# HYDRO WELL TEST RESULT

**WELL: 25/11-15**

| | | | |
|---|---|---|---|
| TEST NO. | 1 | | |
| Underreamed interval (m MD RKB) | 1736.0-1774.0 | | |
| CHOKE SIZE (mm) | 25.4 | | |
| OIL/FLOW RATE /$Sm^3/D$) | 525 | | |
| GAS FLOW RATE ($Sm^3/D$) | 7500 | | |
| GOR ($Sm^3/Sm^3$) | 14 | | |
| OIL/GRAVITY (g/cc) | 0.940 @ 18°C | | |
| GAS GRAVITY (air=1) | 0.640 | | |
| FWHP (bar) | 14.1 | | |
| SIWHP(bar) NB! Downhole shut in | 10.1 | | |
| WHT (deg C) | 48.0 | | |
| BHT (deg C) | 76.6 | | |
| BHFP (bar) | 163.3 | | |
| BHSIP (bar) | 170.82 | | |
| BS&W (%) | 0 | | |
| CO2 (%) (Max) | 0.3 | | |
| H2S (ppm) (Max) | 0.2 | | |
| K (mD) | 6852 | | |
| S | 16.0 | | |
| Pi (bar) @ 1755m MD RKB | 175.94 | | |
| DEPTH OF BH MEASUREMENTS | 1695.08m MD RKB | | |

Tab. B-10: Mud material consumption

| Norsk Hydro | Mud consumption | Date |
|---|---|---|
| (((<br>(ooo) | System : BORE | 31/5-1992 |
| | Well: 25/11-15 | |
| | Mud company: Anchor Drlng Fluid | 13 |

| | | Actual used |
|---|---|---|
| **Drilling of 36 " hole** | | |
| BARITE | Kg | 76000 |
| BENTONITE | Kg | 23000 |
| CMC EHV | Kg | 1260 |
| LIGSEAL | Kg | 210 |
| LIME | Kg | 150 |
| SODA ASH | Kg | 355 |
| SODIUM BICARB | Kg | 511 |
| XC POLYMER | Kg | 300 |
| **Drilling of 12 1/4" hole** | | |
| BARITE | Kg | 137000 |
| BENTONITE | Kg | 21000 |
| CMC EHV | Kg | 2137 |
| LIME | Kg | 465 |
| PACSEAL REG | Kg | 1554 |
| SODA ASH | Kg | 857 |
| XC POLYMER | Kg | 475 |
| **Drilling of 8 1/2" hole** | | |
| BARITE | Kg | 95000 |
| BENTONITE | Kg | 9000 |
| CITRIC ACID | Kg | 225 |
| CLAYCAP | Kg | 3948 |
| FL-7 | Kg | 15171 |
| KCL POWDER | Kg | 24000 |
| KOH | Kg | 400 |
| LIQUID CASING | Kg | 7526 |
| NAOH | Kg | 25 |
| PACSEAL LV | Kg | 7126 |
| SODA ASH | Kg | 500 |
| SODIUM BICARB | Kg | 1202 |
| XC POLYMER | Kg | 3097 |
| DEFOAMER | l | 425 |
| KCL BRINE | l | 433000 |
| **Test no. 1** | | |
| BARITE | Kg | 33000 |
| BENTONITE | Kg | 2000 |
| BRINE WATE A5 | Kg | 30500 |
| CITRIC ACID | Kg | 1550 |
| FL-7 | Kg | 3794 |
| MGO | Kg | 285 |
| NAOH | Kg | 75 |
| PACSEAL LV | Kg | 770 |
| SODA ASH | Kg | 25 |
| SODIUM BICARB | Kg | 2318 |
| XANVIS | Kg | 1250 |
| XC POLYMER | Kg | 610 |
| DEFOAMER | l | 25 |

Daily mud properties

System : BORE

Well: 25/11-15

Mud Contractor: Anchor Dring Fluid

Data: "Mid depth" from table 3, otherwise from table 14.

