

FORTROLIG

I h. t. Beskyttelsesinstruksen,
jfr. offentlighedslovens

§ nr.

STATOIL

FINAL REPORT

WELL: 34/10 - 3

CORE: 1 - 9

DATE: MAY 1979.

- 6 JUN 1979

REGISTRERT
OLJEDIREKTORATET

LABORATORY

FINAL REPORT



Company Statoil Date

Well 34/10-3 Core No. 1

Field State Norway

DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STW.		
1909.15	N.P.P.					34.0	25.4	52.1		
1911.70	N.P.P.					37.7	20.5	71.9		
1911.95	N.H.P.P.		1.6	1.1		23.2	27.9	67.7		S.St.BR.V.F.GR.sub.ang w/mica. v.w.cemented w/org.matter
1912.50	2.7	1.9	0.67	0.45	24.8				2.70	A.A.
1912.80	29	25	0.77	0.51	27.9	25.4	28.0	45.8	2.81	A.A
1913.10	64	56	0.78	0.53	29.5				2.71	A.A
1913.35	66	57	N.V.P.P.		32.0	34.9	32.5	34.3	2.76	A.A
1915.20	N.P.P.					29.0	18.1	64.9		
1915.80	5.3	4.0	0.30	0.19	20.3				3.06	A.A. Sl.calc. v.hard

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Company Statoil Date

Well 34/10 -3 Core No. 2

Field State Norway

DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			S0	STW.		
1919.50	199	179	82	73	21.2	16.4	25.8	39.5	2.75	S.St.Gy/BR.V.F.GR. w/cemented w/mica.
1919.80	744	704	20	16	31.4				2.71	A.A. w/org.matter
1920.20	N.P.F									
1921.05	1.5	1.1	N.V.P.P.		21.8	30.2	20.5	39.1	3.02	S.St.V.silty v.w.cemented w/mica w/org.matter
1922.00	0.146	0.09	0.31	0.20	20.4				3.12	A.A. w/pyrite
1926.55	1.2	0.8	0.186	0.11	18.9	26.9	8.6	74.1	2.68	S.St.GY/BR.V.F.GR. w/mica.
1926.85	N.P.F					21.0	6.6	76.4		
	Two plugs picked out by D.Twiss - Statoil									
1919.50	1229	1179			32.7				2.69	S.St.Wh/GY V.F.GR.Poor cemented w/mica.
1919.80	756	716			32.9				2.70	A.A. Fair cem.W/org.matter

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Company Statoil Date
 Well 34/10 - 3 Core No. 3
 Field State Norway

DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STW.		
1931.25	N.P.P.					28.9	16.8	65.7		
1933.00	0.49	0.32	0.147	0.09	21.2	22.6	2.5	79.9	2.97	S.St.BR/GY V.F.BR.v/silty w/mica dots. Pyrite

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 Well 34/10-3 Core No. 4
 Field State Norway

DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STW.		
1936.80	N.P.P.					34.9	23.7	43.1		
1937.10	N.H.P.P.		10.6	8.3						S.St.GY/BR.V.F.GR. v.cemented, mica.
1937.20	63	55			30.9				2.73	A.A. w/org.matter
1937.40	N.H.P.P.		10.3	8.0						A.A
1937.70	29	24	6.9	5.3	25.3	31.8	18.5	55.4	2.78	A.A
1938.00	47	40	5.2	3.9	29.7				2.72	A.A
1938.30	23	19	4.2	3.1	27.0				2.78	A.A.
1938.60	7.6	5.8	N.V.P.P.		26.7	30.0	17.9	51.2	2.66	A.A. Lam.w/org.matter
1939.10	3.9	2.8	1.2	0.9	24.9				2.68	A.A
1942.10	0.133	0.08	0.115	0.07	7.0	29.7	22.3	57.3	2.80	S.St.GY/WH.Calc.v.hard w/cemented
1942.60	19	15	0.50	0.33	15.4				2.78	A.A
1943.30	72	63	5.4	4.1	30.3				2.69	S.St.GY/BR V.F.GR org.matter, mica.
1943.60	4.6	3.4	1.2	0.8	24.5	33.4	31.7	48.6	2.69	A.A
1943.90	0.67	0.45	0.58	0.38	15.8				2.91	S.St.GY/Wh.Calc.Hard, w/cemented,mica, org. matter
1946.20	197	177	N.V.P.P		34.5	27.6	12.7	56.1	2.80	S.St.BR/GY.V.F.GR. w/cemented, mica.
1946.50	19	16	22	18	18.2				2.82	A.A. v/hard
1947.25	35	29	1.9	1.3	24.6	15.7	2.8	7.1	2.87	A.A
1947.55	24	19	7.2	5.5	27.4				2.81	A.A.

