

FORTROLIG
i h.t. Beskyttelsesinstruksen,
jfr. offentlighedslovens
§ nr.

STATOIL

FINAL REPORT WELL: 34/10-4

CORE NO. 1 - 6

OCTOBER 1979.

26 OKT 1979
REGISTRERT
OLJEDIREKTORATET

LABORATORY

FINAL REPORT



Company Statoil Date October 1979
Well 34/10-4 Core No. 6
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.		
2350.50-66	0.014	0.01			3.8	2.9	0.0	29.6	2.67	s.st.Gy.Fine gr. v.w.cemented w/calclitic
2350.91- 51.00	0.010	0.01			1.8				2.67	A.A
2351.23-32	0.124	0.07			5.1				2.67	A.A w/org.matter
2351.56-74	2080	2020			30.8	21.6	0.0	56.1	2.63	s.st.Gy.Med.gr poor cemented
2352.10-17	917	877			26.3				2.66	A.A trace of calcite
2352.63-75	1530	1480			30.0	30.2	0.0	74.7	2.67	A.A
2353.53-64	5.7	4.3			22.6	29.0	2.5	70.2	2.70	s.st.Gy.Med/Fine gr. w.cemented calcitic
2353.87-93	8.4	6.5			23.3				2.67	A.A. w/mica trace
2354.21-27	13	10			21.2				2.68	s.st.Gy.Med/Fine gr. w.cemented w/mica

end of core no. 6

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Company Statoil Date October 1979

Well 34/10-4 Core No. 5

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.			
1907.60-70	4.8	3.6	n.v.p.p		26.0				2.70	s.st.Gy.Med/Fine gr. w.cemented calcitic w/mica	
1908.13-20	4.6	3.4	0.88	0.59	26.8				2.63	A.A	
1908.44-53	1.05	0.72	0.58	0.38	19.9	20.9	4.0	72.7	2.95	A.A w/siderite	
1908.85-92	295	275	0.83	0.56	29.3				2.70	s.st.Gy.Med/Fine gr. w.cemented calcitic w/coal	
			end of core no. 5								

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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.		
1898.90-97	103	91	16	13	28.3				2.70	s.st.Gy.Med/Fine gr. w.cemented calcitic mica trace
1899.27-35	27	22	10.6	8.3	27.0	26.9	23.5	48.0	2.73	A.A
1900.65-74	38	32	12	10	28.4				2.66	A.A
1900.17-25	6.3	4.7	1.06	0.72	27.4				2.70	A.A. w/coal trace
1900.45-55	95	84	8.1	6.2	30.6	32.1	27.6	42.6	2.68	A.A. without coal
1901.02-10	127	113	28	24	32.2				2.65	A.A
1901.40-49	4.0	2.9	2.1	1.5	27.3				2.71	A.A
1901.75-85	6.4	4.9	2.6	1.9	29.0	24.8	34.1	41.4	2.68	A.A
1902.18-30	8.3	6.4	2.5	1.8	29.0				2.71	A.A
1902.50-56	11.5	9.1	1.08	0.74	28.4				2.65	A.A
1902.86-96	26	22	8.2	6.3	30.3	31.1	22.7	45.4	2.68	A.A
1903.30-40	5.7	4.3	0.76	0.51	22.3				2.92	A.A. w/siderite
1903.73-80	18	15	2.9	2.1	29.0				2.71	s.st.Gy.Med/Fine gr. w.cemented calcitic mica trace
1904.15-25	4.0	3.0	1.6	1.1	28.6	23.6	26.3	54.8	2.80	A.A. w/siderite
1904.65-78	418	388	N.V.	P.P	33.6				2.64	s.st.Gy.Med/Fine gr. poor/w.cemented mica trace
1905.18-24	68	60	9.4	7.3	30.5				2.66	A.A. w/org.matter w/cemented
1905.65-77	191	171	13	10	34.7	26.4	19.8	40.4	2.64	s.st.Gy.Med/Fine gr. w.cemented mica trace
1906.18-28	3.4	2.5	0.86	0.58	27.2				2.65	A.A
1906.63-70	3.1	2.3	0.84	0.56	26.8				2.66	A.A. calcitic
1907.10-22	11.2	8.8	N.V.	P.P	25.4	31.9	16.5	55.3	2.67	A.A. w/org.matter

