

Denne rapport
tilhører

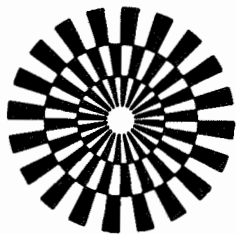


L&U DOK. SENTER

L. NR. 12482120017

KODE Well 34/10-13 nr. 13

Returneres etter bruk



GECO

GEOPHYSICAL COMPANY
OF NORWAY A-S



STATOIL
CONVENTIONAL CORE DATA
WELL: 34/10-13
CORE NO.: 1 - 16
DATE: MARCH 1982

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|----------------------------|------|-------|--|
| L no. | | | |
| A no. | | | |
| S no. | | | |
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| K no. ST05 - P5.12.02 - 01 | | | |
| O no. 34/10-13 | | | |
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 * GECO A.S. LABORATORY *
 * FINAL REPGRT *
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COMPANY:STATOIL
 WELL: 34/10-13
 FIELD:

DATE: MARCH 1982
 CORE: 1
 STATE:NORWAY

PAGE: 1

| DEPTH | HCRIZCNTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE PORCSITY % | SUMM- ATION PORCS. % | PORE- SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|--------------|------------------------------------|--------|----------------------------------|--------|------------------|----------------------|------------------|------|-------------------|--|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 1931.00 | | | | | | | | | | |
| / 1921 10-20 | 3073.0 | 2993.0 | 1609.0 | 1559.0 | 35.0 | | | | 2.68 | SST, GREYWHITE, ANG. COAR-V. COAR, V. POORCEM. |
| 1921.30 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
 ++) NC PLUG POSSIBLE
 +++) NC VERTICAL PLUG POSSIBLE
 ++++) NC HCRIZONTAL PLUG POSSIBLE

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 *
 * GECO A.S. LABORATORY *
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COMPANY: STATOIL
 WELL: 34/10-13
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DATE: MARCH 1982
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 STATE: NORWAY

PAGE: 2

| DEPTH | HGRIZCNTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE POROSITY % | SUMM- ATION POROS. % | PORE- SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|------------|------------------------------------|--------|----------------------------------|-------|------------------|----------------------|------------------|------|-------------------|---|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 1931.30 | | | | | | | | | | |
| 1931.40-47 | 2780.0 | 2700.0 | 967.0 | 927.0 | 34.4 | | | | 2.67 | SST. GREY-WHITE/ANG.M.VCOARS-V. POOR CEM |
| 1931.70-80 | 347.0 | 317.0 | 27.0 | 22.0 | 31.9 | | | | 2.66 | SST. GREY/WHITE; SUBANG VF. POOR CEM. CARB. F |
| 1932.10-17 | 874.0 | 834.0 | 56.0 | 48.0 | 31.4 | | | | 2.74 | SST. GREYISH-WHITE, SUBANG. F. POORLY CEM. |
| 1932.51-57 | +)) | | 0.19 | 0.12 | 25.4 | | | | 2.69 | SST. GREY, SUBANG. VF. MODERATELY CEM' |
| 1932.90-98 | 399.0 | 369.0 | 5.4 | 4.0 | 32.3 | | | | 2.69 | A.A + CARB. FRAG. |
| 1933.20-28 | 3200.0 | 3120.0 | 42.0 | 35.0 | 31.1 | | | | 2.71 | SST. GREYISH-WHITE. MODERATELY CEM |
| 1933.47-55 | 11.8 | 9.3 | 4.7 | 3.5 | 25.6 | | | | 2.73 | SST. GREY, SUBANG. F. WELL CEM |
| 1933.94-04 | +)) | | 0.49 | 0.32 | 25.9 | | | | 2.67 | A.A |
| 1934.51-59 | 33.0 | 28.0 | 26.0 | 21.0 | 29.4 | | | | 2.68 | SST. GREYISH-WHITE, SUBANG, F, MODERAT. CEM |
| 1934.78-86 | 2.4 | 1.7 | +)) | | 22.9 | | | | 2.67 | SST. GREY, SUBANG, VF, WELL CEM |
| 1935.09-16 | 10.2 | 8.0 | 0.71 | 0.47 | 25.0 | | | | 2.63 | SST. GREYISH-WHITE, SUBANG, VF, POORLY CEM |
| 1935.96-06 | 50.0 | 43.0 | 181.0 | 161.0 | 20.4 | | | | 2.61 | SST. GREYISH-WHITE, SUBANG, MED, POORLY CEM. |
| 1937.23-30 | 450.0 | 420.0 | 276.0 | 256.0 | 29.6 | | | | 2.70 | SST. WHITE, SUBANG, MED. POORLY CEM. |
| 1937.54-62 | 240.0 | 220.0 | 71.0 | 62.0 | 28.2 | | | | 2.73 | SST. WHITE, ANG. COARSE, MODERATELY CEM, . |
| 1937.88-95 | 1648.0 | 1598.0 | 25.0 | 21.0 | 32.1 | | | | 2.69 | SST. WHITE, ANG. MED. VERY POORLY CEM |
| 1938.28-34 | 1916.0 | 1856.0 | 543.0 | 513.0 | 30.9 | | | | 2.78 | A.A + PYR |
| 1938.66-72 | 1783.0 | 1723.0 | 212.0 | 192.0 | 31.8 | | | | 2.65 | SST. WHITE. AND. MED. POORLY CEM. |
| 1942.30 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
 ++) NO PLUG POSSIBLE
 +++) NO VERTICAL PLUG POSSIBLE
 +++++) NO HCRIZONTAL PLUG POSSIBLE

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 * GECO A.S. LABORATORY *
 * FINAL REPRT *
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COMPANY:STATCIL DATE: MARCH 1982
 WELL: 34/10-13 CORE: 3
 FIELD: STATE:NORWAY PAGE: 3

| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY KA KL | VERTICAL PERMEABILITY MILLIDARCY KL | BRINE PORCSITY % | SUM-ATION PORGS. % | PORE-SATURATION SO | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|-------|--|-------------------------------------|------------------|--------------------|--------------------|-------------------|-----------------------|
|-------|--|-------------------------------------|------------------|--------------------|--------------------|-------------------|-----------------------|

1942.30
 1944.00

+) NO MEASUREMENT POSSIBLE
 ++) NC PLUG POSSIBLE
 +++) NO VERTICAL PLUG POSSIBLE
 ++++) NC HORIZONTAL PLUG POSSIBLE

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GECO A.S. LABORATORY
 FINAL REPORT

COMPANY: STATOIL
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 STATE: NORWAY