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DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STW.		
1953.30	N.H.P.	P.	4.6	3.4		30.9	20.0	52.9		S.St.GY/BR V.F.GR. w/cemented: Laminated w/org.matter + Mica.
1953.60	N.H.P.	P.	3.4	2.5						
1953.90	N.P.	P.								
1954.20	N.P.	P.				24.1	20.9	42.8		
1954.50	2.9	2.1	1.6	1.1	19.7				2.90	S.St.GY/BR V.F.GR. Calc. v.Hard. mica.
1954.75	N.P.	P.								
1962.30	205	185	143	128	32.7	33.3	18.4	32.4	2.77	S.St. GY/wh.V.F.GR. w/cemented. mica.
1963.00	41	34	N.V.P.	P.	29.0				2.83	A.A. w/org.matter
1963.55	96	86	60	53	30.8	30.4	19.3	50.3	2.78	A.A
1963.78	106	94			31.0				2.78	A.A
1963.80	N.P.	P.								
1963.95	25	21			30.2				2.70	A.A.
1964.10	N.H.P.	P.	N.V.P.	P.	36.0				2.75	A.A. mica. flaces.
1964.50	39	33	18	14	30.9	37.0	22.0	52.2	2.75	A.A
1964.75	440	410			38.8				2.68	S.St.GY/BR V.F.GR. poor cemented
1964.80	107	95	25	20	36.0				2.71	A.A. Fair Cemented w/mica
1965.00	297	277			36.0				2.69	A.A
1965.10	N.H.P.	P.	37	31						A.A
1965.60	52	45	N.V.P.	P.	32.4	30.5	13.5	60.2	2.70	A.A.

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DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STW.		
1971.30	N.P.P.					40.9	12.7	49.3		S.St.Wh/Gy.F.GR. poor cemented
1972.20	1334	1284	N.V.P.P.		37.0				2.64	A.A
1972.50	444	414	501	471	34.8	39.8	19.4	48.8	2.64	A.A. Fair cemented
1972.80	56	48	6.1	4.6	32.4				2.66	A.A. w/coal streaks
1974.50	544	514	1.5	1.0	34.0	31.7	2.9	58.2	2.66	A.A. w/mica
1975.00	206	186	24	19	27.5				2.64	A.A
1975.30	N.H.P.P.		570	540						
1980.55	0.018	0.01	0.064	0.04	3.5	45.6	3.3	59.3	3.59	S.St.Med.GR.GY/Wh. w/V.M. Pyrite
1980.85	4302	4222	N.V.P.P.		32.1				2.64	S.St.GY/Wh.F-Med.GR. Sub.ang. Poor cemented
1981.90	666	636	N.V.P.P.		33.0				2.64	A.A
1982.20	1861	1801	N.V.P.P.		31.3				2.63	A.A
1982.50	21000	20800	23300	32100	29.4	36.1	1.3	88.0	2.69	S.St.Wh.Coarse Gr.Sub. ang.V.Clean. Pyrite dots.
1982.80	N.P.P.									
1983.10	9307	9157	N.V.P.P.		31.9				2.63	A.A. Med.Gr.
1983.40	19870	19670	20645	20445	31.6	28.2	0.4	93.9	2.63	S.St.Br.Coarse GR.Sub. ang.V.Poor Cemented
1983.70	14761	14611	14900	14700	32.7				2.63	A.A
1984.00	16014	15814	22400	22200	33.5				2.62	A.A
1984.25	19460	19260	27000	26800	33.7	31.8	0.0	93.1	2.63	A.A
1984.55	27000	26800	N.V.P.P.		32.4				2.62	A.A
1984.85	22320	22120	20300	20100	34.7				2.62	A.A

