

Denne rapport
tilhører



L&U DOK. SENTER

L. NR. 12884440387

KODE Well 34/10-21 nr 10

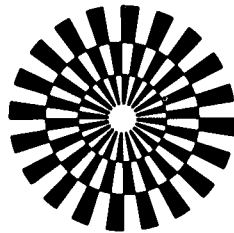
Returneres etter bruk

STATOIL

ROUTINE CORE ANALYSIS

WELL: 34/10-21

DATE: OCTOBER 1984



GECO
GEOPHYSICAL COMPANY
OF NORWAY A/S



STATOIL
ROUTINE CORE ANALYSIS
WELL: 34/10-21
DATE: OCTOBER 1984



ROUTINE CORE ANALYSIS

COMMENTS

GENERAL: Core analyses including horizontal and vertical permeability, porosity, grain density and fluid saturation have been performed on core samples collected from well 34/10-21 at the depths requested by Statoil.

PREPARATION: The plug samples for analyses were collected by drilling with a one inch bore in the horizontal and vertical planes using water as a cooling agent. The sample plugs were then cut to lengths of one inch, cleaned in an extractor using methanol and toluene and dried at 60°C and 40% relative humidity under controlled conditions for 24 hours.

MEASUREMENTS: AIR PERMEABILITY

All samples were installed in a Hassler holder for air permeability measurements. Confining sleeve pressure was set at 15 bar. Standard air permeability, k_a , was measured by injection of nitrogen gas and then converted empirically to liquid permeability, k_l .

POROSITY AND GRAIN DENSITY

Porosity and grain density data were collected from the horizontal sample plugs only. Grain volume was measured by a Boyle's law porosimeter using helium while bulk volume was obtained by a mercury displacement pump. Knowing also the weight of the sample, porosity and grain density were calculated.

FLUID SATURATION

Oil and water content (S_o and S_w) were determined by retort.

ABBREVIATIONS: npp - no plug possible
nhpp - no horizontal plug possible
nvpp - no vertical plug possible
nmp - no measurement possible

FINAL REPORT

COMPANY : Statoil
 WELL : 34/10-21
 FIELD : 34/10
 STATE : Norway

PAGE: 1

CORE NO.: 1

DATE: OCTOBER 1984



Plug No.	Depth (meter)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	K _l	vertical K _a	K _l	He	Sum.	S _o	S _w		
	3289.00										
1	3289.00	247	236	191	182	21.6	21.4	2.9	26.5	2.65	Sst.Lt.gry.F-gr.Sbang.W-cmt.w/Scat-Mic.
2	3289.30	139	132	115	109	21.6				2.65	A.A.VW-srt.ltl-Calc.
3	3290.00	47.9	44.1	56.8	52.6	18.6	19.3	1.9	21.3	2.65	A.A.
4	3290.30	118	111	163	155	20.8				2.65	A.A.
5	3290.65	165	149	57.0	53.2	20.7				2.65	A.A.
6	3291.00	25.2	22.8	32.8	30.0	17.4	17.5	3.4	25.9	2.65	A.A.
7	3291.30	107	101	117	111	21.0				2.65	A.A.
8	3291.65	258	247	116	110	22.9				2.64	A.A.
9	3292.00	208	199	86.7	81.6	22.3	21.3	2.0	17.2	2.64	A.A.
10	3292.30	188	179	190	181	22.1				2.64	A.A.
11	3292.65	10.1	8.9	20.2	18.3	12.0				3.14	A.A.VW-cmt.Pyr-abd.w/Sid.
12	3293.00	23.4	21.2	30.8	28.2	14.8	20.7	3.5	26.8	3.04	A.A.
13	3293.30	223	213	144	137	21.3				2.64	A.A.W-cmt.w/o Pyr,Sid.
14	3293.65	207	198	390	376	21.7				2.64	A.A.
15	3294.00	257	246	213	203	22.7	22.5	2.7	26.5	2.65	A.A.
16	3294.30	34.6	31.8	135	128	16.0				2.65	A.A.VW-cmt.
17	3294.65	255	244	288	276	22.1				2.64	A.A.W-cmt.
18	3295.00	229	219	198	189	20.7	21.5	2.8	25.7	2.64	A.A.
19	3295.30	80.4	75.2	47.7	44.5	18.5				2.64	A.A.VW-cmt.
20	3295.65	231	220	144	137	22.0				2.64	A.A.W-cmt.
21	3296.00	16.8	15.3	132	126	13.9	22.1	2.8	29.5	2.65	A.A.VW-cmt.Fr-srt.
22	3296.30	112	105	36.2	33.6	19.6				2.65	A.A.W-cmt.W-srt.
23	3296.65	320	308	325	312	22.2				2.65	A.A.
24	3297.00	368	355	200	191	23.0	21.8	3.2	26.8	2.65	A.A.
25	3297.30	179	170	32.0	29.7	22.4				2.65	A.A.Fr-srt.
26	3297.65	276	264	244	234	23.3				2.64	A.A.
27	3298.00	32.6	30.1	1.5	1.2	18.5	20.3	2.2	29.3	2.65	A.A.Cl/Pyr-lam.

