

2/7-20 WELL

ELECTRIC LOGGING SUMMARY

| Log | Run | Month | Interval MD (ft) below RKB | Bit Size | Mudtype |
|---------------------|-----|-------|-------------------------------|-------------|-----------------------|
| DIL/MSFL/SLS/GR | 1 | 11/87 | 3,503 - 8,028 | 17 1/2" | Soltex - Actaflow - S |
| DLL/MSFL/GR | 2 | 02/88 | 8,002 - 12,500 | 12 1/4" | Soltex - Actaflow - S |
| DIL/SLS/GR | 3 | 03/88 | 12,502 - 14,056 | 8 1/2" | Oil Base |
| DIL/SLS/GR | 4 | 04/88 | 14,042 - 14,799 | 5 7/8" | Oil Base |
| LDL/CNL/NGL | 1 | 11/87 | 4,900 - 5,922 | 17 1/2" | Soltex - Actaflow - S |
| LDL/CNL/NGL | 2 | 02/88 | 8,002 - 12,526 | 12 1/4" | Soltex - Actaflow - S |
| CNL/SLS/GR | 2 | 02/88 | 8,002 - 12,526 | 12 1/4" | Soltex - Actaflow - S |
| LDL/CNL/NGL | 3 | 03/88 | 12,502 - 14,060 | 8 1/2" | Oil Base |
| LDL/CNL/GR | 4 | 04/88 | 14,042 - 14,802 | 5 7/8" | Oil Base |
| CST/GR (48 samples) | 3 | 03/88 | 12,502 - 14,056 | 8 1/2" | Oil Base |
| CST/GR (19 samples) | 4 | 04/88 | 14,042 - 14,799 | 5 7/8" | Oil Base |
| FMS/GR | 2 | 02/88 | 8,002 - 12,500 | 12 1/4" | Soltex - Actaflow - S |
| OBDT/GR | 3 | 03/88 | 12,502 - 14,060 | 8 1/2" | Oil Base |
| OBDT/GR | 4 | 04/88 | 14,042 - 14,802 | 5 7/8" | Oil Base |
| RFT/GR 10 points | 3 | 03/88 | 12,502 - 14,060 | 8 1/2" | Oil Base |
| RFT/GR 13 points | 4 | 04/88 | 14,042 - 14,800 | 5 7/8" | Oil Base |