| Date: | Mid. depth: m,MD: | Mud Dens.: (SG) | PV: cp: | YP: Pa: | GEL: 0: Pa: | GEL: 10: Pa: | pH | HP/HT: psi: (cc): | Cl- inn/out: (cc) | Cl- mg/l | Alkalinity Pf | Alkalinity Pm | Alkalinity Mf | Ca++ inn/out: mg/l | Oil: %: | Sol: %: | H2O: % | V.G. meter at 115 gr. F: 600: rpm: | 300: rpm: | 200: rpm: | 100: rpm: | 6: rpm: | 3: rpm: | Mud Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 911106 | 151 | 1.36 | 14 | 10 | 3 | 5 | 8.9 | 4.8 | 18.0 | 55000/55000 | 0.20 | | 0.90 | 850/850 | | 10 | | 47 | 33 | 27 | 18 | 6 | 5 | KCL/PHPA |
| 911107 | 151 | 1.36 | 14 | 10 | 3 | 5 | 8.9 | 4.8 | 18.0 | 55000/55000 | 0.15 | | 0.90 | 850/850 | | 10 | | 47 | 33 | 27 | 18 | 6 | 5 | KCL/PHPA |
| 911108 | 151 | 1.36 | 14 | 10 | 3 | 5 | 8.9 | 4.8 | 18.0 | 55000/55000 | 0.15 | | 0.90 | 850/850 | | 10 | | 47 | 33 | 27 | 18 | 6 | 5 | KCL/PHPA |
| 911109 | 151 | 1.20 | 19 | 8 | 2 | 4 | 8.0 | | | | | | | | | | | 54 | 35 | 25 | 15 | 4 | 3 | KCL/PHPA |
| 911110 | 238 | 1.20 | 19 | 8 | 2 | 4 | 8.0 | | | | | | | | | | | 54 | 35 | 25 | 15 | 4 | 3 | KCL/PHPA |
| 911111 | 239 | 1.20 | 19 | 8 | 2 | 4 | 8.0 | | | | | | | | | | | 54 | 35 | 25 | 15 | 4 | 3 | KCL/PHPA |
| 911112 | 450 | 1.20 | 18 | 4 | | | 8.0 | | | | | | | | | | | 44 | 26 | 19 | 10 | 2 | 1 | KCL/PHPA |
| 911113 | 1312 | 1.20 | 18 | 9 | 2 | 4 | 7.9 | | | | | | | | | | | 54 | 36 | 27 | 17 | 4 | 3 | KCL/PHPA |
| 911114 | 1312 | 1.20 | 18 | 8 | 2 | 4 | 8.1 | | | | | | | | | | | 52 | 34 | 25 | 15 | 4 | 3 | KCL/PHPA |
| 911115 | 1312 | 1.22 | 19 | 15 | 10 | 15 | 8.4 | | | | | | | | | | | 68 | 49 | 41 | 32 | 19 | 18 | KCL/PHPA |
| 911116 | 1312 | 1.20 | 19 | 11 | 6 | 8 | 8.2 | | | | | | | | | | | 59 | 40 | 32 | 22 | 9 | 8 | KCL/PHPA |
| 911117 | 1530 | 1.13 | 20 | 14 | 3 | 3 | 8.3 | 3.1 | | 75000/75000 | 0.10 | | 0.70 | 280/280 | | 2 | | 68 | 48 | 39 | 27 | 6 | 4 | KCL/PHPA |
| 911118 | 1697 | 1.15 | 17 | 8 | 2 | 3 | 8.0 | 2.6 | | 85000/85000 | 0.10 | | 0.60 | 400/400 | | 2 | | 50 | 33 | 26 | 17 | 4 | 3 | KCL/PHPA |
| 911119 | 1726 | 1.16 | 16 | 9 | 2 | 3 | 8.0 | 2.5 | | 85000/85000 | | | 0.60 | 520/520 | | 3 | | 49 | 33 | 26 | 17 | 4 | 3 | KCL/PHPA |
| 911120 | 1781 | 1.15 | 16 | 9 | 2 | 3 | 7.8 | 2.6 | 22.7 | 95000/95000 | | | 0.60 | 600/600 | | 3 | | 49 | 33 | 26 | 13 | 4 | 3 | KCL/PHPA |
