brit, occ Conch, com arg coaly Clst							
		Sandstone				lt gry, clr-trnsl-milky Qtz, pred vf-m, bcm m-crs, r v crs, mod srtd, sbrnd-sbang, pred lse, tr coaly - dism carb mat, mnrl Plt Rem, tr micropyr							
		Siltstone				brn gry-olv gry, m gry, mod hd, blky, non calc, arg grdg Clst, occ vf sdy, tr dism microyr, dism carb Mat, abd Plt Rem, loc Mic lam							
		Claystone				lt brn gry - lt olv gry-m lt gry-brn gry, mod hd, blky, non calc, dism carb + Plt Rem, tr micropyr, non-occ slty grdg Sltst, loc vf-m sdy, r pyr							

7.2 Gas

Remarks
BG-CTOT-.1/.45 %.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 01.08.2000 00:00 - 02.08.2000 00:00

Gas peaks					Chromatographic analysis (ppm)						
Peak Type	m MD	m TVD	Max %	Drilled gas %	C1	C2	C3	i-C4	n-C4	i-C5	n-C5
Trip gas	5 854,0	2 891,8	2,53		19 656	612	156	156	11		

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
5 974,0	2 942,5	1,08		

7.6 Geology Remarks

Gammaray and Resistivity on Autotrack failed from 5850m. Decided to drill ahead without GR/RES for some time as long as stratigraphic control using Dend/Neu logs and cuttings. Biostrat samples Set A 5360-5850m sent on todays chopper.

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 31.07.2000 00:00 - 01.08.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 43	Days Since Spud 42	Days Ahead/Behind (+/-) Budget: -41,9 Perfect Well: -42,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 5 854,0 m	Depth TVD 2 891,8 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 5 854,0 m	TD of Well at 24:00 TVD 2 891,8 m	Drilled 00:00-24:00 MD 173,0 m
Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson	
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night C.Dons	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	06:00	6,00	5 839,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5681m to 5839m.
06:00	07:00	1,00	5 839,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) MWD stopped pulsing at 5839m, attempt to regain MWD pulses.
07:00	08:00	1,00	5 854,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill to 5854m with no MWD data.
08:00	11:00	3,00	5 854,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pumped a 5 m3 high weight pill and circulated it out prior to pull out of the hole.
11:00	21:00	10,00	145,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole to 145m.
21:00	21:30	0,50	0,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Recovered the radioactive source and laid down the bottom hole assembly.
21:30	23:30	2,00	0,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Picked up the new Autotrac, sonic tool and made up new bit. Installed radioactive source.
23:30	00:00	0,50	145,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Replaced 4 joints undergauged 5" heavy weight drillpipe.

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation
31.07.2000 00:00	06:00	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5681m to 5839m.
Report status: Completed	Finish Date	Total Down Time 33,5 hrs
Equipment Type AT	Trade Name AT	Service RIG
Synergi no	Failure Code E357 - Imported from Bore	
Synergi no	Equipment Part AT	
Synergi no	Description	

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 31.07.2000 00:00 - 01.08.2000 00:00

Hazard	MWD stopped pulsing at 5839m, attempt to regain MWD pulses.			
Company	Service	Description	Downtime %	
Baker Hughes Inteq	RIG	Rig Operations	100	

3.1 General Remarks

POB: NH-4,ODM-34,BJ-2,ADF-3,BHI-13

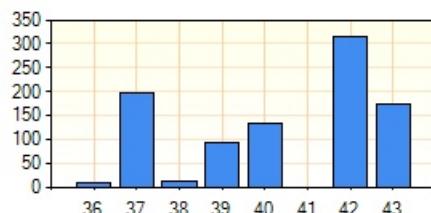
3.3 KPI

Drilling

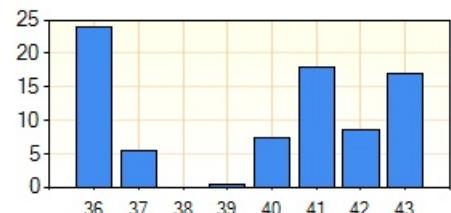
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	7,00	17,00	0,00	24,00	0,00	29,2	173,0	173,0 m/day
Rushmore m/day (for project)	715,50	294,00	0,00	1 009,50	0,00	70,9	5 687,0	135,2 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/1 009,5	0,0/0,0	0,0/0,0	1 009,5	0,0/0,0	100,0	42,1
		Section						Avg. section
Fluid adherence		8 1/2"		0 m3/m3		0 m3/m3		

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
5 815,0	64,60	229,30	2 875,0	-2 892,34	-3 520,51	0,38		HYDRO_MWD_SCC_SAG
5 845,0	64,40	228,70	2 887,9	-2 910,10	-3 540,94	0,58		HYDRO_MWD_SCC_SAG
5 874,0	65,00	228,40	2 900,3	-2 927,46	-3 560,60	0,68		HYDRO_MWD_SCC_SAG
5 903,0	64,70	228,90	2 912,6	-2 944,80	-3 580,30	0,56		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 31.07.2000 00:00 - 01.08.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	31.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	5 854,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,00
Excess Lime (kg/m3)	5,55
WPS as chlorides (mg/l)	179,00
Organic clay (kg/m3)	
Electrical stability (V)	880,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	62,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	40,0
Yield point (Pa)	13,0
Gel strength 10s/10m (Pa)	7,0 / 12,0
600 / 300 rpm (lbf/100ft2)	106,0 / 66,0
200 / 100 rpm (lbf/100ft2)	51,0 / 35,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	14,0 / 13,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,0
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 31.07.2000 00:00 - 01.08.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
31.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	357,0	52,0	346,0								11,0		22,0
		Lost totally 14 m3 on shakers and centrifuges on active system wh														
		Total										2,0		75,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
31.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/			Nan
		Lost totally 14 m3 on shakers and centrifuges on active system wh										
		Total										Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")			TFA in2
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs		
14	8 1/2"	10	ATX536HA	M323	Unknown		324031	4 x 20	0 x 0	0 x 0	0 x 0
<hr/>											
14	5 365,0	5 854,0	489,0	22,7	21,5		0	0,0			
Run No	Pump		WOB		RPM		Torque		Conn drag		
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN	
14	1 983	202,00	1	13	134	142					
Run No	IADC Dull Grading						Remarks				
	I	O	DC	L	B	G	OC	RP			
14	1	3	WT	T	X	I	CT	DTF	RRAB	RE-RUNABLE	

7. Geology / Pressure Data

7.0 Geologists

Geologist day: P.Anderson/C.Dons

Geologist night:

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 31.07.2000 00:00 - 01.08.2000 00:00

7.1 Lithology

From		To		Sample type	General lithology
m MD	m TVD	m MD	m TVD		
5 682,0	2 818,8	5 707,0	2 829,1	Cuttings	Sandstone and Siltstone and Claystone and Coal beds
		Lithology		From % To %	Properties
		Coal			blk - brn blk, hd, blky, brit, shny, conch, loc micropyr, mnr arg grdg coaly Clst
		Claystone			brn blk-blk, mod hd, blky, non calc, carb + Plt Rem, loc grdg coal
		Sandstone			olv gry-brn gry, clr-trnsl Qtz, pred vf-f, mnr m-crs, mod srtid, sbang, pred lse, abd carb mat, mnr Plt Rem. tr micropyr, arg-sly mtrix, tr Kao mtrix, occ v Mic lam Clst
		Siltstone			brn gry, olv gry-dk gry, frm - mod hd, blky, non calc, vf sdy, tr dism microyr, dism carb Mat, com Plt Rem, micromic oss v Mic lam, loc grdg Clst
5 707,0	2 829,1	5 740,0	2 843,1	Cuttings	Sandstone and Siltstone and minor Claystone
		Lithology		From % To %	Properties
		Siltstone			brn gry, olv gry-dk gry, frm - mod hd, blky, non calc, vf sdy, tr dism microyr, dism carb Mat, abd Plt Rem, micromic occ v Mic lam, abd micropyr, mnr grdg vf Sst, loc grdg Clst
		Sandstone			olv gry-brn gry, com stained lt brn, clr-trnsl Qtz, pred f-m, mnr vf-v crs, mod srtid, sbang, pred lse, mnr carb mat, mnr Plt Rem. tr micropyr, tr Kao mtrix, occ v Mic lam
		Claystone			brn blk-brn gry, mod hd, blky, non calc, carb + Plt Rem, tr vf sdy
5 740,0	2 843,1	5 854,0	2 891,8	Cuttings	Siltstone and Claystone and Sandstone and Coal beds (Ness)
		Lithology		From % To %	Properties
		Coal			blk, hd, blky, brit, loc arg lam grdg carb Clst
		Sandstone			olv gry-brn gry-m lt gry-v lt gry-wh, clr-trnsl-milky Qtz, pred vf-f, mnr m, wl srtid, rdd-sbang, pred lse, mnr wk calc cmtid, dism carb mat, mnr Plt Rem. tr micropyr, tr silty/arg mtrix, tr micropyr, pr vis Por
		Claystone			m lt gry-brn gry, mod hd - frm, blky, non calc, dism carb + Plt Rem, tr micropyr, com vf sdy
		Siltstone			brn gry, dk gry, frm - fri, blky, non calc, vf sdy mnr grdg vf Sst, tr dism microyr, dism carb Mat, abd Plt Rem, gen Mic, tr micropyr

7.2 Gas

Remarks
BG-CTOT-.2/.8 %.

Gas peaks					Chromatographic analysis (ppm)							
Peak Type		m MD	m TVD	Max %	Drilled gas %	C1	C2	C3	i-C4	n-C4	i-C5	n-C5
Formation gas		5 631,0	2 800,4	1,45		8 971	616	277	36	80		
Formation gas		5 655,0	2 808,4	1,61		10 237	712	327	35	79		
Formation gas		5 673,0	2 815,1	0,95		5 817	434	196	21	53		
Formation gas		5 695,0	2 824,1	1,91		12 428	879	397	48	104		

7.3 Shows

Top depth m MD	Bottom depth m MD	Type	Description
		Remarks	5624 sandstone loc vis oil stn (LT2-2), loc wk dull yel, yel grn dir flu, wk pl yel wh/grn wh cut fluor, no vis cut, wk pl yel wh/grn wh fluor Res, no vis Res. No definite well defined oil shows (Flushed by mud) 5624 sandstone loc vis oil stn (LT2-2), I

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
5 854,0	2 891,8	1,08		

7.6 Geology Remarks

Not able to dump MWD Memory data on rig due to short circuit in tool. Data to be dumped onshore and sent out to rig for final editing. Sonic data faxed.

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 30.07.2000 00:00 - 31.07.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 42	Days Since Spud 41	Days Ahead/Behind (+/-) Budget: -40,9 Perfect Well: -41,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 5 681,0 m	Depth TVD 2 818,4 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 5 681,0 m	TD of Well at 24:00 TVD 2 818,4 m	Drilled 00:00-24:00 MD 316,0 m
	Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night C.Dons	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	02:30	2,50	5 150,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued to run in the hole with the 8 1/2" drilling assembly to 5150m.
02:30	06:00	3,50	5 365,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Relogged the hole from 5150m to bottom at 5365m. 2200lpm - 255bar - 60rpm - 22KNm
06:00	08:30	2,50	5 365,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Relogged the hole from 5150m to bottom at 5365m. 2200lpm - 255bar - 60rpm - 22KNm
08:30	00:00	15,50	5 681,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5365m to 5681m. 2200lpm - 250bar - 140rpm - 35KNm - 8/10wob

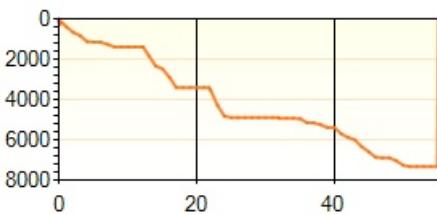
3.1 General Remarks

POB: NH-4,ODM-32,BJ-2,ADF-3,BHI-13

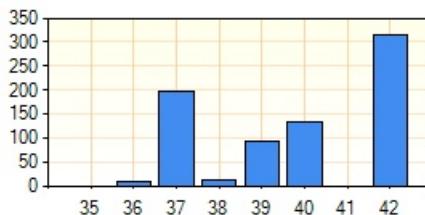
3.3 KPI

Drilling

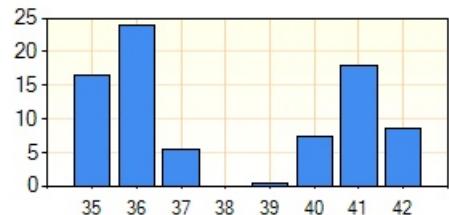
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
15,50	8,50	0,00	24,00	0,00	64,6	316,0	316,0 m/day
708,50	277,00	0,00	985,50	0,00	71,9	5 514,0	134,3 m/day

Drilling contractors downtime

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 30.07.2000 00:00 - 31.07.2000 00:00

OSEBERG B	0,0 hrs (00:00 - 24:00)	0,0 hrs (accumulated independent of well this month)
-----------	-------------------------	--

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/985,5	0,0/0,0	0,0/0,0	985,5	0,0/0,0	100,0	41,1

Fluid adherence	Section	00:00 - 24:00	Avg. section
	8 1/2"	0 m3/m3	0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
5 642,0	70,70	231,40	2 803,7	-2 790,67	-3 400,13	3,14		HYDRO_MWD _SCC_SAG
5 671,0	66,70	229,50	2 814,3	-2 807,87	-3 420,96	4,52		HYDRO_MWD _SCC_SAG
5 700,0	64,90	229,80	2 826,1	-2 824,99	-3 441,12	1,88		HYDRO_MWD _SCC_SAG
5 729,0	64,90	229,50	2 838,4	-2 841,99	-3 461,13	0,28		HYDRO_MWD _SCC_SAG
5 758,0	64,90	230,20	2 850,8	-2 858,93	-3 481,21	0,66		HYDRO_MWD _SCC_SAG
5 787,0	64,90	229,50	2 863,1	-2 875,86	-3 501,28	0,66		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 30.07.2000 00:00 - 31.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	30.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	5 681,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	14,00
Excess Lime (kg/m3)	7,03
WPS as chlorides (mg/l)	175,00
Organic clay (kg/m3)	
Electrical stability (V)	950,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	62,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	41,0
Yield point (Pa)	14,0
Gel strength 10s/10m (Pa)	8,0 / 13,5
600 / 300 rpm (lbf/100ft2)	110,0 / 69,0
200 / 100 rpm (lbf/100ft2)	54,0 / 37,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	15,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,8
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 30.07.2000 00:00 - 31.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
30.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	326,0	1,0	324,0								4,0		10,0
		Lost totally 10 m3 on shakers and centrifuges.														
		Total										2,0		64,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
30.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/			/	/				Nan	
		Lost totally 10 m3 on shakers and centrifuges.											
		Total											Nan

7. Geology / Pressure Data

7.1 Lithology

From		To		Sample type	General lithology																	
m MD	m TVD	m MD	m TVD		From %	To %	Properties															
5 365,0	2 755,9	5 383,0	2 758,6	Cuttings	Sandstone																	
		Lithology		From %	To %	Properties																
		Sandstone				m gry-m dk gry, clr-trnsl Qtz, vf-f, r m, wl srtd, sbrndd, gen non-sl calc loc v calc, gen abd arg + sly mtrx, loc grdg Sltst or Clst, abd Plt Rem, dism carb, dsm Pyr, r Mic, NVP.tr lse Sd vf-crs, r v crs.																
5 383,0	2 758,6	5 460,0	2 769,9	Cuttings	Sandstone																	
		Lithology		From %	To %	Properties																
		Sandstone				m gry-m lt gry-m dk gry, r olv gry, clr-trnsl Qtz, vf, occ f, r m, sbang-sbrndd, wl srtd, abd arg-sly mtx, com grdg sdy Sltst, com Plt Rem, tr micropyr, tr calc cmtd Sst, v lt gry, mot mdk gry blk, frm - mod hd																
5 460,0	2 769,9	5 557,0	2 782,4	Cuttings	Sandstone																	
		Lithology		From %	To %	Properties																
		Sandstone				m dk gry-olv gry, clr-trnsl Qtz, pred vf-f, mnrr m, r crs, mod-w srtd, sbang-sbrnd, frm-fri, mnrr lse, com dism carb mat, occ-abd Plt Rem, r micropyr, abd - mnrr arg mtrx, tr Kao mtrx, r silic cmtd, tr Mic, loc Mic lam Clst, gen pr loc Mod vis Por																
5 557,0	2 782,4	5 650,0	2 806,6	Cuttings	Sandstone																	
		Lithology		From %	To %	Properties																
		Sandstone				m gry-brn gry, clr-trnsl Qtz, tr Fldsp, vf-crs, r v crs, pred m-f, pr srtd, sbang, pred lse, com-abd carb mat, abd Plt Rem, tr micropyr, mnrr arg mtrx, tr Kao mtrx, tr silic cmtd, occ v Mic lam Clst, occ v calc cmtd sst																
5 650,0	2 806,6	5 682,0	2 818,8	Cuttings	Claystone and Coal bed																	
		Lithology		From %	To %	Properties																
		Claystone				brn blk-blk, hd, blky, brit, v shny, v carb, grdg coal (Lagoonal Shale)																
		Sandstone				olv gry-brn gry, clr-trnsl Qtz, pred vf-f, mnrr m-crs, mod srtd, sbang, pred lse, abd carb mat, mnrr Plt Rem, tr micropyr, mnrr arg mtrx, tr Kao mtrx, occ v Mic lam Clst, occ v calc cmtd sst																
		Coal				blk, hd, blky, brit, shny, conch, loc micropyr, mnrr arg grdg coaly Clst																

7.3 Shows

Top depth m MD	Bottom depth m MD	Type	Description
		Remarks	5307 sandstone no vis oil stn, loc wk dull yeo, yel grn dir flu, wk pl yel wh/grn wh cut flor, no vis cut, wk pl yel wh/grn wh fluor Res, no vis Res. No definite well defined oil shows 5307 sandstone no vis oil stn, loc wk dull yeo, yel grn dir flu, wk

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
5 681,0	2 818,4	1,08		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 30.07.2000 00:00 - 31.07.2000 00:00

7.6 Geology Remarks

MWD tool stopped pulsing suddenly. Stopped drilling 5839 to trouble shoot.

7.7 Preliminary Zonation

Code	Group / Formation	Planned		Actual		Difference
		Top m MD	Top m TVD	Top m MD	Top m TVD	
VIHE	Heather Fm.			5 383,0	2 758,6	
BRTA	Tarbert Fm			5 460,0	2 769,9	
BRTA	Tarbert Fm			5 557,0	2 782,4	
BRTA	Tarbert Fm			5 670,0	2 813,9	
BRTA	Tarbert Fm			5 687,0	2 820,8	
BRTA	Tarbert Fm			5 707,0	2 829,1	
BRNE	Ness Fm			5 740,0	2 843,1	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 29.07.2000 00:00 - 30.07.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 41	Days Since Spud 40	Days Ahead/Behind (+/-) Budget: -39,9 Perfect Well: -40,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 5 365,0 m	Depth TVD 2 755,9 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 5 365,0 m	TD of Well at 24:00 TVD 2 755,9 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson	
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night C.Dons	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	05:00	5,00	145,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole to change the Autotrac.
05:00	06:00	1,00	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Recovered the radioactive source and laid down Autotrac,tripple combo and sonic tool.
06:00	07:30	1,50	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Recovered the radioactive source and laid down Autotrac,tripple combo and sonic tool.
07:30	12:00	4,50	0,0	DP	U BOP - TEST SUBSEA BOP, OK Made up BOP test string and run in the hole. Pressure tested the BOP to 300bar. Rams,valves & hoses 35bar/300bar 5/10min - Annular 35bar/240bar 5/10min.
12:00	17:30	5,50	145,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Picked up the new Autotrac, made up bit, trippel combo and sonictool.Installed radioactive sources.
17:30	19:00	1,50	1 015,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole to 1015m.
19:00	19:30	0,50	1 015,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Tested the Autotrac at 1015m.
19:30	22:00	2,50	3 339,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued in the hole to 3339m.
22:00	23:30	1,50	3 339,0	DP	U DRILLING - DRILLING OTHER TIME, OK Slipped the drilling line and serviced the DDM at 3339m.
23:30	00:00	0,50	3 776,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued to run in the hole to 3776m.

3.1 General Remarks

POB: NH-4,ODM-32,BJ-2,ADF-3,BHI-13

Daily Drilling Report

OSEBERG B

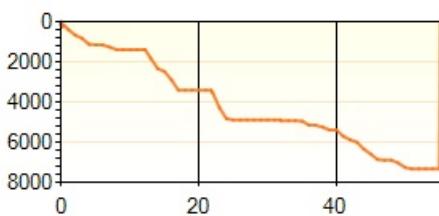
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 29.07.2000 00:00 - 30.07.2000 00:00

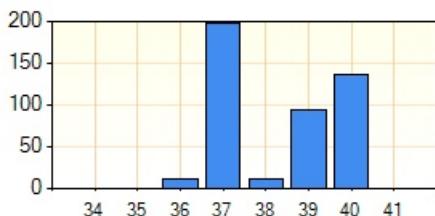
3.3 KPI

Drilling

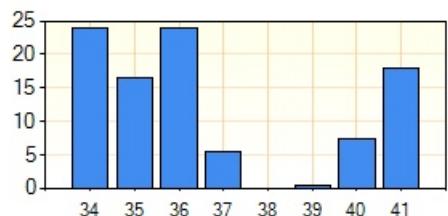
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
--	------------	--------------	-------------	-----------	---------	----------	----------------	--

00:00 - 24:00 - Drilling 6,00 18,00 0,00 24,00 0,00 25,0 0,0 0,0 m/day

Rushmore m/day (for project) 693,00 268,50 0,00 961,50 0,00 72,1 5 198,0 129,7 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/961,5	0,0/0,0	0,0/0,0	961,5	0,0/0,0	100,0	40,1

Section	00:00 - 24:00	Avg. section
---------	---------------	--------------

Fluid adherence 8 1/2" 0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m

Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
5 336,0	81,40	234,90	2 751,5	-2 610,43	-3 159,16	1,85		HYDRO_MWD_SCC_SAG
5 354,0	81,30	234,20	2 754,2	-2 620,75	-3 173,65	1,17		HYDRO_MWD_SCC_SAG
5 383,0	81,20	233,30	2 758,7	-2 637,70	-3 196,77	0,93		HYDRO_MWD_SCC_SAG
5 412,0	81,50	233,60	2 763,0	-2 654,78	-3 219,80	0,44		HYDRO_MWD_SCC_SAG
5 444,0	81,50	235,40	2 767,7	-2 673,15	-3 245,56	1,67		HYDRO_MWD_SCC_SAG
5 471,0	82,70	233,80	2 771,5	-2 688,64	-3 267,36	2,21		HYDRO_MWD_SCC_SAG
5 499,0	83,40	233,20	2 774,8	-2 705,18	-3 289,70	0,98		HYDRO_MWD_SCC_SAG
5 527,0	83,30	232,80	2 778,1	-2 721,91	-3 311,91	0,44		HYDRO_MWD_SCC_SAG
5 556,0	80,30	233,20	2 782,2	-2 739,19	-3 334,84	3,13		HYDRO_MWD_SCC_SAG
5 585,0	77,30	232,00	2 787,9	-2 756,46	-3 357,43	3,33		HYDRO_MWD_SCC_SAG
5 613,0	73,70	230,90	2 794,9	-2 773,35	-3 378,63	4,02		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 29.07.2000 00:00 - 30.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	29.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	5 365,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	14,00
Excess Lime (kg/m3)	6,29
WPS as chlorides (mg/l)	185,00
Organic clay (kg/m3)	
Electrical stability (V)	930,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	64,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	39,0
Yield point (Pa)	14,0
Gel strength 10s/10m (Pa)	8,5 / 14,0
600 / 300 rpm (lbf/100ft2)	106,0 / 67,0
200 / 100 rpm (lbf/100ft2)	52,0 / 35,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	15,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,8
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 29.07.2000 00:00 - 30.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
29.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	324,0	44,0	341,0	2,0							10,0		10,0
		Lost 10 m3 reserve mud when centrifuging. Lost totally 2 m3 when														
		Total								2,0				60,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %			
29.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/			/	/				Nan			
		Lost 10 m3 reserve mud when centrifuging. Lost totally 2 m3 when													
		Total													Nan

7. Geology / Pressure Data

7.3 Shows

Top depth m MD	Bottom depth m MD	Type	Description
		Remarks	5307 sandstone no vis oil stn, loc wk dull yeo, yel grn dir flu, wk pl yel wh/grn wh cut flor, no vis cut, wk pl yel wh/grn wh fluor Res, no vis Res. No definite well defined oil shows 5307 sandstone no vis oil stn, loc wk dull yeo, yel grn dir flu, wk

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
5 365,0	2 755,9	1,08		

7.6 Geology Remarks

Reamed 180m/hr 5150 - 5250m (Purpose: Memory data of missing RES data last run) Reamed 50 m/hr 5250 - 5365m (Purpose: Realtime dat a RES/DENS/NEU + Calibration overlap w/ last run)
--

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 28.07.2000 00:00 - 29.07.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 40	Days Since Spud 39	Days Ahead/Behind (+/-) Budget: -38,9 Perfect Well: -39,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 5 365,0 m	Depth TVD 2 755,9 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 5 365,0 m	TD of Well at 24:00 TVD 2 755,9 m	Drilled 00:00-24:00 MD 135,0 m
Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson	
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night C.Dons	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	06:00	6,00	5 331,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5230m to 5331m. 2230lpm - 240bar - 140rpm - 30/45KNm - 8/17wob
06:00	15:00	9,00	5 331,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5230m to 5331m. 2230lpm - 240bar - 140rpm - 30/45KNm - 8/17wob
15:00	16:00	1,00	5 331,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Troubleshoot communication problem with Autotrak.
16:00	16:30	0,50	5 331,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Adjusted safety clamp on the DDM mudhose.
16:30	18:00	1,50	5 365,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill to 5365m.
18:00	21:30	3,50	5 365,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Circulated 5 m3 and 6 m3 high weight pills around prior to pull out of the hole to change Autotrak. Autotrak & Density failed.
21:30	00:00	2,50	4 181,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole to 4181m. No tight spots.

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation		
28.07.2000 15:00	16:00	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Troubleshoot communication problem with Autotrak.		
Report status: Completed	Finish Date	Total Down Time 0,5 hrs	Service RIG	Failure Code E313 - Imported from Bore
Synergi no	Description			
Hazard	Adjust safety clamp on the DDM mudhose.			

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 28.07.2000 00:00 - 29.07.2000 00:00

Company		Service	Description	Downtime %
Odfjell Drilling AS		RIG	Rig Operations	100
Start Date/Time	End Date/Time	Activity Code / Aborted Operation		
28.07.2000 06:00	15:00	U	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5230m to 5331m. 2230lpm - 240bar - 140rpm - 30/45KN m - 8/17wob	
Report status: Completed	Finish Date	Total Down Time 33,5 hrs	Service RIG	Failure Code E357 - Imported from Bore
Synergi no	Description			
Hazard	Trouble shoot communication problem with MWD and Autotrak.			
Company		Service	Description	Downtime %
Baker Hughes Inteq		RIG	Rig Operations	100

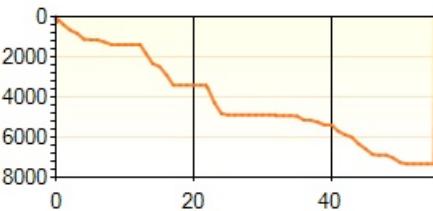
3.1 General Remarks

POB: NH-4,ODM-32,BJ-2,ADF-3,BHI-14

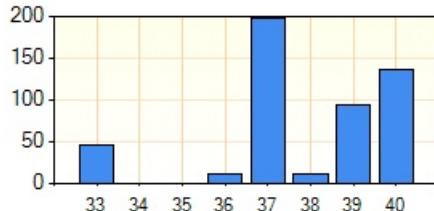
3.3 KPI

Drilling

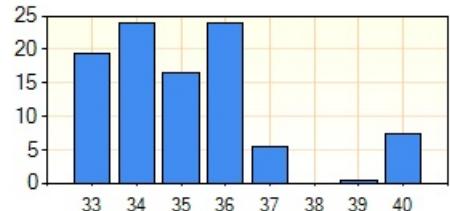
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	16,50	7,50	0,00	24,00	0,00	68,8	135,0	135,0 m/day
Rushmore m/day (for project)	687,00	250,50	0,00	937,50	0,00	73,3	5 198,0	133,1 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/937,5	0,0/0,0	0,0/0,0	937,5	0,0/0,0	100,0	39,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"	0 m3/m3	0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 28.07.2000 00:00 - 29.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	28.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	5 365,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,50
Excess Lime (kg/m3)	7,40
WPS as chlorides (mg/l)	185,00
Organic clay (kg/m3)	
Electrical stability (V)	990,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	63,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	39,0
Yield point (Pa)	13,5
Gel strength 10s/10m (Pa)	8,5 / 13,0
600 / 300 rpm (lbf/100ft2)	105,0 / 66,0
200 / 100 rpm (lbf/100ft2)	52,0 / 36,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	15,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,0
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 28.07.2000 00:00 - 29.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
28.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	321,0	10,0	305,0								12,0		15,0
		Lost 7 m3 reserve mud when centrifuging. Lost 7 m3 on active syst														
		Total									2,0			50,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %				
28.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/				Nan			
		Lost 7 m3 reserve mud when centrifuging. Lost 7 m3 on active syst														
		Total														Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer			Serial no	Nozzles (n/32")			TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs				
13	8 1/2"	9	ATX536HA	M323	Unknown			1213238	6 x 15	0 x 0	0 x 0	0 x 0	1,035
Run No	Pump		WOB		RPM		Torque		Conn drag				
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN			
13	2 191	195,00	5	17	97	141							
Run No	IADC Dull Grading							Remarks					
	I	O	DC	L	B	G	OC	RP					
13	4	8	RO	T	X	I	WT	DTF	WORO WORN OUT				

7. Geology / Pressure Data

7.0 Geologists

Geologist day: P.Anderson/C.Dons

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
5 230,0	2 736,9	5 320,0	2 749,3	Cuttings	Sandstone and trace of Siltstone								
		Lithology		From %	To %	Properties							
		Sandstone				v lt gry - m dk gry, clr-trnsl, r rose Qtz, pred lse Sd g, I.P. mod hd - v calc cmttd, pre d vf-m, r crs, gen pr srttd loc wl srttd, sbang-sbrndd, loc fri -mod hd v wl calc cmttd, loc tr carb/Plt Rem/coaly Mat, tr Mic, r Pyr, no-pr vis Por when calc cmttd prob							
		Siltstone				olv blk - dk gry, hd, blky, non calc, vf sdy, tr Pyr							
5 320,0	2 749,3	5 365,0	2 755,9	Cuttings	Sandstone and minor Siltstone								
		Lithology		From %	To %	Properties							
		Siltstone				olv blk - brn gry, dk gry, frm - mod hd, blky-ptly, non calc, vf sdy, tr dism Pyr, dis m carb Mat							
		Sandstone				m gry-m dk gry, clr-trnsl Qtz, vf-f, r m, wl srttd, sbrndd, gen non-sl calc loc v calc, gen abd arg + slyt mtrx, loc grdg Slst or Clst, abd Plt Rem, dism carb, dsm Pyr, r Mic, NVP.lse Sd vf-crs, r v crs.							