FINAL REPORT

COMPANY : Statoil
 WELL : 34/10-21
 FIELD : 34/10
 STATE : Norway

PAGE: 1

CORE NO.: 2

DATE: OCTOBER 1984



Plug No.	Depth (meter)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	K _l	vertical K _a	K _l	He	Sum.	S _o	S _w		
	3307.00										
52	3307.00	1.0	0.78	0.55	0.43	10.3	6.4	11.4	34.3	2.71	Sst.Lt-gry.F-gr.Sbang.VW-cmt.w/Calc,Sid.
53	3307.40	0.69	0.54	0.51	0.39	10.7				2.71	A.A.VW-srt.
54	3307.75	38.1	35.2	13.5	12.2	20.4				2.65	A.A.F-gr.W-cmt.w/o Calc,Sid.w/Mic.
55	3308.30	81.3	76.3	66.2	62.1	20.4	20.1	2.8	37.1	2.64	A.A.F/M-gr.
56	3308.65	9.1	8.0	3.0	2.5	19.1				2.65	A.A.VF-gr.
57	3309.00	30.0	27.6	12.5	11.3	21.7	21.8	3.4	42.3	2.67	A.A.F-gr.scnt-Pyr.
58	3309.65	8.1	7.1	3.2	2.6	11.7				2.72	A.A.w/Pyr,Cl/Sid-lam.
59	3310.00	30.4	27.9	29.7	27.5	22.4	22.9	2.4	40.1	2.65	A.A.w/o Pyr,Cl,Sid.
60	3310.30	38.7	35.7	6.1	5.3	21.6				2.64	A.A.
61	3311.00	0.42	0.32	0.32	0.24	6.5	13.9	10.2	43.7	2.73	A.A.VF-gr.VW-cmt.C/Mic-lam.W/Cl,Sid,Pyr.
62	3311.30	0.38	0.29	0.32	0.24	5.2				2.98	A.A.VW-cmt.incr.Sid,Calc.
63	3311.65	1.7	1.4	3.8	3.2	12.5				2.82	A.A.
64	3312.00	8.1	7.2	5.9	5.0	17.2	20.0	3.8	36.6	2.67	A.A.w/o C/Mic-lam,Cl,Pyr,Sid.decr-Calc.
65	3312.30	1.1	0.88	0.50	0.39	13.6				2.65	A.A.W-cmt.w/C,Mic,ltl-Pyr.
66	3312.65	23.7	21.7	21.3	19.6	20.7				2.65	A.A.w/o C,Pyr.
67	3313.00	14.8	13.3	10.5	9.4	19.1	18.6	3.0	42.5	2.65	A.A.
68	3313.30	1.1	0.88	0.63	0.49	13.9				2.64	A.A.C-lam.w/Pyr.
69	3313.70	0.47	0.36	0.32	0.24	9.7				2.69	A.A.w/Sid.
70	3314.00	77.9	72.9	75.9	71.2	23.0	24.6	2.9	39.4	2.65	A.A.F/M-gr.w/o Sid,Pyr,C.
71	3314.30	30.1	27.5	23.7	21.8	22.5				2.67	A.A.
72	3314.75	31.1	28.5	43.4	40.3	22.8				2.64	A.A.w/o Calc.
73	3315.00	1.1	0.86	1.0	0.78	12.5	18.6	3.0	33.0	2.67	A.A.F-gr.VW-cmt.w/Pyr,C.
74	3315.30	81.1	76.0	3.6	3.1	23.2				2.65	A.A.W-cmt.w/o Pyr,C.
75	3315.65	16.7	15.0	10.0	8.9	19.3				2.66	A.A.
76	3316.00	17.3	15.7	3.8	3.3	18.0	18.6	3.1	47.8	2.65	A.A.
77	3316.25	15.9	14.4	9.3	8.3	20.6				2.65	A.A.
78	3316.60	0.65	0.50	0.38	0.29	5.7				2.67	A.A.VW-cmt.Calc.