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| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY KA | VERTICAL PERMEABILITY MILLIDARCY KA | BRINE POROSITY % | SUMMATION PORCS. % | PORE-SATURATION SO | STW. | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|------------|---------------------------------------|-------------------------------------|------------------|--------------------|--------------------|------|-------------------|--|
| 1944.00 | | | | | | | | |
| 1944.44-52 | 1.2 | 0.83 | 13.0 | | | | 2.94 | SST. GREYISH-WHITE, SUBANG. MED. WELL CEM, P |
| 1944.80-90 | 1.2 | 0.83 | 11.5 | | | | 3.12 | A.A |
| 1945.94-00 | 1049.0 | 999.0 | 29.9 | | | | 2.62 | SST. WHITE, ANG. VC. VERY POORLY CEM |
| 1946.20-28 | 251.0 | 231.0 | 29.4 | | | | 2.67 | SST. WHITE, ANG. C. WELL - CEM |
| 1946.50-58 | 0.55 | 0.36 | 15.0 | | | | 2.58 | SST. GREY. SUBANG. V. F. WELL CEM |
| 1946.80-88 | 584.0 | 554.0 | 26.7 | | | | 2.69 | SST. WHITE. ANG. V. C. WELL - CEM. |
| 1947.10-18 | ++) | | | | | | | |
| 1947.40-48 | 671.0 | 641.0 | 29.0 | | | | 2.64 | SST. WHITE. ANG. C. VERY POORLY CEM. |
| 1947.75-82 | 1386.0 | 1336.0 | 29.7 | | | | 2.63 | A.A |
| 1948.09-16 | 2158.0 | 2098.0 | 30.6 | | | | 2.66 | SST. WHITE ANG. V. C. VERY POORLY CEM. |
| 1948.40-46 | 1031.0 | 981.0 | 30.8 | | | | 2.64 | A.A |
| 1948.75-86 | 642.0 | 612.0 | 27.3 | | | | 2.64 | A.A |
| 1949.13-20 | 151.0 | 136.0 | 25.0 | | | | 2.65 | A.A |
| 1949.39-44 | 2340.0 | 2260.0 | 33.1 | | | | 2.64 | A.A |
| 1949.70-76 | 25.0 | 21.0 | 20.1 | | | | 2.65 | SST. WHITE SUBANG. V. C. VERY POORLY CEM. |
| 1950.02-10 | 2428.0 | 2348.0 | 27.1 | | | | 2.66 | A.A |
| 1953.79-84 | 2.5 | 1.8 | 19.1 | | | | 2.63 | SST. GREYISH-WHITE, SUBANG. F. WELL - CEM. |
| 1954.07-14 | 13.0 | 10.0 | 20.5 | | | | 2.65 | A.A |
| 1954.40-47 | 28.0 | 23.0 | 20.0 | | | | 2.65 | A.A |
| 1954.69-75 | 237.0 | 217.0 | 20.5 | | | | 2.65 | A.A |
| 1954.75-85 | 487.0 | 457.0 | 31.3 | | | | 2.66 | SST. WHITE ANG. V. C. POORLY CEM |
| 1955.05-13 | 67.0 | 58.0 | 25.9 | | | | 2.65 | SST. WHITE ANG. V. C. VFRY POORLY CEM. |
| 1955.32-38 | 641.0 | 611.0 | 27.1 | | | | 2.68 | A.A |
| 1956.56-64 | 351.0 | 321.0 | 26.2 | | | | 2.64 | SST. WHITE ANG. C. VERY POORLY CEM |
| 1956.85-93 | 832.0 | 792.0 | 32.5 | | | | 2.64 | A.A |
| 1957.20-32 | 352.0 | 322.0 | 32.7 | | | | 2.63 | A.A |
| 1957.58-65 | 189.0 | 169.0 | 32.9 | | | | 2.65 | A.A |
| 1957.85-94 | 480.0 | 450.0 | 34.3 | | | | 2.64 | A.A |
| 1958.48-58 | 1106.0 | 1056.0 | 31.8 | | | | 2.64 | SST. WHITE ANG. V. C. VERY POORLY CEM |
| 1958.75-81 | 80.0 | 70.0 | 28.9 | | | | 2.72 | SST. WHITE ANG F. WELL CEM + PYR. |
| 1959.10-18 | 159.0 | 143.0 | 21.1 | | | | 2.76 | SST. GREYISH WHITE ANG. V. C. POORLY CEM |
| 1961.00 | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
 ++) NC PLUG POSSIBLE
 +++) NC VERTICAL PLUG POSSIBLE
 ++++) NC HORIZONTAL PLUG POSSIBLE

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COMPANY: STATOIL DATE: MARCH 1982
 WELL: 34/10-13 CORE: 5
 FIELD: STATE: NORWAY

| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY KA | VERTICAL PERMEABILITY MILLIDARCY KL | BRINE FORGIVITY % | SUMMATION PORCS. % | PORE-SATURATION SO | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|---------|---------------------------------------|-------------------------------------|-------------------|--------------------|--------------------|-------------------|-----------------------|
| 1961.00 | | | | | | | |
| 1963 00 | | | | | | | |

+) NC MEASUREMENT POSSIBLE
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 +++) NO VERTICAL PLUG POSSIBLE
 ++++) NC HORIZONTAL PLUG POSSIBLE

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COMPANY:STATOIL
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| DEPTH | HCRIZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE POROSITY % | SUMM- ATION PORCS. % | PORE- SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|---------------|------------------------------------|--------|----------------------------------|-------|------------------|----------------------|------------------|------|-------------------|---------------------------------------|
| | KA | KL | KA | KL | | | SO | STh. | | |
| 1963.00 | | | | | | | | | | |
| 1963 33-43 | ++) | | | | | | | | | |
| 50 1964.08-18 | 3224.0 | 3144.0 | 266.0 | 246.0 | 28.3 | | | | 2.65 | SST.WHITE SUBANG.V.C.VERY POORLY CEM. |
| 57 1964 38-48 | 1392.0 | 1342.0 | 867.0 | 827.0 | 25.0 | | | | 2.66 | SST.WHITE SUBANG V.C. POORLY CEM CLAY |
| 1964.73-80 | +++) | | | | | | | | | |
| 1966.00-06 | ++) | | | | | | | | | |
| 52 1966.90-98 | 0.16 | 0.10 | 0.09 | 0.05 | 13.8 | | | | 2.68 | SILTSTONE,WHITE,WELL-CEM |
| 1967 28-36 | 0.54 | 0.35 | 0.34 | 0.21 | 16.5 | | | | 2.66 | SST.GREYISH-WHITE SUBANG.V.F.WELL-CEM |
| 54 1971.83-90 | 0.30 | 0.19 | 0.40 | 0.26 | 18.1 | | | | 2.69 | SST.GREYISH WHITE,SUBANG.V.F.WELL-CEM |
| 1972.15-22 | 16.0 | 13.0 | 0.64 | 0.42 | 22.9 | | | | 2.67 | SST.WHITE SUBANG.F.WELL-CEM |
| 1972.48-55 | 1.7 | 1.2 | 1.9 | 1.3 | 22.1 | | | | 2.66 | A.A |
| 1972.79-87 | 0.93 | 0.63 | 0.13 | 0.07 | 20.4 | | | | 2.66 | SST.GREYISH WHITE,SUBANG.V.F.WELL-CEM |
| 53 1973.22-30 | 9.4 | 7.3 | 9.2 | 7.1 | 25.1 | | | | 2.72 | SST.WHITE,SUBANG.F.WELL-CEM. |
| 1974.00 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
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 +++)) NO VERTICAL PLUG POSSIBLE
 ++++)) NO HCRIZONTAL PLUG POSSIBLE

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COMPANY:STATOIL
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DATE: MARCH 1982
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 STATE:NORWAY

| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE POROSITY % | SUMMATION POROS. % | PORE-SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|------------|------------------------------------|--------|----------------------------------|--------|------------------|--------------------|-----------------|------|-------------------|--------------------------------------|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 1974.00 | | | | | | | | | | |
| 1974.00-08 | 309.0 | 279.0 | 226.0 | 206.0 | 31.7 | | | | 2.65 | SST.WHITE,ANG.MED.POORLY CEM. |
| 1974.30-38 | 334.0 | 304.0 | 370.0 | 340.0 | 31.4 | | | | 2.64 | A.A |
| 1974.60-68 | 528.0 | 498.0 | 200.0 | 180.0 | 31.7 | | | | 2.65 | SST.WHITE,ANG.C.VERY POORLY CEM. |
| 1974.90-98 | 279.0 | 259.0 | 164.0 | 148.0 | 30.3 | | | | 2.64 | SST.WHITE,ANG.V.C.VERY POORLY CEM |
| 1975.30-38 | 449.0 | 413.0 | 557.0 | 527.0 | 27.5 | | | | 2.65 | A.A |
| 1975.62-70 | 886.0 | 846.0 | 426.0 | 396.0 | 27.7 | | | | 2.66 | A.A |
| 1975.90-98 | ++++) | | 82.0 | 72.0 | 22.5 | | | | 2.65 | SST.WHITE,ANG.V.C.MODERATELY CEM |
| 1976.80-88 | 0.05 | 0.03 | ++++) | | 5.1 | | | | 3.01 | SST.GREY SUBANG V.F.WELL-CEM |
| 1977.09-17 | 1.06 | 0.72 | 0.15 | 0.09 | 11.5 | | | | 2.67 | A.A |
| 1977.66-72 | 31.0 | 26.0 | 14.0 | 11.0 | 19.4 | | | | 2.67 | SST.WHITE SUBANG.MED.MODERATELY CEM. |
| 1978.12-19 | 453.0 | 423.0 | 322.0 | 292.0 | 29.3 | | | | 2.66 | SST.WHITE SUBANG.V.C.POORLY CEM |
| 1978.38-46 | 308.0 | 278.0 | 177.0 | 157.0 | 27.2 | | | | 2.69 | A.A |
| 1978.72-80 | 83.0 | 73.0 | 61.0 | 53.0 | 19.1 | | | | 2.68 | SST.WHITE,SUBANG.C.WELL-CEM |
| 1979.10-20 | 0.03 | 0.02 | 0.03 | 0.01 | 1.7 | | | | 2.68 | A.A |
| 1979.92-00 | 11.0 | 8.6 | 0.05 | 0.03 | 15.6 | | | | 2.68 | A.A |
| 1980.36-45 | 294.0 | 274.0 | 114.0 | 101.0 | 30.9 | | | | 2.65 | SST.WHITE,SUBANG.C.VERY POORLY CEM. |
| 1980.77-85 | 2344.0 | 2264.0 | 2989.0 | 2909.0 | 30.6 | | | | 2.65 | A.A |
| 1981.07-15 | 2640.0 | 2560.0 | +++) | | 32.5 | | | | 2.66 | A.A |
| 1981.35-43 | 1406.0 | 1356.0 | 673.0 | 643.0 | 30.3 | | | | 2.64 | SST.WHITE SUBANG.V.C.VERY POORLY CEM |
| 1981.65-71 | 1736.0 | 1676.0 | 1137.0 | 1087.0 | 30.0 | | | | 2.64 | A.A |
| 1981.94-02 | 598.0 | 568.0 | 377.0 | 347.0 | 30.4 | | | | 2.66 | A.A |
| 1982.28-36 | 461.0 | 431.0 | 535.0 | 505.0 | 30.8 | | | | 2.65 | A.A |
| 1982.60-68 | 208.0 | 188.0 | 135.0 | 121.0 | 31.7 | | | | 2.64 | A.A |
| 1982.90-98 | 200.0 | 180.0 | 125.0 | 112.0 | 30.7 | | | | 2.64 | A.A |
| 1983.23-30 | 1855.0 | 1795.0 | 1113.0 | 1063.0 | 30.8 | | | | 2.65 | A.A |
| 1983.52-60 | 1253.0 | 1203.0 | 346.0 | 316.0 | 31.8 | | | | 2.65 | A.A |
| 1983.60-68 | 3064.0 | 2584.0 | +++) | | 28.3 | | | | 2.65 | A.A |
| 1983.91-00 | 2872.0 | 2792.0 | 1452.0 | 1402.0 | 32.5 | | | | 2.64 | A.A |
| 1984.24-32 | 3042.0 | 2962.0 | 1562.0 | 1512.0 | 26.2 | | | | 2.64 | A.A |
| 1985.40-48 | 166.0 | 150.0 | 18.0 | 15.0 | 26.8 | | | | 2.64 | SST.WHITE,SUBANG.V.C.POORLY CEM |
| 1985.74-82 | 499.0 | 469.0 | 703.0 | 663.0 | 30.3 | | | | 2.67 | A.A |
| 1986.05-15 | 66.0 | 57.0 | 6.5 | 4.9 | 26.4 | | | | 2.76 | SST.WHITE,SUBANG.MED.WELL-CEM |
| 1986.30-37 | 12.0 | 10.0 | 0.97 | 0.66 | 23.9 | | | | 2.74 | A.A |
| 1986.60-67 | 0.46 | 0.29 | 0.08 | 0.05 | 18.1 | | | | 2.63 | SST.WHITE,SUBANG.F.WELL-CEM |
| 1988.00 | | | | | | | | | | |