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DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STW.		
1985.15	25900	25700	N.V.P.P.		32.2	35.4	0.3	88.7	2.62	S.St.BR.Coarse GR.Sub. ang. v.poor cemented
1985.45	25670	25470	N.V.P.P.		32.9				2.62	A.A
1986.65	847	807	498	468	31.8				2.62	S.St.BR/GY Med.GR.Sub. ang. Fair cemented
1987.00	2808	2728	1451	1401	34.0				2.62	A.A
1987.30	N.H.P.P.		4984	4904	35.6	36.6	0.0	73.1	2.63	A.A. Poor cemented
1988.00	6739	6639	5827	5727	36.6				2.64	A.A
1988.40	1042	992	461	431	31.9	32.9	0.3	75.8	2.67	A.A. Fair cemented
1988.70	468	438	355	325	29.9				2.63	A.A. w/cemented

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 Field State Norway

DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STW.		
1989.20	4861	4781	3918	3838	30.9	32.8	0.0	85.1	2.65	S.St.GY/BR.Med.coarse Gr. sub.ang.Fair cemented
1989.60	5947	5847	6989	6889	33.3				2.65	A.A
1989.90	5128	5048	3652	3572	34.7				2.66	A.A
1990.20	2925	2845	522	492	32.9	34.0	0.0	90.9	2.68	A.A
1990.50	2286	2226	3187	3107	31.4				2.69	A.A
1990.80	2857	2777	699	659	30.7				2.74	A.A. w/cemented
1991.10	1263	1213	693	663	29.9	30.2	2.4	81.6	2.73	A.A.
1991.40	2992	2912	n.v.p.p.		32.4				2.68	A.A. w/pyrite dots
1991.70	20475	20275	n.v.p.p.		31.6				2.63	S.St.BR.Coarse GR. sub ang.Poor cemented. v/variable
1992.00	n.h.p.p.		n.v.p.p.							
1992.30	n.h.p.p.		n.v.p.p.			34.2	4.7	90.3		
1992.60	n.h.p.p.		6640	6540						
1993.20	23703	23503	2741	2661	34.4				2.63	A.A
1993.50	24350	24150	21944	21744	34.8	23.7	1.9	72.7	2.63	A.A
1993.80	21181	20981	17510	17310	35.3				2.63	A.A
1994.10	17729	17529	19255	19055	33.7				2.63	A.A
1994.40	15618	15418	15947	15747	34.4	32.6	1.3	85.6	2.63	A.A
1994.70	8920	8770	8489	8339	34.9				2.64	A.A
1995.00	9354	9204	8752	8602	34.2				2.63	A.A
1995.30	14388	14188	13312	13162	34.0				2.62	A.A

