COMPLETION LOG

STATOIL

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Approved by:	I. Morvik
Date:	03.09.2003

OPERATOR	STATOIL (61%)
PARTNERS	PETORO (30%), HYDRO (9%)
EXPLORATION WELL	34/10-47 S/ST2 (N7-DOLLY)
PROSPECT STRUCTURE	GULLFAKS SATELLITES, TAMPEN SPUR

WELL INFORMATION SUMMARY
GULLFAKS SATELLITES
EXPLORATION WELL 34/10-47 S/ST2

License number:	PL050/050B
Block Number:	0034/10
Well:	0034/10-47 S/ST2
Well type:	Exploration well
Rig:	Deepsea Trym
Water Depth:	140.0 m MSL
RKB-MSL:	25.0 m
Primary Objective:	Evaluation of the potential for hydrocarbons in the Upper Jurassic sandstone in the N7/O7 area, prospect Aurora.
Secondary objective:	Exploration of the Middle Jurassic Brent Group in segment N7
TD:	4027 m MD/2445,3 m TVD RKB
Group at TD:	Shetland Group
Start of operation:	24.09.2002
End of operation:	03.11.2002
Well status:	Temporarily plugged and abandoned

Slot 4 coordinates:

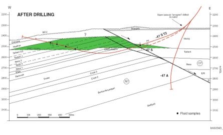
UTM:	Geographic:
6 783 506 N	61°10` 52,5" N
449 076 E	02°03` 11,1" E

Casing size	Casing depth m MD RKB/m TVD RKB	Hole size	Hole depth m MD RKB/m TVD RKB	Mud type /mud weight	Test type	Result g/cm³
30"	223,7/223,7	36"	227/227	Seawater/CMC/1,03 g/cm³ EMW		
20"	719,3/718,7	26"	725/724,5	Seawater/CMC/1,03 g/cm³ EMW	LOT	1,63
13 3/8"	1931,2/1918,7	17 ½"	1939/1926,2	Glydril/1,20-1,38 g/cm³ EMW	FIT	1,76
		12 ¼"	1944/1930,9	Glydril/1,40 g/cm³ EMW		
		8 ½"	4027/2445,3	Versavert OBM/1,50-1,63 g/cm³ EMW		

The toolstring got stuck at 2880 m MD in the 8 ½" section and the tool string had to be shoot free. Technical sidetrack 34/10–47 ST2 performed from 2428 m MD.
Logs down to 2428 m MD: 34/10-47 S
Logs from 2428 m MD to TD: 34/10-47 ST2

Well objectives

Primary objective for 34/10-47 S/ST2 was to evaluate the potential for hydrocarbons in the Upper Jurassic Viking Group in the N7/O7 segments area, prospect Aurora. The Middle Jurassic Brent Group in segment N7 was a secondary objective.



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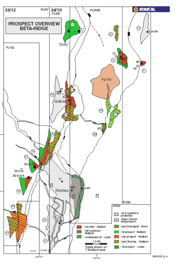
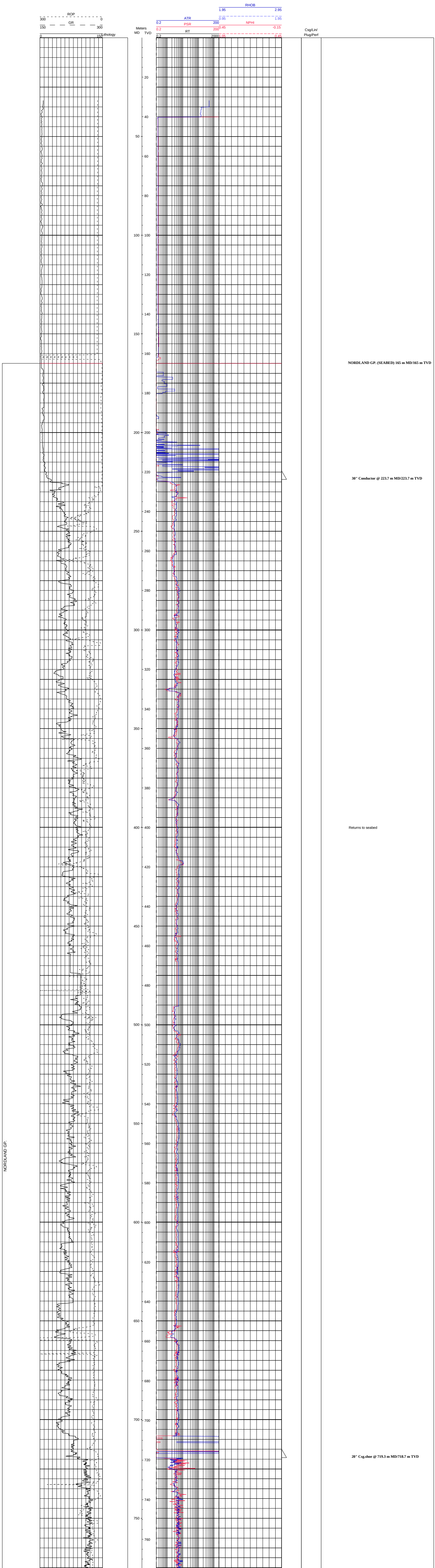
LWD Run Summary 34/10-47 S/ST2						
Contractor: Anadrill, Schlumberger D&M						
Run	**Logging Service (tool combination)**	**Pass**	**Pass direct.**	**Log speed**	**Interval [m MD]**	**Pass remark**
	Well 34/10-47 S					
	36" Section					
1	Powerpulse	Drilling	Down	ROP	165-227	
	Section 26"					
2	CDR/PWD	Drilling	Down	ROP	224-725	
	Section 17 ½"					
3	CDR/PWD	Drilling	Down	ROP	725-730	No signals from CDR, damaged threads on MWD
4	CDR/PWD	Drilling	Down	ROP	730-1939	
	Section 8 ½"					
5		Drilling	Down	ROP	1939-1944	12 ¼" clean out BHA
6	Vision 675/VADN/APWD	Drilling	Down	ROP	1944 - 2880	The tool string got stuck at 2880 m MD. The tool string had to be shot free.
	Well 34/10-47 ST2					
1	Vision 675	Drilling	Down	ROP	2428 - 2450	Kick off motor assembly
2	Vision 675/ VADN/APWD	Drilling	Down	ROP	2450 - 4027	