+) NC MEASUREMENT POSSIBLE
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COMPANY:STATOIL
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DATE: MARCH 1982
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| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE PROSITY % | SUMM- ATIGN PORGS. % | PORE- SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|---------------|------------------------------------|------|----------------------------------|------|-----------------|----------------------|------------------|------|--------------------------------|-----------------------|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 1988.00 | | | | | | | | | | |
| 93 1994.10-20 | 51.0 | 43.0 | 2.0 | 1.4 | 24.6 | | | 2.69 | SST.WHITE SUBANG.F.WELL-CEM | |
| 94 1994.39-46 | 0.65 | 0.43 | 0.19 | 0.12 | 12.6 | | | 2.71 | SST.WHITE, SUBANG.V.F.WELL-CEM | |
| 95 1994.70-79 | 0.15 | 0.09 | 0.11 | 0.07 | 7.2 | | | 2.69 | SST.WHITE SUBANG.MED.WELL-CEM | |
| 96 1995.28-35 | 39.0 | 33.0 | 11.6 | 9.1 | 19.4 | | | 2.70 | SST.WHITE, SUBANG.C.WELL-CEM | |
| 2003.00 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
 ++) NO PLUG POSSIBLE
 +++) NO VERTICAL PLUG POSSIBLE
 ++++) NO HORIZONTAL PLUG POSSIBLE

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COMPANY: STATOIL
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 FIELD:

DATE: MARCH 1982
 CORE: 9
 STATE: NORWAY

| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE POROSITY % | SUMM- ATIGN PORCS. % | PORE- SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|------------|------------------------------------|--------|----------------------------------|--------|------------------|----------------------|------------------|------|-------------------|--------------------------------------|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 2003.00 | | | | | | | | | | |
| 2003.00-07 | 2565.0 | 2485.0 | 825.0 | 785.0 | 31.2 | | | | 2.65 | SST.WHITE, SUBANG.C.WELL-CEM |
| 2003.39-47 | 270.0 | 250.0 | 43.0 | 36.0 | 27.7 | | | | 2.65 | SST.WHITE, SUBANG.MED.MODERATELY CEM |
| 2003.63-70 | 408.0 | 378.0 | 107.0 | 95.0 | 30.9 | | | | 2.64 | A.A |
| 2003.90-00 | 737.0 | 697.0 | 980.0 | 940.0 | 27.9 | | | | 2.64 | SST.WHITE, ANG.V.C.VERY POORLY CEM |
| 2004.33-40 | 437.0 | 407.0 | 336.0 | 306.0 | 32.7 | | | | 2.66 | SST.WHITE, ANG.MED.MODERATELY CEM |
| 2004.65-74 | 419.0 | 389.0 | 303.0 | 273.0 | 28.7 | | | | 2.65 | SST.WHITE ANG V.C.POORLY CEM |
| 2004.80-90 | 2466.0 | 2386.0 | 3838.0 | 3758.0 | 31.7 | | | | 2.64 | SST.WHITE ANG.V.C.VERY POORLY CEM |
| 2005.10-17 | 552.0 | 912.0 | 388.0 | 358.0 | 27.8 | | | | 2.66 | A.A |
| 2005.40-47 | 145.0 | 130.0 | 101.0 | 89.0 | 27.0 | | | | 2.66 | SST.WHITE, ANG.V.C.POORLY CEM |
| 2006.60-68 | 57.0 | 49.0 | 23.0 | 19.0 | 26.0 | | | | 2.68 | A.A |
| 2006.93-00 | 284.0 | 264.0 | 67.0 | 58.0 | 25.1 | | | | 2.66 | A.A |
| 2007.25-33 | 218.0 | 198.0 | 199.0 | 179.0 | 29.6 | | | | 2.65 | SST.WHITE, ANG.MED.WELL-CEM |
| 2007.60-66 | 1018.0 | 968.0 | 1266.0 | 1216.0 | 26.7 | | | | 2.64 | SST.WHITE, ANG.V.C.WELL-CEM |
| 2007.92-98 | 4554.0 | 4474.0 | 966.0 | 926.0 | 29.7 | | | | 2.64 | A.A |
| 2008.25-31 | 1182.0 | 1132.0 | 475.0 | 445.0 | 29.8 | | | | 2.65 | A.A |
| 2008.60-67 | 36.0 | 30.0 | 69.0 | 60.0 | 21.6 | | | | 2.71 | A.A |
| 2008.88-96 | 2.1 | 1.5 | 0.69 | 0.45 | 21.7 | | | | 2.75 | SST.WHITE ANG.F.WELL-CEM |
| 2009.30-37 | 0.20 | 0.12 | 0.05 | 0.02 | 7.9 | | | | 2.91 | SST.WHITE ANG.MED.WELL-CEM |
| 2010.54-60 | 0.28 | 0.17 | 1.2 | 0.83 | 17.8 | | | | 2.69 | SILTSTONE WHITE |
| 2010.72-79 | 780.0 | 740.0 | 19.0 | 15.0 | 26.4 | | | | 2.67 | SST.WHITE, SUBANG.C.WELL-CEM |
| 2010.98-05 | 143.0 | 128.0 | 18.0 | 15.0 | 25.9 | | | | 2.68 | A.A |
| 2011.50 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
 ++) NO PLUG POSSIBLE
 +++) NO VERTICAL PLUG POSSIBLE
 ++++) NO HORIZONTAL PLUG POSSIBLE

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 *
 * GECO A. S. LABORATORY *
 * FINAL REPORT *
 *

COMPANY: STATOIL
 WELL: 34/10-13
 FIELD:

DATE: MARCH 1982
 CORE: 10
 STATE: NORWAY

| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE POROSITY % | SUMM- ATICN PORCS. % | PORE- SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|------------|------------------------------------|---------|----------------------------------|--------|------------------|----------------------|------------------|------|-------------------|--------------------------------------|
| | KA | KL | KA | KL | | | SG | STW. | | |
| 2011.50 | | | | | | | | | | |
| 2011.50-57 | 822.0 | 782.0 | 215.0 | 195.0 | 29.6 | | | | 2.65 | SST.WHITE SUBANG.MED.WELL-CEM |
| 2011.85-93 | 1096.0 | 1046.0 | 911.0 | 871.0 | 26.8 | | | | 2.65 | SST.WHITE SUBANG.C.MODERATELY CEM |
| 2012.25-33 | 3321.0 | 3241.0 | 1088.0 | 1038.0 | 28.3 | | | | 2.66 | SST.WHITE SUBANG.V.C.POORLY CEM |
| 2012.67-75 | 4019.0 | 3939.0 | 162.0 | 146.0 | 28.9 | | | | 2.63 | A.A |
| 2012.90-98 | 7547.0 | 7822.0 | 263.0 | 243.0 | 28.3 | | | | 2.60 | A.A |
| 2013.22-30 | 1452.0 | 1402.0 | 2176.0 | 2116.0 | 29.1 | | | | 2.66 | SST.WHITE SUBANG.V.C.WELL-CEM |
| 2013.30-40 | 9807.0 | 9682.0 | 2664.0 | 2584.0 | 27.7 | | | | 2.65 | A.A |
| 2013.60-68 | 19642.0 | 19392.0 | 7776.0 | 7651.0 | 31.7 | | | | 2.65 | SST.WHITE.SUBANG.V.C.VERY POORLY CEM |
| 2013.95-00 | 14159.0 | 13959.0 | +++) | | 28.2 | | | | 2.63 | A.A |
| 2015.10-18 | 8715.0 | 8590.0 | 711.0 | 671.0 | 29.3 | | | | 2.65 | SST.WHITE SUBANGV.C.WELL-CEM |
| 2015.40-48 | ++) | | | | | | | | | |
| 2015.70-78 | 9439.0 | 9314.0 | 91.0 | 80.0 | 30.5 | | | | 2.67 | SST.WHITE,SUB.ROUND.V.C.MODER.CEM |
| 2016.00-08 | 4430.0 | 4350.0 | 55.0 | 47.0 | 22.2 | | | | 2.71 | SST.WHITE,SUB.ROUND.V.C.MODER.CEM |
| 2016.30-38 | 9708.0 | 9583.0 | 7163.0 | 7063.0 | 27.5 | | | | 2.67 | SST.WHITE SUB.ROUND.V.C.MODER.CEM |
| 2016.55-63 | 690.0 | 660.0 | 1697.0 | 1647.0 | 19.6 | | | | 2.70 | SST.WHITE,SUBANG.V.C.WELL-CEM |
| 2019.50 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
 ++) NC PLUG POSSIBLE
 +++) NO VERTICAL PLUG POSSIBLE
 ++++) NC HORIZONTAL PLUG POSSIBLE

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 * GECO A.S. LABORATORY *
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COMPANY:STATOIL
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DATE: MARCH 1982
 CORE: 11
 STATE:NORWAY

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| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE POROSITY % | SUMMATION POROS. % | PORE-SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|------------|------------------------------------|-------|----------------------------------|-------|------------------|--------------------|-----------------|------|-------------------|---|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 2018.50 | | | | | | | | | | |
| 2023 90-99 | 2.8 | 2.0 | +)) | | 18.6 | | | | 2.65 | SST.WHITE SUBANG.V.F.WELL-CEM. |
| 2024.14-22 | ++++) | | 1.6 | 1.1 | 22.9 | | | | 2.67 | SILTSTONE, WHITE |
| 2024.50-58 | 1.8 | 1.3 | 4.9 | 3.7 | 20.9 | | | | 2.66 | SST.WHITE, SUBANG.V.F.WELL-CEM |
| 2024 79-87 | 42.0 | 35.0 | 16.0 | 13.0 | 28.5 | | | | 2.66 | SST.WHITE, SUBANG.F.WELL-CEM |
| 2025.24-33 | ++) | | | | | | | | | |
| 2025.52-59 | 3.3 | 2.4 | 7.5 | 5.7 | 18.2 | | | | 2.63 | SST.WHITE, SUBANG, V.F.WELL-CEM |
| 2025 78-85 | 3.8 | 2.8 | +++) | | 22.4 | | | | 2.75 | SST.WHITE, SUBANG.F.MODER.CEM |
| 2026.15-23 | 3.6 | 2.6 | 3.9 | 2.9 | 22.6 | | | | 2.65 | SST.WHITE SUBANG.F.WELL-CEM |
| 2026 42-50 | 1.06 | 0.72 | +++) | | 26.2 | | | | 2.84 | SST.WHITE SUBANG.V.F.MODERATELY CEM. |
| 2026.70-78 | 43.0 | 36.0 | 5.1 | 3.8 | 25.5 | | | | 2.81 | SST.ORANGE SUBANG.MED.WELL-CEM |
| 2027 04-12 | 666.0 | 636.0 | 0.94 | 0.64 | 26.1 | | | | 2.68 | SST.WHITE SUBANG.V.C.WELL-CEM,CARB.FRAG |
| 2027.32-40 | 25.0 | 21.0 | 18.0 | 15.0 | 26.3 | | | | 2.66 | SST.WHITE SUBANG.F.WELL-CEM |
| 2027.57-65 | +)) | | 0.95 | 0.65 | 10.0 | | | | 2.75 | SST.WHITE SUBANG.MED.WELL-CEM |
| 2028.09-17 | 964.0 | 924.0 | 672.0 | 642.0 | 26.0 | | | | 2.66 | SST.WHITE SUBANG V.C.WELL-CEM |
| 2028 65-73 | 148.0 | 133.0 | 266.0 | 246.0 | 26.5 | | | | 2.68 | A.A |
| 2028.92-00 | 129.0 | 115.0 | 142.0 | 127.0 | 23.6 | | | | 2.66 | A.A |
| 2029.28-36 | 76.0 | 66.0 | 155.0 | 140.0 | 22.3 | | | | 2.74 | A.A |
| 2030.35-42 | 0.16 | 0.10 | 0.56 | 0.36 | 17.4 | | | | 2.73 | SST.WHITE SUBANG F.WELL-CEM |
| 2030.61-71 | 0.68 | 0.45 | 3.2 | 2.3 | 20.4 | | | | 2.68 | A.A |
| 2031 10-20 | 0.17 | 0.10 | +++) | | 15.7 | | | | 2.67 | SST.WHITE SUBANG V.F.WELL CEM |
| 2031.90-99 | 0.25 | 0.16 | 0.64 | 0.42 | 20.6 | | | | 2.68 | SST.WHITE SUBANG.F.WELL-CEM |
| 2032.18-26 | 0.53 | 0.63 | 1.12 | 0.80 | 21.6 | | | | 2.74 | A.A |
| 2032.50-58 | 64.0 | 55.0 | 56.0 | 48.0 | 15.9 | | | | 2.71 | SST.WHITE SUBANG.C.WELL-CEM |
| 2032.80-87 | 0.18 | 0.11 | 9.3 | 7.2 | 7.1 | | | | 2.76 | A.A |
| 2033.05-13 | 2.7 | 1.9 | 0.07 | 0.04 | 18.1 | | | | 2.64 | SST.WHITE SUBANG.V.F.WELL-CEM |
| 2035.00 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
 ++) NO PLUG POSSIBLE
 +++) NO VERTICAL PLUG POSSIBLE
 ++++) NO HORIZONTAL PLUG POSSIBLE

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 *
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COMPANY:STATOIL
 WELL: 34/10-13
 FIELD:

DATE: MARCH 1982
 CORE: 12
 STATE:NORWAY

| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE POROSITY % | SUMM-ATION PGRCS. % | PORE-SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|------------|------------------------------------|------|----------------------------------|------|------------------|---------------------|-----------------|------|-------------------|----------------------------|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 2035.00 | | | | | | | | | | |
| 2036 00-08 | 0.58 | 0.38 | 9.5 | 7.4 | 10.4 | | | 2.74 | SST.WHITE | SUBANG.MED.WELL-CEM |
| 2036.50-58 | 2.3 | 1.6 | 31.0 | 26.0 | 21.3 | | | 3.04 | SST.WHITE | SUBANG MED MODERATELY CEM |
| 2036.85-93 | 18.0 | 15.0 | 9.5 | 7.4 | 22.3 | | | 2.70 | A.A | |
| 2037 25-32 | ++) | | | | | | | | | |
| 2037.50-59 | 21.0 | 17.0 | 28.0 | 23.0 | 24.9 | | | 2.72 | SST.WHITE | SUBANG MED POORLY CEM |
| 2037 88-00 | 38.0 | 32.0 | +++) | | 22.9 | | | 2.66 | SST.WHITE | SUBANG C,POORLY CEM |
| 2038.20-27 | 9.4 | 7.3 | +)) | | 22.5 | | | 2.71 | A.A | |
| 2038.50-58 | 7.4 | 5.7 | 22.0 | 18.0 | 20.7 | | | 2.70 | A.A | |
| 2038 89-99 | 49.0 | 42.0 | 96.0 | 85.0 | 24.0 | | | 2.66 | SST.WHITE | SUBANG.V.C.VERY POORLY CEM |
| 2039.28-36 | 15.0 | 12.0 | 31.0 | 26.0 | 21.6 | | | 2.68 | SST.WHITE | SUBANG.MED MODERATELY CEM |
| 2039.76-84 | 0.35 | 0.22 | 0.06 | 0.03 | 8.1 | | | 2.72 | SST.WHITE | SUBANG.C.WELL-CEM |
| 2040.05-13 | 0.15 | 0.09 | 0.12 | 0.07 | 8.3 | | | 2.73 | A.A | |
| 2040.39-47 | 0.61 | 0.40 | 1.00 | 0.70 | 8.6 | | | 2.74 | A.A | |
| 2041.40-50 | 0.32 | 0.20 | 4.3 | 3.2 | 12.0 | | | 2.59 | | |
| 2041 70-75 | 0.59 | 0.38 | +++) | | 12.3 | | | 2.58 | | |
| 2042.00-10 | 0.88 | 0.59 | 6.3 | 4.8 | 14.3 | | | 2.60 | | |
| 2042 36-44 | 3.1 | 2.2 | 1.8 | 1.3 | 13.7 | | | 2.68 | SST.GREY, | SUBANG F. MODERATELY CEM |
| 2047.20 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
 ++) NO PLUG POSSIBLE
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 ++++) NO HORIZONTAL PLUG POSSIBLE