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 Well 34/10-4 Core No. 5
 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.		
1891.10-20	366	336	189	169	34.6	24.2	14.8	29.6	2.65	s.st.Gy.Med/Fine gr. w.cemented w/mica trace
1891.43-50	346	316	252	232	35.2				2.66	A.A
1891.82-90	519	489	317	287	35.0				2.65	A.A
1892.20-30	17	14	0.023	0.01	25.1	30.9	26.4	41.5	2.91	s.st.Gy.Fine gr. v.w.cemented w/siderite
1892.53-63	4.7	3.5	21	17	20.5				2.85	A.A
1892.85-93	340	310	149	134	33.7				2.67	s.st.Gy.Fine/med gr. w.cemented calcitic
1893.47-55	357	327	N.V.P.P		34.8	33.6	28.2	35.3	2.66	A.A
1893.85-95	98	88	44	38	31.4				2.80	A.A
1894.25-35	54	46	1.9	1.4	30.4				2.65	A.A without calcitic
1894.65-75	22	18	11.6	9.1	30.7	29.7	25.2	41.9	2.72	A.A calcitic org.matter
1895.02-10	20	17	6.5	5.0	32.1				2.68	A.A w/mica trace
1895.30-37	339	309	144	129	35.8				2.64	s.st.Gy.Med/Fine gr. w/cemented w/mica trace
1895.80-90	82	73	17	13	32.8	34.7	23.0	49.0	2.73	A.A
1896.23-30	101	89	4.8	3.6	32.6				2.66	A.A
1896.60-70	54	46	7.8	6.0	30.3				2.67	A.A. calcitic
1896.92-97.00	33	28	2.7	2.0	24.9	26.3	24.6	47.2	2.77	A.A
1897.31-40	16	13	4.3	3.2	23.3				2.77	A.A
1897.70-79	13	10	2.3	1.7	26.9				2.63	A.A without calcitic org.matter
1898.03-10	422	392	61	53	35.3	32.0	27.3	43.5	2.65	s.st.Gy.Med/Fine gr. w.cemented calcitic w.mica trace
1898.50-60	212	192	49	42	33.6				2.64	A.A without calcitic

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Well 34/10-4 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.			
1889.84-95	188	168	129	115	33.8				2.68	s, st. Gy. Med/Fine gr. w/cemented calcitic w/mica trace	
1890.30-38	128	114	86	76	31.9				2.72	A.A	
1890.56-63	277	257	198	178	34.5	27.2	23.2	27.2	2.66	A.A	
			end of core no. 4								