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 28.07.2000 00:00 - 29.07.2000 00:00

7.2 Gas

Remarks
BG-CTOT-.2/.7 %.

Gas peaks					Chromatographic analysis (ppm)						
Peak Type	m MD	m TVD	Max %	Drilled gas %	C1	C2	C3	i-C4	n-C4	i-C5	n-C5
Formation gas	5 240,0	2 738,1	1,15		7 651	537	236	26	60		
Formation gas	5 365,0	2 755,9	1,04		6 726	498	223	24	58		

7.3 Shows

Top depth m MD	Bottom depth m MD	Type	Description
		Remarks	5078 sandstone tr inst wk pl yel/wh cut flor, no vis cut, wk pl yel flor Res, no vis Res 5078 sandstone tr inst wk pl yel/wh cut flor, no vis cut, wk pl yel flor Res, no vis Res

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
5 365,0	2 755,9	1,08		

7.6 Geology Remarks

Bit worn out - Must be changed

7.7 Preliminary Zonation

Code	Group / Formation	Planned		Actual		Difference
		Top m MD	Top m TVD	Top m MD	Top m TVD	Top m TVD
BRTA	Tarbert Fm			5 320,0	2 749,3	

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 27.07.2000 00:00 - 28.07.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 39	Days Since Spud 38	Days Ahead/Behind (+/-) Budget: -37,9 Perfect Well: -38,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 5 230,0 m	Depth TVD 2 736,9 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 5 230,0 m	TD of Well at 24:00 TVD 2 736,9 m	Drilled 00:00-24:00 MD 94,0 m
Company Supervisor Day K.D.Jarlsby	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson	
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night M.Tillung	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	04:00	4,00	3 485,0	DP	U DRILLING - Run in and POOH with BHA Ran in the hole with the 8 1/2" drilling assembly to 3485m.
04:00	05:00	1,00	3 485,0	DP	U DRILLING - DRILLING OTHER TIME, OK Changed the DDM washpipe. 270hrs.
05:00	05:30	0,50	3 485,0	DP	U DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Changed tiltplates on the BX drillpipe elevator.
05:30	06:00	0,50	5 107,0	DP	U DRILLING - Run in and POOH with BHA Continued to run in the hole to 5107m.
06:00	08:00	2,00	5 107,0	DP	U DRILLING - Run in and POOH with BHA Continued to run in the hole to 5107m.
08:00	08:30	0,50	5 136,0	DP	U DRILLING - Run in and POOH with BHA Washed down to bottom at 5136m.
08:30	00:00	15,50	5 230,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5136m to 5230m. 2230lpm - 240bar - 140rpm - 30/45KNm - 5/15wob

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation			
27.07.2000 04:00	05:00	U DRILLING - DRILLING OTHER TIME, OK Changed the DDM washpipe. 270hrs.			
Report status: Completed	Finish Date	Total Down Time 0,5 hrs	Service RIG	Failure Code E305 - Imported from Bore	
Synergi no	Description				
Hazard	Changed tiltplates on the BX drillpipe elevator.				
Company	Service	Description	Downtime %		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 27.07.2000 00:00 - 28.07.2000 00:00

Odfjell Drilling AS	RIG	Rig Operations	100
---------------------	-----	----------------	-----

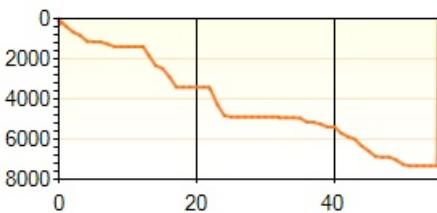
3.1 General Remarks

POB: NH-4,ODM-34,BJ-2,ADF-3,BHI-13

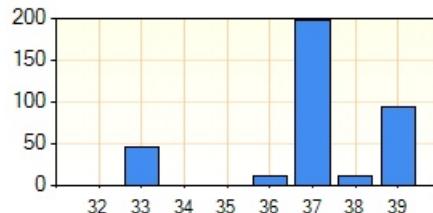
3.3 KPI

Drilling

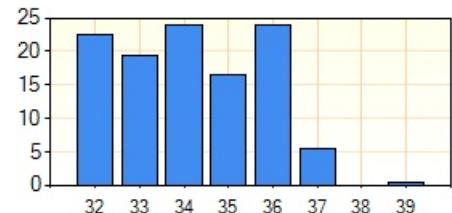
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
------------	--------------	-------------	-----------	---------	----------	----------------	--

00:00 - 24:00 - Drilling	23,50	0,50	0,00	24,00	0,00	97,9	94,0	94,0 m/day
Rushmore m/day (for project)	670,50	243,00	0,00	913,50	0,00	73,4	5 063,0	133,0 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/913,5	0,0/0,0	0,0/0,0	913,5	0,0/0,0	100,0	38,1

Section	00:00 - 24:00	Avg. section
---------	---------------	--------------

Fluid adherence	8 1/2"	0 m3/m3	0 m3/m3
-----------------	--------	---------	---------

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
5 183,0	84,80	230,20	2 731,9	-2 518,00	-3 038,90	2,31		HYDRO_MWD_SCC_SAG
5 212,0	83,80	231,30	2 734,7	-2 536,26	-3 061,24	1,53		HYDRO_MWD_SCC_SAG
5 240,0	82,20	232,50	2 738,1	-2 553,40	-3 083,11	2,14		HYDRO_MWD_SCC_SAG
5 269,0	81,20	232,40	2 742,3	-2 570,89	-3 105,86	1,04		HYDRO_MWD_SCC_SAG
5 297,0	82,90	233,00	2 746,2	-2 587,70	-3 127,92	1,93		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 27.07.2000 00:00 - 28.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	27.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	5 200,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,50
Excess Lime (kg/m3)	7,40
WPS as chlorides (mg/l)	178,00
Organic clay (kg/m3)	
Electrical stability (V)	1 050,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	63,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	37,0
Yield point (Pa)	13,5
Gel strength 10s/10m (Pa)	8,0 / 13,0
600 / 300 rpm (lbf/100ft2)	101,0 / 64,0
200 / 100 rpm (lbf/100ft2)	51,0 / 36,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	15,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,2
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 27.07.2000 00:00 - 28.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
27.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	311,0	3,0	316,0				2,0			10,0		19,0	
		Lost respectively 4 and 6 m3 active- and reserve mud when centri														
		Total								2,0			38,0			

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %				
27.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/			/	/	/			Nan				
		Lost respectively 4 and 6 m3 active- and reserve mud when centri														
		Total														Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer			Serial no	Nozzles (n/32")			TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs				
13	8 1/2"	9	ATX536HA	M323	Unknown			1213238	6 x 15	0 x 0	0 x 0	0 x 0	1,035
Run No	Pump		WOB		RPM		Torque		Conn drag				
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN			
13	2 228	199,00	2	16	51	139							
Run No	IADC Dull Grading							Remarks					
	I	O	DC	L	B	G	OC	RP	WORO WORN OUT				
13	4	8	RO	T	X	I	WT	DTF					

7. Geology / Pressure Data

7.0 Geologists

Geologist day: P.Anderson/M.Tillung

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
5 136,0	2 726,7	5 230,0	2 736,9	Cuttings	Sandstone and trace of Siltstone								
		Lithology		From %	To %	Properties							
		Sandstone				v lt grey - m dk grey,clr-trnsl Qtz, pred ls, I.P. mod hd - v calc cmtd, pred f-vf loc f-m , loc r crs, gen mod srtd loc wl srtd, sbrndd, loc fri -mod hd v wl calc cmtd, loc tr carb/Plt Rem/coaly Mat, tr dk mafic Min, no Mic, r Pyr, no-pr vis Por when calc							
		Siltstone				brn blk - brn gry, mod hd, blky, non calc, sl carb/Plt Rem							

7.2 Gas

Remarks
BG-CTOT-.05/.15 %.

Gas peaks					Chromatographic analysis (ppm)								
Peak Type		m MD	m TVD	Max %	Drilled gas %		C1	C2	C3	i-C4	n-C4	i-C5	n-C5
Trip gas		5 136,0	2 726,7	1,44			10 819	406	102	7	18		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 27.07.2000 00:00 - 28.07.2000 00:00

Gas peaks					Chromatographic analysis (ppm)						
Peak Type	m MD	m TVD	Max %	Drilled gas %	C1	C2	C3	i-C4	n-C4	i-C5	n-C5
Formation gas	5 147,0	2 727,9	0,79		4 839	300	117	13	27		
Formation gas	5 183,0	2 731,8	2,23		15 899	960	387	42	89		
Formation gas	5 213,0	2 734,9	1,38		9 467	605	247	27	58		

7.3 Shows

Top depth m MD	Bottom depth m MD	Type	Description
		Remarks	5078 sandstone tr inst wk pl yel/wh cut flor, no vis cut, wk pl yel flor Res, no vis Res 5078 sandstone tr inst wk pl yel/wh cut flor, no vis cut, wk pl yel flor Res, no vis Res

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
5 230,0	2 736,9	1,08		

7.6 Geology Remarks

Last Survey: 5240m / 2738.14 mTVD, 82,20 deg Incl, 232,50 deg Azim

7.7 Preliminary Zonation

Code	Group / Formation	Planned		Actual		Difference
		Top m MD	Top m TVD	Top m MD	Top m TVD	
BRTA	Tarbert Fm			5 060,0	2 717,0	
BRTA	Tarbert Fm			5 065,0	2 717,9	
BRTA	Tarbert Fm			5 298,0	2 746,3	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 26.07.2000 00:00 - 27.07.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 38	Days Since Spud 37	Days Ahead/Behind (+/-) Budget: -36,9 Perfect Well: -37,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 5 136,0 m	Depth TVD 2 726,7 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 5 136,0 m	TD of Well at 24:00 TVD 2 726,7 m	Drilled 00:00-24:00 MD 12,0 m
Company Supervisor Day K.D.Jarslby	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson	
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night M.Tillung	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	06:00	6,00	5 136,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5124m to 5136m. 2200lpm - 238bar - 80-140rpm - 28/40KNm - 10/15wob
06:00	12:00	6,00	5 136,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 5124m to 5136m. 2200lpm - 238bar - 80-140rpm - 28/40KNm - 10/15wob
12:00	18:00	6,00	145,0	DP	DRILLING - Run in and POOH with BHA Pulled out of the hole due to poor rate of penetration.
18:00	18:30	0,50	0,0	DP	DRILLING - SURVEY Recovered the radioactive source.
18:30	19:00	0,50	0,0	DP	DRILLING - Handling of BHA Pulled out of the hole.
19:00	21:30	2,50	0,0	DP	DRILLING - SURVEY Replaced the neutron sub, made up the sonic tool. Installed the radioactive source.
21:30	22:30	1,00	145,0	DP	DRILLING - Handling of BHA Made up new bit and ran in the hole with the bottom hole assembly.
22:30	23:30	1,00	1 040,0	DP	DRILLING - Run in and POOH with BHA Continued to run in the hole to 1040m.
23:30	00:00	0,50	1 040,0	DP	DRILLING - SURVEY Tested the Autotrak at 1040m.

3.1 General Remarks

POB: NH-5,ODM-33,BJ-3,ADF-3,BHI-12

3.3 KPI

Drilling

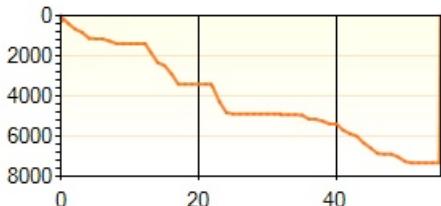
Daily Drilling Report

OSEBERG B

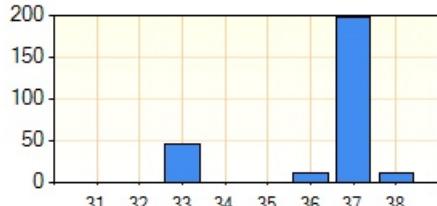
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 26.07.2000 00:00 - 27.07.2000 00:00

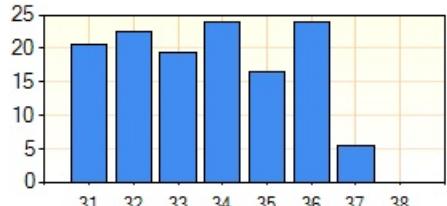
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	12,0	12,0 m/day
Rushmore m/day (for project)	647,00	242,50	0,00	889,50	0,00	72,7	4 969,0	134,1 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/889,5	0,0/0,0	0,0/0,0	889,5	0,0/0,0	100,0	37,1

Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"	0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
 Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
5 096,0	83,60	230,40	2 722,4	-2 462,26	-2 972,78	3,36		HYDRO_MWD_SCC_SAG
5 125,0	84,20	230,10	2 725,4	-2 480,70	-2 994,95	0,69		HYDRO_MWD_SCC_SAG
5 154,0	82,80	229,20	2 728,7	-2 499,35	-3 016,91	1,72		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 26.07.2000 00:00 - 27.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	26.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	5 136,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	14,00
Excess Lime (kg/m3)	7,40
WPS as chlorides (mg/l)	186,00
Organic clay (kg/m3)	
Electrical stability (V)	1 020,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	63,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	35,0
Yield point (Pa)	14,0
Gel strength 10s/10m (Pa)	8,0 / 13,5
600 / 300 rpm (lbf/100ft2)	98,0 / 63,0
200 / 100 rpm (lbf/100ft2)	49,0 / 34,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	16,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,2
Cake thickn HPHT (mm)	
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 26.07.2000 00:00 - 27.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
26.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	326,0	8,0	342,0								9,0		14,0
		Ran centrifuges on active system in Barite recovery mode to remove														
		Total												28,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %			
26.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/			/	/				Nan			
		Ran centrifuges on active system in Barite recovery mode to remove													
		Total													Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer			Serial no		Nozzles (n/32")			TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs	no x n	no x n	no x n	no x n	
13	8 1/2"	9	ATX536HA	M323	Unknown			1213238		6 x 15	0 x 0	0 x 0	0 x 0	1,035
Run No	Pump			WOB		RPM		Torque		Conn drag				
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN				
13	0	0,00	0	0	0	0								
Run No	IADC Dull Grading							Remarks						
	I	O	DC	L	B	G	OC	RP	WORO WORN OUT					
13	4	8	RO	T	X	I	WT	DTF						

7. Geology / Pressure Data

7.0 Geologists

Geologist day: P.Anderson/M.Tillung

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology													
m MD	m TVD	m MD	m TVD		From %	To %	Properties											
5 130,0	2 726,0	5 136,0	2 726,7	Cuttings	Sandstone													
		Lithology					Properties											
		Sandstone					wh - v lt gry - m lt gry, Qtz, clr - trnsl, vf - m r crs, mod srt, sbang - occ sbrndd, shpe r - r sbelong, com calc cmt, abd ls Qtz gr, Min flor											
		Siltstone					olv blk - brn gry - dk gry, frm, sbplty, non calc, carb											
		Sandstone					olv gry - dk gry, Qtz, vf, sbang - sbrndd, wl srt, abd sity Mtrx, com disse carb, tr Pyr, fri, pr vis Por											

7.2 Gas

Remarks
BG-CTOT-0/05 %.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 26.07.2000 00:00 - 27.07.2000 00:00

7.3 Shows

Top depth m MD	Bottom depth m MD	Type	Description
		Remarks	5067 sandstone scat wk dull yel/brn dir flor, inst wk pl yel/wh cut flor, no vis cut, wk pl yel flor Res, no vis Res 5067 sandstone scat wk dull yel/brn dir flor, inst wk pl yel/wh cut flor, no vis cut, wk pl yel flor Res, no vis Res

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
5 136,0	2 726,7	1,08		

7.6 Geology Remarks

Replaced malfunctioning neutron sub.

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 25.07.2000 00:00 - 26.07.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 37	Days Since Spud 36	Days Ahead/Behind (+/-) Budget: -35,9 Perfect Well: -36,1 WOW: 0,0		
	Mud weight g/cm3		BOP Pressure Rating 345,00 bar		
	Pore pressure Max 1,08 g/cm3		Depth MD 5 124,0 m		
	FIT 1,66 g/cm3		Depth TVD 2 725,3 m		
	Casing Size 9 5/8"		Depth MD 3 399,0 m		
	TD of Well at 24:00 MD 5 124,0 m		Depth TVD 2 105,8 m		
	TD of Well at 24:00 TVD 2 725,3 m		Drilled 00:00-24:00 MD 197,0 m		
Company Supervisor Day R. Langseth	Company Engineer Day Ig:R.Johnson		Geologist Day P.Anderson		
Company Supervisor Night R.Larsson	Company Engineer Night		Geologist Night M.Tillung		
Operator Norsk Hydro			Contractor ODB		

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	03:00	3,00	4 878,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Picked up remaining 6 5/8" drillpipe and ran in the hole to 4878m.
03:00	05:30	2,50	4 927,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole and relogged the hole from 9 5/8" shoe to bottom at 4927m.
05:30	06:00	0,50	5 124,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 4927m to 5124m. 2300lpm - 260bar - 140rpm - 34/38KNm - 8/10ton wob
06:00	00:00	18,00	5 124,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 4927m to 5124m. 2300lpm - 260bar - 140rpm - 34/38KNm - 8/10ton wob

3.1 General Remarks

POB: NH-5,ODM-33,BJ-3,ADF-3,BHI-12

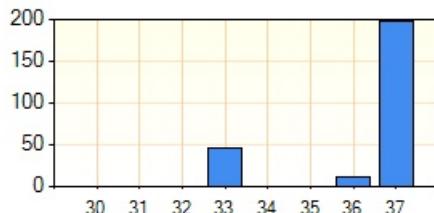
3.3 KPI

Drilling

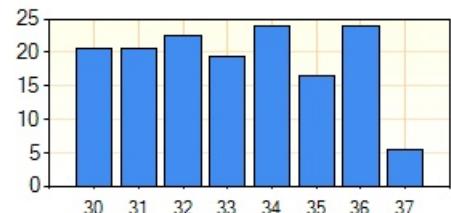
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
18,50	5,50	0,00	24,00	0,00	77,1	197,0	197,0 m/day
623,00	242,50	0,00	865,50	0,00	72,0	4 957,0	137,5 m/day

Drilling contractors downtime

Printed: 24.10.2018 14:15

Page 1 of 3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 25.07.2000 00:00 - 26.07.2000 00:00

OSEBERG B	: 0,0 hrs (00:00 - 24:00)	0,0 hrs (accumulated independent of well this month)
-----------	---------------------------	--

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling		Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Company	Operator		24,0/865,5	0,0/0,0	0,0/0,0	865,5	0,0/0,0	100,0	36,1

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
5 068,0	80,50	230,90	2 718,5	-2 444,68	-2 951,34	2,68		HYDRO_MWD_SCC_SAG

7. Geology / Pressure Data

7.0 Geologists

Geologist day: P.Anderson/M.Tillung

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology				
m MD	m TVD	m MD	m TVD		Properties	Properties	Properties	Properties	Properties
4 927,0	2 683,3	4 955,0	2 691,9	Cuttings	Siltstone and minor sandstone				
		Lithology	From %	To %	Properties				
		Limestone			tr, wh - v lt gry, frm, blky, arg, com vf sdy, microxln				
		Siltstone			m lt gry - dk gry, olv gry - olv blk, frm blky - sbpity, ab vf sd grad slty Sst, non cal c, com dissem carb Mat, loc abd dissem pyr/Pyr Nod				
		Sandstone			olv gry - olv blk, Qtz, clr, vf - f, occ m, wl srt, sbang - sbrndd, abd slty Mtrx grad s dy Sltst, frm, sbblk, com dissem carb Mat, occ Pyr, no vis por				
4 955,0	2 691,9	5 025,0	2 709,9	Cuttings	Silty sandstone and siltstone				
		Lithology	From %	To %	Properties				
		Sandstone			olv blk - olv gry, occ m gry, frm - lse, Qtz, vf r vf - m, sbang - sbrndd, wl srt, abd s lty Mtrx, pred non calc, loc calc cmt, abd dissem carb Mat, no vis por				
		Siltstone			olv blk - olv gry, frm, blky occ sbpity, abd vf sd grad slty Sst				
		Claystone			tr, gry brn, frm, blky, non calc, occ carb lam				
5 025,0	2 709,9	5 130,0	2 726,0	Cuttings	Sandstone				
		Lithology	From %	To %	Properties				
		Coal			r tr, brnsh blk, frm, blky, brit, arg grad carb Clst				
		Siltstone			tr, olv gry - olv blk, frm, sbblk, micropyr, dissem carb Mat, vf sdy grad slty Sst				
		Claystone			r tr, grysh brn - dk yelsh brn, frm, blky, non calc, slty				
		Sandstone			dk gry - m dk gry, olv gry, fri - lse, Qtz, clr - mky wh, r lt brn - pk, vf - crs, r v crs, pre d vf - f, gen w srt, loc mod srt, sbang - sbrndd, gen lse, loc v slty grad sdy Sltst, co m non calc, loc calc cmt, tr carb Mat, occ dissem pyr, tr Pyr Nod, Mic,				

7.2 Gas

Remarks
BG-CTOT-.05/6 %.

Gas peaks					Chromatographic analysis (ppm)						
Peak Type	m MD	m TVD	Max %	Drilled gas %	C1	C2	C3	i-C4	n-C4	i-C5	n-C5
Formation gas	5 090,0	2 721,5	0,60		4 014	326	120	11	30		
Formation gas	5 102,0	2 723,0	0,76		4 662	432	134	13	34		

7.3 Shows

Top depth m MD	Bottom depth m MD	Type	Description
		Remarks	4897 sandstone scat wk - dul pl yel dir flor, inst - fst strmg pl yel/wh cut flor, no vis cut, pl yel flo r res, no vis res 4897 sandstone scat wk - dul pl yel dir flor, inst - fst strmg pl yel/wh cut flor, no vi s cut, pl yel flor res, no vis res

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 25.07.2000 00:00 - 26.07.2000 00:00

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
5 124,0	2 725,3	1,08		

7.7 Preliminary Zonation

Code	Group / Formation	Planned		Actual		Difference
		Top m MD	Top m TVD	Top m MD	Top m TVD	
BRTA	Tarbert Fm			4 956,0	2 692,1	
BRTA	Tarbert Fm			5 010,0	2 706,5	

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 24.07.2000 00:00 - 25.07.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 36	Days Since Spud 35	Days Ahead/Behind (+/-) Budget: -34,9 Perfect Well: -35,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 4 927,0 m	Depth TVD 2 683,3 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 4 927,0 m	TD of Well at 24:00 TVD 2 683,3 m	Drilled 00:00-24:00 MD 11,0 m
Company Supervisor Day R. Langseth	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson	
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night M.Tillung	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	02:00	2,00	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole and laid down the Autotrac and the sonic tool.
02:00	06:00	4,00	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Picked up 132 joints 6 5/8" drillpipe and ran in the hole. Error in depths will be corrected when back on TD and calculations are confirmed.
06:00	09:00	3,00	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Picked up 132 joints 6 5/8" drillpipe and ran in the hole. Error in depths will be corrected when back on TD and calculations are confirmed.
09:00	12:00	3,00	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole, racked 44 stands 6 5/8" drillpipe and laid down 21 joints. 21 joints cmt.contaminated pipe laid down.
12:00	14:00	2,00	145,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Made up new Autotrac, trippelcombo and sonic tool.
14:00	16:00	2,00	1 000,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole to 1000m.
16:00	16:30	0,50	1 000,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Tested the Autotrac/trippel combo at 1000m.
16:30	18:00	1,50	2 000,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued to run in the hole to 2000m. Broke circ. at 2000m.
18:00	18:30	0,50	2 000,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Repaired the stop cylinder on the iron roughneck.
18:30	23:00	4,50	4 037,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued in the hole to 4037m.
23:00	00:00	1,00	4 230,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Picked up the remaining 6 5/8" drillpipe and ran in the hole to 4230m.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 24.07.2000 00:00 - 25.07.2000 00:00

3.0.1 Incidents

Start Date/Time		End Date/Time		Activity Code / Aborted Operation			
24.07.2000 16:30	18:00	D	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued to run in the hole to 2000m. Broke circ. at 2000m.				
Report status: Completed		Finish Date		Total Down Time 0,5 hrs	Service RIG	Failure Code E342 - Imported from Bore	
Synergi no	Description						
Hazard	Repaired the stop cylinder on the iron roughneck.						
Company		Service	Description		Downtime %		
Odfjell Drilling AS		RIG	Rig Operations		100		

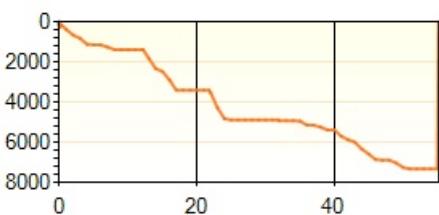
3.1 General Remarks

POB: NH-5,ODM-34,BJ-3,ADF-3,BHI-12

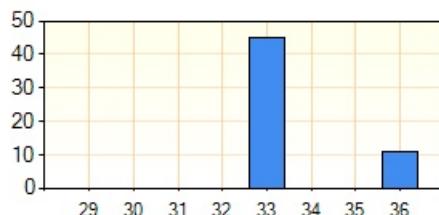
3.3 KPI

Drilling

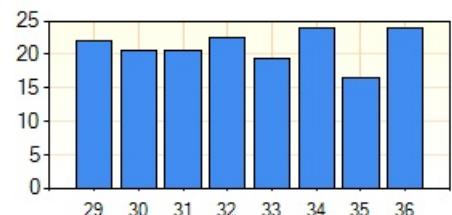
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
0,00	24,00	0,00	24,00	0,00	0,0	11,0	11,0 m/day
604,50	237,00	0,00	841,50	0,00	71,8	4 760,0	135,8 m/day

Drilling contractors downtime
OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/841,5	0,0/0,0	0,0/0,0	841,5	0,0/0,0	100,0	35,1
	Section	00:00 - 24:00	Avg. section					
Fluid adherence	8 1/2"		0 m3/m3		0 m3/m3			

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
4 895,0	74,70	230,40	2 673,8	-2 339,79	-2 821,45	0,18		HYDRO_MWD_SCC_SAG
4 924,0	71,10	230,50	2 682,4	-2 357,43	-2 842,82	3,73		HYDRO_MWD_SCC_SAG
4 953,0	73,00	230,50	2 691,3	-2 374,98	-2 864,11	1,97		HYDRO_MWD_SCC_SAG
4 982,0	74,90	231,20	2 699,3	-2 392,57	-2 885,72	2,09		HYDRO_MWD_SCC_SAG
5 010,0	75,50	231,70	2 706,5	-2 409,44	-2 906,89	0,83		HYDRO_MWD_SCC_SAG
5 039,0	78,10	231,90	2 713,1	-2 426,90	-2 929,08	2,70		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 24.07.2000 00:00 - 25.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	24.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 925,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,50
Excess Lime (kg/m3)	8,14
WPS as chlorides (mg/l)	179,00
Organic clay (kg/m3)	
Electrical stability (V)	880,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	63,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	34,0
Yield point (Pa)	13,5
Gel strength 10s/10m (Pa)	8,0 / 12,0
600 / 300 rpm (lbf/100ft2)	95,0 / 61,0
200 / 100 rpm (lbf/100ft2)	48,0 / 34,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	14,0 / 13,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,6
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 24.07.2000 00:00 - 25.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
24.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	305,0	3,0	379,0										0,0
		Finer screens will be put on when mud is warmed up.														
		Total													19,0	

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
24.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/			/	/				Nan
		Finer screens will be put on when mud is warmed up.										
		Total										

7. Geology / Pressure Data

7.3 Shows

Top depth m MD	Bottom depth m MD	Type	Description
		Remarks	4897 sandstone scat wk - dul pl yel dir flor, inst - fst strmg pl yel/wh cut flor, no vis cut, pl yel flor res, no vis res 4897 sandstone scat wk - dul pl yel dir flor, inst - fst strmg pl yel/wh cut flor, no vis cut, pl yel flor res, no vis res

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 927,0	2 683,3	1,08		

7.6 Geology Remarks

After strapping 5 1/2" drill pipe it was found to be 11m short. TD depth was adjusted from 4916m to 4925m. After tagging bottom TD was again adjusted to 4927m. Drilling commenced from 4927m. The 9 5/8" shoe depth was encountered at 4883m MD

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 23.07.2000 00:00 - 24.07.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 35	Days Since Spud 34	Days Ahead/Behind (+/-) Budget: -33,9 Perfect Well: -34,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 4 916,0 m	Depth TVD 2 680,0 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 4 916,0 m	TD of Well at 24:00 TVD 2 680,0 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day R. Langseth	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson	
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night M.Tillung	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	06:00	6,00	4 194,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Performed general rig maintenance while wait on new drillingline.
06:00	07:00	1,00	4 194,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Performed general rig maintenance while wait on new drillingline.
07:00	08:30	1,50	4 194,0	DP	DRILLING - DRILLING OTHER TIME, OK Landed new drillline drum in cradle. Connected new and used drilling line.
08:30	09:30	1,00	4 194,0	DP	DRILLING - DRILLING OTHER TIME, OK Held pre job meeting prior to string up new drilling line.
09:30	14:30	5,00	4 194,0	DP	DRILLING - DRILLING OTHER TIME, OK String up the new drilling line.
14:30	16:30	2,00	4 194,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Circulated the bottom up. Tested all limit switches for pipe handling and crownsaver. 1800lpm - 190bar - 30rpm - 20KNm
16:30	00:00	7,50	139,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole to change the bottom hole assembly.