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COMPANY:STATOIL
 WELL: 34/10-13
 FIELD:

DATE: MARCH 1982
 CGRE: 13
 STATE:NORWAY

| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE POROSITY % | SUMMATION PORCS. % | PORE-SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|------------|------------------------------------|------|----------------------------------|------|------------------|--------------------|-----------------|------|--|-----------------------|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 2047.20 | | | | | | | | | | |
| 2047.62-70 | 1.3 | 0.91 | 11.7 | 9.2 | 23.2 | | | 2.86 | SST.WHITE SUBANG V.F.MODERATELY CEM | |
| 2048.10-18 | 38.0 | 32.0 | 44.0 | 37.0 | 25.2 | | | 2.76 | SST.WHITE SUBANG V.C.VERY POORLY CEM | |
| 2048.49-57 | 80.0 | 70.0 | 31.0 | 26.0 | 25.4 | | | 2.67 | SST.WHITE SUBANG V.C.POORLY CEM | |
| 2048.76-84 | ++) | | | | | | | | | |
| 2049.00-10 | 41.0 | 35.0 | 34.0 | 28.0 | 23.8 | | | 2.69 | SST.WHITE SUBANG.V.C.POORLY CEM | |
| 2049.30-38 | 35.0 | 29.0 | +++) | | 23.2 | | | 2.72 | A.A | |
| 2049.66-74 | 28.0 | 23.0 | 44.0 | 37.0 | 26.3 | | | 2.66 | SST.WHITE SUBANG F.WELL-CEM | |
| 2050.03-11 | 13.0 | 10.0 | 57.0 | 49.0 | 13.8 | | | 2.67 | SST.WHITE SUBANG.C.WELL-CEM + PYR. | |
| 2050.35-45 | 0.55 | 0.36 | 0.72 | 0.48 | 12.8 | | | 2.69 | A.A | |
| 2050.63-70 | 0.73 | 0.48 | 0.76 | 0.51 | 14.0 | | | 2.69 | A.A | |
| 2051.00-08 | 0.28 | 0.17 | 0.35 | 0.22 | 16.1 | | | 2.68 | A.A | |
| 2051.32-40 | 1.02 | 0.69 | 0.46 | 0.29 | 17.7 | | | 2.67 | A.A | |
| 2052.36-44 | 0.30 | 0.19 | 0.65 | 0.43 | 15.8 | | | 2.66 | SST.GREYISH WHITE SUBANG F.WELL-CEM | |
| 2052.60-68 | 0.53 | 0.34 | 0.98 | 0.67 | 18.5 | | | 2.66 | A.A | |
| 2053.05-13 | 6.2 | 4.7 | +++) | | 19.9 | | | 2.75 | SST.RED.SUBANG.F.WELL-CEM | |
| 2053.25-33 | 0.40 | 0.26 | 0.21 | 0.13 | 12.9 | | | 2.70 | SST.WHITE SUBANG F.WELL-CEM | |
| 2053.66-74 | 0.18 | 0.11 | 0.17 | 0.10 | 9.0 | | | 2.85 | SST.GREYISH WHITE SUBANG, V.F. WELL CEM | |
| 2053.92-00 | 3.0 | 2.2 | 1.4 | 1.0 | 13.8 | | | 2.74 | SST.GREYISH WHITE,SUBANG F.WELL-CEM | |
| 2054.24-32 | 0.31 | 0.19 | 0.14 | 0.08 | 9.1 | | | 2.76 | SST.GREY SUBANG V.F. WELL-CEM | |
| 2055.20-32 | ++) | | | | | | | | | |
| 2057.31-40 | 3.0 | 2.2 | 2.0 | 1.4 | 19.8 | | | 2.69 | SST.REDDISH BROWN/GREY,SUBANG.F.WELL-CEM | |
| 2057.62-70 | 0.38 | 0.24 | 0.54 | 0.35 | 17.6 | | | 2.67 | SST.GREY SUBANG.F.WELL-CEM | |
| 2057.96-04 | 4.8 | 3.6 | +)) | | 15.4 | | | 2.74 | SST.RED/GREY SUBANG.F.WELL-CEM | |
| 2058.27-35 | 0.38 | 0.24 | 1.3 | 0.91 | 11.3 | | | 2.75 | SST.GREYISH-WHITE,SUBANG F.WELL-CEM | |
| 2058.52-60 | 0.47 | 0.30 | 0.40 | 0.26 | 13.5 | | | 2.79 | SST.REDDISH-GREY,SUBANG F.WELL-CEM | |
| 2058.86-96 | 3.5 | 2.5 | +)) | | 16.8 | | | 2.68 | SST.GREY,SUBANG. F. WELL-CEM | |
| 2059.90-98 | 4.9 | 3.7 | 0.68 | 0.45 | 15.8 | | | 2.68 | SST.GREY,SUBANG.F. WELL-CEM | |
| 2060.40-48 | 0.37 | 0.23 | 0.40 | 0.26 | 17.2 | | | 2.66 | SST.WHITE.SBANG.MED.WELL-CEM | |
| 2061.36-46 | 0.89 | 0.60 | 1.2 | 0.83 | 19.7 | | | 2.65 | SST.WHITE SUBANG MED WELL-CEM | |
| 2061.60-68 | 2.7 | 1.9 | 3.7 | 2.7 | 23.9 | | | 2.67 | A.A | |
| 2061.93-01 | 0.40 | 0.26 | 0.34 | 0.21 | 16.8 | | | 2.67 | A.A | |
| 2062.35-43 | 1.7 | 1.2 | 1.4 | 1.0 | 19.9 | | | 2.69 | SST.WHITE SUBANG.F.WELL-CEM | |
| 2062.65-73 | 0.54 | 0.35 | 0.41 | 0.26 | 17.0 | | | 2.66 | A.A | |
| 2065.50 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
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 * GECO A.S. LABORATORY *
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| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE PGROSIYTY % | SUMM-ATION PORCS. % | PORE-SATURATION | | GRAIN DENS. GR/CC | FORMATICN DESCRIPTION |
|------------|------------------------------------|-------|----------------------------------|-------|-------------------|---------------------|-----------------|------|-------------------|---------------------------------------|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 2065.50 | | | | | | | | | | SST.GY.V.F.GR.SUBANG.W.CEM.W/MICA |
| 2066.70-78 | 1.03 | 0.70 | 0.44 | 0.28 | 20.3 | | | | 2.67 | SILTY SST GY W.CEM.W/MICA |
| 2067.03-10 | 9.1 | 7.0 | 1.8 | 1.3 | 18.1 | | | | 2.70 | SST.GY.COARSE GR.SUBANG.W.CEM |
| 2067.30-39 | 733.0 | 693.0 | 439.0 | 409.0 | 27.9 | | | | 2.64 | SST.GY.V.COARSE GR.SUBANG.W.CEM. |
| 2067.80-87 | 64.0 | 55.0 | 24.0 | 20.0 | 27.3 | | | | 2.65 | A.A |
| 2068.12-20 | 4.1 | 3.0 | 12.0 | 10.0 | 15.8 | | | | 2.70 | SST.GY.COARSE GR.SUBANG.W.CEM |
| 2068.40-47 | 8.2 | 6.3 | 5.9 | 4.4 | 15.0 | | | | 2.70 | A.A |
| 2068.74-80 | 148.0 | 133.0 | 126.0 | 112.0 | 19.9 | | | | 2.68 | A.A |
| 2069.55-60 | 0.26 | 0.16 | 0.09 | 0.05 | 9.5 | | | | 2.73 | SST.GY.FGR.SUBANG.WCEM.W/MIC/SIDERITE |
| 2073.60-67 | 23.0 | 19.0 | 4.0 | 2.9 | 17.3 | | | | 2.80 | SST.GY.VF.GR.SUBANG.WCEM.W/MIC/SIDER. |
| 2073.87-93 | 0.41 | 0.26 | +)) | | 20.2 | | | | 2.66 | SST.GY.VFGR.SUBANG.WCEM.W/CALCITE/MIC |
| 2074.18-25 | 0.43 | 0.28 | 0.43 | 0.28 | 19.6 | | | | 2.66 | A.A |
| 2074.50-58 | 0.10 | 0.06 | 0.62 | 0.41 | 5.0 | | | | 2.69 | CALC.SST.WH.VFGR.SUBANG.WCEM.W/MICA |
| 2074.90-98 | 0.10 | 0.06 | 0.10 | 0.06 | 6.3 | | | | 2.69 | CALC.SST.WH.VFGR.SUBANG.WCEM.W/MICA |
| 2077.00 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
 ++) NO PLUG POSSIBLE
 +++) NO VERTICAL PLUG POSSIBLE
 ++++) NO HORIZONTAL PLUG POSSIBLE