FINAL REPORT

PAGE: 2

COMPANY : Statoil
 WELL : 34/10-21
 FIELD : 34/10
 STATE : Norway

CORE NO.: 2 (cont.)

DATE: OCTOBER 1984



Plug No.	Depth (meter)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	K _l	vertical K _a	K _l	He	Sum.	S _o	S _w		
79	3317.35	43.7	40.4	37.1	34.3	21.6	19.2	2.8	32.8	2.65	A.A.V-cmt.w/o Calc.
80	3317.65	99.0	93.2	227	217	23.6				2.64	A.A.
81	3318.00	16.9	15.2	15.9	14.5	17.8	14.5	4.2	67.4	2.65	A.A.w/Calc.
82	3318.30	7.4	6.5	7.5	6.7	17.5				2.65	A.A.
83	3318.65	21.6	20.6	36.6	33.9	19.9				2.65	A.A.M-gr.
84	3319.00	99.1	93.2	96.4	90.8	23.9	21.4	3.3	25.2	2.66	A.A.F-gr.
85	3319.30	11.9	10.6	8.4	7.4	18.8				2.63	A.A.Fr-srt.
86	3319.65	0.30	0.23	0.29	0.22	4.2				2.74	Sst.Lt-gry.Vf-gr.Sbang.VW-cmt.w/Calc,Sid
87	3320.00	0.34	0.26	0.30	0.23	6.3	6.3	13.6	84.8	2.66	A.A.decr-Calc.w/Mic,C,Cl.
88	3320.30	0.37	0.29	0.30	0.23	3.9				2.64	A.A.incr-C.decr-Sid.
89	3320.80	0.46	0.36	0.31	0.23	7.4				2.72	A.A.ltl-C.w/Pyr.
90	3321.00	0.47	0.36	0.30	0.23	8.0	10.3	4.1	87.1	2.68	Sst.Lt-gry.F-gr.Sbang.W-cmt.w/Calc,Mic.
91	3321.30	48.1	44.8	53.5	49.4	23.5				2.64	A.A.F/M-gr.W-srt.
92	3321.65	14.7	13.3	7.0	6.1	20.3				2.65	A.A.F-gr.
93	3321.90	28.7	26.5	48.4	45.5	21.5	15.6	2.5	51.6	2.65	A.A.
94	3322.65	9.2	8.2	5.2	4.5	18.6				2.65	A.A.VW-cmt.
95	3323.00	nmp		3.8	3.2	17.9	16.3	6.0	47.8	2.65	A.A.W-cmt.fis.
96	3323.35	15.2	13.7	15.4	14.0	19.3				2.66	A.A.w/o fis.
97	3323.65	5.5	4.8	5.1	4.3	18.0				2.65	A.A.
98	3324.00	1.0	0.78	10.4	9.3	13.7	17.1	5.7	44.5	2.66	A.A.VW-cmt.C/Mic-lam.
99	3324.30	15.7	14.3	0.63	0.49	18.1				2.66	A.A.
100	3324.65	3.8	3.3	3.6	3.1	16.5				2.67	A.A.incr-Calc.
101	3325.00	1.1	0.83	1.2	0.94	15.7	11.5	5.1	32.2	2.67	A.A.VF-gr.
102	3325.30	0.53	0.41	0.45	0.35	12.2				2.68	A.A.
103	3325.65	0.42	0.32	0.42	0.32	6.3				2.70	A.A.incr-C.w/Sid.
104	3326.00	0.48	0.37	nmp		1.1	8.1	18.7	80.0	2.60	Slstst.Gry.Consol.w/C,Mic,Pyr.
105	3326.35	nmp		0.43	0.33	12.3				2.67	Sst.Lt-gry.VF-gr.Sbang.VW-cmt.C/Mic-lam.