3.1 General Remarks

POB: NH-5,ODM-32,BJ-3,ADF-3,BHI-11

3.3 KPI

Drilling

Daily Drilling Report

OSEBERG B

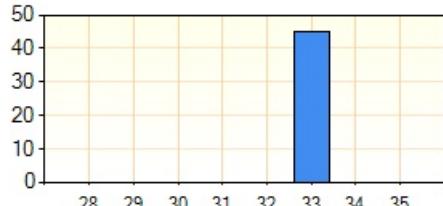
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 23.07.2000 00:00 - 24.07.2000 00:00

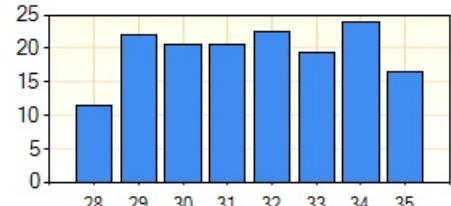
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	7,50	16,50	0,00	24,00	0,00	31,3	0,0	0,0 m/day
Rushmore m/day (for project)	604,50	213,00	0,00	817,50	0,00	73,9	4 749,0	139,4 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/817,5	0,0/0,0	0,0/0,0	817,5	0,0/0,0	100,0	34,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"		0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 23.07.2000 00:00 - 24.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	23.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 916,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	10,50
Excess Lime (kg/m3)	8,14
WPS as chlorides (mg/l)	183,00
Organic clay (kg/m3)	
Electrical stability (V)	700,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	63,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	33,0
Yield point (Pa)	10,5
Gel strength 10s/10m (Pa)	7,0 / 10,5
600 / 300 rpm (lbf/100ft2)	87,0 / 54,0
200 / 100 rpm (lbf/100ft2)	41,0 / 29,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	12,0 / 11,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,6
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 23.07.2000 00:00 - 24.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
23.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	323,0		419,0	2,0							4,0		6,0
		Centrifuged more old reserve mud to be used in premix when start														
		Total													19,0	

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %				
23.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/							
		Centrifuged more old reserve mud to be used in premix when start														
		Total													NaN	

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer			Serial no	Nozzles (n/32")			TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs				
11	8 1/2"	7RR	DS165DGNSU		Unknown			23592	4 x 20	0 x 0	0 x 0	0 x 0	1,227
Run No	Pump		WOB		RPM		Torque		Conn drag				
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN			
11	4 874,0	4 927,0	53,0				0	0,0					
Run No	IADC Dull Grading							Remarks					
	I	O	DC	L	B	G	OC	RP	WORO WORN OUT				
11	0	2	LT	N	X	I	RG	BHA					

7. Geology / Pressure Data

7.0 Geologists

Geologist day: P.Anderson/M.Tillung

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
4 891,0	2 672,8	4 916,0	2 680,0	Cuttings	Sandstone and siltstone, trace coal								
		Lithology		From %	To %	Properties							
		Sandstone				pred lse clr Qtz, v f - m, sbang- sbrnd, I.P. olv gry, Qtz, v f, wl srt, frm - fri, com sl ty Mtrx grdg Sltst, com disse carb							
		Siltstone				brn blk - olv blk, frm, plty, sdy, carb, brit							
		Coal				tr, blk, brit, gen vit, r dull, fri							
		Limestone				tr, v lt gry, frm, blky, arg lam, microxln							

7.2 Gas

Remarks
BG-CTOT-0/3 %.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 23.07.2000 00:00 - 24.07.2000 00:00

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 916,0	2 680,0	1,08		

7.6 Geology Remarks

Samples 4891 - 4916m circulated out after POOH to 4194 m, and subsequent 24 hrs downtime.

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 22.07.2000 00:00 - 23.07.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 34	Days Since Spud 33	Days Ahead/Behind (+/-) Budget: -32,9 Perfect Well: -33,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 4 916,0 m	Depth TVD 2 680,0 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 4 916,0 m	TD of Well at 24:00 TVD 2 680,0 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day R. Langseth	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson	
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night M.Tillung	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
00:00	01:30	1,50	4 194,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole to change the bottom hole assembly to 4194m.
01:30	06:00	4,50	4 194,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Travelling block collided with upper racking arm and damaged the drilling line. Secured the travelling block and installed kellycock on the drillpipe. Prepared the drilling line for hangoff. Hung off trav.block.
06:00	00:00	18,00	4 194,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Prepared for replacement of drilling line. Performed repairs and general maintenance while wait on drilling line. Removed secondary claw plate from URA.(Outstanding from previous serious near miss). Dismantled damaged guideplate on Trav.block for repair. Flushed DDM gearbox. Changed brushes on drawwork motor. Changed wireblock on IRA.

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation			
22.07.2000 00:00	01:30	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole to change the bottom hole assembly to 4194m.			
Report status: Completed	Finish Date	Total Down Time 31,5 hrs	Service RIG	Failure Code E303 - Imported from Bore	
Synergi no	Description				
Hazard	Collision between the travelling block and upper racking arm resulted in damage to the drilling line.				
Company	Service	Description	Downtime %		
Odfjell Drilling AS	RIG	Rig Operations	100		

3.1 General Remarks

POB: NH-5,ODM-34,BJ-3,ADF-3,BHI-11

3.3 KPI

Drilling

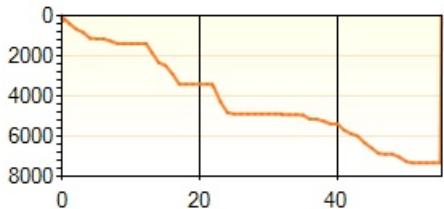
Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 22.07.2000 00:00 - 23.07.2000 00:00

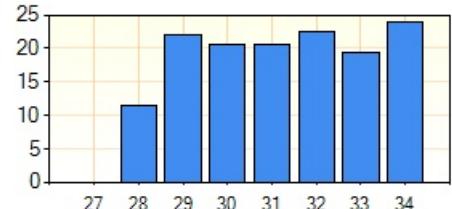
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	0,00	24,00	0,00	24,00	0,00	0,0	0,0	0,0 m/day
Rushmore m/day (for project)	597,00	196,50	0,00	793,50	0,00	75,2	4 749,0	143,6 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/793,5	0,0/0,0	0,0/0,0	793,5	0,0/0,0	100,0	33,1

Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"	0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 22.07.2000 00:00 - 23.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	22.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 916,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	11,50
Excess Lime (kg/m3)	8,14
WPS as chlorides (mg/l)	179,00
Organic clay (kg/m3)	
Electrical stability (V)	830,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	63,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	35,0
Yield point (Pa)	11,5
Gel strength 10s/10m (Pa)	7,0 / 10,5
600 / 300 rpm (lbf/100ft2)	93,0 / 58,0
200 / 100 rpm (lbf/100ft2)	45,0 / 30,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	12,0 / 11,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,7
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 22.07.2000 00:00 - 23.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
22.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	304,0	14,0	379,0								11,0		11,0
Continued to centrifuge old 1.52 sg mud from hole to be used as p																
		Total												15,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
22.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/				Nan
Continued to centrifuge old 1.52 sg mud from hole to be used as p													
		Total											Nan

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 916,0	2 680,0	1,08		

7.7 Preliminary Zonation

Code	Group / Formation	Planned		Actual		Difference
		Top m MD	Top m TVD	Top m MD	Top m TVD	
BRNE	Ness Fm			4 600,0	2 571,0	

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 21.07.2000 00:00 - 22.07.2000 00:00

Project No	Section 8 1/2"	Start Time 21.07.2000 19:00	Start Depth MD 4 871,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 33	Days Since Spud 32	Days Ahead/Behind (+/-) Budget: -31,9 Perfect Well: -32,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 345,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 4 916,0 m	Depth TVD 2 680,0 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 4 916,0 m	TD of Well at 24:00 TVD 2 680,0 m	Drilled 00:00-24:00 MD 45,0 m
Company Supervisor Day R. Langseth	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson	
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night M.Tillung	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
12 1/4" - Drilling - 11.07.2000 18:30 - 21.07.2000 19:00					
00:00	06:00	6,00	2 310,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole and laid down total of 195 joints 6 5/8" drillpipe and 15 joints 6 5/8" heavyweight drillpipe. Perform spotchecks for cement during operation.
06:00	12:00	6,00	2 310,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole and laid down total of 195 joints 6 5/8" drillpipe and 15 joints 6 5/8" heavyweight drillpipe. Perform spotchecks for cement during operation.
12:00	17:30	5,50	4 800,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole with 5 1/2" drillpipe and 6 5/8" drillpipe to 4800m.
17:30	18:30	1,00	4 866,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Washed down and tagged cement at 4866m.
18:30	19:00	0,50	4 874,0	DP	CASING - DRILL FLOAT/CEMENT Drilled hard cement from 4866m to 4874m. Displaced the mud to 1,35sg mud while drilling cement. Displaced to 1,35sg.
8 1/2" - Drilling - 21.07.2000 19:00 - 14.08.2000 04:00					
19:00	23:00	4,00	4 916,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 4874m to 4916m.
23:00	00:00	1,00	4 916,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Circulated the hole clean prior to pull out of the hole to change the bottom hole assembly.

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation			
21.07.2000 19:00	23:00	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 8 1/2" hole from 4874m to 4916m.			
Report status: Completed	Finish Date	Total Down Time 26,0 hrs	Service RIG	Failure Code E357 - Imported from Bore	
Synergi no	Description				

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 21.07.2000 00:00 - 22.07.2000 00:00

Hazard	Circulated the hole clean prior to pull out of the hole to change the bottom hole assembly.		
Company	Service	Description	Downtime %
Baker Hughes Inteq	RIG	Rig Operations	100

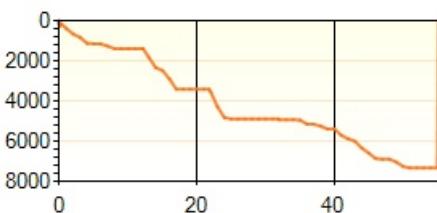
3.1 General Remarks

POB: NH-5,ODM-34,BJ-3,ADF-3,BHI-11

3.3 KPI

Drilling

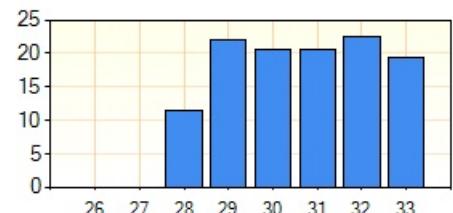
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	4,50	19,50	0,00	24,00	0,00	18,8	45,0	45,0 m/day
Rushmore m/day (for project)	597,00	172,50	0,00	769,50	0,00	77,6	4 749,0	148,1 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/769,5	0,0/0,0	0,0/0,0	769,5	0,0/0,0	100,0	32,1
Fluid adherence	Section	00:00 - 24:00			Avg. section			
Fluid adherence	8 1/2"	0 m3/m3			0 m3/m3			

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 21.07.2000 00:00 - 22.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	21.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 885,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	11,00
Excess Lime (kg/m3)	7,40
WPS as chlorides (mg/l)	182,00
Organic clay (kg/m3)	
Electrical stability (V)	780,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	62,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	31,0
Yield point (Pa)	11,0
Gel strength 10s/10m (Pa)	6,5 / 10,0
600 / 300 rpm (lbf/100ft2)	84,0 / 53,0
200 / 100 rpm (lbf/100ft2)	40,0 / 27,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	12,0 / 11,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,1
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 21.07.2000 00:00 - 22.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
21.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	300,0	3,0	371,0	1,0							4,0		7,0
		Started to centrifuge old 1.52 sg mud from hole to be used					as pre									
		Total												4,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
21.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/			/	/				NaN
		Started to centrifuge old 1.52 sg mud from hole to be used			as pre							
		Total										NaN

7. Geology / Pressure Data

7.0 Geologists

Geologist day: P.Anderson/M.Tillung

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology					Properties	
m MD	m TVD	m MD	m TVD		Cuttings	Sandstone and siltstone					
4 874,0	2 668,3	4 891,0	2 672,8	Cuttings		Sandstone and siltstone					
		Lithology		From %	To %	Properties					
		Siltstone				m gry, olv gry, brnsh blk, frm, sbblky, sl calc, loc abd micropyr, I.P. grdg sly Clst					
		Sandstone				clr - trnsl Qtz, v f - m, pred vf - f, w srt, sbang - rnnd, lse, occ sly - arg Mtrx					

7.2 Gas

Remarks
BG-CTOT-0/.13 %.

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 916,0	2 680,0	1,08		

7.6 Geology Remarks

Samples from 4891m to 4916m not circulated out.

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 20.07.2000 00:00 - 21.07.2000 00:00

Project No	Section 12 1/4"	Start Time 11.07.2000 18:30	Start Depth MD 3 399,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 32	Days Since Spud 31	Days Ahead/Behind (+/-) Budget: -30,9 Perfect Well: -31,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 4 871,0 m	Depth TVD 2 667,5 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 4 871,0 m	TD of Well at 24:00 TVD 2 667,5 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day R. Langseth	Company Engineer Day Ig:R.Johnson	Geologist Day P.Anderson	
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night M.Tillung	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
12 1/4" - Drilling - 11.07.2000 18:30 - 21.07.2000 19:00					
00:00	02:30	2,50	115,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Locking device for secondary claw plate on the upper rackingarm broke off and fell down to the rigfloor. Investigated,reported and secured the plate.
02:30	04:00	1,50	1 042,0	DP	DRILLING - Run in and POOH with BHA Continued to run in the hole to 1042m.
04:00	06:00	2,00	1 042,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Attempted to test the Autotrak. Autotrak not pulsing.
06:00	08:00	2,00	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole due to Autotrak failure.
08:00	09:30	1,50	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Removed radioactive source and laid down the Autotrak.
09:30	12:30	3,00	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Attempted to communicate with the Trippel combo.Laid down Tripple combo,reset the sonic tool and made up to backup Autotrak. Broke of the saver sub on the sonic tool and found pieces of wood and cement stuck inside.
12:30	13:30	1,00	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Flushed the sonic tool.
13:30	15:00	1,50	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Made up the bottom hole assembly without the Trippel combo.
15:00	16:00	1,00	1 000,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole to 1000m.
16:00	16:30	0,50	1 000,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Tested the Autotrak at 1000m.
16:30	21:00	4,50	2 512,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued to run in the hole with 8 1/2" drilling assembly on 5" and 5 1/2" drillpipe to 2512m. Check drillpipe for cement.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 20.07.2000 00:00 - 21.07.2000 00:00

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description	
21:00	22:30	1,50	2 512,0	DP	D	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Checked the 6 5/8" drillpipe for cement. Found cement in several 6 5/8" drillpipe.
22:30	00:00	1,50	2 512,0	DP	D	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Decided to lay down 6 5/8" drillpipe. Ran in the hole with 6 5/8" drillpipe and laid down on deck. Installed closed kelly cock below 6 5/8" dp prior to RIH.

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation		
20.07.2000 02:30	04:00	U	DRILLING - Run in and POOH with BHA Continued to run in the hole to 1042m.	
Report status: Completed	Finish Date	Total Down Time 2,0 hrs	Service RIG	Failure Code E357 - Imported from Bore
Synergi no	Description			
Hazard	Attempted to test the Autotrak.			
Company	Service	Description	Downtime %	
Baker Hughes Inteq	RIG	Rig Operations	100	
Start Date/Time	End Date/Time	Activity Code / Aborted Operation		
20.07.2000 04:00	06:00	D	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Attempted to test the Autotrak. Autotrak not pulsing.	
Report status: Completed	Finish Date	Total Down Time 49,5 hrs	Service RIG	Failure Code E357 - Imported from Bore
Synergi no	Description			
Hazard	Pulled out of the hole due to Autotrak failure caused by cement and junk in pipe.			
Company	Service	Description	Downtime %	
Norsk Hydro	RIG	Rig Operations	100	

3.1 General Remarks

POB: NH-5,ODM-36,BJ-3,ADF-3,BHI-11, BOT-1

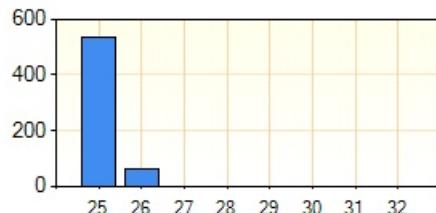
3.3 KPI

Drilling

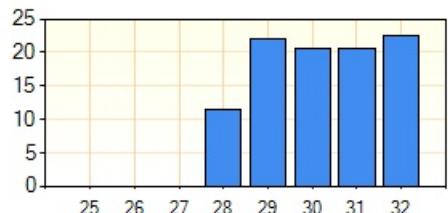
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	1,50	22,50	0,00	24,00	0,00	6,3	0,0	0,0 m/day
Rushmore m/day (for project)	592,50	153,00	0,00	745,50	0,00	79,5	4 704,0	151,4 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/745,5	0,0/0,0	0,0/0,0	745,5	0,0/0,0	100,0	31,1

Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 20.07.2000 00:00 - 21.07.2000 00:00

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
4 829,0	75,00	230,30	2 656,6	-2 299,08	-2 772,46	1,19		HYDRO_MWD _SCC_SAG
4 858,0	74,80	230,20	2 664,1	-2 316,98	-2 793,98	0,23		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 20.07.2000 00:00 - 21.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	20.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 884,5
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	10,50
Excess Lime (kg/m3)	6,29
WPS as chlorides (mg/l)	172,00
Organic clay (kg/m3)	
Electrical stability (V)	720,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	63,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	29,0
Yield point (Pa)	10,5
Gel strength 10s/10m (Pa)	6,5 / 11,0
600 / 300 rpm (lbf/100ft2)	79,0 / 50,0
200 / 100 rpm (lbf/100ft2)	38,0 / 26,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	11,0 / 10,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,3
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 20.07.2000 00:00 - 21.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
20.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	311,0	2,0	385,0	4,0									0,0
Lost 4 m3 mud on surface when running in and out of hole.																

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
20.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/			/	/				NaN
Lost 4 m3 mud on surface when running in and out of hole.												

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 871,0	2 667,5	1,08		

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 19.07.2000 00:00 - 20.07.2000 00:00

Project No	Section 12 1/4"	Start Time 11.07.2000 18:30	Start Depth MD 3 399,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 31	Days Since Spud 30	Days Ahead/Behind (+/-) Budget: -29,9 Perfect Well: -30,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 4 871,0 m	Depth TVD 2 667,5 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 4 871,0 m	TD of Well at 24:00 TVD 2 667,5 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day R. Langseth	Company Engineer Day Ig: R.Johnson	Geologist Day P.Anderson	
Company Supervisor Night R.Larsson	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
12 1/4" - Drilling - 11.07.2000 18:30 - 21.07.2000 19:00					
00:00	01:30	1,50	4 736,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Tagged top of the liner and pulled back 5 m. Established circulation through liner and up annulus with 200 lpm. Circulation prior to enter the liner with swab cup lpm/bar: 200/15, 300/18, 600/31, 1000/52. Enter swab cup in liner with 200 lpm, pres.increase. Tagged liner at 3295 m, 5 ton. Pulled up 5 m. Circulation through annulus 200 lpm/25 bar.
01:30	02:00	0,50	4 736,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Installed cement head and cement hoses.
02:00	04:30	2,50	4 736,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Established circulation through the open hole annulus. 800 lpm/55 bar. Max 850 lpm. Pump pressure increased from 59 to 61 bar with slight drop in return. Reduced pumprate to 800 lpm.
04:30	06:00	1,50	4 736,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pumped 5 m3 LTO, 15 m3 soapwash and 31 m3 1,9sg cementslurry. Displaced the cement with rigpumps. Max pumping rate 600 lpm.
06:00	08:00	2,00	4 736,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pumped 5 m3 LTO, 15 m3 soapwash and 31 m3 1,9sg cementslurry. Displaced the cement with rigpumps. Max pumping rate 600 lpm.
08:00	08:30	0,50	4 736,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Sat the liner packer with 60ton downweight.
08:30	11:00	2,50	4 711,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole 25m and circulated bottoms up. Traces of spacer and cement in return.
11:00	11:30	0,50	4 711,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pressure tested the liner packer to 140bar. Swab cup assy. leak at 140bar.Pumped 2m3.
11:30	16:00	4,50	1 539,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole to 1539m.
16:00	17:30	1,50	1 539,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Laid down the swabcup assembly, topdress mill and casing scraper.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 19.07.2000 00:00 - 20.07.2000 00:00

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description		
17:30	20:30	3,00	0,0	DP	D	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued to pull out of the hole and laid down the cement stinger.	
20:30	23:00	2,50	0,0	DP	U	DRILLING - SURVEY Made up the bit, Autotrac, LWD tool and sonic tool. Installed radioactive source.	
23:00	00:00	1,00	115,0	DP	U	DRILLING - Handling of BHA Continued making up the bottom hole assembly and ran in the hole.	

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation		
19.07.2000 23:00	00:00	U	DRILLING - Handling of BHA Continued making up the bottom hole assembly and ran in the hole.	
Report status: Completed	Finish Date	Total Down Time 2,5 hrs	Service RIG	Failure Code E341 - Imported from Bore
Equipment Type URA	Trade Name URA	Manufacturer Maritime Hydraulics	Serial no	Equipment Part URA
Synergi no	Description			
Hazard	Locking device for tooljointplate on upper rackingarm broke off and fell down to the rigfloor. Report, investigate and secure plate.			
Company	Service	Description	Downtime %	
Odfjell Drilling AS	RIG	Rig Operations	100	

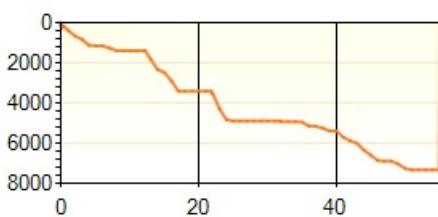
3.1 General Remarks

POB: NH-4,ODM-36,BJ-3,ADF-3,BHI-11, BOT-2

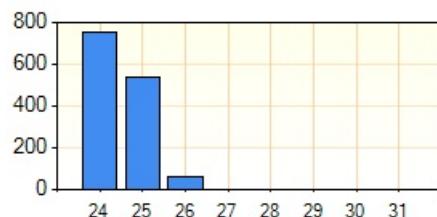
3.3 KPI

Drilling

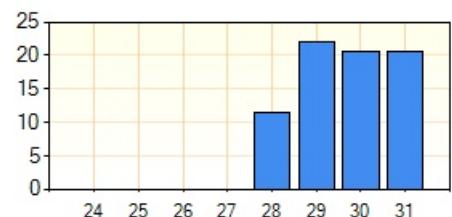
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	3,50	20,50	0,00	24,00	0,00	14,6	0,0	0,0 m/day
Rushmore m/day (for project)	591,00	130,50	0,00	721,50	0,00	81,9	4 704,0	156,5 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/721,5	0,0/0,0	0,0/0,0	721,5	0,0/0,0	100,0	30,1

Section	00:00 - 24:00	Avg. section
Fluid adherence	8 1/2"	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 19.07.2000 00:00 - 20.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	19.07.2000 23:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 884,0
Mud weight in/out (g/cm3)	0,00 / 1,35
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	11,00
Excess Lime (kg/m3)	5,92
WPS as chlorides (mg/l)	184,00
Organic clay (kg/m3)	
Electrical stability (V)	690,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	63,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	40,0
Yield point (Pa)	11,0
Gel strength 10s/10m (Pa)	7,0 / 12,0
600 / 300 rpm (lbf/100ft2)	102,0 / 62,0
200 / 100 rpm (lbf/100ft2)	50,0 / 35,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	12,0 / 11,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,1
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 19.07.2000 00:00 - 20.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
19.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	191,0	4,0	367,0										2,0
No losses to formation during cement job. No cement contaminated																

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
19.07.2000 12:00	8 1/2"	VersaVert (ANCOV)	1,35	/				/	/			NaN
No losses to formation during cement job. No cement contaminated												

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer	Serial no	Nozzles (n/32")	TFA in2
10	8 1/2"	7	DS165DGNSU		Unknown	23592	no x n no x n no x n no x n	1,227

Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs
	in m	out m							
10	4 871,0	4 874,0	3,0				0	0,0	

Run No	Pump		WOB		RPM		Torque		Conn drag	
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN
10					1	140				

Run No	IADC Dull Grading							Remarks	
	I	O	DC	L	B	G	OC	RP	
10	0	0	NO	A	X	I	NO	DTF	RRAB RE-RUNABLE

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 871,0	2 667,5	1,08		

13. Cementing

13.0 Casing / Liner

Casing string 9 5/8"	Cementing method Liner	Company	
Theoretical TOC MD m	Evaluated TOC MD m	Evaluated by	Liner rotation planned

Remarks	API CLASS G - 0 0 0 0 0
Fluids pumped	Type
Preflush	See description for fluid info
Lead	See description for fluid info
	Density g/cm3
	Volume m3
	Pump rate l/min
	Pump pressure bar
	Loss prior to cement job m3
	Loss during cement job m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 19.07.2000 00:00 - 20.07.2000 00:00

13.4 Cementing Volumes

Observation time	Section	Fluid system	Density g/cm3	Total volume mixed m3	Backloaded m3	Lost to slop m3	Acc spill to sea m3	Discharged to sea m3
19.07.2000 08:10	12 1/4"	Lead (Import only)	1,90	31,0				
		0 0 0 0 0						
19.07.2000 08:10	12 1/4"	Chemical Wash Unweighted (Import only)	1,00	17,0				
		0 0 0 0 0						

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 18.07.2000 00:00 - 19.07.2000 00:00

Project No	Section 12 1/4"	Start Time 11.07.2000 18:30	Start Depth MD 3 399,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 30	Days Since Spud 29	Days Ahead/Behind (+/-) Budget: -28,9 Perfect Well: -29,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 4 871,0 m	Depth TVD 2 667,5 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 4 871,0 m	TD of Well at 24:00 TVD 2 667,5 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day R. Langseth	Company Engineer Day Ig: R. Adams	Geologist Day M. Tillung	
Company Supervisor Night A. Vonheim	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
12 1/4" - Drilling - 11.07.2000 18:30 - 21.07.2000 19:00					
00:00	04:30	4,50	0,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Continued to pull out of the hole from 2424 m. Laid down the bottom hole assembly. Changed handling equipment. Rearranged pipe in the derrick.
04:30	05:00	0,50	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Sliped the drill line.
05:00	06:00	1,00	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Changed the saver sub and the kelly cock on the DDM.
06:00	08:00	2,00	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Changed the saver sub and the kelly cock on the DDM.
08:00	08:30	0,50	9,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Made up 3 1/2" cement stinger. Prox from crown saver fell down from the derrick. Cleared and cleaned drill floor.
08:30	15:00	6,50	9,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Repaired flaggs in the derrick and changed proxes.
15:00	00:00	9,00	4 736,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Ran in the hole with cement stinger, swap cups and top dress mill at 4736 m.

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation		
18.07.2000 08:00	08:30	D	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL)	
			Made up 3 1/2" cement stinger. Prox from crown saver fell down from the derrick. Cleared and cleaned drill floor.	
Report status: Completed	Finish Date	Total Down Time 6,5 hrs	Service RIG	Failure Code E10 - Imported from Bore
Equipment Type prox	Trade Name prox	Manufacturer Maritime Hydraulics	Serial no	Equipment Part prox
Synergi no	Description			

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 18.07.2000 00:00 - 19.07.2000 00:00

Hazard	Repared flaggs in the derrick and changed proxes.			
Company	Service	Description	Downtime %	
Odfjell Drilling AS	RIG	Rig Operations	100	

3.1 General Remarks

POB: NH-3,ODM-36,BJ-3,ADF-3,BHI-12, BOT-2

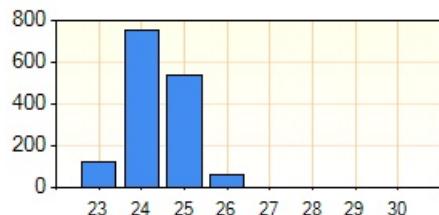
3.3 KPI

Drilling

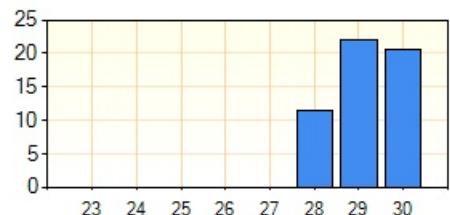
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	3,50	20,50	0,00	24,00	0,00	14,6	0,0	0,0 m/day
Rushmore m/day (for project)	587,50	110,00	0,00	697,50	0,00	84,2	4 704,0	161,9 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/697,5	0,0/0,0	0,0/0,0	697,5	0,0/0,0	100,0	29,1

Section	00:00 - 24:00	Avg. section
Fluid adherence	12 1/4"	0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 18.07.2000 00:00 - 19.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	18.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 872,0
Mud weight in/out (g/cm3)	0,00 / 1,52
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	15,00
Excess Lime (kg/m3)	5,55
WPS as chlorides (mg/l)	202,00
Organic clay (kg/m3)	
Electrical stability (V)	800,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	59,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	48,0
Yield point (Pa)	15,0
Gel strength 10s/10m (Pa)	9,5 / 18,0
600 / 300 rpm (lbf/100ft2)	126,0 / 78,0
200 / 100 rpm (lbf/100ft2)	57,0 / 37,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	16,0 / 15,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,7
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 18.07.2000 00:00 - 19.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
18.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,52	344,0	12,0	346,0	4,0									0,0
		Flushed centrifuges. Lost 4 m3 mud on surface when running out an														
		Total													36,0	

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %				
18.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,52	/			/	/				Nan				
		Flushed centrifuges. Lost 4 m3 mud on surface when running out an														
		Total													Nan	

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no		Nozzles (n/32")			TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs				
9	8 1/2"	6	M44NG		Unknown		A60J86		0 x 0	0 x 0	0 x 0	0 x 0	
<hr/>													
Run No	Pump rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN			
9													
Run No	IADC Dull Grading						Remarks						
9	I 3	O 2	DC BT	L A	B E	G I	OC CD	RP BHA	WORO WORN OUT				

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 871,0	2 667,5	1,08		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 17.07.2000 00:00 - 18.07.2000 00:00

Project No	Section 12 1/4"	Start Time 11.07.2000 18:30	Start Depth MD 3 399,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 29	Days Since Spud 28	Days Ahead/Behind (+/-) Budget: -27,9 Perfect Well: -28,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 4 871,0 m	Depth TVD 2 667,5 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 4 871,0 m	TD of Well at 24:00 TVD 2 667,5 m	Drilled 00:00-24:00 MD 0,0 m
	Company Supervisor Day R. Langseth	Company Engineer Day Ig: R. Adams	Geologist Day M. Tillung
Company Supervisor Night A. Vonheim	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
12 1/4" - Drilling - 11.07.2000 18:30 - 21.07.2000 19:00					
00:00	01:30	1,50	0,0	DP	U BOP - TEST SUBSEA BOP, OK Continued to test the BOP.
01:30	02:00	0,50	0,0	DP	U CASING - RUN CASING Laid out the casing tong carrier.
02:00	06:00	4,00	4 835,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Made up 8 1/2" cleanout assembly and run in the hole to 4835 m. Washed down from 4800 m to 4835 m.
06:00	13:00	7,00	4 835,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Made up 8 1/2" cleanout assembly and run in the hole to 4835 m. Washed down from 4800 m to 4835 m.
13:00	14:00	1,00	4 872,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Drilled the 9 5/8" plugs and the landing collar. 900 lpm, 45 bar, 80 rpm, 28 kNm, 17 ton WOB
14:00	19:30	5,50	4 872,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Drilled the 9 5/8" shoe and 1 m new formation. 2000 lpm, 136 bar, 80 rpm, 29 kNm, 16 ton WOB.
19:30	00:00	4,50	2 424,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole from 4872 m to 2424 m.