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COMPANY:STATOIL
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| DEPTH | HGR IZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE POROSITY % | SUMM- ATION POROS. % | PORE- SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|----------------|---|------|--|------|------------------------|-------------------------------|---------------------|------|-----------------------------|--------------------------|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 2077.00 | | | | | | | | | | |
| 221 2084.08-16 | 0.15 | 0.09 | 0.25 | 0.16 | 8.3 | | | 2.78 | SST.GREY SUBANG,F. WELL-CEM | |
| 2084.44-52 | ++) | | | | | | | | | |
| 222 2084.76-84 | 4.6 | 3.4 | 2.5 | 1.8 | 13.2 | | | 2.74 | SST.GREY SUBANG,F. WELL-CEM | |
| 2087 00 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
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 ++++)) NO HGR IZONTAL PLUG POSSIBLE

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| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE POROSITY % | SUMMATION PORCS. % | PORE-SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|------------|------------------------------------|------|----------------------------------|----|------------------|--------------------|-----------------|------|-------------------|--|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 3373.50 | | | | | | | | | | |
| 3373.50-62 | 0.026 | 0.01 | | | 6.4 | 1.1 | 0.0 | 25.9 | 2.72 | SST. REDDISH-BROWN, SUB-ANG. V. F. WELL-COM |
| 3373.85-93 | 0.051 | 0.03 | | | 7.1 | | | | 2.79 | A.A. |
| 3374.13-20 | 0.024 | 0.01 | | | 6.8 | | | | 2.75 | A.A. |
| 3374.50-62 | 0.041 | 0.02 | | | 11.0 | 8.6 | 0.0 | 83.1 | 2.71 | A.A. |
| 3374.86-91 | 0.027 | 0.01 | | | 7.8 | | | | 2.74 | A.A. |
| 3375.10-19 | 0.027 | 0.01 | | | 7.2 | | | | 2.71 | SST. GREY, SUB-ANG. V. F. WELL-CEM. |
| 3375.51-63 | 0.30 | 0.19 | | | 17.1 | 11.7 | 0.0 | 50.7 | 2.67 | SST. GREY, SUB-ANG. F. WELL-CEM. |
| 3375.78-86 | 6.0 | 4.5 | | | 18.1 | | | | 2.65 | SST. ORANGE, SUB-A. F. WELL-CEM. (SIL-CEM) |
| 3376.09-19 | 97.0 | 86.0 | | | 17.3 | | | | 2.65 | A.A. +PYR. |
| 3376.60-75 | 0.28 | 0.17 | | | 14.6 | 13.3 | 0.0 | 57.0 | 2.67 | SST. GREY, SUB-A. F. WELL-CEN. +PYR. |
| 3378.30-40 | 0.036 | 0.02 | | | 7.8 | | | | 2.68 | A.A. +CALCITE. |
| 3378.66-74 | 0.039 | 0.02 | | | 8.3 | | | | 2.70 | A.A. |
| 3378.89-01 | 0.190 | 0.12 | | | 15.8 | 8.4 | 0.0 | 37.5 | 2.68 | A.A. |
| 3379.28-35 | 0.053 | 0.03 | | | 10.9 | | | | 2.69 | A.A. |
| 3379.57-65 | 0.33 | 0.21 | | | 14.2 | | | | 2.66 | A.A. |
| 3379.89-00 | 0.147 | 0.09 | | | 12.8 | 11.7 | 0.0 | 36.0 | 2.67 | A.A. |
| 3380.40-49 | 0.34 | 0.21 | | | 10.6 | | | | 2.65 | A.A. |
| 3380.70-77 | 1.4 | 1.0 | | | 9.8 | | | | 2.66 | A.A. |
| 3380.87-00 | 0.059 | 0.03 | | | 9.5 | 5.2 | 0.0 | 31.3 | 2.68 | A.A. |
| 3381.28-36 | 0.041 | 0.02 | | | 9.9 | | | | 2.71 | SST. GREY, SUB-A. V. F. WELL-CEM. |
| 3381.54-61 | 0.075 | 0.04 | | | 11.4 | | | | 2.69 | A.A. |
| 3381.82-94 | 0.062 | 0.03 | | | 12.4 | 8.2 | 0.0 | 75.8 | 2.70 | SST. REDDISH-BROWN, SUB-ANG. V. F. WELL-CEM. |
| 3382.09-19 | 0.064 | 0.04 | | | 12.7 | | | | 2.70 | SST. GREYISH-BROWN, SUB-ANG. V. F. WELL-CEM. |
| 3382.48-54 | 0.045 | 0.02 | | | 7.6 | | | | 2.74 | SST. REDDISH-BROWN, SUB-ANG. V. F. WELL-CEM |
| 3382.74-86 | 0.112 | 0.07 | | | 13.3 | 5.2 | 0.0 | 69.5 | 2.67 | SST. GREY, SUB-ANG. V. F. WELL-CEM. |
| 3383.07-14 | 0.179 | 0.11 | | | 13.9 | | | | 2.67 | SST. GREY, SUB-ANG. F. WELL-CEM. |
| 3383.36-44 | 2.0 | 1.4 | | | 13.3 | | | | 2.66 | A.A. |
| 3383.70-83 | 0.082 | 0.05 | | | 9.1 | 6.2 | 0.0 | 39.0 | 2.69 | A.A. |
| 3384.02-09 | 0.053 | 0.03 | | | 12.1 | | | | 2.71 | SST. REDDISH-BROWN, SUB-ANG. V. F. WELL-CEM. |
| 3384.27-36 | 0.066 | 0.04 | | | 12.0 | | | | 2.71 | SST. GREY, SUB-ANG. V. F. WELL-CEM |
| 3384.59-73 | 0.053 | 0.03 | | | 12.3 | 9.4 | 0.0 | 74.3 | 2.69 | A.A. |
| 3384.95-05 | 0.127 | 0.07 | | | 13.7 | | | | 2.68 | SST. GREY, SUB-ANG. F. WELL-CEM. |
| 3385.35-41 | 0.048 | 0.03 | | | 10.0 | | | | 2.75 | A.A. |
| 3385.62-76 | 0.081 | 0.05 | | | 12.8 | 11.6 | 0.0 | 62.8 | 2.79 | A.A. |
| 3386.02-08 | 0.49 | 0.32 | | | 16.2 | | | | 2.66 | A.A. |
| 3386.29-37 | 0.110 | 0.06 | | | 13.6 | | | | 2.69 | A.A. |
| 3386.60-71 | 0.075 | 0.04 | | | 12.0 | 6.1 | 0.0 | 66.0 | 2.68 | A.A. |
| 3387.00-06 | 7.6 | 5.8 | | | 17.8 | | | | 2.65 | A.A. |
| 3387.26-33 | 0.69 | 0.45 | | | 15.6 | | | | 2.65 | SST. SUB-A. F. WELL-CEM. |
| 3387.57-70 | 0.23 | 0.14 | | | 13.9 | 9.9 | 0.0 | 65.3 | 2.65 | A.A. |
| 3388.00-10 | 0.88 | 0.59 | | | 14.8 | | | | 2.65 | A.A. |
| 3388.40-46 | 1.8 | 1.3 | | | 15.1 | | | | 2.65 | A.A. |
| 3388.78-90 | 18.0 | 15.0 | | | 14.3 | 10.6 | 0.0 | 81.4 | 2.64 | A.A. (TINGED REDDISH IN PLACES) |
| 3389.16-25 | 0.53 | 0.34 | | | 12.8 | | | | 2.67 | A.A. + MICA. |