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	KA	KL	KA	KL			SO	STW.		
1881.40-47	741	701	471	441	36.1				2.66	s.st.Gy.Med/Fine gr. poor/w.cemented calcitic Mica trace
1881.71-80	960	920	754	714	37.5	35.6	31.8	34.7	2.65	A.A
1881.81-88	747	707	692	662	37.3				2.67	A.A
1882.46-56	1108	1058	796	756	38.5				2.65	A.A
1883.10-20	951	011	723	683	38.0	35.5	30.9	37.5	2.66	A.A
1883.52-63	1101	1051	706	666	38.3				2.65	A.A
1883.90-97	193	173	84	74	33.2				2.69	A.A. w.cemented
1884.30-40	403	373	256	236	35.4	22.8	22.7	28.3	2.66	A.A
1884.65-70	382	352	205	185	35.3				2.66	A.A
1884.96-85:06	720	680	454	424	37.6				2.65	A.A poor/w.cemented
1885.44-55	681	651	619	589	37.5	22.9	29.8	20.5	2.64	A.A without calcitic
1885.93-86:00	506	476	236	216	36.0				2.65	A.A calcitic
1886.37-45	364	334	207	187	35.1				2.67	A.A. w.cemented
1886.80-92	483	453	282	262	36.0	34.2	31.1	34.8	2.66	A.A
1887.13-20	717	677	447	417	34.7				2.66	A.A. poor/w.cemented
1887.65-75	300	270	180	160	34.7				2.67	A.A
1888.05-15	295	275	154	139	35.0	25.8	24.1	36.1	2.67	A.A
1888.52-62	232	212	461	431	35.6				2.67	A.A
1889.00-89.07	372	342	171	154	36.6				2.70	A.A
1889.35-46	677	647	154	138	38.4	32.6	29.2	36.5	2.67	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.		
1873.50-60	395	365	N.V.P.P.		34.8	31.9	30.2	38.9	2.76	s.st.Gy.Med/Fine gr. w.cemented, calcitic w/mica trace
1873.87-95	393	363	238	218	35.7				2.76	A.A
1874.28-35	N.H.P.P		439	409						
1874.52-66	1192	1142	954	914	38.8	36.4	30.3	34.3	2.66	s.st.Gy.Med./fine gr. poor cemented trace of calcitic trace of mica
1875.26-35	734	694	872	832	37.8				2.68	A.A poor/w.cemented
1875.70-77	921	881	887	847	38.7				2.66	A.A
1876.05-12	1490	1440	1121	1071	39.0	36.1	31.1	37.4	2.64	A.A. without mica
1876.49-55	1511	1461	1018	968	39.3				2.65	A.A
1876.85-93	1400	1350	1160	1110	39.4				2.72	A.A.with mica trace
1877.20-30	1046	996	812	772	38.5	28.9	22.0	41.1	2.66	A.A without mica
1877.50-56	900	860	753	713	37.8				2.67	A.A
1877.82-92	766	726	623	593	37.5				2.68	A.A. w/mica trace
1878.30-45	918	878	720	680	37.1	27.6	21.6	40.1	2.69	A.A
1878.58-70	1073	1023	1073	1023	38.6				2.66	A.A
1879.00-08	1169	1119	1022	972	38.5				2.66	A.A
1879.50-58	1462	1412	1187	1137	39.9	37.3	26.2	40.2	2.68	A.A
1879.80-90	1241	1191	1120	1070	37.2				2.67	A.A
1880.18-26	1079	1029	873	833	38.3				2.72	A.A
1880.65-70	N.H.P.P		1146	1096		30.1	23.8	37.8		
1880.98-81:05	622	592	462	432	36.0				2.66	A.A

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Company ..Statoil..... Date .. October 1979 ..
 Well 34/10-4 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.		
1872.98-										
73.06	770	730	244	224	35.9				2.72	s. st. Gy Med/Fine gr. w/poor cemented w/mica trace calcitic

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Company Statoil Date October 1979
 Well 34/10-4 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.		
1865.30-38	1923	1863	1931	1871	40.6				2.71	s.st.Gy.Med/Fine gr. poor cemented, trace of mica/calclitic
1865.68-77	865	825	149	134	36.7	39.3	28.1	29.8	2.73	A.A
1865.00-07	702	662	599	569	37.0				2.72	s.st.Gy.Med/Fine gr. w/poor cemented w/mica calclitic
1866.32-41	1666	1616	1506	1456	39.1				2.67	s.st.Gy.Med/Fine gr. poor cemented w/mica trace calclitic
1866.72-80	2126	2066	1603	1553	39.6	34.8	25.8	32.7	2.67	A.A
1867.22-32	2320	2240	1784	1724	40.3				2.67	A.A
1867.77-87	1601	1551	1215	1165	39.7				2.67	A.A
1868.07-18	758	718	643	613	37.1	39.0	29.3	33.0	2.71	A.A
1868.44-52	1472	1422	603	573	38.9				2.69	A.A
1868.80-86	1235	1185	947	907	38.4				2.69	A.A
1869.22-35	1210	1160	901	861	36.9	34.8	33.3	32.7	2.70	A.A
1869.74-82	1061	1011	889	849	38.3				2.69	A.A
1870.22-30	1195	1145	964	924	38.6				2.67	A.A
1870.49-63	1529	1479	978	938	39.3	34.3	24.5	39.0	2.66	A.A
1870.77-85	1271	1221	936	896	38.2				2.68	A.A
1871.17-25	1327	1277	603	573	38.7				2.68	A.A
1871.48-57	1050	1000	555	525	37.7	32.2	27.3	32.5	2.67	A.A
1871.88-96	N.M.P	P	142	128	38.2				2.68	A.A
1872.19-29	422	392	106	94	34.0				2.75	A.A. w/poor cemented
1872.60-74	1073	1023	876	836	36.7	30.8	26.6	32.2	2.70	A.A