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Company Statoil Date

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Field State Norway

DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STW.		
1995.60	10912	10762	10902	10752	35.6	32.8	1.4	88.2	2.62	S.St.Br.Med/Coarse GR. Sub.ang. V.Friable
1995.90			9232	9082	34.2				2.62	A.A
1996.20	9143	8993	5787	5707	34.0				2.62	A.A
1996.50	N.P.P					35.3	5.1	82.8		
1996.80	11598	11448	7278	7178	34.6				2.62	A.A
1997.10	N.P.P									
1997.40	7829	7679	N.V.P.P.		34.5	31.9	9.6	69.9	2.62	A.A
1997.70	7341	7241	N.V.P.P.		35.2				2.62	A.A. w/mica
1998.00	9411	9261	6704	6604	27.6				2.63	A.A
1998.30	15926	15726	N.V.P.P.		34.6	17.6	0.0	57.8	2.62	A.A
1998.60	N.P.P									
1998.90	8159	8009	6210	6110	34.6				2.62	A.A
1999.20	N.H.P.P.		4384	4304		26.8	0.0	78.5		
1999.60	N.P.P.									
1999.90	N.P.P									
2000.20	N.P.P.									
2000.50	5174	5094	N.V.P.P.		35.7				2.64	S.St.Wh/GY.Med.Fine GR sub.ang.Fair cemented
2000.80	N.P.P.									
2001.40	N.P.P									
2001.80	3951	3871	N.V.P.P.		34.5				2.65	A.A. w/mica.

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Field State Norway

DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STW.		
2002.10	5275	5195	N.V.P.P.		33.5				2.63	S.St.Wh/GY Med/fine GR Sub.ang.Fair cemented w/mica
2002.60	1006	956	N.V.P.P.		29.7	29.4	0.0	81.6	2.64	A.A
2002.90	N.P.P.									
2003.20	N.H.P.P.		4180	4100						
2003.50	N.H.P.P.		2421	2341						A.A
2004.50	297	277	407	377	31.3				2.75	S.St.GY.F.GR.sub.ang w/cemented w.mica
2004.80	546	516	330	300	29.5				2.75	A.A
2005.10	554	524	377	347	28.4				2.72	A.A
2005.40	443	413	299	269	27.9				2.72	A.A
2005.70	852	812	871	831	31.9				2.66	A.A. fair cemented
2006.20	1396	1346	971	931	33.6				2.66	A.A
			end of core no.7							

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DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STW.		
2007.30	1212	1162	763	723	33.2				2.69	S.St.WH/GY.Med.GR. sub.ang Fair cemented mica.
2007.60	684	654	501	471	31.6				2.70	A.A
2007.90	1347	1297	844	804	33.2				2.69	A.A
2008.20	1137	1087	551	521	33.9				2.68	A.A
2008.50	1106	1056	696	666	35.5				2.68	A.A
2008.80	1726	1666	n.v.p.p.		36.2				2.65	A.A
2009.10	1525	1475	1320	1270	36.4				2.66	A.A
2009.40	n.h.p.p.		742	702						
2009.70	1551	1501	1036	986	35.7				2.66	A.A
2010.20	862	822	678	648	34.0				2.68	A.A. Med/fine gr.
2010.50	1644	1594	1384	1334	35.7				2.66	A.A
2010.80	1107	1057	660.	630	33.1				2.69	A.A
2011.10	1057	1007	588	558	33.3				2.69	A.A
2011.40	219	199	142	128	26.5				2.78	A.A
2011.70	817	777	385	355	30.8				2.71	A.A
2012.00	854	814	523	493	32.6				2.70	A.A
2012.30	1706	1646	1169	1119	36.1				2.67	A.A
2012.60	146	131	39	33	30.2				2.71	A.A
2012.90	411	411	229	209	31.0				2.72	A.A
2013.20	620	590	367	337	34.9				2.73	A.A