NL Baroid Norway a/s

MUD PROPERTY RECAP - WATER BASED

OPERATOR: Phillips Petroleum Company Norway a/s

WELL: 2/7-20

Rig: Dyvi Stena

| Date | Depth m | Mud Wt. ppg | Mud Vis. Sec | API Filt ml | HPHT Filt ml | pH | PV | YP | Rheology | | Cl g/l | Ca ppm | Pf | Mf | Pm | Oil % | H2O % | Sol % | CEC ppb | Sand % | ASG ppb | LGS ppb |
|----------|------------|-------------------|--------------------|-------------------|--------------------|-----|----|----|-----------|-----------|-----------|-----------|------|------|------|----------|----------|----------|------------|-----------|------------|------------|
| | | | | | | | | | Gels | | | | | | | | | | | | | |
| | | | | | | | | | 10 Sec | 10 Min | | | | | | | | | | | | |
| October | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 15 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 16 | 604 | 8.5 | 100 | | | | | | | | | | | | | | | | | | | |
| 17 | 602 | 8.6 | 100 | | | | | | | | | | | | | | | | | | | |
| 18 | 602 | 8.6 | 100 | | | | | | | | | | | | | | | | | | | |
| 19 | 602 | 8.7 | 100 | | | | | | | | | | | | | | | | | | | |
| 20 | 565 | 8.7 | 100 | | | | | | | | | | | | | | | | | | | |
| 21 | 1016 | 8.7 | 82 | | | | | | | | | | | | | | | | | | | |
| 22 | 1965 | 8.7 | 150 | | | | | | | | | | | | | | | | | | | |
| 23 | 1965 | 8.7 | 70 | | | | | | | | | | | | | | | | | | | |
| 24 | 767 | 8.7 | 70 | | | | | | | | | | | | | | | | | | | |
| 25 | 1640 | 8.7 | 110 | | | | | | | | | | | | | | | | | | | |
| 26 | 2484 | 8.7 | 150 | | | | | | | | | | | | | | | | | | | |
| 27 | 3525 | 8.7 | 100 | | | | | | | | | | | | | | | | | | | |
| 28 | 1258 | 8.7 | 100 | | | | | | | | | | | | | | | | | | | |
| 29 | 3157 | 8.7 | 100 | | | | | | | | | | | | | | | | | | | |
| 30 | 3525 | 9.2 | 100 | | | | | | | | | | | | | | | | | | | |
| 31 | 3525 | 10.3 | 52 | | | 9.4 | 19 | 12 | | | | | | | | | | | | | | |
| November | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 3525 | 11 | 54 | 3.4 | | 9 | 13 | 13 | 4 | 8 | 2500 | 260 | 0.1 | 0.9 | 0 | | | | | 5 | Tr. | |
| 2 | 3555 | 11 | 48 | 3.8 | | 9.1 | 14 | 15 | 4 | 9 | 2800 | 250 | 0.1 | 0.8 | 0.1 | | | | | 5 | Tr. | |
| 3 | 4378 | 11.1 | 51 | 4.4 | | 8.6 | 18 | 19 | 5 | 22 | 9000 | 600 | 0.3 | 1.25 | 0.1 | | | | | 12 | Tr. | |
| 4 | 4659 | 11.4 | 52 | 4.8 | | 9.4 | 16 | 16 | 4 | 24 | 12000 | 600 | 0.3 | 1.5 | 0.3 | | | | | 16 | Tr. | |
| 5 | 4831 | 11.9 | 52 | 5.5 | | 9.3 | 15 | 18 | 6 | 32 | 13000 | 700 | 0.5 | 1.6 | 0.5 | 81 | 19 | | | 18 | Tr. | 3.26 102 |
| 6 | 4916 | 12.1 | 57 | 6.2 | | 9.1 | 16 | 17 | 9 | 35 | 13000 | 880 | 0.4 | 1 | 0.4 | 79 | 21 | | | 14 | Tr. | 3.16 124 |
| 7 | 5213 | 12.5 | 50 | 7 | | 9.3 | 13 | 14 | 7 | 29 | 14000 | 600 | 0.35 | 1.3 | 0.65 | 78 | 22 | | | 17 | Tr. | 3.28 115 |