COMPANY: STATOIL DATE: MARCH 1982

WELL: 34/10-13 CORE: 16

FIELD: STATE: NORWAY

PAGE: 17

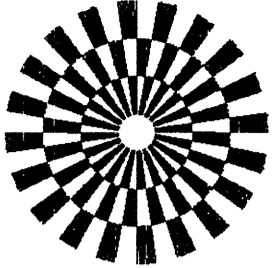
| DEPTH | HORIZONTAL PERMEABILITY MILLIDARCY | | VERTICAL PERMEABILITY MILLIDARCY | | BRINE POROSITY % | SUMMATION PORCS. % | PORE-SATURATION | | GRAIN DENS. GR/CC | FORMATION DESCRIPTION |
|----------------|------------------------------------|------|----------------------------------|----|------------------|--------------------|-----------------|------|-------------------|-----------------------|
| | KA | KL | KA | KL | | | SO | STW. | | |
| 264 3389.53-63 | 52.0 | 44.0 | | | 10.3 | | | | 2.64 | A.A. (SILICA CEM) |
| 3389.85-97 | 8.1 | 6.2 | | | 8.3 | 11.5 | 0.0 | 23.1 | 2.67 | A.A. (SILICA CEM) |
| 3390.06 | | | | | | | | | | |

+) NO MEASUREMENT POSSIBLE
++) NO FLUG POSSIBLE
+++ NO VERTICAL PLUG POSSIBLE
++++ NO HORIZONTAL PLUG POSSIBLE

COMPANY: STATOIL
 WELL: 34/10-13
 LOCATION:

FIELD:
 COUNTY:
 STATE: NORWAY

FILE: 9239
 DATE: MARCH 1982
 ELEV.:



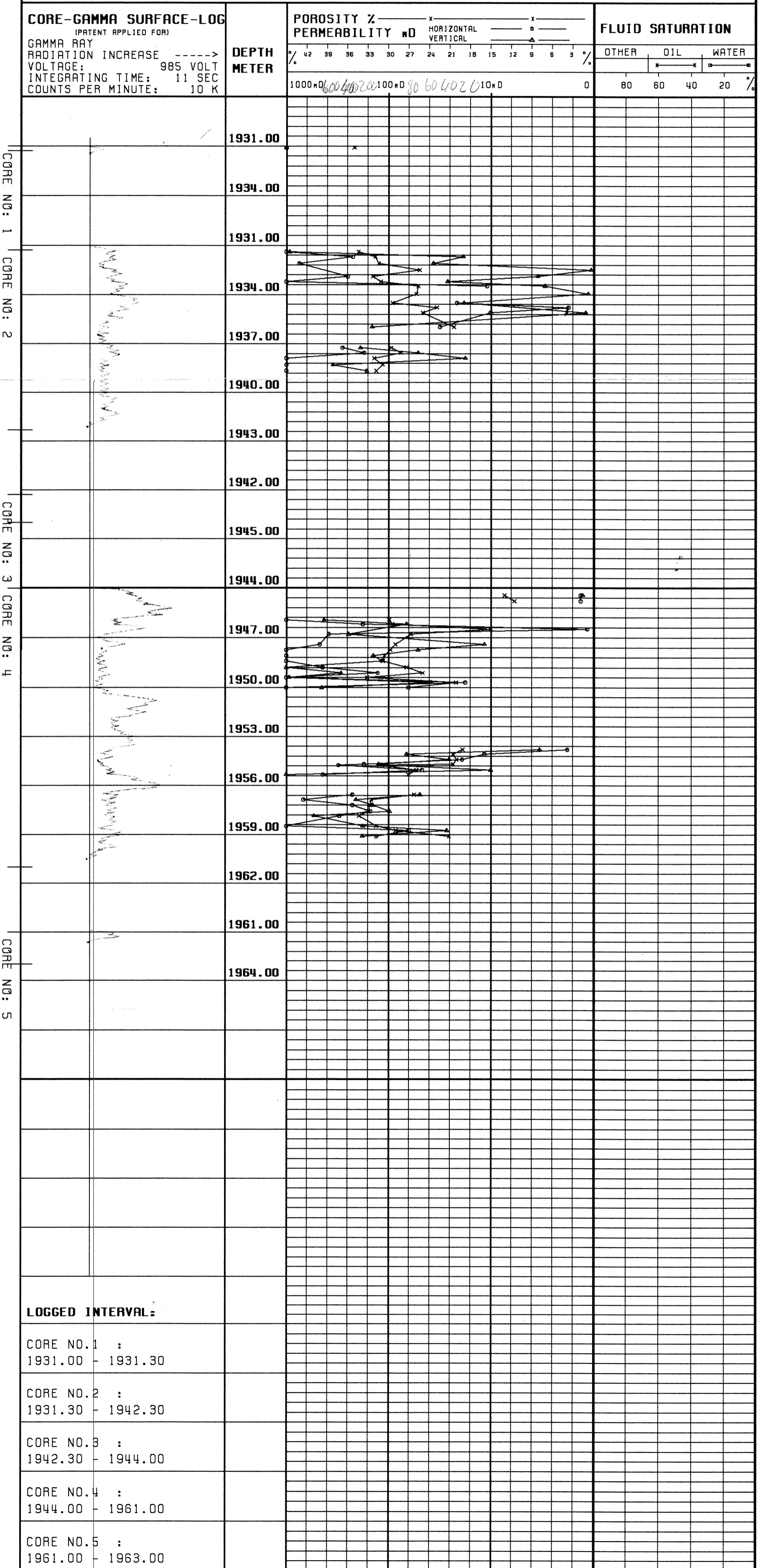
GECO
 GEOPHYSICAL COMPANY
 OF NORWAY A.S.

CORE GRAPH

THESE ANALYSES, OPINIONS OR INTERPRETATIONS ARE BASED ON OBSERVATIONS AND MATERIAL SUPPLIED BY THE CLIENT TO MHO, 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.

VERTICAL SCALE: 1:200

LABORATORY



COMPANY: STATOIL

FIELD:

FILE: 9239

WELL: 34/10-13

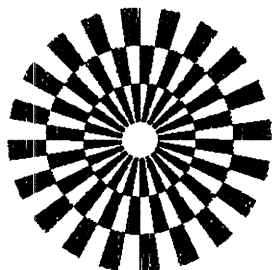
COUNTY:

DATE: MARCH 1982

LOCATION:

STATE: NORWAY

ELEV.:



CORE GRAPH

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GECO
GEOPHYSICAL COMPANY
OF NORWAY A.S

VERTICAL SCALE: 1:200

LABORATORY

CORE NO: 6

CORE NO: 7

CORE NO: 8

CORE-GAMMA SURFACE-LOG

(PATENT APPLIED FOR)

GAMMA RAY
RADIATION INCREASE ----->
VOLTAGE: 985 VOLT
INTEGRATING TIME: 11 SEC
COUNTS PER MINUTE: 10 K

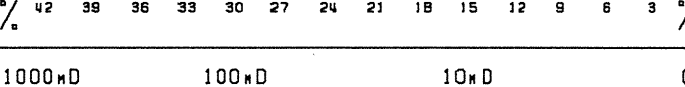
DEPTH
METER

POROSITY %

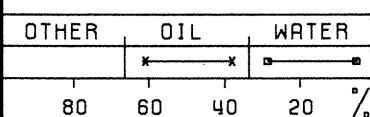
PERMEABILITY mD

HORIZONTAL

VERTICAL



FLUID SATURATION



1963.00

1966.00

1969.00

1972.00

1975.00

1974.00

1977.00

1980.00

1983.00

1986.00

1989.00

1988.00

1991.00

1994.00

1997.00

2000.00

2003.00

2006.00

LOGGED INTERVAL:

CORE NO.6 :
1963.00 - 1974.00

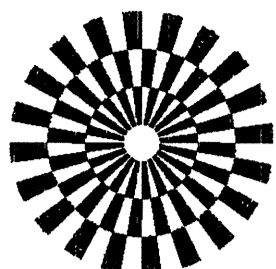
CORE NO.7 :
1974.00 - 1988.00

CORE NO.8 :
1988.00 - 2003.00

COMPANY: STATOIL
 WELL: 34/10-13
 LOCATION:

FIELD:
 COUNTY:
 STATE: NORWAY

FILE: 9239
 DATE: MARCH 1982
 ELEV.:



GECO
 GEOPHYSICAL COMPANY
 OF NORWAY A.S.