LOGS RUN					CONTRACTOR: SCHLUMBERGER
Run no.	Run ID	Logs run	Depth Top	Depth Bottom	Comments
2	1A	MDT	2879	3796	Run 1A: 39 pretest - 36 successful, 11 fluid samples taken



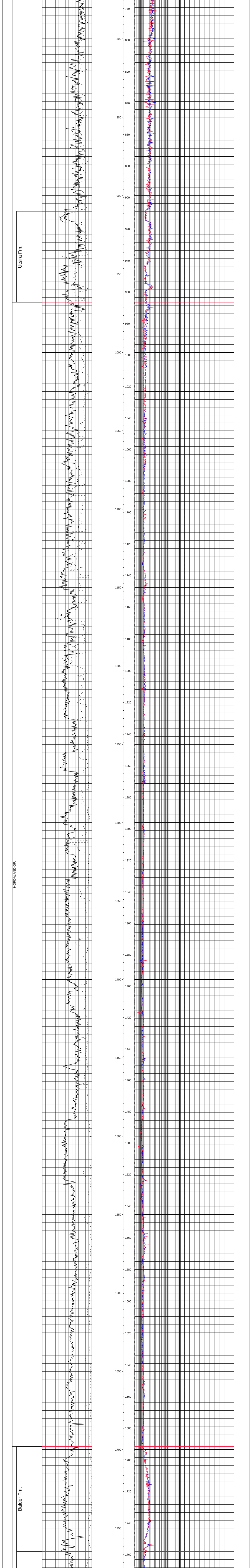


NORDLAND GP. (SEABED) 165 m MD/165 m TVD

30" Conductor @ 223.7 m MD/223.7 m TVD

Returns to seabed

20" Csg.shoe @ 719.3 m MD/718.7 m TVD



Top Utsira Fm. 910 m MD/908.8 m TVD

Top HORDALAND GP. 968 m MD/966.5 m TVD

CLST: med gry - dk gnsh gry, sft - frm,
subblky, micropyr i.p, calc

SST: clr-transl, lse qtz, v f-f, occ med,
sbang, sbrnd, w rnd, w srt

CLST: med gry - dk gnsh gry, sft - frm,
subblky, micropyr i.p, calc

SST: clr-transl, lse qtz, v f-f, occ med,
sbang, sbrnd, w rnd, w srt

CLST: lt olv gry-med lt gry, gnsh gry, occ dk
gry-med gry, sft-frm, occ hd, blky
tf, non-v cal

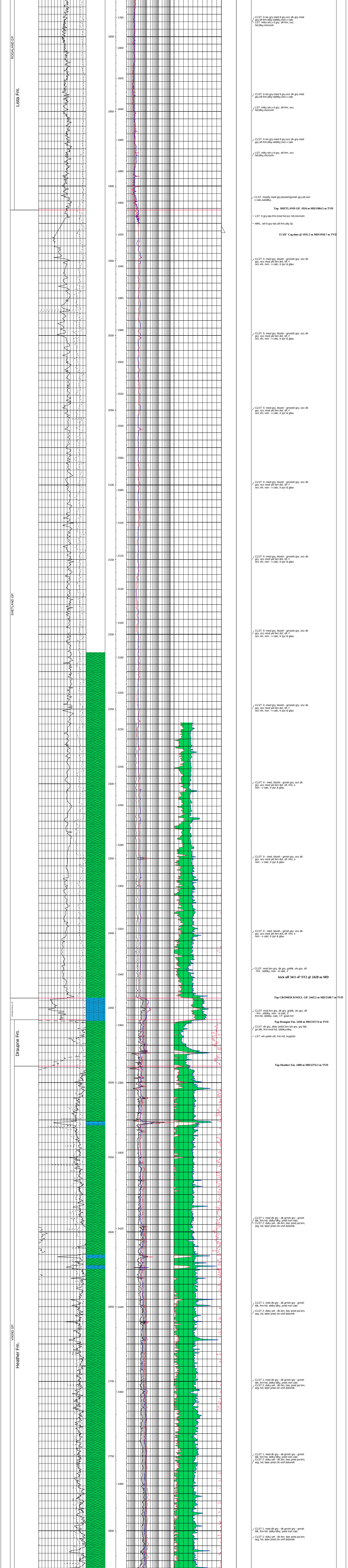
Top ROGALAND GP. 1698 m MD/1691.6 m TVD
Top Balder Fm. 1698 m MD/1691.6 m TVD

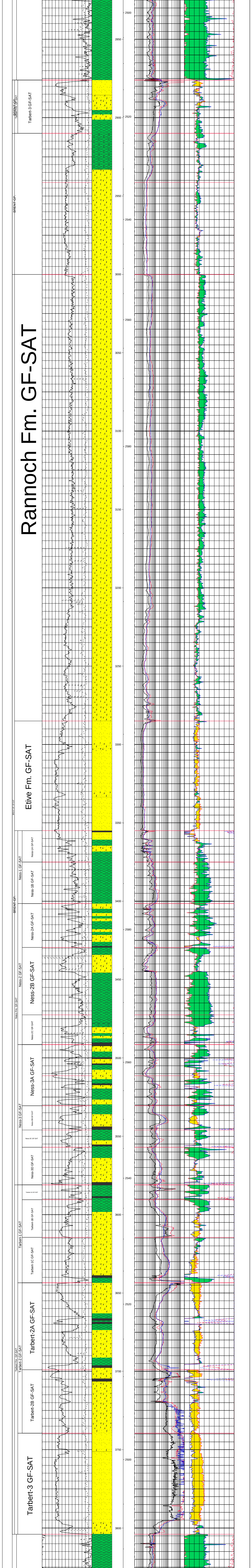
LST: mlky wh, v lt gry, sft-frm, occ hd, blky,
microxln

CLST: lt olv gry-med lt gry, gnsh gry, occ dk
gry-med gry, sft-frm, occ hd, blky
tf, non-v cal

LST: mlky wh, v lt gry, sft-frm, occ hd, blky,
microxln

Top Lista Fm. 1765 m MD/1758.1 m TVD





CLST 1: med dk gry - dk grnsh gry - grnsh blk, frm-hd, sblky-blky, pred non calc

CLST 2: dsky yel - dk brn, bec pred pa brn, arg, hd, later pred cln unif dolomik

Top BRENT GP. 2876 m MD/2513.2 m TVD

Top Tarbert Fm. 2876 m MD/2513.2 m TVD

TR LST: pa brn, hd, cryptoxln

SST: dk yel brn - olv gry arg mtx, clr-transl , tr mlky Qtz, pred slt-vf, min f, - pr srtd, later mod - wll srtd, abn - mod Kao/Ill arg, sft-stky slty mtx, grdg , tr rnd (v.crs, mlky Qtz), pred non calc cmt, slily mi