3.1 General Remarks

POB: NH-3,ODM-37,BJ-3,ADF-2,BHI-11, BOT-2

3.3 KPI

Drilling

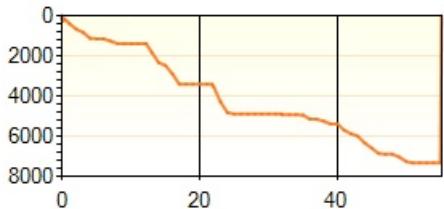
Daily Drilling Report

OSEBERG B

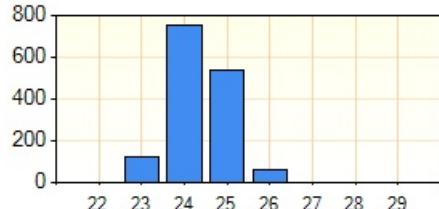
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 17.07.2000 00:00 - 18.07.2000 00:00

Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	2,00	22,00	0,00	24,00	0,00	8,3	0,0	0,0 m/day
Rushmore m/day (for project)	584,00	89,50	0,00	673,50	0,00	86,7	4 704,0	167,6 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/673,5	0,0/0,0	0,0/0,0	673,5	0,0/0,0	100,0	28,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	12 1/4"		0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 17.07.2000 00:00 - 18.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	17.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 871,0
Mud weight in/out (g/cm3)	0,00 / 1,52
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	14,50
Excess Lime (kg/m3)	5,92
WPS as chlorides (mg/l)	209,00
Organic clay (kg/m3)	
Electrical stability (V)	830,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	59,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	47,0
Yield point (Pa)	14,5
Gel strength 10s/10m (Pa)	8,5 / 16,5
600 / 300 rpm (lbf/100ft2)	123,0 / 76,0
200 / 100 rpm (lbf/100ft2)	56,0 / 37,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	16,0 / 15,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,8
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 17.07.2000 00:00 - 18.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
17.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,52	357,0	2,0	334,0										13,0
Ran fine screens on shakers. Controlled mudweight in active by ru																
		Total													36,0	

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
17.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,52	/			/	/	/			NaN
Ran fine screens on shakers. Controlled mudweight in active by ru												
		Total										NaN

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 871,0	2 667,5	1,08		

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 16.07.2000 00:00 - 17.07.2000 00:00

Project No	Section 12 1/4"	Start Time 11.07.2000 18:30	Start Depth MD 3 399,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 28	Days Since Spud 27	Days Ahead/Behind (+/-) Budget: -26,9 Perfect Well: -27,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 4 871,0 m	Depth TVD 2 667,5 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 9 5/8"	Depth MD 4 883,0 m	Depth TVD m
	TD of Well at 24:00 MD 4 871,0 m	TD of Well at 24:00 TVD 2 667,5 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day R. Langseth	Company Engineer Day Ig: R. Adams	Geologist Day M. Tillung	
Company Supervisor Night A. Vonheim	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
12 1/4" - Drilling - 11.07.2000 18:30 - 21.07.2000 19:00					
00:00	03:30	3,50	4 817,0	DP	U CASING - RUN CASING Continued to run in the hole with 9 5/8" liner on drillpipe from 3880 m to 4817 m. Liner shoe 54 m above TD (4871 m). Top liner at 3234 m.
03:30	04:30	1,00	4 817,0	DP	U CASING - RUN CASING Made up the cement head and connected the cement hoses. Up weight 217 ton, down weight 122 ton.
04:30	06:00	1,50	4 817,0	DP	U CASING - CEMENT CASING/LINER Established circulation prior to set the liner hanger. Broke circulation with 30 bar. Circulated one annulus volume with 500 lpm, 36 bar. Increased pumprate to 1000 lpm, 47 bar.
06:00	07:00	1,00	4 817,0	DP	U CASING - CEMENT CASING/LINER Established circulation prior to set the liner hanger. Broke circulation with 30 bar. Circulated one annulus volume with 500 lpm, 36 bar. Increased pumprate to 1000 lpm, 47 bar.
07:00	08:30	1,50	4 871,0	DP	U CASING - RUN CASING Attempted to set the linerhanger. The liner running tool released from the liner hanger. Pumped the ball and attempted to set the liner 5 times with increasing the pressure in steps of 10 bar, from 130 to 170 bar. Up weight dropped from 202 ton to 143 ton, pressure dropped from 60 to 0 bar.
08:30	10:00	1,50	4 871,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Rigged down the cement head. Prepeared to pull out of the hole.
10:00	20:00	10,00	0,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole with the liner running string. Found the cement plugs lossed in the hole. L/D 42 joint 6 5/8" DP.
20:00	00:00	4,00	0,0	DP	U BOP - TEST SUBSEA BOP, OK Tested the BOP to 300 bar. Annular tested to 240 bar.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 16.07.2000 00:00 - 17.07.2000 00:00

3.0.1 Incidents

Start Date/Time		End Date/Time		Activity Code / Aborted Operation							
16.07.2000 07:00	08:30	U	CASING - RUN CASING	Attempted to set the linerhanger. The liner running tool released from the liner hanger. Pumped the ball and attempted to set the liner 5 times with increasing the pressure in steps of 10 bar, from 130 to 170 bar. Up weight dropped from 202 ton to 143 ton, pressure dropped from 60 to 0 bar.							
Report status: Completed		Finish Date		Total Down Time 68,0 hrs	Service RIG		Failure Code E357 - Imported from Bore				
Equipment Type Liner hanger		Trade Name Liner hanger		Manufacturer Baker Oil Tools	Serial no		Equipment Part Liner hanger				
Synergi no	Description										
Hazard	Rigged down the cement head. Prepeared to pull out of the hole.										
Company		Service	Description			Downtime %					
Baker Oil Tools		RIG	Rig Operations			100					

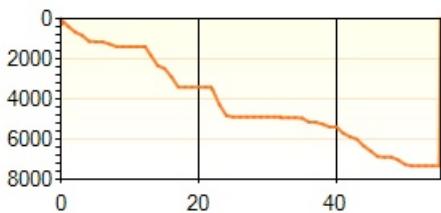
3.1 General Remarks

POB: NH-4,ODM-35,BJ-3,ADF-2,BHI-10, BOT-2, SPS-6, OWS-1

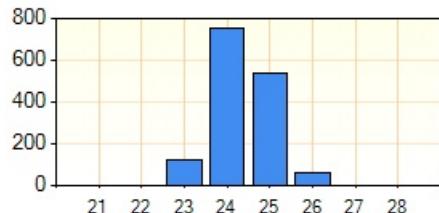
3.3 KPI

Drilling

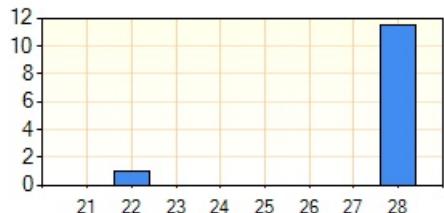
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	12,50	11,50	0,00	24,00	0,00	52,1	0,0	0,0 m/day
Rushmore m/day (for project)	582,00	67,50	0,00	649,50	0,00	89,6	4 704,0	173,8 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/649,5	0,0/0,0	0,0/0,0	649,5	0,0/0,0	100,0	27,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	12 1/4"		0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 16.07.2000 00:00 - 17.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	16.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 871,0
Mud weight in/out (g/cm3)	0,00 / 1,52
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,00
Excess Lime (kg/m3)	5,92
WPS as chlorides (mg/l)	209,00
Organic clay (kg/m3)	
Electrical stability (V)	850,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	59,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	46,0
Yield point (Pa)	13,0
Gel strength 10s/10m (Pa)	9,0 / 16,5
600 / 300 rpm (lbf/100ft2)	118,0 / 72,0
200 / 100 rpm (lbf/100ft2)	56,0 / 37,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	14,0 / 13,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,6
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 16.07.2000 00:00 - 17.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
16.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,52	367,0		323,0										3,0
		Ran mud over 230 mesh screens while running in.														
		Total													36,0	

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
16.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,52	/			/	/				NaN	
		Ran mud over 230 mesh screens while running in.											
		Total											NaN

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 871,0	2 667,5	1,08		

12. Casing

Category/String type			Diameters		RKB hanger m MD	Air gap m MD	From depth m MD	To depth m MD	Date	Description		Tally
Liner, Production			9 5/8"			58,0	3 297,0	4 883,0	16.07.2000			
Item type			No. of joints	Diameter inch	Grade	Coupling	Weight lbs/ft	From depth m MD	To depth m MD	To depth m TVD	Remarks	
Casing			138	9 5/8"	L-80	NSCC	53,500	3 297,0	4 883,0		LINP	

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 15.07.2000 00:00 - 16.07.2000 00:00

Project No	Section 12 1/4"	Start Time 11.07.2000 18:30	Start Depth MD 3 399,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 27	Days Since Spud 26	Days Ahead/Behind (+/-) Budget: -25,9 Perfect Well: -26,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,08 g/cm3	Depth MD 4 871,0 m	Depth TVD 2 667,5 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 13 3/8"	Depth MD 3 393,4 m	Depth TVD m
	TD of Well at 24:00 MD 4 871,0 m	TD of Well at 24:00 TVD 2 667,5 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day R. Langseth	Company Engineer Day Ig: R. Adams	Geologist Day M. Tillung	
Company Supervisor Night A. Vonheim	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
12 1/4" - Drilling - 11.07.2000 18:30 - 21.07.2000 19:00					
00:00	01:00	1,00	0,0	DP	U DRILLING - Handling of BHA Laid down the Autotrak.
01:00	02:00	1,00	0,0	DP	U CASING - RUN CASING Rigged up the casing handling equipment. Held safety meeting.
02:00	06:00	4,00	1 570,0	DP	U CASING - RUN CASING Ran in the hole with the 9 5/8" liner to 1570 m. Tested the float shoe and the landing collar float.
06:00	12:30	6,50	1 570,0	DP	U CASING - RUN CASING Ran in the hole with the 9 5/8" liner to 1570 m. Tested the float shoe and the landing collar float.
12:30	14:30	2,00	1 570,0	DP	U CASING - RUN CASING Made up the liner hanger and broke circulation. Up weight 136 ton, down weight 122 ton. 1500 lpm, 30 bar. Installed the torque wrench.
14:30	21:00	6,50	3 372,0	DP	U CASING - RUN CASING Ran in the hole with the 9 5/8" liner on drillpipe from 1570 m to 3372 m.
21:00	22:00	1,00	3 372,0	DP	U CASING - RUN CASING Broke circulation in the 13 3/8" shoe. 1000 lpm, 31 bar. up weight 176 ton, down weight 118 ton.
22:00	00:00	2,00	3 380,0	DP	U CASING - RUN CASING Continued to run in the hole with the 9 5/8" liner on drillpipe from 3372 m to 3880 m. Worked tight area from 3826 m to 3880 m, max 40 ton.

3.1 General Remarks

POB: NH-5,ODM-35,BJ-3,ADF-2,BHI-12, BOT-3, SPS-6, OWS-4

3.3 KPI

Drilling

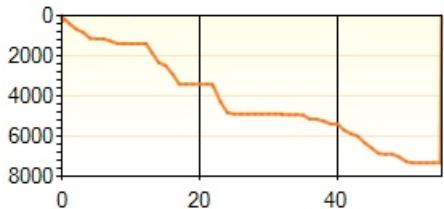
Daily Drilling Report

OSEBERG B

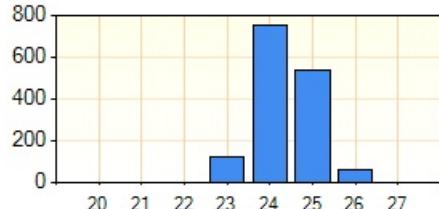
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 15.07.2000 00:00 - 16.07.2000 00:00

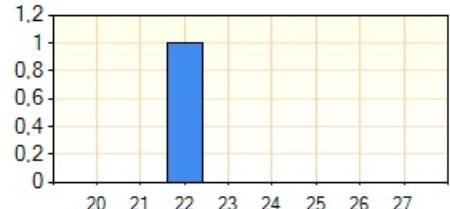
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	0,0	0,0 m/day
Rushmore m/day (for project)	569,50	56,00	0,00	625,50	0,00	91,0	4 704,0	180,5 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/625,5	0,0/0,0	0,0/0,0	625,5	0,0/0,0	100,0	26,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	12 1/4"		0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 15.07.2000 00:00 - 16.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	15.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 871,0
Mud weight in/out (g/cm3)	0,00 / 1,52
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,50
Excess Lime (kg/m3)	8,88
WPS as chlorides (mg/l)	185,00
Organic clay (kg/m3)	
Electrical stability (V)	890,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	59,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	47,0
Yield point (Pa)	13,5
Gel strength 10s/10m (Pa)	10,0 / 18,0
600 / 300 rpm (lbf/100ft2)	121,0 / 74,0
200 / 100 rpm (lbf/100ft2)	55,0 / 38,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	15,0 / 14,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,9
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 15.07.2000 00:00 - 16.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
15.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,52	355,0	45,0	230,0	1,0									3,0
CHanged to coarser screens on two shakers to handle mud from hole																
		Total														36,0

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
15.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,52	/			/	/				NaN
CHanged to coarser screens on two shakers to handle mud from hole												
		Total										

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 871,0	2 667,5	1,08		

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 14.07.2000 00:00 - 15.07.2000 00:00

Project No	Section 12 1/4"	Start Time 11.07.2000 18:30	Start Depth MD 3 399,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 26	Days Since Spud 25	Days Ahead/Behind (+/-) Budget: -24,9 Perfect Well: -25,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,22 g/cm3	Depth MD 4 871,0 m	Depth TVD 2 667,5 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 13 3/8"	Depth MD 3 393,4 m	Depth TVD m
	TD of Well at 24:00 MD 4 871,0 m	TD of Well at 24:00 TVD 2 667,5 m	Drilled 00:00-24:00 MD 62,0 m
Company Supervisor Day R. Langseth	Company Engineer Day Ig: R. Adams	Geologist Day M. Tillung	
Company Supervisor Night A. Vonheim	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
12 1/4" - Drilling - 11.07.2000 18:30 - 21.07.2000 19:00					
00:00	06:00	6,00	4 871,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill 12 1/4" hole from 4809 m to 4871 m. 3900 lpm, 276 bar, 140 rpm, 45 kNm, 10-15 ton WOB, ECD 1.57 sg. Pumped 5m3 high weight pills every 3 stand. Max. ROP 30 m/hr due MWD logging quality. Slow drilling at the end, 1 -2 m/hr ROP.
06:00	08:00	2,00	4 871,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill 12 1/4" hole from 4809 m to 4871 m. 3900 lpm, 276 bar, 140 rpm, 45 kNm, 10-15 ton WOB, ECD 1.57 sg. Pumped 5m3 high weight pills every 3 stand. Max. ROP 30 m hr due MWD logging quality. Slow drilling at the end, 1 -2 m hr ROP.
08:00	11:00	3,00	4 872,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Circulated the hole clean and condition the mud prior to run liner. 4000 lpm, 290 bar, 140 rpm, 33 kNm, ECD 1.57 sg. Increased the mud weight from 1.50 to 1.52 sg.
11:00	15:30	4,50	3 350,0	DP	DRILLING - Run in and POOH with BHA Pulled out of the hole from 4871 m to 3350 m. Tight spot at 3775 m, 20 ton overpull. Parameters in the shoe: Up weight 141 ton, down 110 ton, With 40 rpm : weight 115 ton, 20 kNm.
15:30	16:00	0,50	3 350,0	DP	DRILLING - DRILLING OTHER TIME, OK Removed the torque wrench for service.
16:00	17:30	1,50	3 350,0	DP	DRILLING - DRILLING OTHER TIME, OK Cut and slip the drill line. Checked brake on DW, changed gear oil on DDM.
17:30	21:00	3,50	177,0	DP	DRILLING - Run in and POOH with BHA Continued to pull out of the hole from 3350 to 177 m.
21:00	22:30	1,50	29,0	DP	DRILLING - Handling of BHA Racked back 6 5/8" HWDP and the jar. Removed the PS21 slips.
22:30	00:00	1,50	15,0	DP	DRILLING - SURVEY Removed the radioactive source from the MWD. Laid down the sonic tool. P/U the casing tong.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 14.07.2000 00:00 - 15.07.2000 00:00

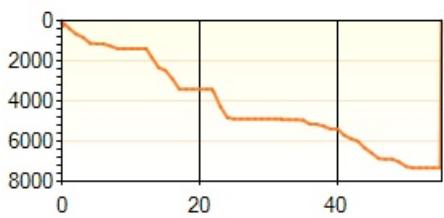
3.1 General Remarks

POB: NH-5,ODM-35,BJ-3,ADF-2,BHI-12, BOT-3, SPS-6, Schl-3, PES-1, OWS-4

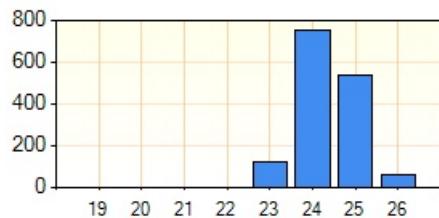
3.3 KPI

Drilling

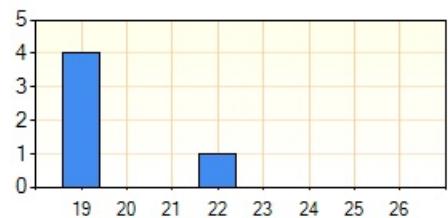
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	62,0	62,0 m/day
Rushmore m/day (for project)	545,50	56,00	0,00	601,50	0,00	90,7	4 704,0	187,7 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/601,5	0,0/0,0	0,0/0,0	601,5	0,0/0,0	100,0	25,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	12 1/4"	0 m3/m3	0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 14.07.2000 00:00 - 15.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	14.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 871,0
Mud weight in/out (g/cm3)	0,00 / 1,52
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,00
Excess Lime (kg/m3)	8,88
WPS as chlorides (mg/l)	185,00
Organic clay (kg/m3)	
Electrical stability (V)	920,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	59,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	47,0
Yield point (Pa)	13,0
Gel strength 10s/10m (Pa)	9,5 / 18,0
600 / 300 rpm (lbf/100ft2)	120,0 / 73,0
200 / 100 rpm (lbf/100ft2)	37,0 / 15,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	14,0 / 13,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,8
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 14.07.2000 00:00 - 15.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
14.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,52	381,0	48,0	185,0								6,0		23,0
		Ran all mud over 230 mesh screens. Ran both centrifuges in barite														
		Total												36,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %				
14.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,52	/				/	/				Nan			
		Ran all mud over 230 mesh screens. Ran both centrifuges in barite														
		Total														Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")				TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs				
8	12 1/4"	5	ATX437MA	M423	Unknown		402060	3 x 16	3 x 18	1 x 20	0 x 0	1,641	
Run No	Pump		WOB		RPM		Torque		Conn drag				
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN			
8	3 399,0	4 871,0	1 472,0	65,9	22,3		0	0,0					
Run No	IADC Dull Grading							Remarks					
	I	O	DC	L	B	G	OC	RP	RRAB RE-RUNABLE				
8	1	2	WT	S	X	1	CT	TD	RRAB RE-RUNABLE				

7. Geology / Pressure Data

7.0 Geologists

Geologist day: M. Tillung

Geologist night:

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
4 850,0	2 662,0	4 871,0	2 667,5	Cuttings	Siltstone, minor sandstone, claystone and limestone								
		Lithology		From %	To %	Properties							
		Limestone				tr, lt gry, olv gry, frm - mod hd, blk, microxln, slty/sdy I.P.							
		Siltstone				brsh blk, dk gry, frm - mod hd, sblk, gen sdy, bcm calc - v calc, I.P. grad slty Ls, micromic, sl carb							
		Sandstone				brnsh gry, olv gry, trns - mky wh - lt brn Qtz, vf - f, occ m - v crs, mod - w srt, sbr nnd - rnnd, pred lse, occ arg/slty Mtr, loc calc cmt, micropyr, tr Mica, tr Pyr Nod							
		Claystone				dk gnsh gry, olv gry, r dsky yelsh brn, frm - mod hd, sblk - sbplty, non calc, micropyr, tr carb spk							

7.2 Gas

Remarks
BG-CTOT-.2/2 %.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 14.07.2000 00:00 - 15.07.2000 00:00

Gas peaks					Chromatographic analysis (ppm)						
Peak Type	m MD	m TVD	Max %	Drilled gas %	C1	C2	C3	i-C4	n-C4	i-C5	n-C5
Formation gas	4 806,0	2 650,4	1,30		8 039	671	314	40	89		

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 871,0	2 667,5	1,22		

7.6 Geology Remarks

Problems dumping the MWD main memory buffer.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 13.07.2000 00:00 - 14.07.2000 00:00

Project No	Section	Start Time	Start Depth MD	Primary Conveyance	Well Classification
	12 1/4"	11.07.2000 18:30	3 399,0 m	DP	OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number	25	Days Since Spud	24	Days Ahead/Behind (+/-)
	Budget:	-23,9	Perfect Well:	-24,1	WOW: 0,0
	Mud weight	g/cm3	BOP Pressure Rating	280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max	1,22 g/cm3	Depth MD	4 809,0 m	Depth TVD
	FIT	1,66 g/cm3	Depth MD	3 399,0 m	Depth TVD
	Casing Size	13 3/8"	Depth MD	3 393,4 m	Depth TVD
	TD of Well at 24:00 MD	4 809,0 m	TD of Well at 24:00 TVD	2 651,2 m	Drilled 00:00-24:00 MD 533,0 m
Company Supervisor Day R. Langseth	Company Engineer Day Ig: R. Adams				Geologist Day M. Tellung
Company Supervisor Night A. Vonheim	Company Engineer Night				Geologist Night
Operator Norsk Hydro					Contractor ODB

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
12 1/4" - Drilling - 11.07.2000 18:30 - 21.07.2000 19:00					
00:00	06:00	6,00	4 662,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill 12 1/4" hole from 4276 m to 4662 m. 3900 lpm, 276 bar, 140 rpm, 45 kNm, 10-15 ton WOB, ECD 1.57 sg. Pumped 5m3 high weight pills every 3 stand.
06:00	14:30	8,50	4 662,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill 12 1/4" hole from 4276 m to 4662 m. 3900 lpm, 276 bar, 140 rpm, 45 kNm, 10-15 ton WOB, ECD 1.57 sg. Pumped 5m3 high weight pills every 3 stand.
14:30	16:00	1,50	4 662,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Circulated bottom up for formation samples.
16:00	00:00	8,00	4 809,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill 12 1/4" hole from 4662 m to 4809 m. Max. ROP 30 m/hr for MWD logging quality.

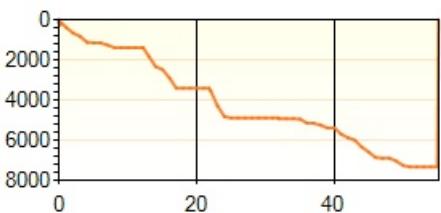
3.1 General Remarks

POB: NH-5,ODM-35,BJ-3,ADF-2,BHI-12, BOT-3, SPS-6, Schl-3, PES-1

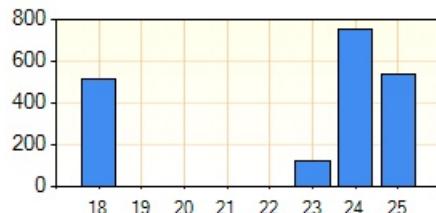
3.3 KPI

Drilling

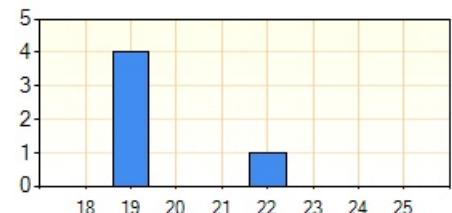
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 13.07.2000 00:00 - 14.07.2000 00:00

	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	533,0	533,0 m/day
Rushmore m/day (for project)	521,50	56,00	0,00	577,50	0,00	90,3	4 642,0	192,9 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/577,5	0,0/0,0	0,0/0,0	577,5	0,0/0,0	100,0	24,1
		Section			00:00 - 24:00	Avg. section		
Fluid adherence		12 1/4"			0 m3/m3	0 m3/m3		

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
4 771,0	72,30	231,00	2 640,4	-2 263,86	-2 729,31	1,79		HYDRO_MWD_SCC_SAG
4 800,0	74,00	230,90	2 648,8	-2 281,34	-2 750,86	1,76		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 13.07.2000 00:00 - 14.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	13.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 808,0
Mud weight in/out (g/cm3)	0,00 / 1,50
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	17,00
Excess Lime (kg/m3)	6,66
WPS as chlorides (mg/l)	181,00
Organic clay (kg/m3)	
Electrical stability (V)	820,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	58,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	49,0
Yield point (Pa)	17,0
Gel strength 10s/10m (Pa)	12,0 / 20,0
600 / 300 rpm (lbf/100ft2)	132,0 / 83,0
200 / 100 rpm (lbf/100ft2)	65,0 / 44,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	19,0 / 18,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,6
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 13.07.2000 00:00 - 14.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to format ion m3	Left in hole m3	Lost on shake rs m3	Lost to lubrica tion m3	Lost to slop m3	Lost to evapo ration m3	Total loss m3
13.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,50	352,0	8,0	170,0								5,0		33,0
		Running all mud over 230 mesh screens. Running both centrifuges i														
		Total												30,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
13.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,50	/				/	/			Nan	
		Running all mud over 230 mesh screens. Running both centrifuges i											
		Total											Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no		Nozzles (n/32")				TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs					
Run No	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN				
8	3 399,0	4 871,0	1 472,0	65.9	22,3		0	0,0						1,641
Pump														
Run No	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN				
8	3 441	213,00	1	2	110	144								
IADC Dull Grading														
Run No	I	O	DC	L	B	G	OC	RP	Remarks					
8	1	2	WT	S	X	1	CT	TD	RRAB RE-RUNABLE					

7. Geology / Pressure Data

7.0 Geologists

Geologist day: M. Tellung

Geologist night:

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 13.07.2000 00:00 - 14.07.2000 00:00

7.1 Lithology

From		To		Sample type	General lithology
m MD	m TVD	m MD	m TVD		
4 277,0	2 425,4	4 600,0	2 571,0	Cuttings	Claystone interbedded with limestone
		Lithology	From % To %		Properties
		Limestone			wh - off wh, frm - hd, blky, microxln
		Claystone			m dk gry - dk gry, occ gnsh blk, frm - mod hd, sbblk - blky, occ sbplty, gen calc, loc v calc, tr org Mat, micromic, micropyr, tr Glauc, tr Pyr Nod
4 600,0	2 571,0	4 807,0	2 650,7	Cuttings	Sandstone interbedded with siltstone and claystone
		Lithology	From % To %		Properties
		Siltstone			dsky yelsh brn, olv blk, mod hd, sbfis, gen mic, carb spk, occ grdg C
		Sandstone			lt brnsh gry, olv gry, clr - trnsl Qtz, pred vf - f, occ m - v crs, mod - w srtd, sbrrn dd - rnnd, pred lse, loc abd arg/kao Mtrx, r calc cmt, occ carb spk, tr Pyr Nod
		Coal			tr, brnsh blk, blky - sbfis, frm - mod hd, arg, micmica, grdg carb Clst/Sh
		Claystone			m gry, brnsh blk, dk grnsh gry, dsky yelsh brn, frm - mod hd, sbblk - blky, occ sbplty, non calc, micropyr, occ micromic, I. P. carb grdg arg C, I.P. slyt grdg arg carb Slst
4 807,0	2 650,7	4 850,0	2 662,0	Cuttings	Siltstone and minor sandstone
		Lithology	From % To %		Properties
		Siltstone			brnsh blk, dk gry, frm, sbblk, loc calc - v calc, pred non calc, abd micropyr, sl carb, sdy I.P. grdg slyt Sst
		Claystone			dk gry, brnsh blk dsky yelsh brn, brnsh gry, frm - occ mod hd, sbblk - blky, abd micropyr, spk/strk carb Mat
		Sandstone			lt brnsh gry - olv gry, clr - trnsl, occ mky wh Qtz, pred vf - f, occ m - v crs, mod - well srtd, pred lse, I. P. abd micropyr, loc calc - v calc

7.2 Gas

Remarks
BG-CTOT-.2/.5 %.