FINAL REPORT

COMPANY : Statoil
 WELL : 34/10-21
 FIELD : 34/10
 STATE : Norway

CORE NO.: 3

PAGE: 1

DATE: OCTOBER 1984



Plug No.	Depth (meter)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	K _l	vertical K _a	K _l	He	Sum.	S _o	S _w		
	3333.91										
121	3334.00	0.33	0.25	nvpp		1.3	7.1	21.7	60.3	2.60	Sltst.Gry.Consol.w/Mic-lam,Calc.
122	3334.30	0.37	0.28	0.40	0.31	1.8				2.58	A.A.w/C.
123	3334.65	0.44	0.34	nvpp		1.3				2.51	A.A.
124	3335.00	0.44	0.34	0.41	0.31	3.2	6.7	16.0	67.3	2.67	A.A.decr-C.w/Pyr,Sid.
125	3335.30	0.38	0.29	0.41	0.32	3.3				2.67	A.A.
126	3335.65	0.36	0.28	0.42	0.32	5.2				2.68	A.A.
127	3336.00	0.39	0.30	0.42	0.32	4.0	6.2	14.2	67.5	2.65	A.A.
128	3336.30	0.75	0.58	0.42	0.32	4.7				2.68	A.A.
129	3336.65	nmp		nmp		2.4				2.60	A.A.incr-C.fis.
130	3337.00	nmp		nvpp		2.2	6.9	21.6	68.0	2.62	A.A.
131	3337.30	nmp		0.43	0.33	2.2				2.59	A.A.
132	3337.65	nmp		0.43	0.33	2.1				2.60	A.A.
133	3338.00	nmp		0.43	0.33	1.8	6.7	22.2	66.6	2.61	A.A.
134	3338.45	nmp		0.48	0.37	1.2				2.53	A.A.
135	3338.65	0.37	0.28	nvpp		1.8				2.41	A.A.w/o Pyr,Sid.
136	3339.00	0.41	0.32	0.47	0.36	11.2	13.1	10.8	47.8	2.66	Sst.Lt-gry.VF-gr.Sbang.VW-cmt.w/Mic,Calc
137	3339.35	0.38	0.29	nmp		3.0				2.61	A.A.Bdg.w/Cl,C.
138	3339.65	0.45	0.35	0.35	0.26	3.9				2.64	A.A.C/Mic-lam.w/o Bdg.
139	3340.00	0.43	0.33	0.46	0.36	12.3	12.1	3.4	54.8	2.67	A.A.w/o C.
140	3340.30	0.61	0.47	0.33	0.25	9.8				2.65	A.A.w/C,Cl,Sid.
141	3340.65	0.42	0.32	0.43	0.33	7.7				2.67	A.A.
142	3341.00	0.54	0.41	0.43	0.33	1.8	2.0	31.8	21.2	2.58	A.A.Gry.incr.Cl.
143	3341.40	npp									
144	3342.00	npp					7.9	18.9	73.0		
145	3342.30	npp									
146	3342.60	nmp		0.43	0.33	6.5	20.3	1.8	40.0	2.82	Sltst.Brnsh-gry.Consol.w/Sid,Pyr,Calc.
147	3343.00	0.62	0.48	0.45	0.35	10.4				2.64	Sst.Lt-gry.F-gr.Sbang.VW-cmt.w/Mic,C.