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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.		
1857.00-14	N.M.P.	P.	1484	1434	39.9	39.6	27.6	36.9	2.68	s.st.Gy.Med/Fine gr. poor cemented trace of mica/calclitic
1857.38-47	2251	2191	1523	1473	39.9				2.67	A.A
7.66-74	1753	1693	1382	1332	38.3				2.68	A.A
1858.06-18	1388	1338	976	936	38.2	32.3	21.5	31.9	2.70	A.A
1858.46-54	934	894	595	565	37.2				2.70	A.A
1858.80-88	1570	1520	1384	1334	39.6				2.67	A.A
1859.12-22	2066	2006	1694	1644	39.9	32.8	17.9	31.1	2.67	A.A
1859.65-73	1781	1721	1876	1816	39.3				2.68	A.A
1860.34-42	1722	1662	1565	1515	39.1				2.68	A.A
1860.71-83	1860	1800	1560	1510	39.4	36.5	33.2	29.2	2.69	A.A
1861.10-22	1843	1783	1508	1458	39.2				2.68	A.A
1861.51-62	1881	1821	1641	1591	38.8				2.69	A.A
1862.00-08	N.H.P.	P	1977	1917		36.9	25.3	33.8		
1862.48-56	N.H.P.	P	1640	1590						
1863.30-39	1456	1406	1266	1216	38.2				2.69	A.A
1863.50-64	0.56	0.37	2.3	1.7	11.9	18.8	23.6	26.4	2.71	s.st.Gy Fine gr. v.w.cemented calcitic
1863.92-64.00	1322	1272	939	899	37.2				2.68	s.st.Gy Med/Fine gr. poor cemented trace of mica/calclitic
1864.25-33	1162	1112	996	956	36.9				2.68	A.A
1864.59-72	993	953	198	178	36.7	36.0	30.8	35.0	2.69	A.A
1864.98-65.04	1410	1360	1236	1186	38.8				2.72	A.A

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Company Statoil Date October 1979
 Well 34/10-4 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			SO	STW.		
1845.20-30	1178	1128	988	948	37.1	32.0	27.0	38.2	2.74	s.st.Gy.Med/Fine gr. w/poor cemented calcitic
1845.65-75	1146	1096	947	907	37.0				2.74	A.A
15.95-46.00										
46.00	1425	1375	1035	985	37.8				2.72	A.A
1846.30-35	961	921	845	805	35.7	38.2	25.1	34.3	2.78	A.A
1846.60-67	1257	1207	940	900	36.9				2.74	A.A
1846.90-95	1758	1698	692	662	38.6	26.7	31.4	40.3	2.70	A.A
1847.25-30	N.M.P	P	1281	1231	38.6				2.69	A.A
1847.60-65	1492	1442	1479	1429	39.1	39.4	33.2	36.9	2.69	A.A
1847.95-1848.05	1486	1436	1173	1123	38.2				2.70	A.A
1848.35-40	1211	1161	571	541	37.0				2.74	A.A
1848.80-85	1439	1389	1278	1228	38.1	37.0	33.7	35.9	2.70	A.A
1849.15-25	1919	1859	1532	1482	38.9	33.6	30.6	38.2	2.67	A.A
1849.55-60	1550	1500	1283	1233	37.9				2.70	A.A
1849.85-90	1781	1721	1448	1398	38.2	37.1	29.9	36.1	2.70	A.A
1850.20-25	2156	2096	1628	1578	39.2				2.68	A.A
1850.58-63	1729	1669	1346	1296	37.6				2.69	A.A
1850.95-1851.00	1121	1171	966	926	36.6	36.8	31.2	34.1	2.71	A.A
1851.85-52.00	0.058	0.03	0.01	0.01	6.9				2.71	s.st.Gy.Fine gr. v.w.cemented calcitic
1852.00-52.10	0.166	0.10	0.035	0.02	10.6	30.2	38.4	39.4	2.71	A.A