CLST: dom dk grnsh gry - gn blk -olv blk, blky-sbblky, mod hd- hd, loc brit, non micromic

Top Rannoch Fm. 2910 m MD/2523.2 m TVD

SST: dk yel brn - olv gry arg mtx, clr-transl , tr mlky Qtz, pred slt-vf, min f, - pr srtd, later mod - wll srtd, abn - mod Kao/Ill arg, sft-stky slty mtx, grdg , tr rnd (v.crs, mlky Qtz), pred non calc cmt, slily mi

Fault O7/N7 segments

Rannoch Fm. N7 segment 3000 m MD/2551.2 m TVD

SST: dk yel brn - olv gry arg mtx, clr-transl , tr mlky Qtz, pred slt-vf, min f, - pr srtd, later mod - wll srtd, abn - mod Kao/Ill arg, sft-stky slty mtx, grdg , tr rnd (v.crs, mlky Qtz), pred non calc cmt, slily mi

SST: dk yel brn - olv gry arg mtx, clr-transl , tr mlky Qtz, pred slt-vf, min f, - pr srtd, later mod - wll srtd, abn - mod Kao/Ill arg, sft-stky slty mtx, grdg , tr rnd (v.crs, mlky Qtz), pred non calc cmt, slily mi

SST: dk yel brn - olv gry arg mtx, clr-transl , tr mlky Qtz, pred slt-vf, min f, - pr srtd, later mod - wll srtd, abn - mod Kao/Ill arg, sft-stky slty mtx, grdg , tr rnd (v.crs, mlky Qtz), pred non calc cmt, slily mi

SST: dk yel brn - olv gry arg mtx, clr-transl , tr mlky Qtz, pred slt-vf, min f, - pr srtd, later mod - wll srtd, abn - mod Kao/Ill arg, sft-stky slty mtx, grdg , tr rnd (v.crs, mlky Qtz), pred non calc cmt, slily mi

SST: dsky yel brn- lt olv gry arg and slty mtx, clr -transl Qtz, loc mlky Qtz, s pred vf-med, tr crs- vcrs, mod wll srd - bec gen pr - mod wll srtd, frm- fri, sb , non calc, gen pr infer por, loc fr- gd infer por

CLST: dk olv gry - olv blk, later gen gnsh blk-blk, sbblky- blky, mod hd-hd, gen micropyr, non calc

SST: dsky yel brn- lt olv gry arg and slty mtx, clr -transl Qtz, loc mlky Qtz, s pred vf-med, tr crs- vcrs, mod wll srd - bec gen pr - mod wll srtd, frm- fri, sb , non calc, gen pr infer por, loc fr- gd infer por

CLST: dk olv gry - olv blk, later gen gnsh blk-blk, sbblky- blky, mod hd-hd, gen micropyr, non calc

SST: dsky yel brn- lt olv gry arg and slty mtx, clr -transl Qtz, loc mlky Qtz, s pred vf-med, tr crs- vcrs, mod wll srd - bec gen pr - mod wll srtd, frm- fri, sb , non calc, gen pr infer por, loc fr- gd infer por

Top Rannoch Fm. 3285 m MD/2595.4 m TVD

CLST: dk olv gry - olv blk, later gen gnsh blk-blk, sbblky- blky, mod hd-hd, gen micropyr, non calc

SST: dsky yel brn- lt olv gry arg and slty mtx, clr -transl Qtz, loc mlky Qtz, s pred vf-med, tr crs- vcrs, mod wll srd - bec gen pr - mod wll srtd, frm- fri, sb , non calc, gen pr infer por, loc fr- gd infer por

CLST: dk olv gry - olv blk, later gen gnsh blk-blk, sbblky- blky, mod hd-hd, gen micropyr, non calc

Top Etive Fm. 3355 m MD/2589.5 m TVD

COAL: blk, blky, shny, hd, brit

SST: dsky yel arg mtx, clr-transl Qtz, tr mlky Qtz, dom f-med, tr crs-vcrs, mod -sbrndd, slily arg mtx, loc cln, non calc, fr- gd infer por

CLST: med dk gry- olv gry, olv blk-blk, frm-hd, pred blky, loc sbblky, pred non grdg coalif SH, brit, flky, micropyr, non calc

TR LST: pa brn gry, sbblky, cryptoxln, loc xln, hd-v.hd

SST: dsky yel arg mtx, clr-transl Qtz, tr mlky Qtz, dom f-med, tr crs-vcrs, mod -sbrndd, slily arg mtx, loc cln, non calc, fr- gd infer por

CLST: med dk gry- olv gry, olv blk-blk, frm-hd, pred blky, loc sbblky, pred non grdg coalif SH, brit, flky, micropyr, non calc

CLST: lt- dk olv gry, med gn - dk gn gry - gn blk, sbblky-blky, mod hd-hd, loc f calc, loc v.carb, grdg coalif SH

SST: off wh - lt brnsh gry - yel brn arg mtx, dom clr-transl Qtz, dom vf-f, min - mod wll srtd, sbang-sbrndd, fri - frm, loc sil cmt, tr musc mic

OWC 2532.6 m TVD MSL

SST: off wh - lt brnsh gry - yel brn arg mtx, dom clr-transl Qtz, dom vf-f, min - mod wll srtd, sbang-sbrndd, fri - frm, loc sil cmt, tr musc mic

CLST: lt- dk olv gry, med gn - dk gn gry - gn blk, sbblky-blky, mod hd-hd, loc f calc, loc v.carb, grdg coalif SH

Top Ness Fm. 3581 m MD/2538.9 m TVD

SST: off wh - lt brnsh gry - yel brn arg mtx, dom clr-transl Qtz, dom vf-f, min - mod wll srtd, sbang-sbrndd, fri - frm, loc sil cmt, tr musc mic

SST: off wh - lt brnsh gry - yel brn arg mtx, dom clr-transl Qtz, dom vf-f, min - mod wll srtd, sbang-sbrndd, fri - frm, loc sil cmt, tr musc mic

COAL: blk, shny, hd, brit

COAL: blk, shny, hd, brit

CLST: dk grnsh gry - gnsh blk, blk, sbblky - sbfis, loc v.carb, grdg coalif SH,

SST: dom clr Qtz, vf- crs, dom f-med, tr crs-vcrs, mod wll srtd- pr srtd, sbang loc lse, slily micromic, gd infer por