FINAL REPORT

COMPANY : Statoil
 WELL : 34/10-21
 FIELD : 34/10
 STATE : Norway

PAGE: 2

CORE NO.: 3 (cont.)

DATE: OCTOBER 1984



Plug No.	Depth (meter)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	K _l	vertical K _a	K _l	He	Sum.	S _o	S _w		
148	3343.30	29.4	27.0	98.4	92.7	18.1				2.65	A.A.W-srt.w/o C.w/Calc.
149	3343.65	101	95.1	41.9	38.8	23.2				2.64	A.A.F/M-gr.W-cmt.
150	3344.00	106	101	99.9	94.1	21.0	22.7	2.4	55.8	2.64	A.A.
151	3344.30	71.3	66.9	15.2	13.6	22.0				2.64	A.A.
152	3344.70	nmp		6.8	6.0	21.1				2.65	A.A.
153	3345.00	100	94.7	77.9	73.2	21.1	16.9	2.3	65.5	2.64	A.A.
154	3345.30	5.8	5.1	3.9	3.2	15.7				2.65	A.A.
155	3345.65	28.3	26.1	4.0	3.3	19.9				2.65	A.A.
156	3346.00	1.2	0.93	0.49	0.38	13.5	16.4	2.3	66.2	2.66	A.A.
157	3346.30	0.20	0.15	0.39	0.30	5.7				2.67	A.A.VW-cmt.Bdg.
158	3346.70	94.6	89.2	73.9	69.4	21.2				2.65	A.A.W-cmt.w/o Bdg.
159	3347.00	263	252	352	339	23.4	20.2	0.0	52.3	2.65	A.A.
160	3347.30	51.3	47.9	48.7	45.5	20.3				2.66	A.A.
161	3347.65	2.6	2.2	1.6	1.3	13.3				2.67	A.A.Bdg.
162	3348.00	57.9	54.1	65.2	60.9	18.7	14.3	2.7	37.4	2.66	A.A.w/o Bdg.Fr-srt.
163	3348.30	0.38	0.29	0.27	0.21	9.3				2.70	A.A.VW-cmt.W-srt.Calc.
164	3348.65	0.34	0.26	0.35	0.27	5.1				2.69	A.A.
165	3349.00	0.34	0.26	0.34	0.26	4.2	4.0	10.8	54.1	2.70	A.A.
166	3349.30	0.34	0.26	0.34	0.26	5.9				2.71	A.A.
167	3349.65	8.1	6.9	19.1	17.3	14.8				2.66	A.A.
168	3350.00	136	129	53.0	49.2	21.7	23.7	2.3	54.2	2.65	A.A.F/M-gr.W-cmt.ltl-Calc.
169	3350.30	209	200	193	184	22.3				2.65	A.A.
170	3350.65	283	272	315	303	23.2				2.64	A.A.
171	3351.00	122	115	103	96.7	22.2	23.6	1.5	59.0	2.64	A.A.
172	3351.30	52.4	48.8	13.8	12.5	19.5				2.65	A.A.Bdg.
173	3351.65	493	476	489	472	24.3				2.64	A.A.w/o Bdg.
174	3352.00	260	249	102	96.8	23.0	22.3	1.5	54.3	2.65	A.A.