| 911121 | 1906 | 1.18 | 18 | 11 | 3 | 5 | 7.9 | 2.6 | 45.5 | 95000/95000 | | | 0.60 | 400/400 | 1 | 5 | 94 | 58 | 40 | 32 | 22 | 5 | 4 | KCL/PHPA |
| 911122 | 2035 | 1.16 | 17 | 10 | 2 | 4 | 7.5 | 2.4 | | 95000/95000 | | | 0.70 | 360/360 | | 5 | | 53 | 36 | 29 | 20 | 5 | 4 | KCL/PHPA |
| 911123 | 2035 | 1.17 | 14 | 8 | 2 | 4 | 7.8 | 2.6 | | 95000/95000 | | | 0.70 | 540/540 | | 5 | | 43 | 29 | 24 | 17 | 5 | 4 | KCL/PHPA |
| 911124 | 2035 | 1.18 | 16 | 10 | 3 | 4 | 8.1 | 2.8 | 23.0 | 90000/90000 | | | 0.70 | 520/520 | | 5 | | 52 | 36 | 29 | 21 | 6 | 5 | KCL/PHPA |
| 911125 | 2035 | 1.18 | 17 | 10 | 2 | 4 | 8.0 | 2.8 | 23.0 | 90000/90000 | | | 0.70 | 520/520 | | 5 | | 54 | 37 | 30 | 21 | 6 | 5 | KCL/PHPA |
| 911126 | 2035 | 1.18 | 16 | 9 | 2 | 5 | 8.1 | 2.9 | 23.2 | 90000/90000 | | | 0.70 | 560/560 | | | | 50 | 34 | 28 | 20 | 5 | 4 | KCL |
| 911127 | 1768 | 1.19 | 15 | 9 | 3 | 5 | 9.0 | 3.2 | 25.2 | 89000/89000 | 0.10 | 0.90 | 0.80 | 560/560 | | 5 | | 47 | 32 | 27 | 20 | 5 | 4 | KCL |
| 911128 | 1769 | 1.20 | 14 | 11 | 3 | 6 | 8.3 | 3.0 | 26.6 | 89000/89000 | 0.10 | 0.20 | 1.50 | 800/800 | | 5 | | 50 | 35 | 29 | 21 | 6 | 5 | KCL |
| 911129 | 1769 | 1.20 | 14 | 12 | 3 | 6 | 8.2 | 3.1 | 26.8 | 89000/89000 | 0.10 | 0.10 | 1.40 | 820/820 | | 5 | | 51 | 37 | 30 | 22 | 6 | 5 | KCL |
| 911130 | 1769 | 1.35 | 20 | 14 | 5 | 9 | 8.3 | 3.9 | 26.9 | 88000/88000 | 0.10 | 0.20 | 1.50 | 600/600 | | 7 | | 68 | 48 | 39 | 30 | 11 | 9 | KCL |
| 911201 | 1769 | 1.29 | 15 | 9 | 3 | 5 | 8.3 | 5.0 | 28.2 | 87000/87000 | 0.10 | 0.10 | 1.30 | 580/580 | | 6 | | 48 | 33 | 24 | 18 | 6 | 4 | KCL |
| 911202 | 1769 | 1.29 | 15 | 10 | 3 | 6 | 8.2 | 5.1 | 28.1 | 87000/87000 | | | 1.40 | 540/540 | | 6 | | 49 | 34 | 24 | 19 | 6 | 4 | KCL |
| 911203 | 1769 | 1.29 | 15 | 9 | 3 | 5 | 8.4 | 4.9 | 28.3 | 80000/80000 | 0.10 | 0.10 | 1.50 | 540/540 | | 6 | | 48 | 33 | 25 | 19 | 6 | 5 | KCL |
| 911204 | 1769 | 1.21 | 13 | 7 | 3 | 4 | 11.5 | 5.0 | 29.5 | 57000/57000 | 0.20 | 2.40 | 1.80 | 400/400 | | 5 | | 40 | 27 | 20 | 14 | 5 | 4 | KCL |
| 911205 | 1776 | 1.26 | 17 | 16 | 5 | 8 | 9.1 | 2.0 | 13.5 | 180000/180000 | 0.10 | 0.10 | 0.30 | 680/680 | | 7 | | 66 | 49 | 39 | 29 | 12 | 9 | KCL |