CORE GRAPH

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VERTICAL SCALE: 1:200

LABORATORY

CORE NO: 9

CORE NO: 10

CORE NO: 11

CORE NO: 12

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 % ——— x ——— x ———
PERMEABILITY mD HORIZONTAL ——— □ ———
 VERTICAL ——— ▲ ———

42 39 36 33 30 27 24 21 18 15 12 9 6 3 %
 1000 mD 600 400 200 100 mD 80 60 40 20 10 mD 8 6 4 2 0

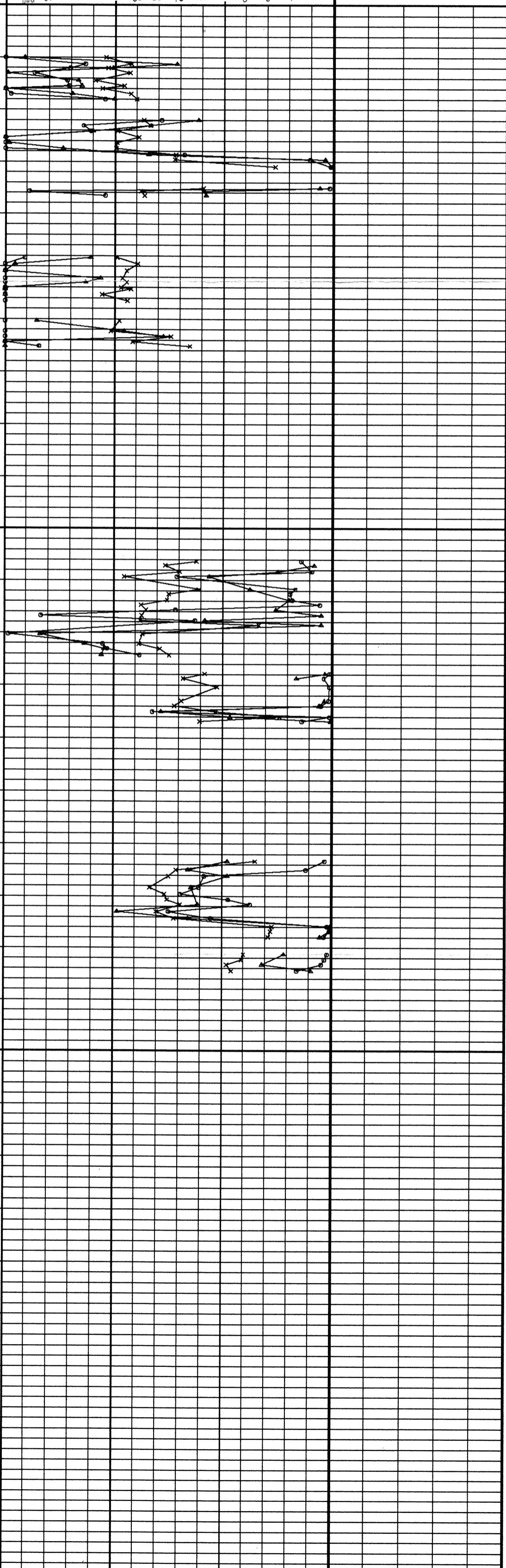
FLUID SATURATION

OTHER OIL WATER
 80 60 40 20 %

2003.00
 2006.00
 2009.00
 2012.00
 2012.00
 2015.00
 2018.00
 2021.00
 2019.00
 2022.00
 2025.00
 2028.00
 2031.00
 2034.00
 2037.00
 2035.00
 2038.00
 2041.00
 2044.00
 2047.00
 2050.00

LOGGED INTERVAL:

CORE NO.9 :
 2003.00 - 2011.50
 CORE NO.10 :
 2011.50 - 2019.50
 CORE NO.11 :
 2018.50 - 2035.00
 CORE NO.12 :
 2035.00 - 2047.20



COMPANY: STATOIL

FIELD:

FILE: 9239

WELL: 34/10-13

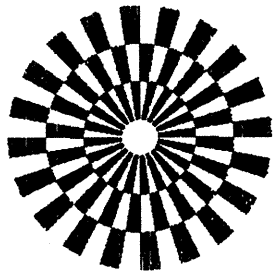
COUNTY:

DATE: MARCH 1982

LOCATION:

STATE: NORWAY

ELEV.:



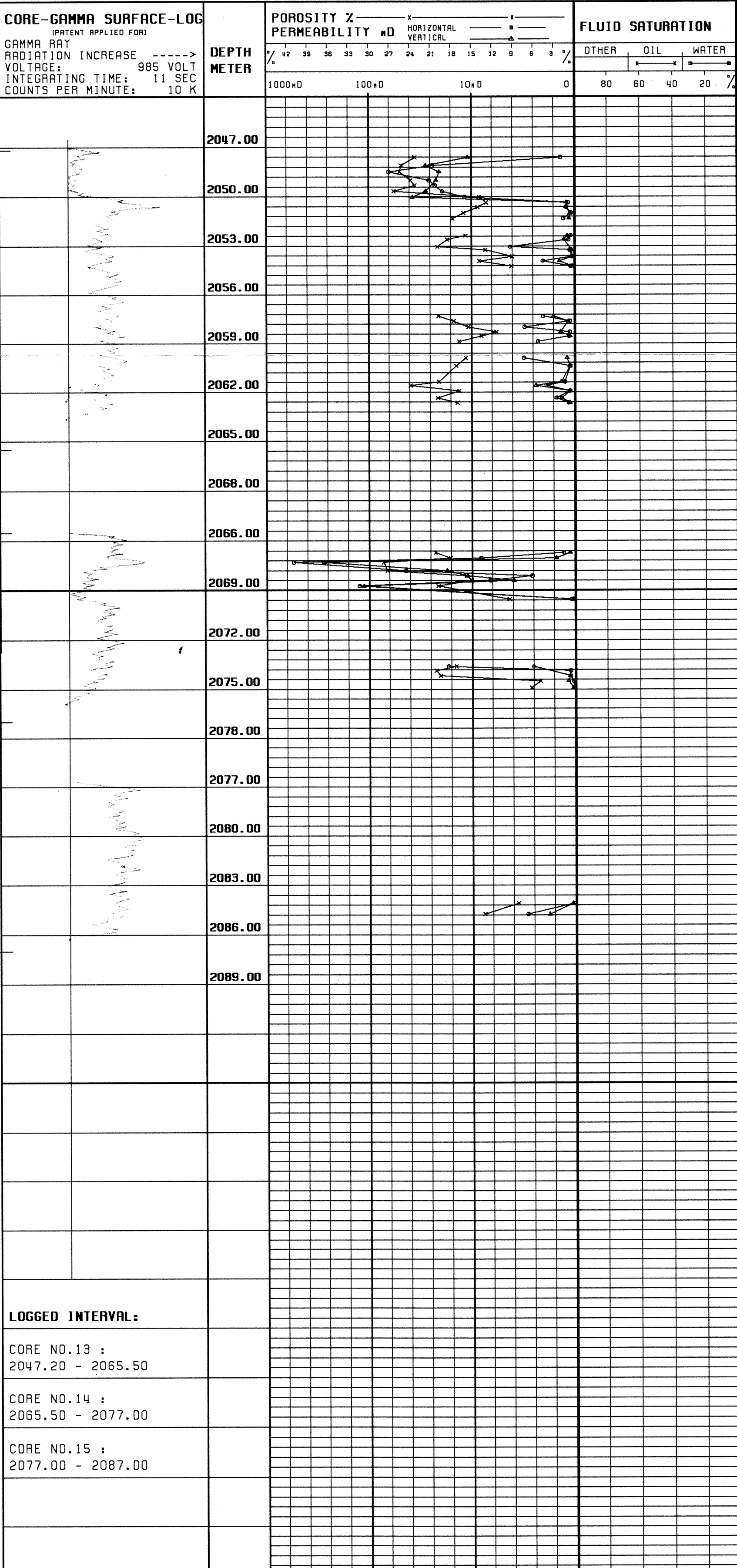
CORE GRAPH

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GECO
GEOPHYSICAL COMPANY
OF NORWAY A.S

VERTICAL SCALE: 1:200

LABORATORY



CORE NO: 13

CORE NO: 14

CORE NO: 15

COMPANY: STATOIL

FIELD:

FILE: 9239

WELL: 34/10-13

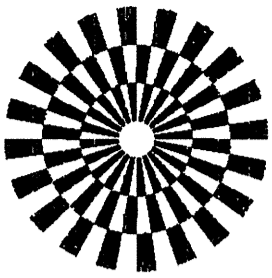
COUNTY:

DATE: MARCH 1982

LOCATION:

STATE: NORWAY

ELEV.:



CORE GRAPH

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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 μ D

1000 μ D 100 μ D 10 μ D 0

FLUID SATURATION

OTHER OIL WATER
80 60 40 20 %

CORE NO: 16

Handwritten notes:
3374.00 - 3377.00
3380.00 - 3383.00
3386.00 - 3389.00
3392.00

3374.00

3377.00

3380.00

3383.00

3386.00

3389.00

3392.00

LOGGED INTERVAL:

CORE NO. 16 :
3373.50 - 3390.06