9. Mud summary and solids control.

NL Baroid Norway a/s

MUD PROPERTY RECAP - WATER BASED

OPERATOR: Phillips Petroleum Company Norway a/s

WELL: 2/7-20

Rig: Dyvi Stena

| Date | Depth m | Mud Wt. ppg | Mud Vis. Sec | API Filt ml | HPHT Filt ml | pH | PV | YP | Rheology | | Cl g/l | Ca ppm | Pf | Mf | Pm | Oil % | H2O % | Sol % | CEC ppb | Sand % | ASG ppb | LGS ppb |
|----------|------------|-------------------|--------------------|-------------------|--------------------|-----|----|----|-----------|-----------|-----------|-----------|------|------|------|----------|----------|----------|------------|-----------|------------|------------|
| | | | | | | | | | Gels | | | | | | | | | | | | | |
| | | | | | | | | | 10 Sec | 10 Min | | | | | | | | | | | | |
| October | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 15 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 16 | 604 | 8.5 | 100 | | | | | | | | | | | | | | | | | | | |
| 17 | 602 | 8.6 | 100 | | | | | | | | | | | | | | | | | | | |
| 18 | 602 | 8.6 | 100 | | | | | | | | | | | | | | | | | | | |
| 19 | 602 | 8.7 | 100 | | | | | | | | | | | | | | | | | | | |
| 20 | 565 | 8.7 | 100 | | | | | | | | | | | | | | | | | | | |
| 21 | 1016 | 8.7 | 82 | | | | | | | | | | | | | | | | | | | |
| 22 | 1965 | 8.7 | 150 | | | | | | | | | | | | | | | | | | | |
| 23 | 1965 | 8.7 | 70 | | | | | | | | | | | | | | | | | | | |
| 24 | 767 | 8.7 | 70 | | | | | | | | | | | | | | | | | | | |
| 25 | 1640 | 8.7 | 110 | | | | | | | | | | | | | | | | | | | |
| 26 | 2484 | 8.7 | 150 | | | | | | | | | | | | | | | | | | | |
| 27 | 3525 | 8.7 | 100 | | | | | | | | | | | | | | | | | | | |
| 28 | 1258 | 8.7 | 100 | | | | | | | | | | | | | | | | | | | |
| 29 | 3157 | 8.7 | 100 | | | | | | | | | | | | | | | | | | | |
| 30 | 3525 | 9.2 | 100 | | | | | | | | | | | | | | | | | | | |
| 31 | 3525 | 10.3 | 52 | | | 9.4 | 19 | 12 | | | | | | | | | | | | | | |
| November | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 3525 | 11 | 54 | 3.4 | | 9 | 13 | 13 | 4 | 8 | 2500 | 260 | 0.1 | 0.9 | 0 | | | | | 5 | Tr. | |
| 2 | 3555 | 11 | 48 | 3.8 | | 9.1 | 14 | 15 | 4 | 9 | 2800 | 250 | 0.1 | 0.8 | 0.1 | | | | | 5 | Tr. | |
| 3 | 4378 | 11.1 | 51 | 4.4 | | 8.6 | 18 | 19 | 5 | 22 | 9000 | 600 | 0.3 | 1.25 | 0.1 | | | | | 12 | Tr. | |
| 4 | 4659 | 11.4 | 52 | 4.8 | | 9.4 | 16 | 16 | 4 | 24 | 12000 | 600 | 0.3 | 1.5 | 0.3 | | | | | 16 | Tr. | |
| 5 | 4831 | 11.9 | 52 | 5.5 | | 9.3 | 15 | 18 | 6 | 32 | 13000 | 700 | 0.5 | 1.6 | 0.5 | 81 | 19 | | | 18 | Tr. | 3.26 102 |
| 6 | 4916 | 12.1 | 57 | 6.2 | | 9.1 | 16 | 17 | 9 | 35 | 13000 | 880 | 0.4 | 1 | 0.4 | 79 | 21 | | | 14 | Tr. | 3.16 124 |
| 7 | 5213 | 12.5 | 50 | 7 | | 9.3 | 13 | 14 | 7 | 29 | 14000 | 600 | 0.35 | 1.3 | 0.65 | 78 | 22 | | | 17 | Tr. | 3.28 115 |