FINAL REPORT

COMPANY : Statoil
 WELL : 34/10-21
 FIELD : 34/10
 STATE : Norway

PAGE: 1

CORE NO.: 4

DATE: OCTOBER 1984



Plug No.	Depth (meter)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	K _l	vertical K _a	K _l	He	Sum.	S _o	S _w		
	3361.50										
196	3361.65	0.71	0.55	0.66	0.51	13.5	9.2	4.7	69.9	2.65	Sst.Lt-gry.VF-gr.Sbang.W-cmt.w/Mic,Cl,C.
197	3362.00	0.36	0.28	0.36	0.27	6.1				2.72	A.A.VW-srt.C/Mic-lam.w/Sid,Cl.
198	3362.30	0.34	0.26	0.34	0.26	6.6				2.68	A.A.
199	3362.65	9.5	8.5	3.4	2.9	14.3				2.63	A.A.F-gr.w/o Sid,C/Mic-lam.
200	3363.00	0.36	0.27	0.24	0.19	6.5	9.2	27.7	57.6	2.67	Sst.Lt-gry.VF-gr.Sbang.VW-cmt.Cl/Mic-lam
201	3363.30	0.40	0.31	0.28	0.21	4.4				2.68	A.A.w/C,Calc.
202	3363.65	0.44	0.33	0.27	0.21	5.4				2.71	A.A.w/Sid.
203	3364.00	0.40	0.31	0.29	0.22	3.8	7.1	12.0	71.8	2.64	A.A.incr-C.decr-Sid.
204	3364.30	0.46	0.35	0.32	0.24	8.8				2.67	A.A.decr-C.
205	3364.65	nmp		nmp		0.9				2.66	Sltst.Gry.Consol.fis.w/Pyr,Mic.
206	3365.00	nmp		nvpp		0.3	7.5	25.3	45.0	2.55	A.A.w/C.
207	3365.30	npp									
208	3365.65	nmp		nvpp		nmp					A.A.C-lam.
209	3366.00	0.43	0.33	nmp		7.2	7.1	20.5	61.4	2.64	Sst.Lt-gry.Vf-gr.Sbang.VW-cmt.Cl/Mic-lam
210	3366.30	0.45	0.35	0.43	0.33	6.4				2.65	A.A.VW-srt.w/Calc.C.
211	3366.65	0.43	0.33	0.33	0.26	8.7				2.69	A.A.
212	3367.00	0.42	0.32	0.31	0.24	8.0	8.1	7.8	60.2	2.68	A.A.
213	3367.30	0.38	0.29	0.30	0.23	7.4				2.69	A.A.
214	3367.65	0.42	0.32	0.30	0.23	4.5				2.72	A.A.w/Sid.
215	3368.00	0.40	0.31	0.32	0.24	8.3	5.5	7.7	65.0	2.69	A.A.
216	3368.30	0.42	0.32	0.25	0.19	6.4				2.69	A.A.
217	3368.65	0.76	0.55	0.29	0.22	1.9				2.66	A.A.Gry.incr-Cl.
218	3369.00	0.39	0.30	0.32	0.25	9.9	8.9	7.1	70.6	2.73	A.A.Lt-gry.w/o Cl.
219	3369.30	0.37	0.29	0.29	0.22	9.3				2.74	A.A.incr-Calc.
220	3369.65	0.34	0.26	0.26	0.19	3.7				2.82	A.A.
221	3370.00	0.34	0.26	0.28	0.21	10.5	8.6	5.0	72.3	2.68	A.A.ltl-Sid.w/Cl.
222	3370.30	nmp		0.26	0.20	5.4				2.70	A.A.incr-Sid.

FINAL REPORT

COMPANY : Statoil
 WELL : 34/10-21
 FIELD : 34/10
 STATE : Norway

PAGE: 2

CORE NO.: 4 (cont.)