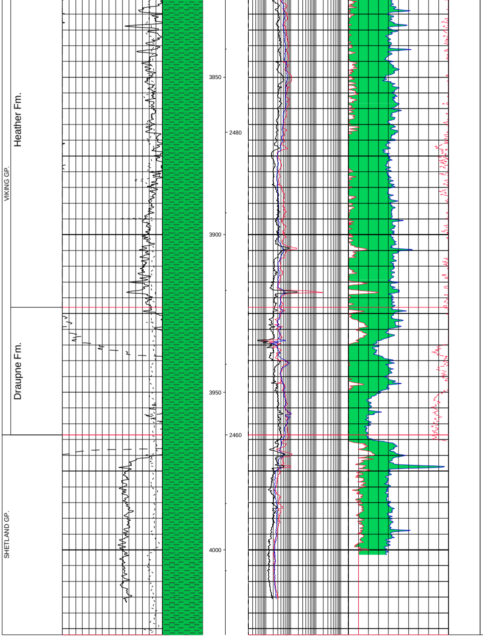
COAL/SH: grnsh blk-blk, fiss - mass, brit, hd

SST: dom clr Qtz, vf- crs, dom f-med, tr crs-vcrs, mod wll srtd- pr srtd, sbang loc lse, slily micromic, gd infer por

Top Tarbert Fm. 3804 m MD/2491.7 m TVD

Top BRENT GP. 3804 m MD/2491.7 m TVD

CLST:dom dk olv blk, grnsh gry, frm-hd, non slty, micropyr, tr pyr nods, loc sli



CLST:dom dk olv blk, grnsh gry, frm-hd, non slty, micropyr, tr pyr nods, loc sli

CLST: olv gry-olv blk, dom olv blk, frm-hd, sbblky-blky, occ sl slty, sl calc IP
traces Micropyrite, Limestone, Calcite

Top Heather Fm. 3923 m MD/2468.9 TVD

CLST: olv gry-olv blk, dom olv blk, frm-hd, sbblky-blky, occ sl slty, sl calc IP
traces Micropyrite, Limestone, Calcite