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	KA	KL	KA	KL			SO	STW.		
2013.50	515	485	309	279	33.2				2.72	S.St.WH/GR Med/fine GR sub.ang.Fair cemented
2013.80	510	480	351	321	32.1				2.70	Mica. A.A
2014.10	554	524	249	229	32.4				2.70	A.A
2014.40	1549	1499	n.v.p.p.		37.0				2.66	A.A
2014.70	1779	1719	984	944	37.8				2.65	A.A
2015.00	1793	1733	1147	1097	38.3	31.9	0.0	87.0	2.67	A.A
2015.30	1395	1345	942	902	37.8				2.65	A.A
2015.60	1183	1133	871	831	37.5				2.65	A.A
2015.90	1279	1229	564	534	37.7				2.64	A.A
2016.20	1734	1674	1228	1178	37.9				2.64	A.A
2016.50	1488	1438	1105	1055	37.3				2.66	A.A
2016.80	1677	1627	1382	1332	38.1				2.66	A.A
2017.10	1377	1267	906	866	38.0				2.66	A.A
2017.60	1102	1052	778	738	35.7				2.67	A.A
2017.90	1111	1061	789	749	34.7				2.68	A.A
2018.20	1377	1327	996	956	35.3				2.67	A.A
2018.50	870	830	586	556	34.4				2.69	A.A
2018.80	747	707	481	451	33.9				2.69	A.A
2019.10	1202	1152	867	836	36.3				2.67	A.A
2019.40	1147	1097	769	729	35.7	34.0	0.0	91.5	2.66	A.A

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	KA	KL	KA	KL			SO	STW.		
2019.70	766	726	602	572	34.3				2.68	S.SI.GY/WH Med/fine GR. Sub ang.Fair cemented mTca.
2020.00	718	678	500	470	33.1				2.69	A.A
2020.30	736	696	336	306	32.4				2.70	A.A
2020.90	27	23	23	19	19.3				2.72	A.A
2021.20	6.8	5.2	1.8	1.3	16.0				2.74	A.A
2021.50	44	38	31	26	19.6				2.72	A.A
2021.80	429	399	157	141	32.1				2.73	A.A
2022.10	1059	1009	586	556	35.6				2.68	A.A
2022.40	1259	1209	n.v.p.p.		36.9				2.67	A.A
2022.70	1076	1026	n.v.p.p.		36.9				2.67	A.A
2023.00	997	957	884	844	36.8				2.66	A.A
2023.30	935	895	697	667	36.2				2.73	A.A
2023.60	1381	1331	896	856	37.2				2.69	A.A
2023.90	1234	1184	664	634	37.4				2.69	A.A
2024.35	1041	991	792	752	36.2				2.70	A.A
2024.65	857	817	733	693	36.3				2.68	A.A
			end of core no 8							

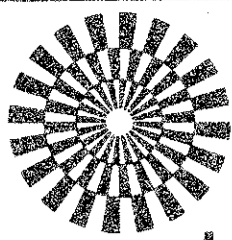
LABORATORY

FINAL REPORT



Company Statoil Date
 Well 34/10 - 3 Core no. 9
 Field State Norway

DEPTH	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SATURATION POROSITY %	PORE-SATURATION PORESATORAT		GRAIN DENS.	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STW.		
2467.80	0.182	0.11			16.9				2.71	S. ST. D. GY/BR. mica. Jam w/org. matter W. cemented
2471.25	0.073	0.04			9.0				2.71	A.A
2475.35	0.146	0.09			17.2				2.72	A.A
2478.20	0.181	0.11			14.8				2.71	A.A