DATE: OCTOBER 1984



Plug No.	Depth (meter)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	K _l	vertical K _a	K _l	He	Sum.	S _o	S _w		
223	3370.60	0.33	0.25	0.22	0.16	7.0				2.71	A.A.
224	3371.00	nmp		0.25	0.19	5.2	7.5	7.8	75.3	2.70	A.A.
225	3371.30	0.33	0.25	0.24	0.19	4.1				2.66	A.A.incr-Cl.
226	3371.65	0.34	0.26	0.24	0.18	4.6				2.68	A.A.
227	3372.00	0.43	0.33	0.24	0.18	3.2	6.3	13.8	72.3	2.65	A.A.
228	3372.30	0.39	0.30	0.26	0.19	4.2				2.64	A.A.
229	3372.60	0.33	0.25	0.24	0.19	15.8				2.98	Calc-sltst.Lt-gry.Consol.w/Sid,C.
230	3373.25	0.33	0.25	0.29	0.22	2.0	7.2	37.2	49.4	2.58	Sst.Gry.Vf-gr.Sbang.VW-cmt.w/Mic,Cl,C.
231	3373.65	0.58	0.45	0.38	0.29	11.1				2.65	A.A.Lt-gry.VW-srt.ltl-Cl.w/Calc.
232	3374.00	0.49	0.38	0.33	0.26	10.9	6.9	15.4	58.4	2.64	A.A.w/o Calc.incr-Cl.
233	3374.30	0.48	0.37	0.34	0.26	10.4				2.67	A.A.w/Calc.
234	3374.65	0.40	0.31	0.31	0.24	8.0				2.68	A.A.
235	3375.00	0.37	0.28	0.24	0.18	7.2	13.5	3.0	56.6	2.70	A.A.w/Sid.
236	3375.30	0.35	0.27	0.28	0.21	5.1				2.70	A.A.
237	3375.65	0.45	0.35	0.34	0.26	11.2				2.66	A.A.decr-Cl,Sid.
238	3376.00	0.37	0.28	0.29	0.22	6.3	6.9	6.2	58.8	2.69	A.A.incr-Cl,Sid.
239	3376.30	0.36	0.27	0.28	0.21	6.3				2.70	A.A.
240	3376.65	0.37	0.28	0.31	0.24	9.3				2.68	A.A.decr-Sid,Cl.
241	3377.00	0.45	0.35	0.33	0.25	12.5	8.4	5.0	64.8	2.66	A.A.
242	3377.35	1.2	0.93	0.62	0.48	12.8				2.67	A.A.
243	3377.65	0.61	0.47	nmp		5.9				2.73	A.A.incr-Sid,Cl.w/C.
244	3378.00	3.1	2.6	1.00	0.78	13.1	14.8	2.6	36.2	2.67	Sst.Lt-gry.F-gr.Sbang.W-cmt.w/Calc.
245	3378.30	0.52	0.40	0.35	0.27	10.4				2.71	A.A.Vf-gr.VW-cmt.W-srt.Cl/Mic-lam.w/Sid.
246	3378.65	0.46	0.35	0.29	0.22	6.7				2.71	A.A.
247	3379.00	0.44	0.33	0.31	0.23	10.7	7.6	5.5	74.5	2.71	A.A.
248	3379.30	0.45	0.35	0.38	0.29	10.8				2.69	A.A.
249	3379.65	0.45	0.35	0.39	0.30	9.8				2.70	A.A.w/C.