Top Draupne Fm. 3963.5 m MD/2460.0 m TVD

Top VIKING GP. 3963.5 m MD/2460.0 m TVD

CLST:dk grnsh gry-grn blk, blky, frm-mod hd, non slty, non calc, unif, Tr Lst, G

Total depth 4027 m MD/2445.3 m TVD

LITHOLOGY LEGEND

- 🟩 CLST-X-SLTY
- ⬛ C-X-X
- 🟩 CLST.SDY-X-X
- 🟩 CLST-X-X
- 🟦 LS-X-X
- 🟨 SST-X-X
- 🟨 SST-X-SLTY

Survey listing 34/10-47 ST2

MD m RKB	Dev.	Azimuth	TVD m RKB	NORTH m	EAST m	Dogleg deg/30m
165	0	0	165	6783506	449076	0
170	0.53	312.99	170	6783506	449076	3.18
180	0.75	310.86	180	6783506	449075.9	0.66
190	0.78	315.48	190	6783506	449075.8	0.21
200	0.81	312.88	200	6783506	449075.7	0.14
210	0.83	310.32	210	6783506	449075.6	0.13
220	0.88	305.48	220	6783506	449075.5	0.26
230	0.89	305.03	229.99	6783507	449075.4	0.04
240	0.95	300.08	239.99	6783507	449075.2	0.3
250	1.01	302.21	249.99	6783507	449075.1	0.21
260	1.09	299.94	259.99	6783507	449074.9	0.27
270	1.12	301.17	269.99	6783507	449074.8	0.11
280	1.21	298.67	279.99	6783507	449074.6	0.31
290	1.29	300.23	289.98	6783507	449074.4	0.26
300	1.39	295.94	299.98	6783507	449074.2	0.42
310	1.4	297.63	309.98	6783507	449074	0.13
320	1.46	297.75	319.98	6783507	449073.7	0.18
330	1.49	297.72	329.97	6783508	449073.5	0.09
340	1.54	296.52	339.97	6783508	449073.3	0.18
350	1.52	297.3	349.96	6783508	449073	0.09
360	1.52	297.34	359.96	6783508	449072.8	0
370	1.52	296.38	369.96	6783508	449072.6	0.08
380	1.52	296.19	379.95	6783508	449072.3	0.02
390	1.53	296.07	389.95	6783508	449072.1	0.03
400	1.47	298.47	399.95	6783508	449071.9	0.26
410	1.41	302.26	409.94	6783509	449071.6	0.34
420	1.51	299.07	419.94	6783509	449071.4	0.39
430	1.67	293.46	429.94	6783509	449071.2	0.67
440	1.61	294.99	439.93	6783509	449070.9	0.22
450	1.57	298.71	449.93	6783509	449070.7	0.33
460	1.61	298.8	459.93	6783509	449070.4	0.12
470	1.7	297.97	469.92	6783509	449070.2	0.28
480	1.99	294.11	479.92	6783509	449069.9	0.95
490	2.1	294.33	489.91	6783510	449069.6	0.33
500	2.33	291.98	499.9	6783510	449069.2	0.74
510	2.35	293.33	509.89	6783510	449068.8	0.18
520	2.4	293.24	519.88	6783510	449068.4	0.15
530	2.38	295.1	529.88	6783510	449068.1	0.24
540	2.5	293.09	539.87	6783510	449067.7	0.44
550	2.53	294.11	549.86	6783511	449067.3	0.16
560	2.56	293.62	559.85	6783511	449066.9	0.11
570	2.69	294.55	569.84	6783511	449066.5	0.41
580	2.9	294.13	579.83	6783511	449066	0.63
590	2.97	294.62	589.81	6783511	449065.5	0.22
600	3.18	292.42	599.8	6783512	449065.1	0.72
610	3.31	294	609.78	6783512	449064.5	0.47
620	3.6	292.86	619.76	6783512	449064	0.89
630	3.67	293.25	629.74	6783512	449063.4	0.22
640	3.85	293.16	639.72	6783513	449062.8	0.54
650	3.98	292.03	649.7	6783513	449062.2	0.45
660	4.05	292.71	659.67	6783513	449061.5	0.25
670	4.3	291.57	669.65	6783513	449060.8	0.79
680	4.4	291.17	679.62	6783514	449060.1	0.31
690	4.46	290.33	689.59	6783514	449059.4	0.27
700	4.39	291.73	699.56	6783514	449058.7	0.39
710	4.54	290.68	709.53	6783514	449058	0.51
720	4.52	291.57	719.5	6783515	449057.2	0.22
730	4.62	291.79	729.47	6783515	449056.5	0.3
740	4.63	291.83	739.43	6783515	449055.7	0.03
750	4.95	289.78	749.4	6783516	449055	1.09
760	4.89	290.16	759.36	6783516	449054.2	0.2
770	4.88	290.93	769.32	6783516	449053.4	0.2
780	4.9	290.87	779.29	6783517	449052.6	0.06
790	4.93	291.27	789.25	6783517	449051.8	0.14
800	4.98	290.88	799.21	6783517	449051	0.18
810	5	291.87	809.18	6783517	449050.1	0.27
820	5.04	291.28	819.14	6783518	449049.3	0.2
830	5.06	291.6	829.1	6783518	449048.5	0.1
840	5.14	291.4	839.06	6783518	449047.7	0.25
850	5.08	291.89	849.02	6783519	449046.9	0.22
860	5.15	291.64	858.98	6783519	449046	0.22
870	5.19	291	868.94	6783519	449045.2	0.21
880	5.23	291.32	878.9	6783520	449044.3	0.15
890	5.22	291.58	888.86	6783520	449043.5	0.08
900	5.33	291.78	898.81	6783520	449042.6	0.33
910	5.3	292.55	908.77	6783521	449041.8	0.23
920	5.35	292.19	918.73	6783521	449040.9	0.18
930	5.42	291.73	928.68	6783521	449040.1	0.25
940	5.56	290.81	938.64	6783522	449039.2	0.5
950	5.53	291.62	948.59	6783522	449038.3	0.25
960	5.48	291.75	958.54	6783523	449037.4	0.15
970	5.56	291.13	968.5	6783523	449036.5	0.3
980	5.57	291.96	978.45	6783523	449035.6	0.24
990	5.62	291.28	988.4	6783524	449034.7	0.25
1000	5.55	291.76	998.36	6783524	449033.8	0.25
1010	5.58	291.94	1008.31	6783524	449032.9	0.1
1020	5.29	290.18	1018.26	6783525	449032	1
1030	4.84	284.35	1028.22	6783525	449031.1	2.05
1040	4.36	274.66	1038.19	6783525	449030.4	2.74
1050	4.24	267.82	1048.17	6783525	449029.6	1.58
1060	4.33	265.07	1058.14	6783525	449028.9	0.67
1070	4.35	264.7	1068.11	6783525	449028.1	0.1
1080	4.42	263.81	1078.08	6783525	449027.4	0.29