GECO

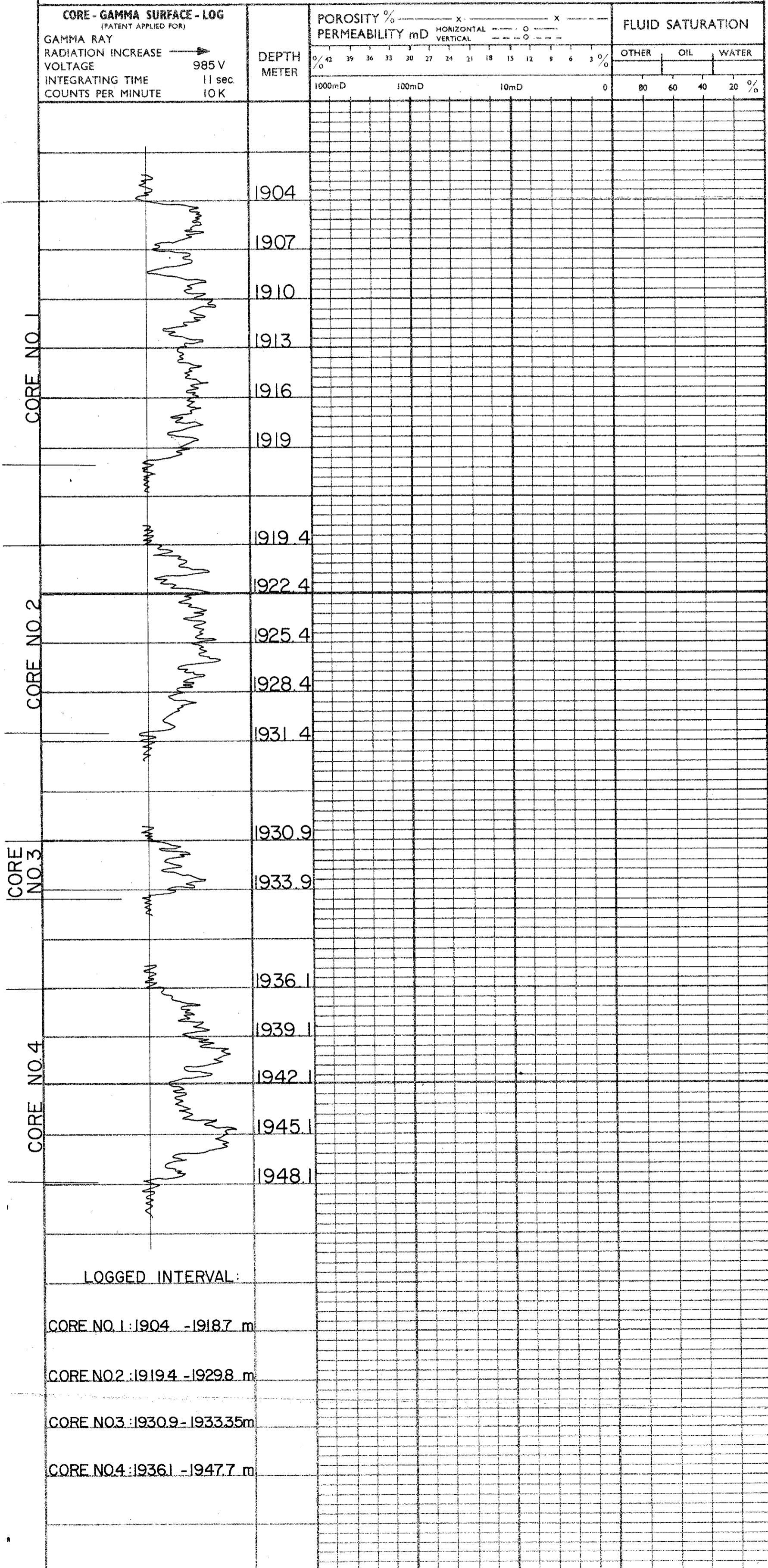
laboratory

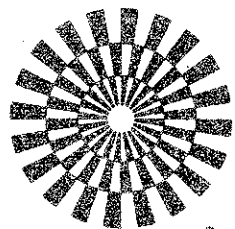
COMPANY STATOIL FIELD _____ FILE _____
 WELL 34/10-3 COUNTY _____ DATE MAY 79
 LOCATION _____ STATE NORWAY ELEV. _____

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 judgment of Statex laboratories and its officers and employees.

VERTICAL SCALE : 1 : 200





GECO

laboratory

COMPANY STATOIL FIELD _____ FILE _____
 WELL 34/10-3 COUNTY _____ DATE MAY 79
 LOCATION _____ STATE NORWAY ELEV. _____

CORE GRAPH

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VERTICAL SCALE : 1 : 200