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Company Statoil Date
 Well 34/10-4 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.		
1841.96-										
42.06	1176	1126	747	707	36.6				2.76	s.st.Gy.Med.gr.w/poor cemented w/mica calcitic
42.50-59	0.57	0.37	0.45	0.29	14.6				2.73	s.st.Gy Med/Fine gr. v.w.cemented calcitic
1842.88-										
43.00	0.012	0.01	0.03	0.02	2.6	10.4	0.0	1.4	2.73	A.A
1843.45-55	0.012	0.01	0.021	0.01	2.4				2.73	A.A
1843.86-										
44.00	0.93	0.63	0.36	0.23	13.3	21.2	36.1	33.7	2.72	A.A

LABORATORY

FINAL REPORT



Company Statoil Date October 1979
 Well 34/10-4 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.		
1833.69-80	2214	2154	1627	1577	39.7				2.67	s.st.Gy.Med.gr.Poor cemented w/mica
1834.02-17	2187	2127	1770	1710	39.2	38.5	33.2	33.2	2.68	A.A
4.56-65	1888	1828	1439	1389	38.5				2.72	A.A
1834.90-99	1200	1150	939	899	35.7				2.77	A.A.slight calcitic
1835.32-46	1875	1815	1266	1216	37.9	27.4	19.5	35.2	2.73	A.A.without calcite
1835.68-75	1746	1686	1224	1174	37.9				2.73	A.A
1836.15-24	2413	2333	1695	1645	39.4				2.67	A.A
1836.74-88	2161	2101	1768	1708	39.8	38.5	28.2	31.4	2.68	A.A
1837.16-29	2134	2074	1999	1939	40.9				2.67	A.A
1837.44-50	1708	1648	1023	973	39.6				2.69	A.A
1837.58-74	1515	1765	N.V.P.P.		40.3	30.2	25.7	29.8	2.69	A.A
1838.00-05	N.P.P.									
1838.30-35	N.P.P.									
1838.50-60	N.P.P.					34.0	24.2	35.7		
1838.90-95	N.P.P.									
1839.25-33	1688	1638	1333	1283	38.1				2.71	A.A
1839.49-63	1596	1546	1367	1317	38.8	36.7	32.7	29.9	2.70	A.A
1840.50-55	1910	1850	1440	1390	39.4				2.69	A.A
1841.00-08	1553	1503	1833	1773	39.5				2.70	A.A
1841.46-56	N.P.P.					36.2	27.9	34.2		

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	KA	KL	KA	KL			SO	STW.		
1826.45-55	913	873	490	460	34.7	34.8	22.9	39.9	2.69	s.st.Gy Med.gr.w/poor cemented calcitic w/mica
1826.80,86	1171	1121	952	912	34.4				2.94	A.A sideritic
1827.04-12	1101	1051	912	872	33.4				2.92	A.A
1827.26-36	1105	1055	941	901	32.9	29.0	31.9	34.5	2.94	A.A
1827.70-77	1396	1346	996	956	35.2				2.84	s.st.Gy.Med.gr. poor cemented w/mica
1828.05-12	1748	1688	1371	1321	36.9				2.74	A.A.
1828.41-50	N.H.P.P.		948	908		34.8	23.3	36.8		
1828.72-80	1176	1126	958	918	35.6				2.81	A.A
1829.05-16	1206	1156	893	853	35.5				2.77	A.A
1829.32-49	1875	1815	1140	1090	37.9	33.1	28.3	32.8	2.73	A.A
1829.72-80	1289	1239	978	938	36.7				2.71	A.A
1830.11-19	1782	1722	1407	1357	37.9				2.70	A.A
1830.54-63	1534	1484	N.V.P.P.		37.4	39.5	30.9	35.0	2.73	A.A
1830.91-98	1751	1691	1234	1184	38.5				2.72	A.A
1831.26-34	1527	1477	1162	1112	38.1				2.74	A.A
1831.58-72	1661	1611	1123	1073	37.8	36.2	30.2	33.7	2.71	A.A
1832.00-08	1445	1395	1080	1030	37.4				2.71	A.A
1832.38-45	2025	1965	1517	1467	38.9				2.70	A.A
1832.84-95	2109	2048	1411	1361	39.7	33.2	24.5	32.5	2.68	A.A
1833.26-36	2207	2147	1564	1514	35.9				2.68	A.A