| 911206 | 1776 | 1.28 | 19 | 15 | 5 | 6 | 8.7 | 2.0 | 10.8 | 180000/180000 | 0.10 | | 0.40 | 660/660 | | 5 | | 67 | 48 | 40 | 30 | 10 | 8 | NACL |
| 911207 | 1776 | 1.27 | 19 | 14 | 5 | 6 | 8.7 | 2.0 | 11.4 | 190000/190000 | 0.10 | | 0.40 | 660/660 | | 5 | | 66 | 47 | 40 | 30 | 9 | 7 | NACL COMPL |
| 911208 | 1776 | 1.27 | 18 | 13 | 4 | 6 | 9.0 | 1.8 | 11.0 | 188000/188000 | 0.10 | 0.40 | 0.50 | 680/680 | | 5 | | 62 | 44 | 35 | 27 | 8 | 6 | NACL COMPL |
| 911209 | 1776 | 1.27 | 18 | 14 | 4 | 6 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 800/800 | | 5 | | 62 | 44 | 35 | 27 | 8 | 6 | NACL COMPL |
| 911210 | 1776 | 1.26 | 14 | 13 | 4 | 5 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 54 | 40 | 33 | 25 | 9 | 7 | NACL COMPL |
| 911211 | 1776 | 1.26 | 14 | 13 | 4 | 6 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 54 | 40 | 33 | 25 | 9 | 7 | NACL COMPL |
| 911212 | 1776 | 1.26 | 14 | 13 | 4 | 6 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 54 | 40 | 33 | 25 | 9 | 7 | NACL COMPL |
| 911213 | 1776 | 1.26 | 14 | 13 | 4 | 6 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 54 | 40 | 33 | 25 | 9 | 7 | NACL COMPL |
| 911214 | 1776 | 1.26 | 14 | 13 | 4 | 6 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 54 | 40 | 33 | 25 | 9 | 7 | NACL COMPL |
| 911215 | 1776 | 1.26 | 14 | 13 | 4 | 6 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 54 | 40 | 33 | 25 | 9 | 7 | NACL COMPL |
| 911216 | 1776 | 1.26 | 14 | 13 | 4 | 6 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 54 | 40 | 33 | 25 | 9 | 7 | NACL COMPL |
| 911217 | 1776 | 1.26 | 14 | 13 | 4 | 6 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 54 | 40 | 33 | 25 | 9 | 7 | NACL COMPL |
| 911218 | 1776 | 1.25 | 14 | 13 | 4 | 6 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 54 | 40 | 33 | 25 | 9 | 7 | NACL COMPL |
| 911219 | 1776 | 1.25 | 14 | 13 | 4 | 6 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 54 | 40 | 33 | 25 | 9 | 7 | NACL POLYME |
| 911220 | 1776 | 1.25 | 12 | 10 | 4 | 5 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 44 | 32 | 27 | 20 | 8 | 6 | NACL POLYME |
| 911221 | 180 | 1.25 | 12 | 10 | 4 | 5 | 8.7 | 2.0 | 11.2 | 188000/188000 | 0.10 | 0.30 | 0.50 | 1000/1000 | | 5 | | 44 | 32 | 27 | 20 | 8 | 6 | NACL POLYME |