1090	4.55	258.25	1088.05	6783525	449026.6	1.36
1100	5.28	250.84	1098.01	6783525	449025.8	2.9
1110	5.62	245.58	1107.97	6783524	449024.9	1.81
1120	6.01	240.57	1117.92	6783524	449024	1.92
1130	6.58	234.29	1127.86	6783523	449023.1	2.68
1140	7.5	228.57	1137.78	6783522	449022.1	3.47
1150	8.34	224.79	1147.68	6783521	449021.1	2.96
1160	8.95	223.24	1157.57	6783520	449020.1	1.96
1170	9.45	221.37	1167.44	6783519	449019	1.75
1180	10.08	220.04	1177.3	6783518	449017.9	2.01
1190	10.33	219.51	1187.14	6783516	449016.7	0.8
1200	10.39	219.3	1196.98	6783515	449015.6	0.21
1210	9.97	217.22	1206.82	6783514	449014.5	1.67
1220	9.47	214.76	1216.68	6783512	449013.5	1.95
1230	8.92	212.87	1226.55	6783511	449012.6	1.88
1240	8.14	210.19	1236.44	6783510	449011.9	2.63
1250	7.45	207.2	1246.34	6783509	449011.2	2.4
1260	6.84	204.33	1256.27	6783507	449010.7	2.12
1270	6.12	200.08	1266.2	6783506	449010.2	2.59
1280	5.66	196.81	1276.15	6783505	449009.9	1.71
1290	5.29	192.61	1286.1	6783505	449009.7	1.64
1300	4.95	187	1296.06	6783504	449009.5	1.81
1310	4.65	178.33	1306.03	6783503	449009.5	2.35
1320	4.49	171.23	1316	6783502	449009.5	1.76
1330	4.36	160.93	1325.97	6783501	449009.7	2.41
1340	4.27	157.56	1335.94	6783501	449010	0.81
1350	4.25	158.69	1345.91	6783500	449010.3	0.26
1360	4.18	165.84	1355.88	6783499	449010.5	1.59
1370	4.25	181.18	1365.86	6783498	449010.6	3.38
1380	4.01	184.75	1375.83	6783498	449010.5	1.05
1390	3.85	197.54	1385.81	6783497	449010.4	2.67
1400	3.47	205.64	1395.79	6783496	449010.2	1.92
1410	3.37	217.31	1405.77	6783496	449009.9	2.11
1420	3.28	223.01	1415.75	6783496	449009.5	1.03
1430	2.98	221.87	1425.74	6783495	449009.1	0.92
1440	2.31	217.28	1435.73	6783495	449008.8	2.11
1450	1.59	201.36	1445.72	6783494	449008.7	2.68
1460	1.2	158.81	1455.72	6783494	449008.6	3.23
1470	1.49	125.55	1465.72	6783494	449008.8	2.46
1480	2.34	104.52	1475.71	6783494	449009.1	3.27
1490	3.05	95.97	1485.7	6783494	449009.5	2.44
1500	4.17	91.19	1495.68	6783494	449010.2	3.48
1510	5.06	89.23	1505.65	6783494	449011	2.71
1520	5.78	89.37	1515.6	6783494	449011.9	2.16
1530	6.43	93.41	1525.55	6783494	449013	2.34
1540	7.26	98.39	1535.47	6783494	449014.2	3.06
1550	7.92	101.81	1545.39	6783493	449015.5	2.4
1560	8.7	106.48	1555.28	6783493	449016.9	3.09
1570	9.17	110.35	1565.16	6783493	449018.3	2.29
1580	9.71	113.49	1575.03	6783492	449019.9	2.24
1590	10.08	118.85	1584.88	6783491	449021.4	2.98
1600	10.29	123.49	1594.72	6783490	449022.9	2.54
1610	10.36	126.67	1604.56	6783489	449024.4	1.72
1620	10.11	131.87	1614.4	6783488	449025.8	2.87
1630	9.76	135.14	1624.25	6783487	449027	1.99
1640	9.25	138.9	1634.11	6783486	449028.1	2.41
1650	8.6	143.74	1643.99	6783485	449029.1	2.98
1660	8.07	149.07	1653.89	6783483	449029.9	2.81
1670	7.57	156.5	1663.79	6783482	449030.5	3.38
1680	7.1	162.16	1673.71	6783481	449031	2.58
1690	6.73	170.31	1683.64	6783480	449031.3	3.14
1700	6.56	175.76	1693.57	6783479	449031.4	1.96
1710	6.52	184.66	1703.51	6783478	449031.4	3.04
1720	6.5	190.26	1713.44	6783476	449031.3	1.9
1730	6.76	196.52	1723.38	6783475	449031	2.3
1740	7.03	201.15	1733.3	6783474	449030.6	1.85
1750	7.59	207.69	1743.22	6783473	449030.1	3.01
1760	7.97	211.86	1753.13	6783472	449029.4	2.04
1770	8.61	217.63	1763.03	6783471	449028.6	3.15
1780	9.15	222.98	1772.91	6783469	449027.6	2.96
1790	9.89	228.57	1782.77	6783468	449026.4	3.55
1800	10.37	232.55	1792.61	6783467	449025	2.55
1810	11.03	236.28	1802.44	6783466	449023.5	2.87
1820	11.7	238.95	1812.24	6783465	449021.9	2.56
1830	12.39	240.47	1822.02	6783464	449020.1	2.28
1840	13.24	242.41	1831.77	6783463	449018.1	2.86
1850	14.24	244.14	1841.49	6783462	449016	3.24
1860	15.1	245.86	1851.16	6783461	449013.7	2.89
1870	16.31	247.83	1860.79	6783460	449011.2	3.97
1880	17	249.55	1870.37	6783459	449008.5	2.54
1890	17.94	251.42	1879.91	6783458	449005.7	3.28
1900	18.67	252.72	1889.4	6783457	449002.7	2.51
1910	19.05	252.88	1898.86	6783456	448999.6	1.15
1920	19.48	252.42	1908.3	6783455	448996.5	1.37
1930	19.38	252.68	1917.73	6783454	448993.3	0.4
1940	19.46	252.89	1927.17	6783453	448990.1	0.32
1950	19.72	252.88	1936.59	6783452	448986.9	0.78
1960	20.03	253.04	1945.99	6783451	448983.7	0.94
1970	20.46	253.03	1955.37	6783450	448980.4	1.29
1980	20.65	253.28	1964.74	6783449	448977	0.63
1990	20.71	253.37	1974.09	6783448	448973.6	0.2
2000	20.87	254.34	1983.44	6783447	448970.2	1.14
2010	20.78	255.46	1992.79	6783446	448966.8	1.22
2020	20.9	256.94	2002.13	6783445	448963.3	1.62
2030	20.68	258.77	2011.48	6783444	448959.9	2.06
2040	20.74	260.26	2020.84	6783444	448956.4	1.59
2050	20.69	261.73	2030.19	6783443	448952.9	1.57