Gas peaks					Chromatographic analysis (ppm)						
Peak Type	m MD	m TVD	Max %	Drilled gas %	C1	C2	C3	i-C4	n-C4	i-C5	n-C5
Formation gas	4 623,0	2 581,4	9,40		75 846	4 493	1 902	216	401		
Formation gas	4 640,0	2 589,1	5,50		41 116	2 252	853	90	177		
Formation gas	4 662,0	2 599,0	1,20		7 542	424	166	19	39		
Formation gas	4 677,0	2 605,7	1,20		8 398	426	165	18	43		
Formation gas	4 734,0	2 628,5	1,80		11 558	926	402	49	103		
Formation gas	4 755,0	2 635,4	2,00		12 538	1 061	490	61	130		
Formation gas	4 786,0	2 644,7	1,90		11 881	998	452	56	120		

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 809,0	2 651,2	1,22		

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 12.07.2000 00:00 - 13.07.2000 00:00

Project No	Section 12 1/4"	Start Time 11.07.2000 18:30	Start Depth MD 3 399,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 24	Days Since Spud 23	Days Ahead/Behind (+/-) Budget: -22,9 Perfect Well: -23,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,22 g/cm3	Depth MD 4 276,0 m	Depth TVD 2 425,0 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 13 3/8"	Depth MD 3 393,4 m	Depth TVD m
	TD of Well at 24:00 MD 4 276,0 m	TD of Well at 24:00 TVD 2 425,0 m	Drilled 00:00-24:00 MD 752,0 m
	Company Supervisor Day R. Langseth	Company Engineer Day Ig: R. Adams	Geologist Day
Company Supervisor Night A. Vonheim	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
12 1/4" - Drilling - 11.07.2000 18:30 - 21.07.2000 19:00					
00:00	06:00	6,00	4 276,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill 12 1/4" hole from 3524 m to 4276 m. 3700-3928 lpm, 217-170 bar, 140 rpm, 35-45 kNm, 4-15 ton WOB, ECD 1.57 -1.60 sg. Pumped 5m3 high weight pills every 3 stand.
06:00	00:00	18,00	4 276,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill 12 1/4" hole from 3524 m to 4276 m. 3700-3928 lpm, 217-170 bar, 140 rpm, 35-45 kNm, 4-15 ton WOB, ECD 1.57 -1.60 sg. Pumped 5m3 high weight pills every 3 stand.

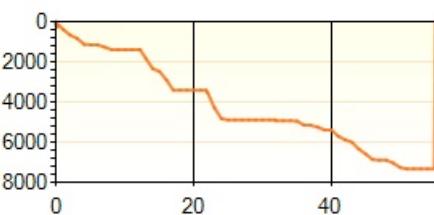
3.1 General Remarks

POB: NH-4,ODM-36,BJ-3,ADF-2,BHI-12, BOT-2, SPS-6

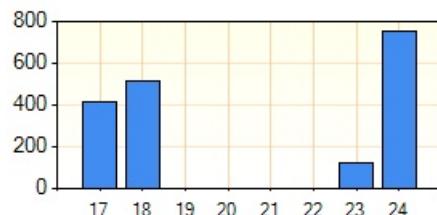
3.3 KPI

Drilling

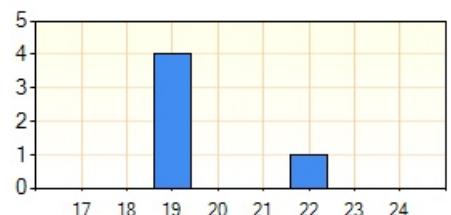
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
24,00	0,00	0,00	24,00	0,00	100,0	752,0	752,0 m/day
497,50	56,00	0,00	553,50	0,00	89,9	4 109,0	178,2 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 12.07.2000 00:00 - 13.07.2000 00:00

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling								
Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/553,5	0,0/0,0	0,0/0,0	553,5	0,0/0,0	100,0	23,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	12 1/4"	0 m3/m3	0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
4 247,0	63,20	230,30	2 411,9	-1 963,34	-2 366,75	0,21		HYDRO_MWD _SCC_SAG
4 276,0	63,20	230,40	2 425,0	-1 979,86	-2 386,68	0,09		HYDRO_MWD _SCC_SAG
4 306,0	63,30	229,30	2 438,5	-1 997,13	-2 407,16	0,99		HYDRO_MWD _SCC_SAG
4 335,0	63,20	229,90	2 451,6	-2 013,91	-2 426,88	0,56		HYDRO_MWD _SCC_SAG
4 365,0	63,20	228,90	2 465,1	-2 031,34	-2 447,21	0,89		HYDRO_MWD _SCC_SAG
4 394,0	63,30	229,00	2 478,1	-2 048,35	-2 466,74	0,14		HYDRO_MWD _SCC_SAG
4 423,0	63,20	228,20	2 491,2	-2 065,47	-2 486,17	0,75		HYDRO_MWD _SCC_SAG
4 452,0	63,30	228,30	2 504,2	-2 082,71	-2 505,49	0,14		HYDRO_MWD _SCC_SAG
4 481,0	63,20	229,00	2 517,3	-2 099,82	-2 524,93	0,65		HYDRO_MWD _SCC_SAG
4 511,0	63,30	228,50	2 530,8	-2 117,49	-2 545,07	0,46		HYDRO_MWD _SCC_SAG
4 540,0	63,10	229,40	2 543,9	-2 134,49	-2 564,59	0,86		HYDRO_MWD _SCC_SAG
4 569,0	63,10	231,10	2 557,0	-2 151,02	-2 584,47	1,57		HYDRO_MWD _SCC_SAG
4 597,0	63,10	231,30	2 569,7	-2 166,67	-2 603,93	0,19		HYDRO_MWD _SCC_SAG
4 626,0	63,20	231,90	2 582,8	-2 182,74	-2 624,21	0,56		HYDRO_MWD _SCC_SAG
4 656,0	63,00	232,50	2 596,3	-2 199,14	-2 645,35	0,57		HYDRO_MWD _SCC_SAG
4 685,0	64,00	233,10	2 609,3	-2 214,83	-2 666,02	1,17		HYDRO_MWD _SCC_SAG
4 713,0	66,80	232,30	2 620,9	-2 230,26	-2 686,27	3,10		HYDRO_MWD _SCC_SAG
4 742,0	71,20	232,40	2 631,3	-2 246,79	-2 707,70	4,55		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 12.07.2000 00:00 - 13.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	12.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	4 277,0
Mud weight in/out (g/cm3)	0,00 / 1,50
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	16,00
Excess Lime (kg/m3)	9,25
WPS as chlorides (mg/l)	187,00
Organic clay (kg/m3)	
Electrical stability (V)	780,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	59,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	50,0
Yield point (Pa)	16,0
Gel strength 10s/10m (Pa)	11,0 / 17,0
600 / 300 rpm (lbf/100ft2)	132,0 / 82,0
200 / 100 rpm (lbf/100ft2)	63,0 / 43,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	19,0 / 17,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	4,0
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 12.07.2000 00:00 - 13.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
12.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,50	314,0	49,0	227,0								25,0		73,0
		Running as fine screens as possible.														
		Total												25,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
12.07.2000 12:00	12 1/4"	VersaVert (ANCOV)	1,50	/			/	/				Nan
		Running as fine screens as possible.										
		Total										Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")				TFA in2
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs			
8	12 1/4"	5	ATX437MA	M423	Unknown		402060	3 x 16	3 x 18	1 x 20	0 x 0	1,641
IADC Dull Grading												
Run No	Pump rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN		
8	3 488	189,00	0	2	115	142						
Run No	I	O	DC	L	B	G	OC	RP	Remarks			
8	1	2	WT	S	X	1	CT	TD	RRAB RE-RUNABLE			

7. Geology / Pressure Data

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
3 524,0	2 148,2	4 071,0	2 337,1	Cuttings	Claystone with traces of limestone and dolomite								
		Lithology		From %	To %	Properties							
		Claystone				Pred dk gry - grysh blk, frm, occ sft, sb blk - blk, r micropyr, sly silty, non-occ calc, tr ls/dol. bec v calc							
4 071,0	2 337,1	4 277,0	2 425,4	Cuttings	Claystone interbedded with limestone								
		Lithology		From %	To %	Properties							
		Claystone				dk gry - olv gry, occ dk grn gry, frm - mod h, blk, micromic, micropyr, occ glauc.							
		Limestone				Wh to v lt gry, occ lt brn, frm - mod hard, blk, brit, microxln - cryptoxln, loc grd mrl, r pyr, r glauc							

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
4 276,0	2 425,0	1,22		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 12.07.2000 00:00 - 13.07.2000 00:00

7.7 Preliminary Zonation

Code	Group / Formation	Planned		Actual		Difference
		Top m MD	Top m TVD	Top m MD	Top m TVD	
VIHE	Heather Fm.			4 807,0	2 650,7	

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 11.07.2000 00:00 - 12.07.2000 00:00

Project No	Section 12 1/4"	Start Time 11.07.2000 18:30	Start Depth MD 3 399,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 23	Days Since Spud 22	Days Ahead/Behind (+/-) Budget: -21,9 Perfect Well: -22,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,32 g/cm3	Depth MD 3 524,0 m	Depth TVD 2 148,2 m
	FIT 1,66 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	Casing Size 13 3/8"	Depth MD 3 393,4 m	Depth TVD m
	TD of Well at 24:00 MD 3 524,0 m	TD of Well at 24:00 TVD 2 148,2 m	Drilled 00:00-24:00 MD 125,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig: R. Adams	Geologist Day	
Company Supervisor Night A. Vonheim	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
17 1/2" - Drilling - 02.07.2000 04:00 - 11.07.2000 18:30					
00:00	02:30	2,50	42,0	DP	U DRILLING - SURVEY Made up the Triple combo and sonic tool. Tested the tools and installed the radioactive source. Path finder sonic tool.
02:30	04:30	2,00	177,0	DP	U DRILLING - Handling of BHA Continued to pick up the 12 1/4" bottom hole assembly. NMDP, HWDP and the jar.
04:30	06:00	1,50	1 360,0	DP	U DRILLING - Run in and POOH with BHA Ran in the hole with the 12 1/4" drilling assembly from 177 m to 3050 m. Broke circulation and tested the Autotrak at 1360 m. 2777 lpm, 98 bar.
06:00	08:30	2,50	1 360,0	DP	U DRILLING - Run in and POOH with BHA Ran in the hole with the 12 1/4" drilling assembly from 177 m to 3050 m. Broke circulation and tested the Autotrak at 1360 m. 2777 lpm, 98 bar.
08:30	12:30	4,00	3 286,0	DP	U DRILLING - Run in and POOH with BHA Washed and drilled cement from 3050 m to 3286 m, while reducing the mudweight from 1.55 sg to 1.50 sg. Tagged cement at 3050 m, 10 ton. 3200 lpm, 156 bar, 90 rpm, 30 kNm, 1-5 ton WOB, ECD reduced from 1.62 sg to 1.56 sg.
12:30	14:00	1,50	3 286,0	DP	U CASING - RUN CASING Pressure tested the 13 3/8" casing to 250 bar/10min. Pumped 3727 liter.
14:00	16:30	2,50	3 399,0	DP	U CASING - DRILL FLOAT/CEMENT Drilled cement, float collar, casing shoe and 3 m new formation from 3286 m to 3402 m.
16:30	18:30	2,00	3 390,0	DP	U EVALUATION - FORMATION INTEGRITY TEST Circulated bottom up and performed FIT to 1.65 sg. Pumped 725 liter, 30 bar.
12 1/4" - Drilling - 11.07.2000 18:30 - 21.07.2000 19:00					
18:30	00:00	5,50	3 524,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled 12 1/4" hole from 3402 m to 3524 m. 3700 lpm, 210 bar, 140 rpm, 35 kNm, 4-8 ton WOB, ECD 1.58-1.59 sg.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 11.07.2000 00:00 - 12.07.2000 00:00

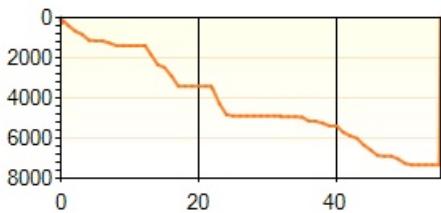
3.1 General Remarks

POB: NH-4,ODM-37,BJ-3,ADF-2,BHI-12, BOT-2, SPS-6

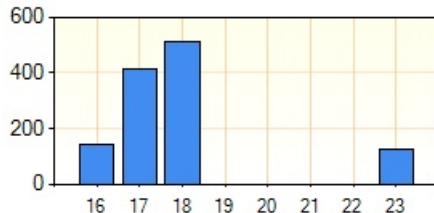
3.3 KPI

Drilling

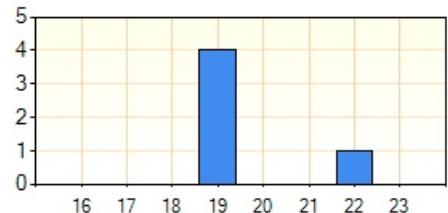
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	125,0	125,0 m/day
Rushmore m/day (for project)	473,50	56,00	0,00	529,50	0,00	89,4	3 357,0	152,2 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/529,5	0,0/0,0	0,0/0,0	529,5	0,0/0,0	100,0	22,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	17 1/2"	9,90 m3/m3	0,58 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
3 488,0	70,00	230,00	2 135,9	-1 525,95	-1 812,34	0,40		HYDRO_MWD _SCC_SAG
3 517,0	69,90	230,00	2 145,8	-1 543,46	-1 833,21	0,10		HYDRO_MWD _SCC_SAG
3 546,0	70,10	229,90	2 155,7	-1 561,00	-1 854,07	0,23		HYDRO_MWD _SCC_SAG
3 575,0	69,90	230,60	2 165,7	-1 578,42	-1 875,02	0,71		HYDRO_MWD _SCC_SAG
3 605,0	69,90	229,80	2 176,0	-1 596,45	-1 896,67	0,75		HYDRO_MWD _SCC_SAG
3 633,0	69,90	230,30	2 185,6	-1 613,34	-1 916,82	0,50		HYDRO_MWD _SCC_SAG
3 663,0	70,10	230,80	2 195,9	-1 631,25	-1 938,59	0,51		HYDRO_MWD _SCC_SAG
3 692,0	69,90	231,60	2 205,8	-1 648,33	-1 959,83	0,80		HYDRO_MWD _SCC_SAG
3 721,0	69,70	231,70	2 215,8	-1 665,21	-1 981,17	0,23		HYDRO_MWD _SCC_SAG
3 751,0	69,70	232,30	2 226,2	-1 682,54	-2 003,35	0,56		HYDRO_MWD _SCC_SAG
3 779,0	69,60	232,00	2 235,9	-1 698,64	-2 024,08	0,32		HYDRO_MWD _SCC_SAG
3 810,0	69,60	232,00	2 246,7	-1 716,53	-2 046,97	0,00		HYDRO_MWD _SCC_SAG
3 839,0	69,70	232,10	2 256,8	-1 733,25	-2 068,41	0,14		HYDRO_MWD _SCC_SAG
3 867,0	69,80	232,70	2 266,5	-1 749,28	-2 089,23	0,61		HYDRO_MWD _SCC_SAG
3 897,0	69,70	233,00	2 276,9	-1 766,28	-2 111,66	0,30		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 11.07.2000 00:00 - 12.07.2000 00:00

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
3 925,0	69,70	233,50	2 286,6	-1 781,99	-2 132,70	0,50		HYDRO_MWD _SCC_SAG
3 954,0	69,70	233,70	2 296,7	-1 798,13	-2 154,59	0,19		HYDRO_MWD _SCC_SAG
3 983,0	69,90	232,90	2 306,7	-1 814,40	-2 176,41	0,80		HYDRO_MWD _SCC_SAG
4 012,0	69,70	233,20	2 316,7	-1 830,76	-2 198,16	0,36		HYDRO_MWD _SCC_SAG
4 044,0	69,80	232,80	2 327,8	-1 848,82	-2 222,14	0,36		HYDRO_MWD _SCC_SAG
4 072,0	69,80	233,00	2 337,5	-1 864,68	-2 243,10	0,20		HYDRO_MWD _SCC_SAG
4 101,0	67,70	232,60	2 348,0	-1 881,02	-2 264,63	2,21		HYDRO_MWD _SCC_SAG
4 131,0	65,30	232,50	2 359,9	-1 897,74	-2 286,47	2,40		HYDRO_MWD _SCC_SAG
4 160,0	63,00	231,10	2 372,6	-1 913,88	-2 306,98	2,71		HYDRO_MWD _SCC_SAG
4 188,0	63,10	230,40	2 385,3	-1 929,67	-2 326,30	0,68		HYDRO_MWD _SCC_SAG
4 218,0	63,10	230,10	2 398,8	-1 946,78	-2 346,87	0,27		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 11.07.2000 00:00 - 12.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	11.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	3 525,0
Mud weight in/out (g/cm3)	0,00 / 1,50
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	15,00
Excess Lime (kg/m3)	8,88
WPS as chlorides (mg/l)	138,00
Organic clay (kg/m3)	
Electrical stability (V)	630,0
Activity of water	
Solids	
Sand (vol%)	0,4
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	56,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	54,0
Yield point (Pa)	15,0
Gel strength 10s/10m (Pa)	10,0 / 20,5
600 / 300 rpm (lbf/100ft2)	138,0 / 84,0
200 / 100 rpm (lbf/100ft2)	65,0 / 44,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	17,0 / 16,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,7
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 11.07.2000 00:00 - 12.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
11.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,50	270,0	22,0	293,0					192,0		2,0		207,0	
		Running all mud over 200 mesh screens. Running centrifuges in bar														
		Total								51,0		192,0		125,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
11.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,50	/				/	/			Nan	
		Running all mud over 200 mesh screens. Running centrifuges in bar											
		Total											Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")				TFA in2		
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs					
8	12 1/4"	5	ATX437MA	M423	Unknown		402060	3 x 16	3 x 18	1 x 20	0 x 0	1,641		
Run No	Pump		WOB		RPM		Torque		Conn drag					
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN				
8	3 580	197,00	0	1	90	140								
Run No	IADC Dull Grading							Remarks						
	I	O	DC	L	B	G	OC	RP						
8	1	2	WT	S	X	1	CT	TD	RRAB RE-RUNABLE					

7. Geology / Pressure Data

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
3 399,0	2 105,8	3 410,0	2 109,4	Cuttings	Multi coloured Claystone with traces of limestone and tuff								
		Lithology		From %	To %	Properties							
		Claystone				Olive grey to olive black, moderate dark grey, moderate brown, firm, blocky, sub fissile, non-calcareous, micro micaceous, micro pyritic, silty in parts.							
		Limestone				White to yellow brown, firm to moderately hard, blocky, argillaceous, micro crystalline.							
		Tuff				Traces - Light grey to light blue grey, soft to firm, amorphous to blocky, slightly calcareous, black speckling.							
3 410,0	2 109,4	3 524,0	2 148,2	Cuttings	Claystone with traces of limestone and dolomite								
		Lithology		From %	To %	Properties							
		Claystone				Pred dk gry - grysh blk, frm, occ sft, sb blky - blky, r micropyr, slty silty, non-occ calc, tr ls/dol.							

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
3 524,0	2 148,2	1,32		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 11.07.2000 00:00 - 12.07.2000 00:00

7.7 Preliminary Zonation

Code	Group / Formation	Planned		Actual		Difference
		Top m MD	Top m TVD	Top m MD	Top m TVD	
RGSE	Sele Fm			3 410,0	2 109,4	
RGLI	Lista Fm			3 555,0	2 158,8	

7.8 Leak Off Test

Test type: FIT (Surface)	Result: 1,66 g/cm3	Exec date: 11.07.2000	Test cycle no: 1	Ref pressure: 34,00 bar		
Wellbore Depth MD: 3 399,0 m	Wellbore Depth TVD: 2 105,8 m	Casing Depth MD: 3 393,4 m	Casing Depth TVD: m	Press sensor: m		
Vol pumped: 725,0 l	Vol bled back: 535,0 l	Well volume: m3	Fluid compr: l/bar/100m3	Pump rate: l/min		
FIP: bar	FRP: bar	FPP: bar	FCP: bar	LOP/FIT: 31,00 bar		
Mud system: VersaVert (ANCOV)	Mud weight: g/cm3	Sample time: 11.07.2000 12:00	Sample depth MD: 3 525,0 m			
Remarks:						

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 10.07.2000 00:00 - 11.07.2000 00:00

Project No	Section 17 1/2"	Start Time 02.07.2000 04:00	Start Depth MD 1 383,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 22	Days Since Spud 21	Days Ahead/Behind (+/-) Budget: -20,9 Perfect Well: -21,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,32 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	FIT 1,60 g/cm3	Depth MD 1 386,0 m	Depth TVD 1 196,1 m
	Casing Size 13 3/8"	Depth MD 3 393,4 m	Depth TVD m
	TD of Well at 24:00 MD 3 399,0 m	TD of Well at 24:00 TVD 2 105,8 m	Drilled 00:00-24:00 MD 0,0 m
	Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig: R. Adams	Geologist Day
Company Supervisor Night A. Vonheim	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
17 1/2" - Drilling - 02.07.2000 04:00 - 11.07.2000 18:30					
00:00	00:30	0,50	2 783,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Repaired the PS21 slips.
00:30	01:00	0,50	3 355,0	DP	CASING - TRIP TIME ASSOC. WITH CSG/CEMENTING Continued to run in the hole with the cement stinger from 2783 m to 3355 m. Tagged the float at 3356 m.
01:00	02:00	1,00	3 355,0	DP	CASING - TRIP TIME ASSOC. WITH CSG/CEMENTING Established circulation and conditioned the mud. Pressure decreased from 135 to 90 bar, 2300 lpm.
02:00	02:30	0,50	3 355,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Located leakage in popoff valve on drillfloor. Isolated the popoff.
02:30	03:00	0,50	3 355,0	DP	PLUGBACK - SET / TEST CEMENT PLUG Continued to circulate until stable condition. 2300 lpm, 264 bar.
03:00	03:30	0,50	3 355,0	DP	PLUGBACK - SQUEEZE CEMENT Performed injection test. 300 lpm / 43 bar, 1000 lpm / 93 bar. Total 4 m3.
03:30	05:00	1,50	3 353,0	DP	PLUGBACK - SET / TEST CEMENT PLUG Mix and pumped 13 m3 spacer and 27 m3 cement. Displaced the cement with 28 m3. Pumed 1m3 FW and 2 m3 of spacer behind the cement. Displaced with 2300 lpm, max 240 bar, 25 rpm , 14 kNm..
05:00	06:00	1,00	2 930,0	DP	PLUGBACK - SET / TEST CEMENT PLUG Pulled out of the cement to 2930 m.
06:00	06:30	0,50	2 930,0	DP	PLUGBACK - SQUEEZE CEMENT Closed the annular and squeezed 19 m3 of cement around the 13 3/8" casing shoe. Max : 2300 lpm, pressure increased from 65 to 77 bar. 8 m3 of cement left in the casing.
06:30	08:00	1,50	2 930,0	DP	PLUGBACK - SET / TEST CEMENT PLUG Dropped the dart and circulated bottom up. 2450 lpm, 275 bar.
08:00	12:00	4,00	0,0	DP	CASING - TRIP TIME ASSOC. WITH CSG/CEMENTING Pulled out of the hole with the cement stinger from 2930 m.

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 10.07.2000 00:00 - 11.07.2000 00:00

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description			
12:00	14:00	2,00	0,0	DP	U	DRILLING - DRILLING OTHER TIME, OK Changed saver sub and prepared to pick up 5 1/2" DP from deck.		
14:00	23:00	9,00	0,0	DP	U	DRILLING - DRILLING OTHER TIME, OK Picked up 5 1/2" DP and racked in the derric. 177 jnts.		
23:00	00:00	1,00	0,0	DP	U	DRILLING - Handling of BHA Made up the 12 1/4" bottom hole assembly. Picked up the Autotrac /PDC bit and the MWD.		

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation		
10.07.2000 01:00	02:00	U	CASING - TRIP TIME ASSOC. WITH CSG/CEMENTING	Established circulation and conditioned the mud. Pressure decreased from 135 to 90 bar, 2300 lpm.
Report status: Completed	Finish Date	Total Down Time 0,5 hrs	Service RIG	Failure Code E33 - Imported from Bore
Equipment Type Popoff	Trade Name Popoff	Manufacturer Maritime Hydraulics	Serial no	Equipment Part Popoff
Synergi no	Description			
Hazard	Located leakage on popoff valve on drillfloor.			
Company	Service	Description	Downtime %	
Odfjell Drilling AS	RIG	Rig Operations	100	

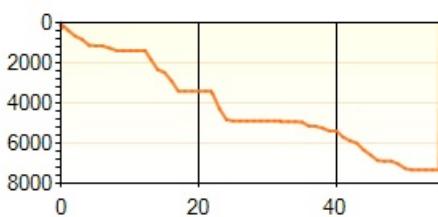
3.1 General Remarks

POB: NH-4,ODM-36,BJ-3,ADF-2,BHI-11, BOT-2, SPS-6

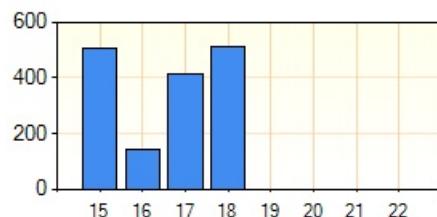
3.3 KPI

Drilling

Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	23,00	1,00	0,00	24,00	0,00	95,8	0,0	0,0 m/day
Rushmore m/day (for project)	449,50	56,00	0,00	505,50	0,00	88,9	3 232,0	153,4 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/505,5	0,0/0,0	0,0/0,0	505,5	0,0/0,0	100,0	21,1

Section	00:00 - 24:00	Avg. section
Fluid adherence	17 1/2"	0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
3 349,0	71,60	231,10	2 089,9	-1 442,98	-1 710,78	0,29		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 10.07.2000 00:00 - 11.07.2000 00:00

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
3 378,0	71,90	230,90	2 098,9	-1 460,31	-1 732,19	0,37		HYDRO_MWD_SCC_SAG
3 429,0	69,90	231,00	2 115,6	-1 490,67	-1 769,61	1,18		HYDRO_MWD_SCC_SAG
3 459,0	69,90	230,40	2 125,9	-1 508,51	-1 791,41	0,56		HYDRO_MWD_SCC_SAG

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	10.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	3 399,0
Mud weight in/out (g/cm3)	0,00 / 1,50
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	13,00
Excess Lime (kg/m3)	5,92
WPS as chlorides (mg/l)	173,00
Organic clay (kg/m3)	
Electrical stability (V)	630,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	58,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	51,0
Yield point (Pa)	13,0
Gel strength 10s/10m (Pa)	10,0 / 15,0
600 / 300 rpm (lbf/100ft2)	128,0 / 77,0
200 / 100 rpm (lbf/100ft2)	55,0 / 37,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	16,0 / 15,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,9
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 10.07.2000 00:00 - 11.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
10.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,50	473,0	7,0	312,0	1,0							7,0		7,0
		Run centrifuge as necessary to maintain mud weight.														
		Total								51,0				123,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
10.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,50	/			/	/				Nan	
		Run centrifuge as necessary to maintain mud weight.											
		Total											Nan

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
3 399,0	2 105,8	1,32		

13. Cementing

13.4 Cementing Volumes

Observation time	Section	Fluid system	Density g/cm3	Total volume mixed m3	Backloaded m3	Lost to slop m3	Acc spill to sea m3	Discharged to sea m3
10.07.2000 03:06	17 1/2"	MCS-G Spacer (Import only)	1,71	15,0				
		0 0 0 0 0						
10.07.2000 03:07	17 1/2"	Lead (Import only)	1,95	27,0				
		0 0 0 0 0						
10.07.2000 03:08	17 1/2"	MCS-G Spacer (Import only)	1,71	2,0				
		0 0 0 0 0						

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 09.07.2000 00:00 - 10.07.2000 00:00

Project No	Section 17 1/2"	Start Time 02.07.2000 04:00	Start Depth MD 1 383,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 21	Days Since Spud 20	Days Ahead/Behind (+/-) Budget: -19,9 Perfect Well: -20,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,32 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	FIT 1,60 g/cm3	Depth MD 1 386,0 m	Depth TVD 1 196,1 m
	Casing Size 13 3/8"	Depth MD 3 393,4 m	Depth TVD m
	TD of Well at 24:00 MD 3 399,0 m	TD of Well at 24:00 TVD 2 105,8 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig: R. Adams	Geologist Day	
Company Supervisor Night A. Vonheim	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description	
17 1/2" - Drilling - 02.07.2000 04:00 - 11.07.2000 18:30						
00:00	06:00	6,00	3 394,0	DP	U	CASING - RUN CASING Continued to run in the hole with the 13 3/8" casing from 1910 m to 3394 m. Tight hole at 2390 m, 30 ton. Steady mudloss equal to steel displacement. Lost returns completely from 3070 m. Total mud loss 40 m3.
06:00	12:00	6,00	3 394,0	DP	U	CASING - RUN CASING Continued to run in the hole with the 13 3/8" casing from 1910 m to 3394 m. Tight hole at 2390 m, 30 ton. Steady mudloss equal to steel displacement. Lost returns completely from 3070 m. Total mud loss 40 m3.
12:00	13:30	1,50	3 394,0	DP	U	CASING - RUN CASING Attempted to establish circulation. 300 lpm, 20 bar. Lost 4,8 m3.
13:30	14:30	1,00	3 394,0	DP	U	CASING - RUN CASING Laid down the 13 3/8" running string.
14:30	16:00	1,50	0,0	DP	U	CASING - RUN CASING Rigged down the casing handling equipment.
16:00	17:30	1,50	0,0	DP	U	BOP - RUN/PULL WEARBUSHING Washed the wellhead and drained the riser.
17:30	19:30	2,00	0,0	DP	U	BOP - RUN/PULL WEARBUSHING Installed and pressure tested the packoff.
19:30	20:00	0,50	29,0	DP	U	BOP - RUN/PULL WEARBUSHING Installed the wearbushing.
20:00	00:00	4,00	2 783,0	DP	U	CASING - TRIP TIME ASSOC. WITH CSG/CEMENTING Ran in the hole with the cement stinger to 2783 m.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 09.07.2000 00:00 - 10.07.2000 00:00

3.0.1 Incidents

Start Date/Time		End Date/Time		Activity Code / Aborted Operation							
09.07.2000 20:00	00:00	U	CASING - TRIP TIME ASSOC. WITH CSG/CEMENTING	Ran in the hole with the cement stinger to 2783 m.							
Report status: Completed		Finish Date		Total Down Time 0,5 hrs	Service RIG	Failure Code E33 - Imported from Bore					
Equipment Type PS21 slips		Trade Name PS21 slips		Manufacturer Maritime Hydraulics	Serial no	Equipment Part PS21 slips					
Synergi no	Description										
Hazard	Repaired the PS21 slips.										
Company		Service	Description			Downtime %					
Odfjell Drilling AS		RIG	Rig Operations			100					

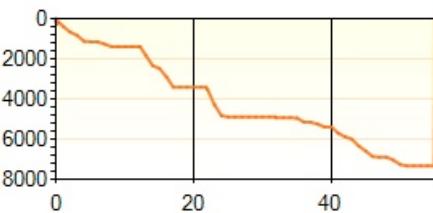
3.1 General Remarks

POB: NH-2,ODM-36,BJ-3,ADF-2,BHI-11, OWS-1, KOS-1.