FINAL REPORT

COMPANY : Statoil
 WELL : 34/10-21
 FIELD : 34/10
 STATE : Norway

PAGE: 1

CORE NO.: 6

DATE: OCTOBER 1984



Plug No.	Depth (meter)	Permeability (mD),				Porosity (%)		Pore saturation		Grain dens. g/cc	Formation Description
		horizontal K _a	K _l	vertical K _a	K _l	He	Sum.	S _o	S _w		
	3973.50										
272	3973.65	0.39	0.30	0.44	0.33	1.6				2.71	Sst.Lt-gry.Vf-gr.Sbang.VW-cmt.w/Mic,Calc
273	3974.00	0.38	0.29	0.46	0.36	4.5	3.8	9.3	32.7	2.66	A.A.VW-srt.
274	3974.30	1.9	1.5	0.89	0.69	7.3				2.66	A.A.
275	3974.75	33.9	31.3	6.4	5.5	12.7				2.66	A.A.
276	3975.00	0.47	0.36	0.43	0.33	8.0	9.7	4.2	53.1	2.67	A.A.
277	3975.30	0.40	0.31	0.39	0.30	0.6				2.73	A.A.Gry.Cl-mtrx.w/Sid.
278	3975.50	0.40	0.31	0.39	0.30	1.6	4.1	11.2	78.3	2.70	A.A.
279	3975.65	0.40	0.31	0.39	0.30	1.2				2.68	A.A.w/o Cl,Sid.
280	3976.00	nmp		nvpp		0.6	2.4	19.0	47.5	2.71	A.A.Cl-mtrx.fis.w/Sid.
281	3976.25	0.40	0.31	0.39	0.30	0.8				2.69	A.A.w/o fis.
282	3976.65	npp									
283	3977.00	0.54	0.42	0.35	0.26	0.5	2.6	16.8	50.5	2.72	A.A.
284	3977.30	0.40	0.30	0.36	0.28	3.4				2.72	A.A.
285	3977.65	0.40	0.30	0.37	0.28	2.2				2.71	A.A.
286	3978.00	0.39	0.30	0.37	0.29	1.4	1.5	29.6	44.4	2.69	A.A.lt-gry.decr-Cl.w/o Sid.
287	3978.30	0.39	0.30	0.38	0.29	0.7				2.74	A.A.Gry.incr-Cl.w/Sid.
288	3978.65	0.39	0.30	0.37	0.28	3.0				2.69	A.A.Lt-gry.decr-Cl,Sid.
289	3979.00	0.38	0.29	0.38	0.29	2.6	2.3	19.6	19.6	2.70	A.A.
290	3979.30	0.39	0.29	0.38	0.29	1.8				2.70	A.A.
291	3979.65	0.40	0.31	0.39	0.30	1.2				2.70	A.A.
292	3980.00	0.38	0.29	0.39	0.30	1.0	1.6	25.3	25.3	2.70	A.A.
293	3980.30	0.36	0.28	0.36	0.28	0.3				2.72	Sltst.BrnsH-gry.Consol.w/Mic,Sid.
294	3980.65	0.53	0.41	0.37	0.28	0.6				2.73	A.A.w/Calc.
295	3981.00	0.81	0.63	nmp		0.5	0.8	0.0	0.0	2.71	A.A.w/C.
296	3981.35	0.43	0.33	0.37	0.29	0.8				2.70	Sst.Lt-gry.VF-gr.Sbang.VW-cmt.Calc.w/Mic
297	3981.65	0.37	0.28	0.38	0.29	0.9				2.70	A.A.VW-srt.
298	3982.00	0.36	0.28	0.37	0.28	2.5	2.0	12.6	56.7	2.71	A.A.

COMPANY: STATOIL

FIELD: 34/10

FILE:

WELL: 34/10-21

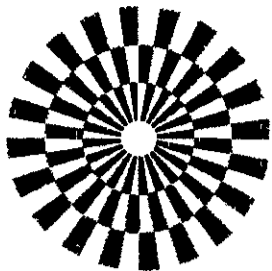
COUNTY:

DATE: OCT-1984

LOCATION:

STATE: NORWAY

ELEV.:



CORE GRAPH

THESE ANALYSES, OPINIONS OR INTERPRETATIONS ARE BASED ON OBSERVATIONS AND MATERIAL SUPPLIED BY THE CLIENT TO WHOM, AND FOR WHOSE EXCLUSIVE AND CONFIDENTIAL USE, THIS REPORT IS MADE. THE INTERPRETATIONS OR OPINIONS EXPRESSED REPRESENT THE BEST JUDGEMENT OF GECO LABORATORIES AND ITS OFFICERS AND EMPLOYEES.

GECO
GEOPHYSICAL COMPANY
OF NORWAY A.S

VERTICAL SCALE: 1:200

LABORATORY

CORE-GAMMA SURFACE-LOG

(PATENT APPLIED FOR)
GAMMA RAY
RADIATION INCREASE ----->
VOLTAGE: 985 VOLT
INTEGRATING TIME: 11 SEC
COUNTS PER MINUTE: 10 K

DEPTH
METER

POROSITY %

PERMEABILITY mD

HORIZONTAL

VERTICAL

FLUID SATURATION

OTHER OIL WATER

80 60 40 20 %

1000mD

100mD

10mD

0

CORE NO: 6

3974.00

3977.00

3980.00

3983.00

3986.00

LOGGED INTERVAL:

CORE NO. 6 :
3973.50 - 3985.40