2060	20.64	262.45	2039.55	6783443	448949.4	0.78
2070	21.17	262.81	2048.89	6783442	448945.9	1.64
2080	21.34	263.11	2058.21	6783442	448942.3	0.61
2090	21.97	263.94	2067.5	6783441	448938.6	2.1
2100	22.7	265.22	2076.75	6783441	448934.8	2.63
2110	23.38	266.17	2085.95	6783441	448930.9	2.32
2120	23.89	266.93	2095.11	6783440	448926.9	1.78
2130	24.4	268.14	2104.24	6783440	448922.8	2.13
2140	25.23	269.05	2113.32	6783440	448918.7	2.74
2150	25.78	269.37	2122.34	6783440	448914.4	1.7
2160	26.28	269.56	2131.33	6783440	448910	1.52
2170	26.9	269.59	2140.27	6783440	448905.5	1.86
2180	27.64	269.64	2149.16	6783440	448900.9	2.22
2190	28.46	269.43	2157.98	6783440	448896.2	2.48
2200	29.42	269.43	2166.74	6783440	448891.4	2.88
2210	30.89	269.35	2175.38	6783440	448886.4	4.41
2220	31.43	268.98	2183.94	6783440	448881.2	1.72
2230	32.66	268.92	2192.42	6783440	448875.9	3.69
2240	33.73	268.75	2200.78	6783440	448870.4	3.22
2250	35.25	268.57	2209.03	6783439	448864.7	4.57
2260	35.95	268.55	2217.16	6783439	448858.9	2.1
2270	36.67	268.81	2225.21	6783439	448853	2.21
2280	37.51	269.12	2233.19	6783439	448847	2.58
2290	38.34	269.5	2241.08	6783439	448840.8	2.59
2300	39.03	269.78	2248.89	6783439	448834.6	2.14
2310	39.85	270	2256.61	6783439	448828.2	2.5
2320	40.7	270.38	2264.24	6783439	448821.8	2.65
2330	41.24	270.75	2271.79	6783439	448815.2	1.78
2340	41.8	270.98	2279.28	6783439	448808.6	1.74
2350	42.79	271.01	2286.67	6783439	448801.9	2.97
2360	43.92	270.9	2293.94	6783439	448795	3.4
2370	44.84	270.53	2301.09	6783439	448788	2.87
2380	45.47	270.44	2308.14	6783439	448780.9	1.9
2390	46.14	270.23	2315.11	6783440	448773.8	2.06
2400	47.36	270.1	2321.97	6783440	448766.5	3.67
2410	48.33	270	2328.68	6783440	448759.1	2.92
2433.03	52.1	271.28	2343.41	6783440	448741.4	5.07
2442.29	52.86	271.7	2349.05	6783440	448734.1	2.7
2473.58	57.55	274.23	2366.9	6783441	448708.4	4.92
2501.78	62.95	276.62	2380.89	6783444	448684.1	6.15
2531.1	65.52	274.1	2393.64	6783446	448657.8	3.51
2561.05	66.55	270.57	2405.81	6783447	448630.5	3.39
2590.95	67.35	268.45	2417.51	6783447	448603	2.12
2621.53	67.38	269.29	2429.28	6783446	448574.7	0.76
2651.41	68.39	269.34	2440.53	6783446	448547.1	1.02
2680.56	69.53	268.81	2451	6783446	448519.9	1.28
2710.54	70.31	268.73	2461.29	6783445	448491.7	0.78
2740.87	71.18	268.44	2471.29	6783444	448463.1	0.9
2767.71	71.76	267.62	2479.82	6783443	448437.7	1.08
2798.27	72.12	268.27	2489.3	6783442	448408.7	0.7
2827.91	71.8	268.6	2498.48	6783442	448380.5	0.45
2847.81	71.48	268.95	2504.74	6783441	448361.6	0.7
2877.5	73.27	271.61	2513.74	6783441	448333.4	3.14
2887.23	72.97	270.55	2516.56	6783442	448324.1	3.26
2917.32	72.84	270.32	2525.41	6783442	448295.3	0.25
2946.64	71.91	269.77	2534.28	6783442	448267.4	1.09
2975.41	71.13	269.86	2543.4	6783442	448240.1	0.82
3005.19	71.4	270.31	2552.97	6783442	448211.9	0.51
3033.45	73.72	271.58	2561.44	6783442	448185	2.78
3062.43	75.47	272.58	2569.14	6783443	448157.1	2.07
3091.65	76.64	271.24	2576.18	6783444	448128.7	1.8
3120.83	78.48	271.38	2582.46	6783445	448100.2	1.9
3150.97	80.33	270.89	2588	6783445	448070.6	1.9
3180.24	82.96	272.56	2592.26	6783446	448041.7	3.18
3211.3	85.64	271.13	2595.34	6783447	448010.8	2.93
3239.68	89.04	270.44	2596.66	6783448	447982.5	3.67
3268.56	92.07	269.58	2596.38	6783448	447953.6	3.27
3297.83	93.87	269.89	2594.86	6783447	447924.4	1.87
3327.9	95.4	270.05	2592.43	6783447	447894.5	1.53
3356.86	96.69	270.96	2589.38	6783448	447865.7	1.63
3387.89	98.68	270.98	2585.23	6783448	447834.9	1.92
3415.7	100.6	270.41	2580.57	6783449	447807.5	2.19
3445.14	102.3	270.11	2574.72	6783449	447778.7	1.73
3474.98	105.1	270.59	2567.63	6783449	447749.7	2.93
3504.36	106.2	270.59	2559.67	6783449	447721.5	1.1
3534.21	105.8	270.32	2551.42	6783449	447692.8	0.5
3564.27	105.3	269.75	2543.35	6783449	447663.8	0.76
3591.97	105	270	2536.09	6783449	447637.1	0.38
3622.4	104.3	269.51	2528.37	6783449	447607.7	0.82
3651.93	103.5	269.44	2521.25	6783449	447579	0.86
3681.94	102.3	269.91	2514.52	6783449	447549.8	1.23
3711.41	101.4	270.08	2508.42	6783449	447521	0.94
3740.84	100.3	269.3	2502.86	6783449	447492.1	1.41
3770.29	100.2	269.34	2497.61	6783448	447463.1	0.13
3799.77	99.81	269.42	2492.48	6783448	447434.1	0.41
3828.96	100.4	268.5	2487.34	6783447	447405.4	1.16
3859.28	101	268.31	2481.68	6783447	447375.6	0.57
3888.55	101.3	268.39	2476.01	6783446	447346.9	0.35
3918.28	102	267.36	2469.98	6783445	447317.9	1.24
3946.87	102.6	266.9	2463.85	6783443	447290	0.82
3976.18	103.4	266.85	2457.24	6783442	447261.5	0.73
4006.17	103.7	265.72	2450.2	6783440	447232.4	1.15
4027	103.7	265.72	2445.26	6783438	447212.2	0