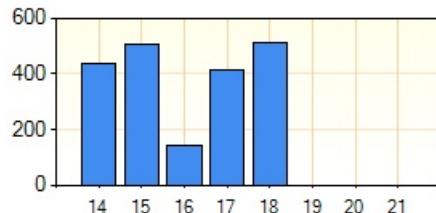
3.3 KPI

Drilling

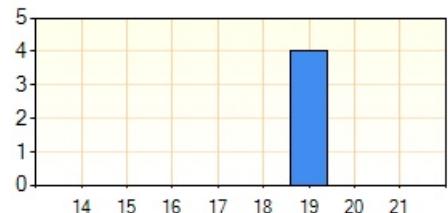
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	0,0	0,0 m/day
Rushmore m/day (for project)	426,50	55,00	0,00	481,50	0,00	88,6	3 232,0	161,1 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/481,5	0,0/0,0	0,0/0,0	481,5	0,0/0,0	100,0	20,1

Section	00:00 - 24:00	Avg. section
Fluid adherence	17 1/2"	0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 09.07.2000 00:00 - 10.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	09.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	3 399,0
Mud weight in/out (g/cm3)	0,00 / 1,55
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	18,00
Excess Lime (kg/m3)	7,40
WPS as chlorides (mg/l)	173,00
Organic clay (kg/m3)	
Electrical stability (V)	910,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	57,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	55,0
Yield point (Pa)	18,0
Gel strength 10s/10m (Pa)	14,0 / 24,0
600 / 300 rpm (lbf/100ft2)	146,0 / 91,0
200 / 100 rpm (lbf/100ft2)	71,0 / 48,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	20,0 / 18,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,4
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 09.07.2000 00:00 - 10.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
09.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,55	478,0	5,0	321,0				51,0						51,0
		Use centrifuge #1 as necessary to control mud density.														
		Total								51,0				116,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
09.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,55	/			/	/				Nan	
		Use centrifuge #1 as necessary to control mud density.											
		Total											Nan

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
3 399,0	2 105,8	1,32		

12. Casing

Category/String type			Diameters		RKB hanger m MD	Air gap m MD	From depth m MD	To depth m MD	Date	Description		Tally
Casing, Intermediate			13 3/8"			58,0	29,4	3 393,4	09.07.2000			
Item type			No. of joints	Diameter inch	Grade	Coupling	Weight lbs/ft	From depth m MD	To depth m MD	To depth m TVD	Remarks	
Casing			293	13 3/8"	P-110	NSCC	72,000	29,4	3 393,4		INT	

13. Cementing

13.1 Plugging

Plug top MD: 3 092,0 m	Plug bottom MD: 3 354,0 m	Company:	Plug no: 0	Plug type: CASING	Job objective:
Measured plug top MD: 3 290,0 m	Measured by:	Hole size: 17 1/2"	Casing size: 13 3/8"		Placement method:

Remarks

API CLASS G - 0 0 0 0 0

Fluids pumped	Type	Density g/cm3	Volume m3	Pump rate l/min	Pump pressure bar	Loss prior to cement job m3	Loss during cement job m3
Slurry	See description for fluid info	1,95	27,0	900	0,00		
Spacer after	See description for fluid info	1,71	2,0	667	0,00		
Displacement	See description for fluid info	1,55	0,0	1 900	0,00		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 08.07.2000 00:00 - 09.07.2000 00:00

Project No	Section 17 1/2"	Start Time 02.07.2000 04:00	Start Depth MD 1 383,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 20	Days Since Spud 19	Days Ahead/Behind (+/-) Budget: -18,9 Perfect Well: -19,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,32 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	FIT 1,60 g/cm3	Depth MD 1 386,0 m	Depth TVD 1 196,1 m
	Casing Size 18 5/8"	Depth MD 1 377,7 m	Depth TVD m
	TD of Well at 24:00 MD 3 399,0 m	TD of Well at 24:00 TVD 2 105,8 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig: R. Adams	Geologist Day	
Company Supervisor Night A. Vonheim	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
17 1/2" - Drilling - 02.07.2000 04:00 - 11.07.2000 18:30					
00:00	02:00	2,00	0,0	DP	U DRILLING - Handling of BHA Laid down the bottom hole assembly.
02:00	04:00	2,00	29,0	DP	U BOP - RUN/PULL WEARBUSHING Retrieved the wear bushing and washed the wellhead. Installed the casing tong carrier.
04:00	06:00	2,00	0,0	DP	U CASING - RUN CASING Prepeared to run casing. Changed to 500 ton bails, removed torque wrench, install BX-elevator and PS-21 slips. Held safety meeting.
06:00	18:00	12,00	1 372,0	DP	U CASING - RUN CASING Run in the hole with the 13 3/8" casing to 1372 m. Made up cementhead x-over to pup joint and L/D.
18:00	20:00	2,00	1 372,0	DP	U CASING - RUN CASING Circulated prior to run into the open hole.
20:00	00:00	4,00	1 910,0	DP	U CASING - RUN CASING Continued to run in the hole with the 13 3/8" casing from 1372 m to 1910 m. Steady mud loss, equal to steel displacement, total 4 m3.

3.1 General Remarks

POB: NH-2,ODM-36,BJ-3,ADF-2,BHI-10, OWS-4, KOS-2.

3.3 KPI

Drilling

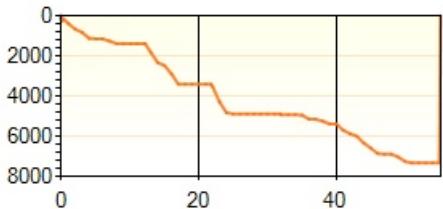
Daily Drilling Report

OSEBERG B

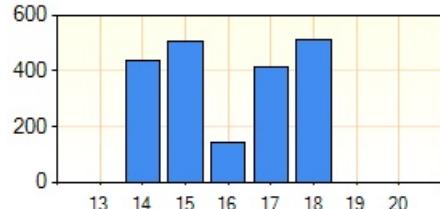
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 08.07.2000 00:00 - 09.07.2000 00:00

Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	0,0	0,0 m/day
Rushmore m/day (for project)	402,50	55,00	0,00	457,50	0,00	88,0	3 232,0	169,5 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/457,5	0,0/0,0	0,0/0,0	457,5	0,0/0,0	100,0	19,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	17 1/2"		0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 08.07.2000 00:00 - 09.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	08.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	3 399,0
Mud weight in/out (g/cm3)	0,00 / 1,56
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	16,50
Excess Lime (kg/m3)	7,03
WPS as chlorides (mg/l)	186,00
Organic clay (kg/m3)	
Electrical stability (V)	810,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	58,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	49,0
Yield point (Pa)	16,5
Gel strength 10s/10m (Pa)	12,5 / 22,0
600 / 300 rpm (lbf/100ft2)	131,0 / 82,0
200 / 100 rpm (lbf/100ft2)	64,0 / 44,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	19,0 / 17,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,1
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 08.07.2000 00:00 - 09.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
08.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,56	506,0		316,0								10,0		25,0
		Run centrifuge as necessary to reduce density of cold mud from ho														
		Total												116,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
08.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,56	/			/	/				Nan	
		Run centrifuge as necessary to reduce density of cold mud from ho											
		Total											Nan

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
3 399,0	2 105,8	1,32		

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 07.07.2000 00:00 - 08.07.2000 00:00

Project No	Section 17 1/2"	Start Time 02.07.2000 04:00	Start Depth MD 1 383,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 19	Days Since Spud 18	Days Ahead/Behind (+/-) Budget: -18,0 Perfect Well: -18,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,32 g/cm3	Depth MD 3 399,0 m	Depth TVD 2 105,8 m
	FIT 1,60 g/cm3	Depth MD 1 386,0 m	Depth TVD 1 196,1 m
	Casing Size 18 5/8"	Depth MD 1 377,7 m	Depth TVD m
	TD of Well at 24:00 MD 3 399,0 m	TD of Well at 24:00 TVD 2 105,8 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig: R. Adams	Geologist Day	
Company Supervisor Night A. Vonheim	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
17 1/2" - Drilling - 02.07.2000 04:00 - 11.07.2000 18:30					
00:00	03:30	3,50	3 399,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Continued to circulate the hole clean. 4480 lpm, 280 bar, 120 rpm. Circulated 3 times bottoms up.
03:30	04:00	0,50	3 399,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Circulated with reduced pumprate due to failure on mud pump 2. 3500 lpm. Changed valve on mud pump 2. Not able to pump with the cement unit, due to leak on hydraulic hose on the cement unit.
04:00	05:30	1,50	3 399,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Continued to circulate the hole clean. Reduction in cuttings after the 2nd highweight pill.
05:30	06:00	0,50	3 399,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Condition the mud prior to pull out of the hole to run casing.
06:00	10:30	4,50	3 399,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Condition the mud prior to pull out of the hole to run casing.
10:30	14:00	3,50	3 399,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (O FAIL) Mudweight out of the hole decreased from 1.55 sg to 1.47 sg. Continued to circulate until stable 1.55 sg mudweight in and out. Mudweight in was measured on the wrong location, when diluting the system.
14:00	20:00	6,00	1 351,0	DP	DRILLING - Run in and POOH with BHA Pulled out of the hole from 3399 m to 1351 m. Tight spot at 2477 m and 1690 m. Max overpull 25 ton.
20:00	21:00	1,00	1 351,0	DP	DRILLING - DRILLING OTHER TIME, OK Slipped the drill line. Maintained the DDM.
21:00	00:00	3,00	103,0	DP	DRILLING - Run in and POOH with BHA Pulled out of the hole from 1351 m to 103 m. L/D the jar.

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 07.07.2000 00:00 - 08.07.2000 00:00

3.0.1 Incidents

Start Date/Time		End Date/Time		Activity Code / Aborted Operation							
07.07.2000 00:00	03:30	U	DRILLING - ROUTINE HOLE CIRC/COND	Continued to circulate the hole clean. 4480 lpm, 280 bar, 120 rpm. Circulated 3 times bottoms up.							
Report status: Completed		Finish Date		Total Down Time 0,5 hrs	Service RIG	Failure Code E325 - Imported from Bore					
Equipment Type Mudpump		Trade Name Mudpump		Manufacturer Continental emsco	Serial no	Equipment Part Mudpump					
Synergi no	Description										
Hazard	Circulated with reduced pumprate due to failure on mud pump 2.										
Company		Service	Description			Downtime %					
Odfjell Drilling AS		RIG	Rig Operations			100					

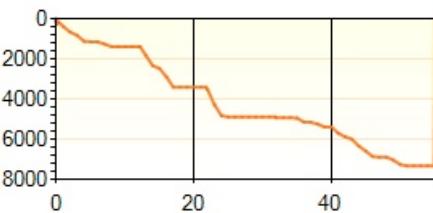
3.1 General Remarks

POB: NH-2,ODM-36,BJ-3,ADF-2,BHI-9, OWS-4, KOS-2.

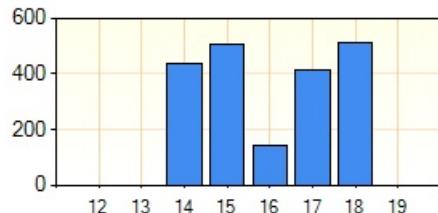
3.3 KPI

Drilling

Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	20,00	4,00	0,00	24,00	0,00	83,3	0,0	0,0 m/day
Rushmore m/day (for project)	378,50	55,00	0,00	433,50	0,00	87,3	3 232,0	178,9 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/433,5	0,0/0,0	0,0/0,0	433,5	0,0/0,0	100,0	18,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	17 1/2"		0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 07.07.2000 00:00 - 08.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	07.07.2000 14:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	3 399,0
Mud weight in/out (g/cm3)	0,00 / 1,56
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	18,00
Excess Lime (kg/m3)	6,66
WPS as chlorides (mg/l)	181,00
Organic clay (kg/m3)	
Electrical stability (V)	830,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	57,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	58,0
Yield point (Pa)	18,0
Gel strength 10s/10m (Pa)	12,5 / 22,5
600 / 300 rpm (lbf/100ft2)	152,0 / 94,0
200 / 100 rpm (lbf/100ft2)	74,0 / 49,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	19,0 / 18,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,0
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 07.07.2000 00:00 - 08.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
07.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,56	527,0	26,0	159,0								11,0		48,0
		Ran as fine screens as possible. Ran centrifuges in baryte recove														
		Total												106,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
07.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,56	/			/	/				NaN
		Ran as fine screens as possible. Ran centrifuges in baryte recove										
		Total										NaN

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
3 399,0	2 105,8	1,32		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 06.07.2000 00:00 - 07.07.2000 00:00

Project No	Section	Start Time	Start Depth MD	Primary Conveyance	Well Classification
	17 1/2"	02.07.2000 04:00	1 383,0 m	DP	OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number	18	Days Since Spud	17	Days Ahead/Behind (+/-)
	Budget:	-17,0	Perfect Well:	-17,1	WOW: 0,0
	Mud weight	g/cm3	BOP Pressure Rating	280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max	1,32 g/cm3	Depth MD	3 399,0 m	Depth TVD
	FIT	1,60 g/cm3	Depth MD	1 386,0 m	Depth TVD
	Casing Size	18 5/8"	Depth MD	1 377,7 m	Depth TVD
	TD of Well at 24:00 MD	3 399,0 m	TD of Well at 24:00 TVD	2 105,8 m	Drilled 00:00-24:00 MD 512,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig: R. Adams				Geologist Day
Company Supervisor Night A. Vonheim	Company Engineer Night				Geologist Night
Operator Norsk Hydro					Contractor ODB

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
17 1/2" - Drilling - 02.07.2000 04:00 - 11.07.2000 18:30					
00:00	03:00	3,00	2 936,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill and orient 17 1/2" hole from 2887 m to 2936 m.
03:00	03:30	0,50	2 936,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Circulated the pill out of the hole.
03:30	06:00	2,50	3 399,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill and orient 17 1/2" hole from 2936 m to 3399 m. 4480 lpm, 280-275 bar, 110-120 rpm, 32 kNm, 6-15 ton WOB, ECD 1.57 sg. Pumped 8 m3 1.80 sg pill every 3rd std.
06:00	21:00	15,00	3 399,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill and orient 17 1/2" hole from 2936 m to 3399 m. 4480 lpm, 280-275 bar, 110-120 rpm, 32 kNm, 6-15 ton WOB, ECD 1.57 sg. Pumped 8 m3 1.80 sg pill every 3rd std.
21:00	00:00	3,00	3 399,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Circulated the hole clean. 4480 lpm, 280 bar, 120 rpm, ECD 1.56 sg.

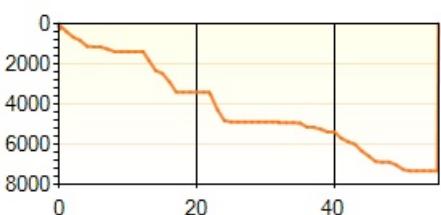
3.1 General Remarks

POB: NH-2,ODM-40,BJ-5,ADF-2,BHI-9, OWS-2, KOS-1.

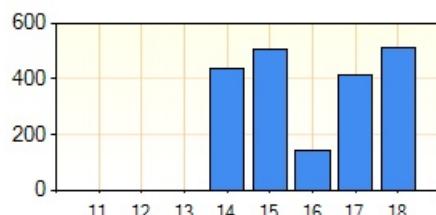
3.3 KPI

Drilling

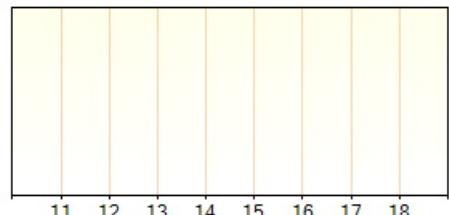
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 06.07.2000 00:00 - 07.07.2000 00:00

	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	512,0	512,0 m/day
Rushmore m/day (for project)	358,50	51,00	0,00	409,50	0,00	87,5	3 232,0	189,4 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/409,5	0,0/0,0	0,0/0,0	409,5	0,0/0,0	100,0	17,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	17 1/2"	0 m3/m3	0 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 06.07.2000 00:00 - 07.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	06.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	3 363,0
Mud weight in/out (g/cm3)	0,00 / 1,55
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	24,00
Excess Lime (kg/m3)	8,88
WPS as chlorides (mg/l)	173,00
Organic clay (kg/m3)	
Electrical stability (V)	820,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	57,5
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	58,0
Yield point (Pa)	24,0
Gel strength 10s/10m (Pa)	17,0 / 27,5
600 / 300 rpm (lbf/100ft2)	164,0 / 106,0
200 / 100 rpm (lbf/100ft2)	85,0 / 60,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	27,0 / 24,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,1
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 06.07.2000 00:00 - 07.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
06.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,55	510,0	108,0	195,0								18,0		68,0
		Running 200 mesh screens on all electric shakers. Running centrif														
		Total												95,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %				
06.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,55	/				/	/				Nan			
		Running 200 mesh screens on all electric shakers. Running centrif														
		Total														Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")			TFA in2	
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs			
7	17 1/2"	4	LA270BXHG		Unknown		2523	6 x 18	0 x 0	0 x 0	0 x 0	1,491
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m/hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs			
	in m	out m					0	0,0				
Run No	Pump		WOB		RPM		Torque		Conn drag			
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN		
7	3 735	204,00	0	2	95	222						
Run No	IADC Dull Grading							Remarks				
	I	O	DC	L	B	G	OC	RP				
7	1	1	CT	A	X	I	BT	TD	RRAB RE-RUNABLE			

7. Geology / Pressure Data

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
2 886,0	1 939,7	3 130,0	2 019,8	Cuttings	Claystone								
		Lithology		From %	To %	Properties							
		Claystone				Light to medium greenish grey, dark green, occasionally light brown, soft to firm, occasionally hard, blocky, silty, non calcareous, micro pyritic. tr ls							
3 130,0	2 019,8	3 176,0	2 034,3	Cuttings	Brown Claystone								
		Lithology		From %	To %	Properties							
		Claystone				Olive grey to olive black, predominantly grey brown - moderate brown, occasionally green grey, firm to moderately hard, micro pyritic, micro micaceous, traces of limestone.							
3 176,0	2 034,3	3 399,0	2 105,8	Cuttings	Multi coloured Claystone with traces of limestone and tuff								
		Lithology		From %	To %	Properties							
		Limestone				White to yellow brown, firm to moderately hard, blocky, argillaceous, micro crystalline.							
		Tuff				Traces - Light grey to light blue grey, soft to firm, amorphous to blocky, slightly calcareous, black speckling.							
		Claystone				Olive grey to olive black, moderate dark grey, moderate brown, firm, blocky, sub fissile, non-calcareous, micro micaceous, micro pyritic, silty in parts.							

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 06.07.2000 00:00 - 07.07.2000 00:00

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
3 399,0	2 105,8	1,32		

7.7 Preliminary Zonation

Code	Group / Formation	Planned		Actual		Difference
		Top m MD	Top m TVD	Top m MD	Top m TVD	
RGBA	Balder Fm .			3 176,0	2 034,3	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 05.07.2000 00:00 - 06.07.2000 00:00

Project No	Section	Start Time	Start Depth MD	Primary Conveyance	Well Classification
	17 1/2"	02.07.2000 04:00	1 383,0 m	DP	OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number	17	Days Since Spud	16	Days Ahead/Behind (+/-)
	Budget:	-16,0	Perfect Well:	-16,1	WOW: 0,0
	Mud weight	g/cm3	BOP Pressure Rating	280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max	1,20 g/cm3	Depth MD	2 887,0 m	Depth TVD 1 940,1 m
	FIT	1,60 g/cm3	Depth MD	1 386,0 m	Depth TVD 1 196,1 m
	Casing Size	18 5/8"	Depth MD	1 377,7 m	Depth TVD m
	TD of Well at 24:00 MD	2 887,0 m	TD of Well at 24:00 TVD	1 940,1 m	Drilled 00:00-24:00 MD 413,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig: R. Adams		Geologist Day		
Company Supervisor Night A. Vonheim	Company Engineer Night		Geologist Night		
Operator Norsk Hydro			Contractor ODB		

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
17 1/2" - Drilling - 02.07.2000 04:00 - 11.07.2000 18:30					
00:00	02:00	2,00	112,0	DP	DRILLING - Handling of BHA Made up new 17 1/2" bit and motor.
02:00	04:30	2,50	1 350,0	DP	DRILLING - Run in and POOH with BHA Run in the hole to 1350 m.
04:30	06:00	1,50	2 474,0	DP	DRILLING - Run in and POOH with BHA Continued to run in the hole from 1350 m to 2474 m. Tested the MWD at 1000 m. Washed down the last stand.
06:00	08:00	2,00	2 474,0	DP	DRILLING - Run in and POOH with BHA Continued to run in the hole from 1350 m to 2474 m. Tested the MWD at 1000 m. Washed down the last stand.
08:00	00:00	16,00	2 887,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented 17 1/2" hole from 2474 m to 2887 m. 4500-4460 lpm, 288-275 bar, 120 rpm, 30 kNm, 4-7 ton WOB, ECD 1.58-1.59 sg. Pumped 8 m3 1.80 sg pill every 3rd std.

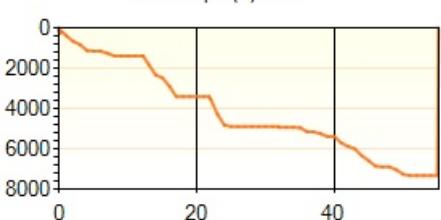
3.1 General Remarks

POB: NH-2,ODM-41,BJ-5,ADF-2,BHI-8.

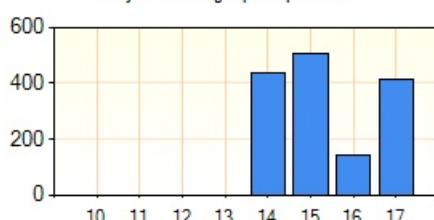
3.3 KPI

Drilling

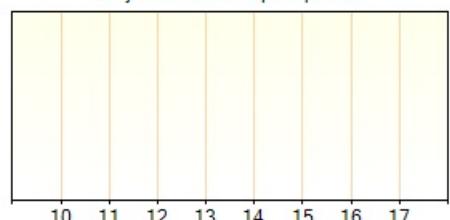
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 05.07.2000 00:00 - 06.07.2000 00:00

	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	413,0	413,0 m/day
Rushmore m/day (for project)	334,50	51,00	0,00	385,50	0,00	86,8	2 720,0	169,3 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/385,5	0,0/0,0	0,0/0,0	385,5	0,0/0,0	100,0	16,1
		Section		00:00 - 24:00		Avg. section		
Fluid adherence		17 1/2"		0 m3/m3		0 m3/m3		

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
 Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
2 858,0	66,70	229,50	1 929,2	-1 144,18	-1 355,98	2,48		HYDRO_MWD_SCC_SAG
2 887,0	69,40	228,80	1 940,1	-1 161,78	-1 376,33	2,87		HYDRO_MWD_SCC_SAG
2 916,0	69,80	228,90	1 950,2	-1 179,66	-1 396,79	0,43		HYDRO_MWD_SCC_SAG
2 945,0	69,80	229,30	1 960,2	-1 197,48	-1 417,37	0,39		HYDRO_MWD_SCC_SAG
2 974,0	70,50	229,40	1 970,1	-1 215,25	-1 438,06	0,73		HYDRO_MWD_SCC_SAG
3 002,0	71,30	228,70	1 979,2	-1 232,59	-1 458,04	1,11		HYDRO_MWD_SCC_SAG
3 030,0	71,50	228,90	1 988,1	-1 250,07	-1 478,01	0,30		HYDRO_MWD_SCC_SAG
3 059,0	71,50	229,20	1 997,3	-1 268,10	-1 498,78	0,29		HYDRO_MWD_SCC_SAG
3 088,0	71,50	229,60	2 006,6	-1 285,99	-1 519,66	0,39		HYDRO_MWD_SCC_SAG
3 117,0	71,60	230,10	2 015,7	-1 303,73	-1 540,69	0,50		HYDRO_MWD_SCC_SAG
3 146,0	71,60	229,60	2 024,9	-1 321,47	-1 561,72	0,49		HYDRO_MWD_SCC_SAG
3 176,0	71,60	230,20	2 034,4	-1 339,81	-1 583,50	0,57		HYDRO_MWD_SCC_SAG
3 205,0	71,50	230,30	2 043,5	-1 357,40	-1 604,65	0,14		HYDRO_MWD_SCC_SAG
3 233,0	70,90	230,80	2 052,6	-1 374,24	-1 625,12	0,82		HYDRO_MWD_SCC_SAG
3 263,0	71,00	231,50	2 062,3	-1 392,03	-1 647,20	0,67		HYDRO_MWD_SCC_SAG
3 291,0	71,30	231,70	2 071,4	-1 408,49	-1 667,97	0,38		HYDRO_MWD_SCC_SAG
3 320,0	71,40	230,90	2 080,7	-1 425,67	-1 689,41	0,79		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 05.07.2000 00:00 - 06.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based		
Sample time	05.07.2000 12:00	05.07.2000 19:50
Fluid system	VersaVert (ANCOV)	VersaVert (ANCOV)
Sample point		
Sample depth (mMD)	2 886,0	2 886,0
Mud weight in/out (g/cm3)	0,00 / 1,55	0,00 / 1,55
Temp in/out (degC)	/ 50,0	/ 50,0
Funnel visc (s/l)		
H2S (ppm)		
Calcium (mg/l)		
Excess Gypsum (kg/m3)	20,00	20,00
Excess Lime (kg/m3)	8,88	8,88
WPS as chlorides (mg/l)	177,00	177,00
Organic clay (kg/m3)		
Electrical stability (V)	760,0	760,0
Activity of water		
Solids		
Sand (vol%)	0,6	0,6
Silicate (kg/m3)		
Water (vol%)		
Oil (vol%)	58,0	58,0
Glycol (vol%)		
Lubricant (vol%)		
Solids (vol%)		
Corrected solids (vol%)		
Oil Water ratio		
Low gravity solids (kg/m3)		
High gravity solids (kg/m3)		
Viscometer tests		
Plastic visc (mPa.s)		53,0
Yield point (Pa)		20,0
Gel strength 10s/10m (Pa)	12,5 / 21,5	12,5 / 21,5
600 / 300 rpm (lbf/100ft2)	0,0 / 0,0	146,0 / 93,0
200 / 100 rpm (lbf/100ft2)	0,0 / 0,0	71,0 / 48,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	0,0 / 0,0	22,0 / 20,0
Test temp (degC)		
Filtration tests		
Fluid loss API (ml)		
Cake thickn API (mm)		
Fluid loss HPHT (ml)	4,0	4,0
Cake thickn HPHT (mm)	1,0	1,0
Test temp HPHT (degC)	120,0	120,0
Fluid loss Disc (ml)		
Spurt loss Disc (ml)		
Test temp Disc (degC)		
Test press Disc (bar)		
Disc pore size (Micron)		
Sag tests		
Dynamic duration (hrs)		
Dynamic temp (degC)		
Dynamic delta density (g/cm3)		
Static duration (hrs)		
Static temp (degC)		
Static delta density (g/cm3)		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 05.07.2000 00:00 - 06.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
05.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,55	433,0	17,0	249,0								14,0		53,0
		Running centrifuges in baryte recovery mode.														
		Total												77,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
05.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,55	/				/	/			
		Running centrifuges in baryte recovery mode.										
		Total										

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")			TFA in2
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs		
7	17 1/2"	4	LA270BXHG		Unknown		2523	6 x 18	0 x 0	0 x 0	0 x 0
<hr/>											
<hr/>											
Run No	Pump		WOB		RPM		Torque		Conn drag		
Run No	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN	
7	3 933	204,00	0	2	66	227					
<hr/>											
<hr/>											
Run No	IADC Dull Grading						Remarks				
7	1	1	CT	A	X	I	BT	TD	RRAB	RE-RUNABLE	

7. Geology / Pressure Data

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
2 474,0	1 747,7	2 886,0	1 939,7	Cuttings	Claystone								
		Lithology		From %	To %	Properties							
		Claystone				Light to medium greenish grey, dark green, occasionally light brown, soft to firm, occasionally hard, blocky, silty, non calcareous, micro pyritic.							

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
2 887,0	1 940,1	1,20		

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 04.07.2000 00:00 - 05.07.2000 00:00

Project No	Section 17 1/2"	Start Time 02.07.2000 04:00	Start Depth MD 1 383,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 16	Days Since Spud 15	Days Ahead/Behind (+/-) Budget: -15,0 Perfect Well: -15,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,13 g/cm3	Depth MD 2 474,0 m	Depth TVD 1 747,7 m
	FIT 1,60 g/cm3	Depth MD 1 386,0 m	Depth TVD 1 196,1 m
	Casing Size 18 5/8"	Depth MD 1 377,7 m	Depth TVD m
	TD of Well at 24:00 MD 2 474,0 m	TD of Well at 24:00 TVD 1 747,7 m	Drilled 00:00-24:00 MD 144,0 m
	Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig: Radams	Geologist Day
Company Supervisor Night T.Helgøy	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description	
17 1/2" - Drilling - 02.07.2000 04:00 - 11.07.2000 18:30						
00:00	06:00	6,00	2 330,0	DP	U	DRILLING - ROUTINE HOLE CIRC/COND Circulated to increase the mud weight to 1.55 s.g. prior to drilling the green clay. Had 250% increase in the returns when pill at surface. Had traces of the green clay in the returns. A lot of cuttings and cavings in the returns. Sat back one stand in the derrick after every 2 hrs of circulating.
06:00	07:00	1,00	2 330,0	DP	U	DRILLING - ROUTINE HOLE CIRC/COND Circulated to increase the mud weight to 1.55 s.g. prior to drilling the green clay. Had 250% increase in the returns when pill at surface. Had traces of the green clay in the returns. A lot of cuttings and cavings in the returns. Sat back one stand in the derrick after every 2 hrs of circulating.
07:00	14:00	7,00	2 474,0	DP	U	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 17 1/2" hole from 2330m to 2474m. Had problems building angle in sliding and rotary mode.
14:00	17:00	3,00	2 474,0	DP	U	DRILLING - ROUTINE HOLE CIRC/COND Pumped a high weight pill and circulated to clean the hole.
17:00	00:00	7,00	0,0	DP	U	DRILLING - Run in and POOH with BHA Pulled out of the hole and laid down the jar, motor and the 17 1/2" bit. Pulled out of the hole due to problems with steering . The motor stabilizer was under gauge.