MDT - pressure tests summary 34/10-47 St2

Formation Pressures

Run no.: 1A | Well: 34/10-47 ST5 | Date: 24-26.10.2002 | Rig: Deepsea Trym | RKB: 25 m.

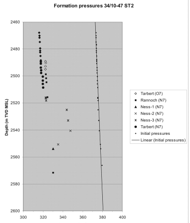
PORE PRESSURE (s.g ref. RKB) = 10.195*FORM. PRESSURE / mTVD RKB

ZONE NAME	Log Run No.	Test No.	DEPTH m MD RKB	DEPTH m TVD MSL	FORM. PRESS. (bar)	HYDROSTATIC PRESS. (bar) BEFORE	HYDROSTATIC PRESS. (bar) AFTER	TEMP (°C)	GOOD SEAL (Y/N)	REMARKS (Pressure gauge id.)	MOB-ILITY mD/cP	PORE PRESS. s.g ref. RKB (g/cm3)	HYDROST. PRESS. s.g ref. RKB (g/cm3)	INITIAL PRESS. (bar)	DEPLE-TION (bar)
Segment O7															
Tarbert	1	1	2878,6	2489,0	322,58	403,38	403,40	87,4	Y	No sample, No over-pull	512	1,308	1,636	372,65	50,07
Tarbert	1	2	2883,5	2490,4	322,67	403,63	403,29	89,3	Y		1050	1,308	1,636	372,69	50,02
Tarbert	1	3	2892,5	2493,0	322,34	404,07	403,70	89,3	Y		158	1,305	1,636	372,80	50,46
Tarbert	1	4	2900,1	2495,2	322,52	404,45	404,09	89,5	Y		35,3	1,305	1,636	372,89	50,37
Segment N7															
Rannoch	1	5	2912,5	2498,9	322,82	404,97	404,55	89,9	Y	Low draw down	3,2	1,304	1,636	373,03	50,21
Rannoch	1	6	2922,5	2501,8	323,15	405,43	405,06	90,2	Y		43,7	1,304	1,636	373,15	50,00
Rannoch	1	7	2932,5	2504,8	323,51	405,86	405,50	90,5	Y		89,2	1,304	1,636	373,27	49,76
Rannoch	1	8	2967,5	2515,8	324,56	407,53	407,18	90,9	Y		125,4	1,302	1,636	374,25	49,69
Rannoch	1	9	3253,3	2571,6	330,10	415,86	415,70	93,2	Y		86,2	1,296	1,633	380,15	50,05
Etive	1	10	3339,8	2566,2	329,51	414,96	414,67	94,1	Y		3898	1,296	1,633	379,47	49,96
Ness-1	1	11	3424,0	2553,9	330,21	412,67	412,47	94,5	Y		12,5	1,305	1,631	378,19	47,98
Ness-2	1	12	3440,0	2550,7	335,38	412,33	412,04	94,6	Y		17,1	1,327	1,632	377,86	42,48
Ness-2	1	13	3482,0	2540,7	347,58	410,42	410,22	94,5	Y		10,9	1,381	1,631	376,83	29,25
Ness-3	1	14	3509,0	2533,3	345,34	409,41	410,13	94,4	Y		24,3	1,376	1,632	376,04	30,70
Ness-3	1	15	3538,5	2525,2	344,03	408,88	407,8	94,3	Y		470,3	1,375	1,635	375,66	31,63
Ness-3	1	16	3565,0	2518,0	323,09	407,2	406,9	94,1	Y		5	1,295	1,632	375,38	52,29
Ness-3	1	17	3571,0	2516,5	322,96	406,8	406,6	94,0	Y		12,9	1,296	1,632	375,32	52,36
Ness-3	1	18	3575,0	2515,4	322,86	406,2	406,9	94,1	Y		29,5	1,295	1,630	375,30	52,44
Tarbert	1	19	3602,6	2508,2	320,16	404,83	404,7	93,9	Y		269,9	1,288	1,629	375,00	54,84
Tarbert	1	20	3611,0	2506,1	319,79	404,8	404,6	93,9	Y		332,9	1,288	1,631	374,89	55,10
Tarbert	1	21	3621,6	2503,5	319,88	404,9	404,4	93,8	Y		170,7	1,289	1,633	374,79	54,91
Tarbert	1	22	3633,6	2500,5	319,69	404,2	404,1	93,8	Y		262,4	1,291	1,632	374,67	54,98
Tarbert	1	23	3644,9	2497,8	318,23	403,8	403,4	93,8	Y		4652	1,286	1,632	374,56	56,33
Tarbert	1	24	3653,0	2495,9	318,08	403,4	403,0	93,7	Y		869,5	1,286	1,632	374,48	56,4
Tarbert	1	25	3661,1	2494,0	317,95	403,1	403,8	93,7	Y		62,3	1,287	1,632	374,41	56,46
Tarbert	1	26	3674,2	2491,1	317,77	402,6	402,2	93,7	Y		1315	1,288	1,631	374,29	56,52
Tarbert	1	27	3681,0	2489,6	317,66	402,5	402,2	93,7	Y		189,4	1,288	1,632	374,23	56,57
Tarbert	1	28	3688,0	2488,1				93,8	N	No seal	-	-	-	374,17	-
Tarbert	1	29	3686,0	2488,6	317,62	401,01		93,6	Y	Repeated sample no. 28	67,1	1,288	1,627	374,19	56,57
Tarbert	1	30	3701,0	2485,4	317,41	401,9	401,4	93,7	Y		56	1,289	1,632	374,06	56,65

Formation tops 34/10-47 S

Lithostratigraphical tops	MD	TVD	Easting	Northing
NORDLAND GROUP	165	165	449076.0	6783506.0
Utsira Formation	910	908.7	449041.8	6783520.7
HORDALAND GP.	968	966.5	449036.7	6783522.8
Sand part of Hordaland Gp.	968	966.5	449036.7	6783522.8
Sandfree part of Hordaland Gp.	1529	1524.6	449012.9	6783493.8
ROGALAND GP.	1698	1691.6	449031.4	6783478.9
Balder Fm.	1698	1691.6	449031.4	6783478.9
Lista Fm.	1765	1758.1	449029.0	6783471.2
SHETLAND GP.	1916	1904.5	448997.8	6783455.2
CROMER KNOLL GP.	2443.5	2350.5	448733.5	6783439.3
Base Cretaceous	2458.00	2359.31	448722.0	6783439.2
VIKING GP. Top	2458.00	2359.31	448722.0	6783439.2
Draupne Fm. Top	2458.00	2359.31	448722.0	6783439.2
Heather Fm. Top	2488.00	2377.11	448697.8	6783438.8
BRENT GP. Top	2806.00	2515.86	448413.2	6783432.4
Tarbert Fm. Top	2806.00	2515.86	448413.2	6783432.4
Tarbert Fm. Base	2880.00	2540.26	448343.3	6783432.6
TD	2880.00	2540.26	448343.3	6783432.6

MDT-Formation pressures 34/10-47 ST2



Formation tops 34/10-47 ST2

Lithostratigraphical tops	MD	TVD RKB	Easting	Northing
NORDLAND GROUP	165	165	449076.0	6783506.0
Utsira Formation	910	908.7	449041.8	6783520.7
HORDALAND GP.	968	966.5	449036.7	6783522.8
Sand part of Hordaland Gp.	968	966.5	449036.7	6783522.8
Sandfree part of Hordaland Gp.	1529	1524.6	449012.9	6783493.8
ROGALAND GP.	1698	1691.6	449031.4	6783478.9
Balder Fm.	1698	1691.6	449031.4	6783478.9
Lista Fm.	1765	1758.1	449029.0	6783471.2
SHETLAND GP.	1916	1904.5	448997.8	6783455.2
CROMER KNOLL GP.	2443.5	2349.7	448733.1	6783440.0
BASE CRETATEOUS	2458.00	2357.93	448720.9	6783440.6
VIKING GP.	2458.00	2357.93	448720.9	6783440.6
Draupne Fm.	2458.00	2357.93	448720.9	6783440.6
Heather Fm.	2489.00	2374.46	448694.9	6783442.6
BRENT GP. Segment O7	2876.00	2513.19	448334.4	6783441.4
Tarbert-3	2876.00	2513.19	448334.4	6783441.4
BRENT GP. Segment N7	2910.00	2523.16	448301.9	6783441.7
Rannoch Fm.	2910.00	2523.16	448301.9	6783441.7
Rannoch Fm.	3285.00	2595.44	447936.7	6783447.6
Etive Fm.	3355.00	2589.49	447867.0	6783447.7
Ness Fm.	3581.00	2538.88	447647.1	6783449.4
Tarbert Fm.	3804.00	2491.65	447429.2	6783447.9
BRENT GP.	3804.00	2491.65	447429.2	6783447.9
Heather Fm. Top	3923.00	2468.88	447312.5	6783444.5
Draupne Fm. Top	3963.50	2460.01	447273.0	6783442.5
VIKING GP. Top	3963.50	2460.01	447273.0	6783442.5
BASE CRETATEOUS	3963.50	2460.01	447273.0	6783442.5
SHETLAND GP. Base	3963.50	2460.01	447273.0	6783442.5
TD	4027.00	2445.30	447212.2	6783438.4

STATOIL

EXPLORATION

Depth scale	Depth Units	Depth type
1:500	METER	MD

Interpreter	Date
EIG/GMM/ABNO	3-September-2003