3.1 General Remarks

POB: NH-2,ODM-38,BJ-3,ADF-2,BHI-8.

3.3 KPI

Drilling

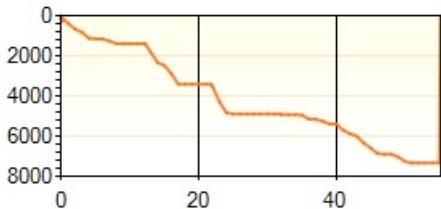
Daily Drilling Report

OSEBERG B

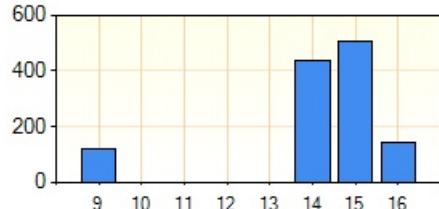
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 04.07.2000 00:00 - 05.07.2000 00:00

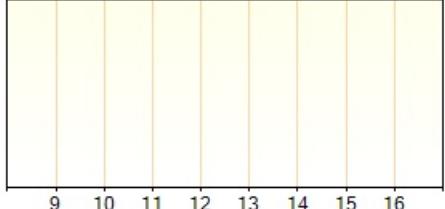
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	144,0	144,0 m/day
Rushmore m/day (for project)	310,50	51,00	0,00	361,50	0,00	85,9	2 307,0	153,2 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/361,5	0,0/0,0	0,0/0,0	361,5	0,0/0,0	100,0	15,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	17 1/2"	0 m3/m3	0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
 Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
2 424,0	59,40	228,50	1 722,5	-893,95	-1 068,09	0,28		HYDRO_MWD_SCC_SAG
2 453,0	59,80	228,10	1 737,2	-910,59	-1 086,77	0,55		HYDRO_MWD_SCC_SAG
2 482,0	60,50	227,90	1 751,7	-927,42	-1 105,46	0,75		HYDRO_MWD_SCC_SAG
2 510,0	61,00	228,00	1 765,3	-943,79	-1 123,60	0,54		HYDRO_MWD_SCC_SAG
2 540,0	61,00	228,40	1 779,9	-961,28	-1 143,16	0,35		HYDRO_MWD_SCC_SAG
2 569,0	60,80	228,80	1 794,0	-978,03	-1 162,17	0,42		HYDRO_MWD_SCC_SAG
2 598,0	60,70	228,90	1 808,2	-994,68	-1 181,22	0,14		HYDRO_MWD_SCC_SAG
2 627,0	61,20	228,40	1 822,2	-1 011,43	-1 200,25	0,69		HYDRO_MWD_SCC_SAG
2 656,0	61,70	229,00	1 836,1	-1 028,24	-1 219,39	0,75		HYDRO_MWD_SCC_SAG
2 685,0	61,50	229,20	1 849,9	-1 044,95	-1 238,67	0,28		HYDRO_MWD_SCC_SAG
2 714,0	61,60	229,50	1 863,7	-1 061,56	-1 258,01	0,29		HYDRO_MWD_SCC_SAG
2 743,0	61,80	230,10	1 877,5	-1 078,04	-1 277,52	0,58		HYDRO_MWD_SCC_SAG
2 772,0	61,80	230,60	1 891,2	-1 094,34	-1 297,20	0,46		HYDRO_MWD_SCC_SAG
2 800,0	62,50	229,50	1 904,2	-1 110,24	-1 316,17	1,28		HYDRO_MWD_SCC_SAG
2 829,0	64,30	229,60	1 917,2	-1 127,06	-1 335,90	1,86		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 04.07.2000 00:00 - 05.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Oil Based
Sample time	04.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	2 474,0
Mud weight in/out (g/cm3)	0,00 / 1,55
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	22,50
Excess Lime (kg/m3)	8,88
WPS as chlorides (mg/l)	190,00
Organic clay (kg/m3)	
Electrical stability (V)	750,0
Activity of water	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	58,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	61,0
Yield point (Pa)	22,5
Gel strength 10s/10m (Pa)	14,0 / 23,0
600 / 300 rpm (lbf/100ft2)	167,0 / 106,0
200 / 100 rpm (lbf/100ft2)	84,0 / 58,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	24,0 / 22,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,5
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 04.07.2000 00:00 - 05.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
04.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,55	394,0	64,0	326,0								8,0		41,0
		Change to finer screens, No.2 centrifuge still not operational.														
		Total												63,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %			
04.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,55	/				/	/			Nan			
		Change to finer screens, No.2 centrifuge still not operational.													
		Total													Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")				TFA in2
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs			
6	17 1/2"	3	MXT09DDT	437	Unknown		MA722S3	1 x 14	1 x 20	1 x 24	1 x 28	0,899
IADC Dull Grading												
Run No	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN		
6	3 702	201,00	1	3	67	224						
Run No	I	O	DC	L	B	G	OC	RP	Remarks			
6	1	1	ER	A	E	I	BT	BHA	RRAB RE-RUNABLE			

7. Geology / Pressure Data

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
1 822,0	1 417,6	2 311,0	1 665,0	Cuttings	Sand and Claystone								
		Lithology		From %	To %	Properties							
		Sandstone				Clr - transl qtz, f - crs, pred rndd - w rndd, spher, mod wl srt, tr glauc, kaol mtx							
		Claystone				Grysh blk - blk, frm - mod hd, sbblk - blk, non calc, v slyt, micropyr, micromic.							
2 311,0	1 665,0	2 474,0	1 747,7	Cuttings	Claystone								
		Lithology		From %	To %	Properties							
		Claystone				Light to medium greenish grey, dark green, occasionally light brown, soft to firm, occasionally hard, blocky, silty, non calcareous, micro pyritic							

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
2 474,0	1 747,7	1,13		

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 03.07.2000 00:00 - 04.07.2000 00:00

Project No	Section 17 1/2"	Start Time 02.07.2000 04:00	Start Depth MD 1 383,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 15	Days Since Spud 14	Days Ahead/Behind (+/-) Budget: -14,0 Perfect Well: -14,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,05 g/cm3	Depth MD 2 330,0 m	Depth TVD 1 674,7 m
	FIT 1,60 g/cm3	Depth MD 1 386,0 m	Depth TVD 1 196,1 m
	Casing Size 18 5/8"	Depth MD 1 377,7 m	Depth TVD m
	TD of Well at 24:00 MD 2 330,0 m	TD of Well at 24:00 TVD 1 674,7 m	Drilled 00:00-24:00 MD 508,0 m
	Company Supervisor Day K. Kjøsnes	Company Engineer Day Ig: Radams	Geologist Day
Company Supervisor Night T.Helgøy	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
17 1/2" - Drilling - 02.07.2000 04:00 - 11.07.2000 18:30					
00:00	06:00	6,00	2 330,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 17 1/2" hole from 1822m to 2330 m. Had rubber on the shakers from 1887m. 4500 LPM, 230 bar, 120 RPM, 24 KNm, 25 ton WOB.
06:00	23:30	17,50	2 330,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 17 1/2" hole from 1822m to 2330 m. Had rubber on the shakers from 1887m. 4500 LPM, 230 bar, 120 RPM, 24 KNm, 25 ton WOB.
23:30	00:00	0,50	2 330,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Pumped a high weight pill and started to circulate to increase the mudweight to 1.55 s.g prior to drilling the green clay. Pulled one stand off bottom. Circulated while reciprocating the drillstring. 4500 LPM, 230 bar, 20 KNm.

3.1 General Remarks

POB: NH-2,ODM-39,BJ-3,ADF-2,BHI-8.

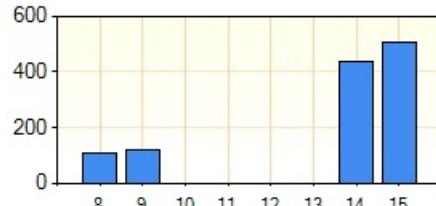
3.3 KPI

Drilling

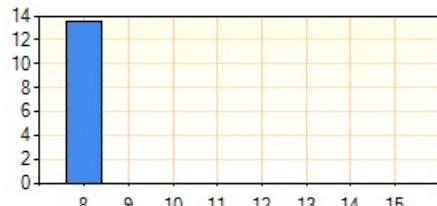
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
------------	--------------	-------------	-----------	---------	----------	----------------	--

00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	508,0	508,0 m/day
Rushmore m/day (for project)	286,50	51,00	0,00	337,50	0,00	84,9	2 163,0	153,8 m/day

Drilling contractors downtime

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 03.07.2000 00:00 - 04.07.2000 00:00

OSEBERG B	: 0,0 hrs (00:00 - 24:00)	0,0 hrs (accumulated independent of well this month)
-----------	---------------------------	--

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/337,5	0,0/0,0	0,0/0,0	337,5	0,0/0,0	100,0	14,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	17 1/2"	0 m3/m3	0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m

Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
2 282,0	59,40	229,50	1 650,2	-813,84	-975,85	0,43		HYDRO_MWD _SCC_SAG
2 311,0	59,10	229,30	1 665,0	-830,06	-994,77	0,36		HYDRO_MWD _SCC_SAG
2 340,0	59,60	229,50	1 679,8	-846,30	-1 013,72	0,55		HYDRO_MWD _SCC_SAG
2 368,0	59,10	228,60	1 694,1	-862,09	-1 031,91	0,99		HYDRO_MWD _SCC_SAG
2 396,0	59,60	228,70	1 708,3	-878,00	-1 049,99	0,54		HYDRO_MWD _SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 03.07.2000 00:00 - 04.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	03.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	2 331,0
Mud weight in/out (g/cm3)	0,00 / 1,29
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	21,00
Excess Lime (kg/m3)	8,88
WPS as chlorides (mg/l)	172,00
Organic clay (kg/m3)	
Electrical stability (V)	803,0
Activity of water	
Solids	
Sand (vol%)	0,4
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	62,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	41,0
Yield point (Pa)	21,0
Gel strength 10s/10m (Pa)	14,0 / 21,0
600 / 300 rpm (lbf/100ft2)	124,0 / 83,0
200 / 100 rpm (lbf/100ft2)	65,0 / 47,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	23,0 / 22,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	3,6
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 03.07.2000 00:00 - 04.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
03.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,29	350,0	71,0	308,0								20,0		61,0
		Running Centrifuge 1 in Barite recovery for half the day.					Centrifuge									
		Total												55,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
03.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,29	/				/	/			Nan
		Running Centrifuge 1 in Barite recovery for half the day.			Centrifuge							
		Total										Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")				TFA in2
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs			
6	17 1/2"	3	MXT09DDT	437	Unknown		MA722S3	1 x 14	1 x 20	1 x 24	1 x 28	0,899
<hr/>												
<hr/>												
Run No	Pump		WOB		RPM		Torque		Conn drag			
Run No	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN		
6	3 773	194,00	1	4	88	222						
<hr/>												
<hr/>												
Run No	IADC Dull Grading						Remarks					
6	I	O	DC	L	B	G	OC	RP	RRAB RE-RUNABLE			

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
2 330,0	1 674,7	1,05		

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 02.07.2000 00:00 - 03.07.2000 00:00

Project No	Section 17 1/2"	Start Time 02.07.2000 04:00	Start Depth MD 1 383,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 14	Days Since Spud 13	Days Ahead/Behind (+/-) Budget: -13,0 Perfect Well: -13,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,05 g/cm3	Depth MD 1 822,0 m	Depth TVD 1 417,6 m
	FIT 1,60 g/cm3	Depth MD 1 386,0 m	Depth TVD 1 196,1 m
	Casing Size 18 5/8"	Depth MD 1 377,7 m	Depth TVD m
	TD of Well at 24:00 MD 1 822,0 m	TD of Well at 24:00 TVD 1 417,6 m	Drilled 00:00-24:00 MD 439,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day	Geologist Day	
Company Supervisor Night T.Helgøy	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
24" - Drilling - 20.06.2000 07:00 - 02.07.2000 04:00					
00:00	01:00	1,00	1 375,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Continued to displace the hole to oilbased mud.
01:00	03:00	2,00	1 383,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled cement and 3m new formation from 1375m to 1386m. 3500 LPM, 165 bar, 45 RPM, 10 ton WOB.
03:00	04:00	1,00	1 383,0	DP	EVALUATION - FORMATION INTEGRITY TEST Performed the formation test to 1.60 s.g. EMW. Pumped 1000 liter. 950 liter in returns. (M.W. = 1.22 s.g, P = 44 bar)
17 1/2" - Drilling - 02.07.2000 04:00 - 11.07.2000 18:30					
04:00	06:00	2,00	1 799,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 17 1/2" hole from 1386m to 1799m. 4500 LPM, 225 bar, 120 RPM, 22 KNm, 20 ton WOB. Pumped high weight pills on every 3rd stand.
06:00	21:30	15,50	1 799,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 17 1/2" hole from 1386m to 1799m. 4500 LPM, 225 bar, 120 RPM, 22 KNm, 20 ton WOB. Pumped high weight pills on every 3rd stand.
21:30	23:00	1,50	1 799,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Pumped a high weight pill and circulated the pill to the surface while reciprocating the drillstring.
23:00	00:00	1,00	1 822,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 17 1/2" hole from 1799m to 1822m. 4500 LPM, 230 bar, 120 RPM, 24 KNm, 25 ton WOB.

3.1 General Remarks

POB: NH-2,ODM-37,BJ-3,ADF-2,BHI-9.

3.3 KPI

Drilling

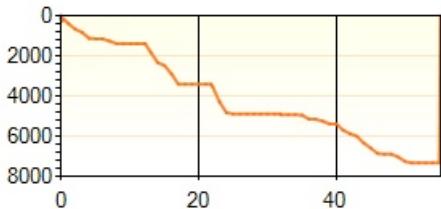
Daily Drilling Report

OSEBERG B

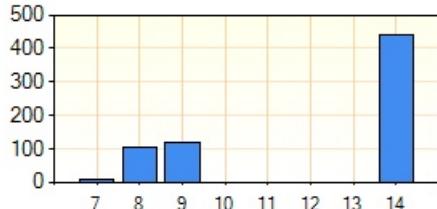
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 02.07.2000 00:00 - 03.07.2000 00:00

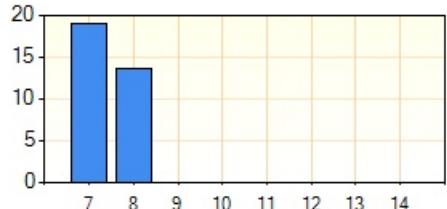
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	439,0	439,0 m/day
Rushmore m/day (for project)	262,50	51,00	0,00	313,50	0,00	83,7	1 655,0	126,7 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/313,5	0,0/0,0	0,0/0,0	313,5	0,0/0,0	100,0	13,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	17 1/2"	0 m3/m3	0 m3/m3

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
 Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
1 765,0	59,00	229,70	1 388,8	-527,81	-633,62	0,54		HYDRO_MWD_SCC_SAG
1 794,0	60,00	229,80	1 403,5	-543,95	-652,69	1,04		HYDRO_MWD_SCC_SAG
1 823,0	59,50	230,20	1 418,1	-560,06	-671,88	0,63		HYDRO_MWD_SCC_SAG
1 852,0	59,50	229,50	1 432,8	-576,17	-690,98	0,62		HYDRO_MWD_SCC_SAG
1 881,0	60,40	229,90	1 447,3	-592,40	-710,12	1,00		HYDRO_MWD_SCC_SAG
1 910,0	59,70	229,60	1 461,8	-608,64	-729,30	0,77		HYDRO_MWD_SCC_SAG
1 938,0	59,10	230,10	1 476,1	-624,18	-747,72	0,79		HYDRO_MWD_SCC_SAG
1 966,0	60,00	230,30	1 490,3	-639,63	-766,26	0,98		HYDRO_MWD_SCC_SAG
1 996,0	59,60	230,50	1 505,4	-656,16	-786,24	0,44		HYDRO_MWD_SCC_SAG
2 024,0	59,50	230,50	1 519,5	-671,51	-804,87	0,11		HYDRO_MWD_SCC_SAG
2 053,0	60,10	230,80	1 534,1	-687,40	-824,25	0,68		HYDRO_MWD_SCC_SAG
2 081,0	59,60	231,00	1 548,2	-702,67	-843,04	0,57		HYDRO_MWD_SCC_SAG
2 110,0	59,00	230,90	1 563,0	-718,38	-862,40	0,63		HYDRO_MWD_SCC_SAG
2 139,0	59,60	230,10	1 577,8	-734,24	-881,64	0,94		HYDRO_MWD_SCC_SAG
2 168,0	59,70	230,20	1 592,5	-750,28	-900,86	0,14		HYDRO_MWD_SCC_SAG
2 196,0	60,10	229,10	1 606,5	-765,96	-919,32	1,11		HYDRO_MWD_SCC_SAG
2 225,0	59,70	230,40	1 621,1	-782,17	-938,47	1,23		HYDRO_MWD_SCC_SAG
2 254,0	59,00	229,50	1 635,8	-798,22	-957,56	1,08		HYDRO_MWD_SCC_SAG

5. Fluids

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 02.07.2000 00:00 - 03.07.2000 00:00

5.0 Drilling Fluid Test

	Oil Based
Sample time	02.07.2000 12:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	1 823,0
Mud weight in/out (g/cm3)	0,00 / 1,23
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	22,00
Excess Lime (kg/m3)	9,62
WPS as chlorides (mg/l)	150,00
Organic clay (kg/m3)	
Electrical stability (V)	615,0
Activity of water	
Solids	
Sand (vol%)	0,8
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	60,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	36,0
Yield point (Pa)	22,0
Gel strength 10s/10m (Pa)	14,0 / 20,0
600 / 300 rpm (lbf/100ft2)	116,0 / 80,0
200 / 100 rpm (lbf/100ft2)	62,0 / 45,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	23,0 / 22,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	2,6
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 02.07.2000 00:00 - 03.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
02.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,23	273,0	98,0	391,0								35,0		59,0
		Shaker # 4 & 5 out due to wrong screen sizes, the screens didn't														
		Total												35,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %				
02.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,23	/			/	/				Nan				
		Shaker # 4 & 5 out due to wrong screen sizes, the screens didn't														
		Total														Nan

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")				TFA in2
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs			
6	17 1/2"	3	MXT09DDT	437	Unknown		MA722S3	1 x 14	1 x 20	1 x 24	1 x 28	0,899
6	1 383,0	2 474,0	1 091,0	34,9	31,3		0	0,0				
Run No	Pump		WOB		RPM		Torque		Conn drag			
Run No	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN		
6	3 902	180,00	1	2	70	226						
Run No	IADC Dull Grading						Remarks					
6	I	O	DC	L	B	G	OC	RP	RRAB RE-RUNABLE			

7. Geology / Pressure Data

7.1 Lithology

From		To		Sample type	General lithology								
m MD	m TVD	m MD	m TVD										
1 383,0	1 194,5	1 822,0	1 417,6	Cuttings	Sand and Claystone								
		Lithology		From %	To %	Properties							
		Claystone				grysh blk - blk, frm - mod hd, sbbly - blk, non calc, v slty, micropyr, micromic.							
		Sandstone				Clr - transl qtz, f - crs, pred rudd - w rudd, spher, mod wl srt, tr glauc, kaol mt							

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
1 822,0	1 417,6	1,05		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 01.07.2000 00:00 - 02.07.2000 00:00

Project No	Section 24"	Start Time 20.06.2000 07:00	Start Depth MD 167,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 13	Days Since Spud 12	Days Ahead/Behind (+/-) Budget: -12,0 Perfect Well: -12,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 280,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,05 g/cm3	Depth MD 1 383,0 m	Depth TVD 1 194,5 m
	LOT/FIT g/cm3	Depth MD m	Depth TVD 0,0 m
	Casing Size 18 5/8"	Depth MD 1 377,7 m	Depth TVD m
	TD of Well at 24:00 MD 1 383,0 m	TD of Well at 24:00 TVD 1 194,5 m	Drilled 00:00-24:00 MD 0,0 m
	Company Supervisor Day K. Kjøsnes	Company Engineer Day R.Adams	Geologist Day
Company Supervisor Night T.Helgøy	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
24" - Drilling - 20.06.2000 07:00 - 02.07.2000 04:00					
00:00	06:00	6,00	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Continued to lay down the 5 1/2" drillpipe. Laid down 198 joints of drillpipe.
06:00	11:30	5,50	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Continued to lay down the 5 1/2" drillpipe. Laid down 198 joints of drillpipe.
11:30	12:30	1,00	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Changed the washpipe.
12:30	21:00	8,50	1 361,0	DP	U DRILLING - Run in and POOH with BHA Made up the 17 1/2" drilling assembly and ran in the hole to the top of cement @ 1361m. Picked up 41 jnts of 6 5/8" drillpipe while running in the hole. Washed down from 1270m.
21:00	22:30	1,50	1 375,0	DP	U CASING - DRILL FLOAT/CEMENT Drilled the cement in the shoetrack from 1361m to 1375 m. Drilled firm cement from 1363m.
22:30	00:00	1,50	1 375,0	DP	U DRILLING - ROUTINE HOLE CIRC/COND Displaced the well to oilbased mud while reciprocating the drillstring.

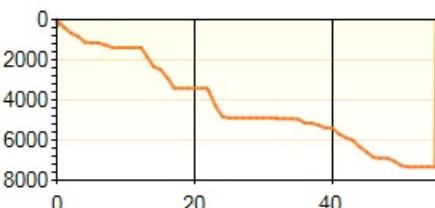
3.1 General Remarks

POB: NH-2,ODM-37,BJ-3,ADF-2,BHI-9,KOS-2.

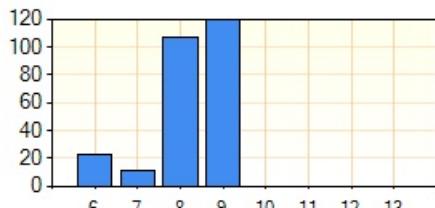
3.3 KPI

Drilling

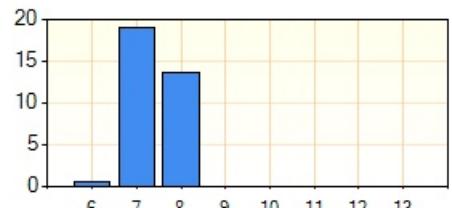
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 01.07.2000 00:00 - 02.07.2000 00:00

	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	0,0	0,0 m/day
Rushmore m/day (for project)	238,50	51,00	0,00	289,50	0,00	82,4	1 216,0	100,8 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/289,5	0,0/0,0	0,0/0,0	289,5	0,0/0,0	100,0	12,1
		Section	00:00 - 24:00	Avg. section				
Fluid adherence	17 1/2"							

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m
Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
1 330,0	59,20	229,50	1 166,8	-292,92	-342,58	0,71		HYDRO_MWD_SCC_SAG
1 361,0	58,60	231,20	1 182,8	-309,86	-363,02	1,52		HYDRO_MWD_SCC_SAG
1 389,0	57,20	231,30	1 197,7	-324,70	-381,52	1,50		HYDRO_MWD_SCC_SAG
1 418,0	58,40	233,30	1 213,2	-339,71	-400,93	2,15		HYDRO_MWD_SCC_SAG
1 446,0	59,60	231,30	1 227,6	-354,39	-419,92	2,24		HYDRO_MWD_SCC_SAG
1 475,0	60,00	231,80	1 242,2	-369,97	-439,55	0,61		HYDRO_MWD_SCC_SAG
1 505,0	60,10	232,20	1 257,1	-385,97	-460,03	0,36		HYDRO_MWD_SCC_SAG
1 534,0	59,90	231,30	1 271,6	-401,52	-479,75	0,83		HYDRO_MWD_SCC_SAG
1 562,0	59,90	232,80	1 285,7	-416,42	-498,85	1,39		HYDRO_MWD_SCC_SAG
1 591,0	59,60	231,80	1 300,3	-431,74	-518,68	0,95		HYDRO_MWD_SCC_SAG
1 620,0	59,80	230,70	1 314,9	-447,41	-538,20	1,00		HYDRO_MWD_SCC_SAG
1 649,0	59,50	231,10	1 329,6	-463,19	-557,62	0,47		HYDRO_MWD_SCC_SAG
1 678,0	59,00	229,70	1 344,4	-479,08	-576,83	1,35		HYDRO_MWD_SCC_SAG
1 707,0	59,90	229,30	1 359,1	-495,30	-595,82	1,00		HYDRO_MWD_SCC_SAG
1 736,0	59,10	229,10	1 373,9	-511,62	-614,73	0,85		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 01.07.2000 00:00 - 02.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Oil Based	
Sample time	01.07.2000 23:00
Fluid system	VersaVert (ANCOV)
Sample point	
Sample depth (mMD)	1 383,0
Mud weight in/out (g/cm3)	0,00 / 1,20
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Calcium (mg/l)	
Excess Gypsum (kg/m3)	11,50
Excess Lime (kg/m3)	9,62
WPS as chlorides (mg/l)	196,00
Organic clay (kg/m3)	
Electrical stability (V)	600,0
Activity of water	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	65,0
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	33,0
Yield point (Pa)	11,5
Gel strength 10s/10m (Pa)	9,0 / 14,0
600 / 300 rpm (lbf/100ft2)	89,0 / 56,0
200 / 100 rpm (lbf/100ft2)	44,0 / 30,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	13,0 / 12,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	4,0
Cake thickn HPHT (mm)	1,0
Test temp HPHT (degC)	121,0
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 01.07.2000 00:00 - 02.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
01.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,20	207,0	95,0	215,0	8,0			14,0				8,0		22,0
Diverted 14 m3 OBM in interface to slop pit. Using coarse screens																

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
01.07.2000 12:00	17 1/2"	VersaVert (ANCOV)	1,20	/				/	/				NaN
Diverted 14 m3 OBM in interface to slop pit. Using coarse screens													

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer	Serial no	Nozzles (n/32")	TFA in2
6	17 1/2"	3	MXT09DDT	437	Unknown	MA722S3	no x n no x n no x n no x n	0,899

Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs
	in m	out m							
6	1 383,0	2 474,0	1 091,0	34,9	31,3		0	0,0	

Run No	Pump		WOB		RPM		Torque		Conn drag	
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN
6										

Run No	IADC Dull Grading								Remarks			
	I	O	DC	L	B	G	OC	RP				
6	1	1	ER	A	E	I	BT	BHA	RRAB RE-RUNABLE			

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
1 383,0	1 194,5	1,05		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 30.06.2000 00:00 - 01.07.2000 00:00

Project No	Section 24"	Start Time 20.06.2000 07:00	Start Depth MD 167,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 12	Days Since Spud 11	Days Ahead/Behind (+/-) Budget: -11,0 Perfect Well: -11,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 245,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,05 g/cm3	Depth MD 1 383,0 m	Depth TVD 1 194,5 m
	LOT/FIT g/cm3	Depth MD m	Depth TVD 0,0 m
	Casing Size 18 5/8"	Depth MD 1 377,7 m	Depth TVD m
	TD of Well at 24:00 MD 1 383,0 m	TD of Well at 24:00 TVD 1 194,5 m	Drilled 00:00-24:00 MD 0,0 m
	Company Supervisor Day K. Kjøsnes	Company Engineer Day	Geologist Day
Company Supervisor Night T.Helgøy	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
24" - Drilling - 20.06.2000 07:00 - 02.07.2000 04:00					
00:00	03:00	3,00	0,0	DP	U CASING - RUN CASING Laid down the cement head and the landing string.
03:00	05:30	2,50	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Installed the torque wrench and the elevator.
05:30	06:00	0,50	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Ran in hole with the jet sub and washed the wellhead area. Displaced the riser to seawater.
06:00	06:30	0,50	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Ran in hole with the jet sub and washed the wellhead area. Displaced the riser to seawater.
06:30	11:00	4,50	0,0	DP	U BOP - NIPPLE UP/DOWN BOP AND WELLHEAD Nipped down the 32" riser. Laid down the 32" riser on the pipedeck.
11:00	18:00	7,00	0,0	DP	U BOP - NIPPLE UP/DOWN BOP AND WELLHEAD Nipped up the upperunihead, the high pressure riser, BOP, low pressure riser and the diverter.
18:00	21:30	3,50	0,0	DP	U BOP - TEST SUBSEA BOP, OK Performed connection test and BOP test. Test pressure : 280 bar.
21:30	22:30	1,00	0,0	DP	U BOP - RUN/PULL WEARBUSHING Installed the wear bushing.
22:30	00:00	1,50	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Laid down the 5 1/2" drillpipe.

3.1 General Remarks

POB: NH-2,ODM-37,BJ-3,ADF-2,BHI-9,KOS-2.

3.3 KPI

Drilling

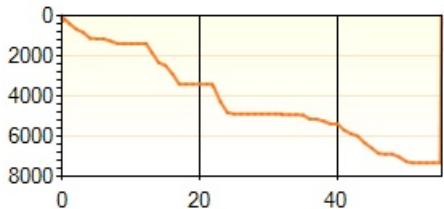
Daily Drilling Report

OSEBERG B

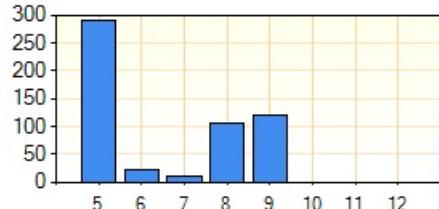
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 30.06.2000 00:00 - 01.07.2000 00:00

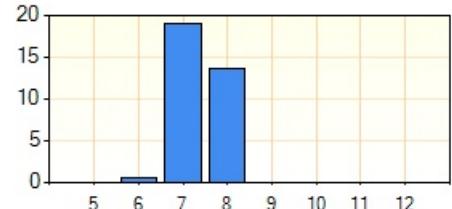
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	0,0	0,0 m/day
Rushmore m/day (for project)	214,50	51,00	0,00	265,50	0,00	80,8	1 216,0	109,9 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/265,5	0,0/0,0	0,0/0,0	265,5	0,0/0,0	100,0	11,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	24"		0,14 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 30.06.2000 00:00 - 01.07.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Water Based	
Sample time	30.06.2000 12:00
Fluid system	Bentonite
Sample point	
Sample depth (mMD)	1 383,0
Mud weight in/out (g/cm3)	0,00 / 1,20
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Mf (cc)	
Pm (cc)	
MBT (kg/m3)	
Chlorides (mg/l)	
KCl (kg/m3)	
Calcium (mg/l)	
Magnesium (mg/l)	
pH	
Alkalinity Pf (ml)	
Excess Gypsum (kg/m3)	13,00
Excess Lime (kg/m3)	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	5,0
Yield point (Pa)	13,0
Gel strength 10s/10m (Pa)	6,0 / 9,0
600 / 300 rpm (lbf/100ft2)	36,0 / 31,0
200 / 100 rpm (lbf/100ft2)	29,0 / 26,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	26,0 / 21,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	
Cake thickn HPHT (mm)	
Test temp HPHT (degC)	
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 30.06.2000 00:00 - 01.07.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
30.06.2000 12:00	24"	Bentonite	1,20								278,0					278,0
		Running centrifuges on OBM.														
		Total								0,0	2 140,0	49,0		35,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
30.06.2000 12:00	24"	Bentonite	1,20	/			/	/				NaN
		Running centrifuges on OBM.										
		Total										NaN

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
1 383,0	1 194,5	1,05		

7.8 Leak Off Test

Test type: FIT (Surface)	Result: 1,60 g/cm3	Exec date: 01.07.2000	Test cycle no: 1	Ref pressure: 44,00 bar
Wellbore Depth MD: 1 386,0 m	Wellbore Depth TVD: 1 196,1 m	Casing Depth MD: 1 377,7 m	Casing Depth TVD: m	Press sensor: m
Vol pumped: 1 000,0 l	Vol bled back: 900,0 l	Well volume: m3	Fluid compr: l/bar/100m3	Pump rate: l/min
FIP: bar	FRP: bar	FPP: bar	FCP: bar	LOP/FIT: 43,00 bar
Mud system: Bentonite	Mud weight: g/cm3	Sample time: 30.06.2000 12:00	Sample depth MD: 1 383,0 m	
Remarks:				

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 29.06.2000 00:00 - 30.06.2000 00:00

Project No	Section 24"	Start Time 20.06.2000 07:00	Start Depth MD 167,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 11	Days Since Spud 10	Days Ahead/Behind (+/-) Budget: -10,0 Perfect Well: -10,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 245,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,05 g/cm3	Depth MD 1 383,0 m	Depth TVD 1 194,5 m
	LOT/FIT g/cm3	Depth MD m	Depth TVD 0,0 m
	Casing Size 18 5/8"	Depth MD 1 377,7 m	Depth TVD m
	TD of Well at 24:00 MD 1 383,0 m	TD of Well at 24:00 TVD 1 194,5 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day	Geologist Day	
Company Supervisor Night T.Helgøy	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
24" - Drilling - 20.06.2000 07:00 - 02.07.2000 04:00					
00:00	06:00	6,00	1 378,0	DP	CASING - RUN CASING Continued to run in the hole with the casing to 1378m. Filled the casing when running in the hole.
06:00	12:30	6,50	1 378,0	DP	CASING - RUN CASING Continued to run in the hole with the casing to 1378m. Filled the casing when running in the hole.
12:30	17:00	4,50	1 378,0	DP	CASING - CEMENT CASING/LINER Broke the circulation and circulated the hole. Increased the circulation in steps to 3100 LPM. Circulation pressure : 55 bar.
17:00	18:30	1,50	1 378,0	DP	CASING - CEMENT CASING/LINER Installed the BJ cement head. Pressure tested the cementline to 150 bar.
18:30	19:30	1,00	1 378,0	DP	CASING - CEMENT CASING/LINER Pumped 25m3 of seawater.
19:30	00:00	4,50	1 378,0	DP	CASING - CEMENT CASING/LINER Pumped and displaced 171.8 m3 lead slurry and 19.3m3 tail slurry. Displaced the cement with 3000 LPM(68 bar). Bumped plug at 13413 strokes (13721 strokes theoretical). Pressure tested the casing to 70 bars/10 mins. Checked the casing floats after the pressure test. Had traces of cement in the returns.

3.1 General Remarks

POB: NH-2,ODM-34,BJ-4,ADF-2,BHI-9,OWS-5,KOS-2.

3.3 KPI

Drilling

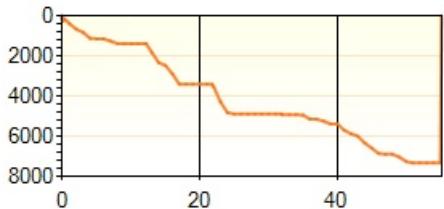
Daily Drilling Report

OSEBERG B

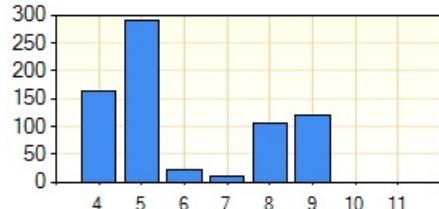
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 29.06.2000 00:00 - 30.06.2000 00:00

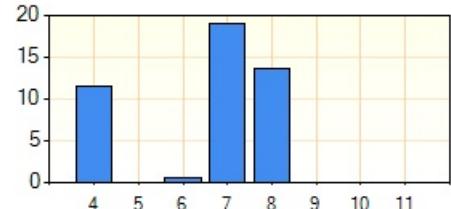
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	0,0	0,0 m/day
Rushmore m/day (for project)	190,50	51,00	0,00	241,50	0,00	78,9	1 216,0	120,8 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/241,5	0,0/0,0	0,0/0,0	241,5	0,0/0,0	100,0	10,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	24"		0,14 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 29.06.2000 00:00 - 30.06.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Water Based	
Sample time	29.06.2000 12:00
Fluid system	Bentonite
Sample point	
Sample depth (mMD)	1 383,0
Mud weight in/out (g/cm3)	0,00 / 1,24
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Mf (cc)	
Pm (cc)	
MBT (kg/m3)	
Chlorides (mg/l)	
KCl (kg/m3)	
Calcium (mg/l)	
Magnesium (mg/l)	
pH	
Alkalinity Pf (ml)	
Excess Gypsum (kg/m3)	13,00
Excess Lime (kg/m3)	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	6,0
Yield point (Pa)	13,0
Gel strength 10s/10m (Pa)	0,0 / 0,0
600 / 300 rpm (lbf/100ft2)	38,0 / 32,0
200 / 100 rpm (lbf/100ft2)	30,0 / 27,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	26,0 / 23,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	
Cake thickn HPHT (mm)	
Test temp HPHT (degC)	
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 29.06.2000 00:00 - 30.06.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
29.06.2000 12:00	24"	Bentonite	1,24	189,0	19,0					477,0						477,0
		All returns dumped at shakers during cement job.														
		Total								0,0	1 862,0	49,0		35,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
29.06.2000 12:00	24"	Bentonite	1,24	/			/	/				NaN
		All returns dumped at shakers during cement job.										
		Total										NaN

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
1 383,0	1 194,5	1,05		

13. Cementing

13.0 Casing / Liner

Casing string 18 5/8"		Cementing method Conventional			Company					
Theoretical TOC MD 60,0 m	Evaluated TOC MD m	Evaluated by		Liner rotation planned No	Liner rotation achieved			Bumped and successfully tested plug		
Remarks API CLASS G - 0 0 0 0 0										
Fluids pumped		Type	Density g/cm3	Volume m3	Pump rate l/min	Pump pressure bar	Loss prior to cement job m3	Loss during cement job m3		
Lead	See description for fluid info		1,44	172,0	1 147	70,00				
Tail	See description for fluid info		1,90	19,0	633	70,00				
Displacement	See description for fluid info		1,23	202,0		70,00				

13.4 Cementing Volumes

Observation time	Section	Fluid system	Density g/cm3	Total volume mixed m3	Backloaded m3	Lost to slop m3	Acc spill to sea m3	Discharged to sea m3
29.06.2000 00:03	24"	Tail (Import only)	1,90	19,0				
		0 0 0 0 0						
29.06.2000 00:04	24"	Displacement (Import only)	1,23	202,0				
		0 0 0 0 0						
29.06.2000 00:05	24"	Lead (Import only)	1,44	172,0				
		0 0 0 0 0						

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 28.06.2000 00:00 - 29.06.2000 00:00

Project No	Section 24"	Start Time 20.06.2000 07:00	Start Depth MD 167,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 10	Days Since Spud 9	Days Ahead/Behind (+/-) Budget: -9,0 Perfect Well: -9,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 245,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,05 g/cm3	Depth MD 1 383,0 m	Depth TVD 1 194,5 m
	LOT/FIT g/cm3	Depth MD m	Depth TVD 0,0 m
	Casing Size 18 5/8"	Depth MD 1 377,7 m	Depth TVD m
	TD of Well at 24:00 MD 1 383,0 m	TD of Well at 24:00 TVD 1 194,5 m	Drilled 00:00-24:00 MD 0,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day	Geologist Day	
Company Supervisor Night T.Helgøy	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
24" - Drilling - 20.06.2000 07:00 - 02.07.2000 04:00					
00:00	03:30	3,50	1 383,0	DP	K DRILLING - WIPERTRIP INCL. CIRCULATION Performed a wipertrip to 950m. Tight spots : 1250m, 1210-1196m, 1165-1150m. Max Overpull : 60 tons.
03:30	05:30	2,00	1 350,0	DP	U DRILLING - ROUTINE HOLE CIRC/COND Circulated the hole @ 1350m.
05:30	06:00	0,50	0,0	DP	U DRILLING - Run in and POOH with BHA Pulled out of the hole with the 24" drilling assembly.
06:00	11:00	5,00	0,0	DP	U DRILLING - Run in and POOH with BHA Pulled out of the hole with the 24" drilling assembly.
11:00	12:00	1,00	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Made up jet sub and washed the wellhead area.
12:00	13:30	1,50	0,0	DP	U CASING - RUN CASING Rigged up to run the 18 5/8" casing. Changed to long bails. Made up pump-in sub on topdrive.
13:30	15:00	1,50	0,0	DP	U DRILLING - DRILLING OTHER TIME, OK Slipped and cut the drill line.
15:00	19:30	4,50	0,0	DP	U CASING - RUN CASING Continued to rigg up to run the 18 5/8" casing. Picked up and installed the casing tong. Installed the BX elevator. Made-up BJ swedge and wiperplug assembly. Made up lower unihead and running tool and laid down on the pipedeck. Loss on trip tank 700 l/hr.
19:30	00:00	4,50	127,0	DP	U CASING - RUN CASING Made up the shoetrack and ran in the hole with the 18 5/8" casing to 127m.

3.1 General Remarks

POB: NH-2,ODM-34,BJ-4,ADF-2,BHI-9,OWS-5,KOS-2.

Daily Drilling Report

OSEBERG B

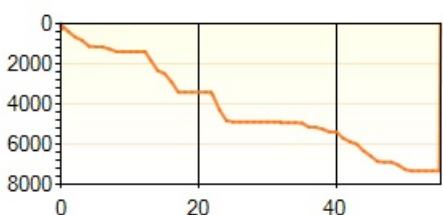
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 28.06.2000 00:00 - 29.06.2000 00:00

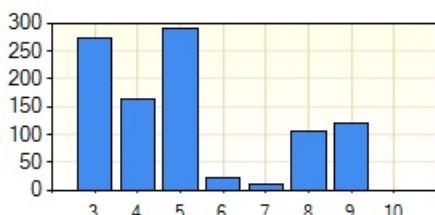
3.3 KPI

Drilling

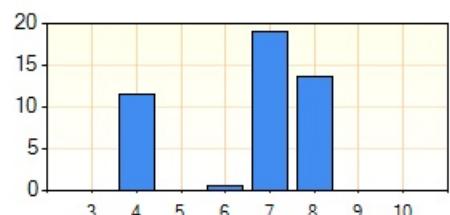
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
--	------------	--------------	-------------	-----------	---------	----------	----------------	--

00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	0,0	0,0 m/day
Rushmore m/day (for project)	166,50	51,00	0,00	217,50	0,00	76,6	1 216,0	134,2 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/217,5	0,0/0,0	0,0/0,0	217,5	0,0/0,0	100,0	9,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	24"		0,14 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 28.06.2000 00:00 - 29.06.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Water Based	
Sample time	28.06.2000 12:00
Fluid system	Bentonite
Sample point	
Sample depth (mMD)	1 383,0
Mud weight in/out (g/cm3)	0,00 / 1,16
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Mf (cc)	
Pm (cc)	
MBT (kg/m3)	
Chlorides (mg/l)	
KCl (kg/m3)	
Calcium (mg/l)	
Magnesium (mg/l)	
pH	
Alkalinity Pf (ml)	
Excess Gypsum (kg/m3)	11,00
Excess Lime (kg/m3)	
Solids	
Sand (vol%)	
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	14,0
Yield point (Pa)	11,0
Gel strength 10s/10m (Pa)	6,0 / 14,0
600 / 300 rpm (lbf/100ft2)	50,0 / 36,0
200 / 100 rpm (lbf/100ft2)	30,0 / 22,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	12,0 / 11,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	
Cake thickn HPHT (mm)	
Test temp HPHT (degC)	
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 28.06.2000 00:00 - 29.06.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
28.06.2000 12:00	24"	Bentonite	1,16	419,0	177,0	176,0										21,0
		Total								0,0	1 385,0	49,0		35,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
28.06.2000 12:00	24"	Bentonite	1,16	/			/	/				NaN
		Total										NaN

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
1 383,0	1 194,5	1,05		

12. Casing

Category/String type			Diameters		RKB hanger m MD	Air gap m MD	From depth m MD	To depth m MD	Date	Description		Tally
Casing, Surface			18 5/8"			58,0	29,7	1 377,7	28.06.2000			
Item type	No. of joints	Diameter inch	Grade	Coupling	Weight lbs/ft	From depth m MD	To depth m MD	To depth m TVD		Remarks		
Casing	118	18 5/8"	X-56	NSCC	87,360	29,7	1 377,7			SURF		

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 27.06.2000 00:00 - 28.06.2000 00:00

Project No	Section 24"	Start Time 20.06.2000 07:00	Start Depth MD 167,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 9	Days Since Spud 8	Days Ahead/Behind (+/-) Budget: -8,0 Perfect Well: -8,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 245,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,05 g/cm3	Depth MD 1 383,0 m	Depth TVD 1 194,5 m
	LOT/FIT g/cm3	Depth MD m	Depth TVD 0,0 m
	Casing Size	Depth MD m	Depth TVD m
	TD of Well at 24:00 MD 1 383,0 m	TD of Well at 24:00 TVD 1 194,5 m	Drilled 00:00-24:00 MD 119,0 m
Company Supervisor Day K. Kjøsnes	Company Engineer Day	Geologist Day	
Company Supervisor Night T.Helgøy	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
24" - Drilling - 20.06.2000 07:00 - 02.07.2000 04:00					
00:00	00:30	0,50	1 264,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Continued to circulate the pill to the surface.
00:30	04:00	3,50	1 301,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 24" hole from 1264m to 1301m. 4500 LPM, 165 bar, 80 RPM, 30-40 KNm.
04:00	04:30	0,50	1 301,0	DP	DRILLING - DRILLING OTHER TIME, OK Stopped drilling due to mud overflow on the shakers. Lost 37 m3 of seawater. Changed the shaker screens.
04:30	06:00	1,50	1 383,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill and orient the 24" hole from 1301m to 1383 m. 4500 LPM, 168 bar, 80 RPM, 30-40 KNm.
06:00	16:30	10,50	1 383,0	DP	DRILLING - DRILLING w/MUDMOTOR/PDM Continued to drill and orient the 24" hole from 1301m to 1383 m. 4500 LPM, 168 bar, 80 RPM, 30-40 KNm.
16:30	00:00	7,50	1 383,0	DP	DRILLING - ROUTINE HOLE CIRC/COND Pumped high viscosity pills and circulated to clean the hole. 4500 LPM, 150 bar, 100 RPM, 20 KNm.

3.1 General Remarks

POB: NH-2,ODM-34,BJ-4,ADF-2,BHI-8,OWS-5,KOS-2.

3.3 KPI

Drilling

Daily Drilling Report

OSEBERG B

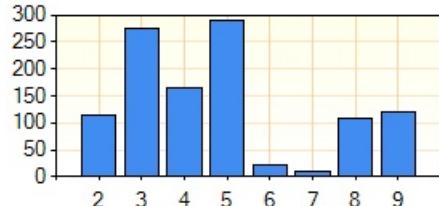
Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 27.06.2000 00:00 - 28.06.2000 00:00

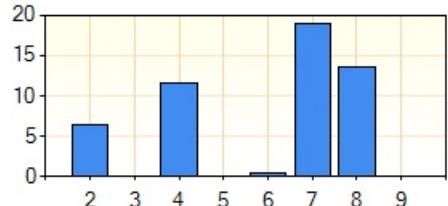
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	24,00	0,00	0,00	24,00	0,00	100,0	119,0	119,0 m/day
Rushmore m/day (for project)	142,50	51,00	0,00	193,50	0,00	73,6	1 216,0	150,8 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/193,5	0,0/0,0	0,0/0,0	193,5	0,0/0,0	100,0	8,1

	Section	00:00 - 24:00	Avg. section
Fluid adherence	24"	0 m3/m3	0,14 m3/m3

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 27.06.2000 00:00 - 28.06.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

Water Based	
Sample time	27.06.2000 12:00
Fluid system	Bentonite
Sample point	
Sample depth (mMD)	1 383,0
Mud weight in/out (g/cm3)	0,00 / 1,15
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Mf (cc)	
Pm (cc)	
MBT (kg/m3)	
Chlorides (mg/l)	
KCl (kg/m3)	
Calcium (mg/l)	
Magnesium (mg/l)	
pH	8,0
Alkalinity Pf (ml)	
Excess Gypsum (kg/m3)	11,50
Excess Lime (kg/m3)	
Solids	
Sand (vol%)	0,5
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	15,0
Yield point (Pa)	11,5
Gel strength 10s/10m (Pa)	6,0 / 15,0
600 / 300 rpm (lbf/100ft2)	53,0 / 38,0
200 / 100 rpm (lbf/100ft2)	32,0 / 25,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	11,0 / 10,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	
Cake thickn HPHT (mm)	
Test temp HPHT (degC)	
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 27.06.2000 00:00 - 28.06.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to formation m3	Left in hole m3	Lost on shakers m3	Lost to lubrication m3	Lost to slop m3	Lost to evaporation m3	Total loss m3
27.06.2000 12:00	24"	Bentonite	1,15	411,0	63,0											55,0
		Lost 37 m3 mud over shakers due to gunning in shakerbox while cir														
		Total								0,0	1 385,0	49,0		35,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %	
27.06.2000 12:00	24"	Bentonite	1,15	/			/	/				NaN	
		Lost 37 m3 mud over shakers due to gunning in shakerbox while cir											
		Total											NaN

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")				TFA in2		
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs					
5	24"	2RR	GTXCM00		Unknown		2444	5 x 15	2 x 16	0 x 0	0 x 0	1,256		
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m/hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs					
5	1 159,0	1 383,0	224,0	32,8	6,8		0	0,0						
Run No	Pump		WOB		RPM		Torque		Conn drag					
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN				
5	4 250	217,00	0	3	99	199								
Run No	IADC Dull Grading							Remarks						
5	I	O	DC	L	B	G	OC	RP	SIH STILL IN HOLE					

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
1 383,0	1 194,5	1,05		

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 26.06.2000 00:00 - 27.06.2000 00:00

Project No	Section 24"	Start Time 20.06.2000 07:00	Start Depth MD 167,0 m	Primary Conveyance DP	Well Classification OBSERVATION
Task responsible NOT ASSIGNED	Water depth 109,0 m	RKB-MSL Report Depth Ref. (OSEBERG B)	RKB-MSL Rig (OSEBERG B) 58,0 m	RKB - Wellhead m	Rig Heading deg

1. Daily Status

	Report Number 8	Days Since Spud 7	Days Ahead/Behind (+/-) Budget: -7,0 Perfect Well: -7,1 WOW: 0,0
	Mud weight g/cm3	BOP Pressure Rating 245,00 bar	Days Since Last BOP Test (Rig)
	Pore pressure Max 1,05 g/cm3	Depth MD 1 264,0 m	Depth TVD 1 131,3 m
	LOT/FIT g/cm3	Depth MD m	Depth TVD 0,0 m
	Casing Size	Depth MD m	Depth TVD m
	TD of Well at 24:00 MD 1 264,0 m	TD of Well at 24:00 TVD 1 131,3 m	Drilled 00:00-24:00 MD 107,0 m
Company Supervisor Day K. D. Jarlsby	Company Engineer Day	Geologist Day	
Company Supervisor Night T.Helgøy	Company Engineer Night	Geologist Night	
Operator Norsk Hydro		Contractor ODB	

2. HSE

No accidents/incidents.

3. Operations

Time From	Time To	Hrs Used	End Depth m MD	Conv	Activity Code / Description
24" - Drilling - 20.06.2000 07:00 - 02.07.2000 04:00					
00:00	02:30	2,50	1 157,0	DP	DRILLING - EQUIPMENT TIME OTHER, NEG - (O FAIL) Displaced the well to seawater.
02:30	03:00	0,50	1 159,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled from 1157m to 1159m. Attempted to restart the MWD.
03:00	06:00	3,00	0,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole and laid down the MWD due to MWD failure. Tight spots : 1157m, 1085m, 1017m, 1000m. Max recorded overpull : 60 tons. Loss on triptank 3m3/hr.
06:00	08:00	2,00	0,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Pulled out of the hole and laid down the MWD due to MWD failure. Tight spots : 1157m, 1085m, 1017m, 1000m. Max recorded overpull : 60 tons. Loss on triptank 3m3/hr.
08:00	14:00	6,00	1 159,0	DP	D DRILLING - EQUIPMENT TIME OTHER, NEG - (E FAIL) Made up new MWD and ran in the hole with the 24" drilling assembly. Reamed and washed down from 1005m. 3900 LPM, 130 bar, 40 RPM, 20-40 KNm.
14:00	23:00	9,00	1 264,0	DP	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled and oriented the 24" hole from 1159m to 1264m. 4500 LPM, 170 bar, 20 ton WOB.
23:00	00:00	1,00	1 264,0	DP	U DRILLING - ROUTINE HOLE CIRC/COND Pumped a 15m3 high viscosity pill and circulated to clean the hole. 4500 LPM, 160 bar, 80 RPM, 20 KNm.

3.0.1 Incidents

Start Date/Time	End Date/Time	Activity Code / Aborted Operation			
26.06.2000 02:30	03:00	U DRILLING - DRILLING w/MUDMOTOR/PDM Drilled from 1157m to 1159m. Attempted to restart the MWD.			
Report status: Completed	Finish Date	Total Down Time 11,0 hrs	Service RIG	Failure Code E357 - Imported from Bore	
Synergi no	Description				
Hazard	Pulled out of the hole due to MWD failure.				

Daily Drilling Report

OSEBERG B

Field: OSEBERG

Wellbore: NO 30/9-B-43

Period: 26.06.2000 00:00 - 27.06.2000 00:00

Company	Service	Description	Downtime %
Baker Hughes Inteq	RIG	Rig Operations	100

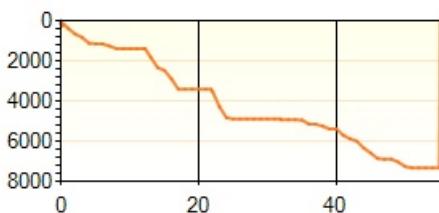
3.1 General Remarks

POB: NH-3,ODM-35,BJ-4,ADF-3,BHI-7,OWS-5,KOS-2.

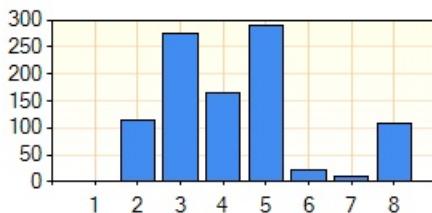
3.3 KPI

Drilling

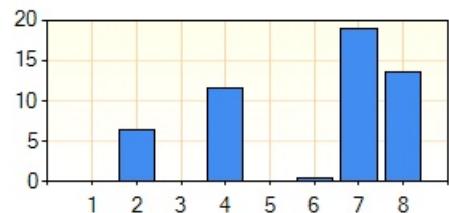
Time vs depth (m) curve



Daily drilled length per report no



Daily downtime hours per report no



	Uptime hrs	Downtime hrs	Waiting hrs	Total hrs	WOW hrs	OPS(f) %	Total Length m	
00:00 - 24:00 - Drilling	10,50	13,50	0,00	24,00	0,00	43,8	107,0	107,0 m/day
Rushmore m/day (for project)	118,50	51,00	0,00	169,50	0,00	69,9	1 097,0	155,3 m/day

Drilling contractors downtime

OSEBERG B : 0,0 hrs (00:00 - 24:00) 0,0 hrs (accumulated independent of well this month)

Performance by project, company and service accumulated for project

Project Name: B-43 Jun 00 Drilling

Company	Service	U/accu	D/accu	W/accu	Total	WOW/accu	OPS%	Days
Operator		24,0/169,5	0,0/0,0	0,0/0,0	169,5	0,0/0,0	100,0	7,1
Fluid adherence	Section	00:00 - 24:00	Avg. section					
Fluid adherence	24"	0 m3/m3	0,15 m3/m3					

4. Directional Data

Wellbore type: INITIAL

Kick off depth MD: 167,0 m

Sidetrack depth MD: 167,0 m

Depth MD m	Incl deg	Azim deg	Depth TVD m	N/S m	E/W m	D-leg deg/30m	V Sect m	Survey Instr
1 214,0	49,70	232,60	1 100,6	-232,40	-269,33	3,74		HYDRO_MWD_SCC_SAG
1 243,0	52,20	231,20	1 118,9	-246,30	-287,05	2,82		HYDRO_MWD_SCC_SAG
1 271,0	55,20	230,30	1 135,4	-260,57	-304,52	3,31		HYDRO_MWD_SCC_SAG
1 300,0	58,50	229,40	1 151,3	-276,23	-323,07	3,50		HYDRO_MWD_SCC_SAG

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 26.06.2000 00:00 - 27.06.2000 00:00

5. Fluids

5.0 Drilling Fluid Test

	Water Based
Sample time	26.06.2000 12:00
Fluid system	Bentonite
Sample point	
Sample depth (mMD)	1 263,0
Mud weight in/out (g/cm3)	0,00 / 1,09
Temp in/out (degC)	/ 50,0
Funnel visc (s/l)	
H2S (ppm)	
Mf (cc)	
Pm (cc)	
MBT (kg/m3)	
Chlorides (mg/l)	
KCl (kg/m3)	
Calcium (mg/l)	
Magnesium (mg/l)	
pH	8,0
Alkalinity Pf (ml)	
Excess Gypsum (kg/m3)	2,00
Excess Lime (kg/m3)	
Solids	
Sand (vol%)	0
Silicate (kg/m3)	
Water (vol%)	
Oil (vol%)	
Glycol (vol%)	
Lubricant (vol%)	
Solids (vol%)	
Corrected solids (vol%)	
Oil Water ratio	
Low gravity solids (kg/m3)	
High gravity solids (kg/m3)	
Viscometer tests	
Plastic visc (mPa.s)	2,0
Yield point (Pa)	2,0
Gel strength 10s/10m (Pa)	1,0 / 1,0
600 / 300 rpm (lbf/100ft2)	8,0 / 6,0
200 / 100 rpm (lbf/100ft2)	4,0 / 3,0
60 / 30 rpm (lbf/100ft2)	0,0 / 0,0
6 / 3 rpm (lbf/100ft2)	1,0 / 1,0
Test temp (degC)	
Filtration tests	
Fluid loss API (ml)	
Cake thickn API (mm)	
Fluid loss HPHT (ml)	
Cake thickn HPHT (mm)	
Test temp HPHT (degC)	
Fluid loss Disc (ml)	
Spurt loss Disc (ml)	
Test temp Disc (degC)	
Test press Disc (bar)	
Disc pore size (Micron)	
Sag tests	
Dynamic duration (hrs)	
Dynamic temp (degC)	
Dynamic delta density (g/cm3)	
Static duration (hrs)	
Static temp (degC)	
Static delta density (g/cm3)	

Daily Drilling Report

OSEBERG B

Field: OSEBERG
Wellbore: NO 30/9-B-43

Period: 26.06.2000 00:00 - 27.06.2000 00:00

5.2 Fluid Volumes

5.2.1 Drilling Fluid Volumes

Observation time	Section	Fluid System	Density g/cm3	In wellbore m3	Total active system m3	Reserve pits m3	Total receiv m3	Built m3	Back-loaded m3	Lost to format ion m3	Left in hole m3	Lost on shake rs m3	Lost to lubri-cation m3	Lost to slop m3	Lost to evapo ration m3	Total loss m3
26.06.2000 12:00	24"	Bentonite	1,09	377,0	594,0	57,0				622,0						643,0
		Dumped new Bentonite/SW mud due to foam problem in mud.														
		Total								0,0	1 385,0	49,0		35,0		

5.2.3 Waste Handling

Observation time	Section	Fluid System	Density g/cm3	Empty skips on rig/boat	Full skips on rig	Skips filled last 24h	Full/empty cuttings bulk tanks on rig	Full/empty cuttings bulk tanks on boat	Cuttings bulk tanks transferred to boat last 24h	Volume of slop generated last 24h m3	Volume of slop treated last 24h m3	Slop unit efficiency %
26.06.2000 12:00	24"	Bentonite	1,09	/			/	/				NaN
		Dumped new Bentonite/SW mud due to foam problem in mud.										
		Total										NaN

6. Bit / BHA / Run

6.0 Bit Data & Drilling Parameters

Run no	Bit size	Bit no	Bit type	IADC code	Manufacturer		Serial no	Nozzles (n/32")				TFA in2		
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs					
5	24"	2RR	GTXCM00		Unknown		2444	5 x 15	2 x 16	0 x 0	0 x 0	1,256		
Run No	Depth MD		Form drl m	Form drl hrs	Form ROP m/hr	Total drl m	Total drl hrs	Total ROP m hr	Total Circ hrs					
5	1 159,0	1 383,0	224,0	32,8	6,8		0	0,0						
Run No	Pump		WOB		RPM		Torque		Conn drag					
	rate l/min	press bar	Min tonne	Max tonne	Min	Max	Min Nm	Max Nm	Min 1000 daN	Max 1000 daN				
5	4 350	155,00	0	4	101	178								
Run No	IADC Dull Grading							Remarks						
	I	O	DC	L	B	G	OC	RP	SIH STILL IN HOLE					

7. Geology / Pressure Data

7.5 Pressure Data

Depth m MD	Depth m TVD	Pore pressure g/cm3	Reading kind	Comments
1 264,0	1 131,3	1,05		