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NL Baroid Norway a/s

MUD PROPERTY RECAP - WATER BASED

OPERATOR: Phillips Petroleum Company Norway a/s

WELL: 2/7-20

Rig: Dyvi Stena

| Date 1987 | Depth m | Mud Wt. ppg | Mud Vis. Sec | API Filt ml | HPHT Filt ml | pH | PV | YP | Rheology | | Cl g/l | Ca ppm | Pf | Mf | Pm | Oil % | H2O % | Sol % | CEC ppb | Sand % | ASG ppb | LGS ppb | | | | | | | | | | | | | | | | | |
|--------------|------------|-------------------|--------------------|-------------------|--------------------|----|----|----|-----------|-----------|-----------|-----------|------|------|----|----------|----------|----------|------------|-----------|------------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|
| | | | | | | | | | Gels | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 10 Sec | 10 Min | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 6310 | 13.8 | 58 | 6.5 | 9.4 | 16 | 20 | 8 | 45 | 17500 | 600 | 0.3 | 1.6 | 1.2 | | 76 | 24 | 22.5 | Tr. | 3.56 | 87 | | | | | | | | | | | | | | | | | | |
| 9 | 6941 | 13.8 | 52 | 6.1 | 9.5 | 18 | 16 | 6 | 38 | 18500 | 400 | 0.4 | 1.5 | 1.1 | | 76 | 24 | 23 | Tr. | 3.54 | 90 | | | | | | | | | | | | | | | | | | |
| 10 | 7221 | 13.8 | 60 | 6.5 | 9.4 | 19 | 22 | 18 | 55 | 19500 | 400 | 0.3 | 1.4 | 1.2 | | 76 | 24 | 23 | 0.5 | 3.54 | 90 | | | | | | | | | | | | | | | | | | |
| 11 | 7888 | 13.8 | 55 | 6.8 | 9.6 | 17 | 23 | 12 | 45 | 20000 | 200 | 0.4 | 1.5 | 1 | | 74 | 26 | 24 | Tr. | 3.54 | 98 | | | | | | | | | | | | | | | | | | |
| 12 | 8033 | 13.8 | 59 | 6.5 | 9.6 | 18 | 21 | 15 | 48 | 19500 | 240 | 0.3 | 1.3 | 1.2 | | 73 | 27 | 25 | Tr. | 351 | 101 | | | | | | | | | | | | | | | | | | |
| 13 | 8030 | 13.8 | 53 | 6 | 9.7 | 18 | 13 | 5 | 24 | 19500 | 300 | 0.5 | 1.8 | 1.3 | | 74 | 26 | 24 | Tr. | 3.54 | 94 | | | | | | | | | | | | | | | | | | |
| 14 | 8030 | 13.8 | 52 | 6 | 9.3 | 20 | 15 | 6 | 26 | 19500 | 300 | 0.4 | 1.3 | 1 | | 74 | 26 | 24 | Tr. | 3.54 | 94 | | | | | | | | | | | | | | | | | | |
| 15 | 8030 | 13.9 | 65 | 8.5 | 13 | 14 | 24 | 18 | 65 | 19000 | 360 | 1.5 | 2.3 | 6.8 | | 73 | 27 | 24 | Tr. | 3.5 | 103 | | | | | | | | | | | | | | | | | | |
| 16 | 8030 | 13.9 | 54 | 7.5 | 13.1 | 15 | 20 | 12 | 58 | 19500 | 260 | 1.8 | 2.5 | 7 | | 74 | 26 | 24 | Tr. | 3.6 | 85 | | | | | | | | | | | | | | | | | | |
| 17 | 7833 | 13.8 | 50 | 7.6 | 13.1 | 15 | 17 | 8 | 45 | 19500 | 300 | 1.7 | 2.5 | 7 | | 74 | 26 | 24 | Tr. | 3.57 | 90 | | | | | | | | | | | | | | | | | | |
| 18 | 7833 | 13.9 | 51 | 7 | 12.3 | 15 | 11 | 5 | 25 | 20000 | 220 | 0.5 | 1.4 | 2.8 | | 74 | 26 | 24 | Tr. | 3.6 | 85 | | | | | | | | | | | | | | | | | | |
| 19 | 7833 | 13.9 | 51 | 6.8 | 12.6 | 15 | 12 | 8 | 34 | 20000 | 240 | 0.9 | 1.7 | 3.3 | | 74 | 26 | 24 | Tr. | 3.6 | 85 | | | | | | | | | | | | | | | | | | |
| 20 | 7833 | 13.9 | 50 | 6.9 | 12.5 | 15 | 10 | 7 | 25 | 20000 | 240 | 0.6 | 1.1 | 3.1 | | 74 | 26 | 24 | Tr. | 3.6 | 85 | | | | | | | | | | | | | | | | | | |
| 21 | 7833 | 13.8 | 45 | 6.5 | 12.2 | 15 | 10 | 6 | 28 | 20000 | 360 | 0.4 | 1 | 2.8 | | 74 | 26 | 22.5 | Tr. | 3.57 | 87 | | | | | | | | | | | | | | | | | | |
| 22 | 7833 | 13.8 | 47 | 6.6 | 12.4 | 15 | 11 | 7 | 32 | 20000 | 360 | 0.4 | 1 | 3 | | 74 | 26 | 22 | Tr. | 3.57 | 87 | | | | | | | | | | | | | | | | | | |
| 23 | 7833 | 13.8 | 45 | 6.8 | 12.3 | 14 | 11 | 7 | 28 | 20000 | 400 | 0.3 | 0.5 | 2.8 | | 74 | 26 | 22 | Tr. | 3.57 | 87 | | | | | | | | | | | | | | | | | | |
| 24 | 7833 | 13.8 | 46 | 7.4 | 12 | 14 | 11 | 5 | 34 | 24500 | 400 | 0.3 | 1.15 | 3.2 | | 74 | 26 | 22 | Tr. | 3.57 | 88 | | | | | | | | | | | | | | | | | | |
| 25 | 7930 | 13.8 | 48 | 8.6 | 12.7 | 13 | 12 | 4 | 34 | 20000 | 500 | 0.7 | 1.8 | 4.5 | | 74 | 26 | 20 | Tr. | 3.54 | 93 | | | | | | | | | | | | | | | | | | |
| 26 | 8296 | 13.9 | 48 | 7.4 | 12.6 | 14 | 11 | 7 | 34 | 20000 | 320 | 0.75 | 1.6 | 4 | | 74 | 26 | 21.5 | Tr. | 3.59 | 86 | | | | | | | | | | | | | | | | | | |
| 27 | 8494 | 14 | 53 | 7.2 | 12.3 | 14 | 23 | 6 | 37 | 20000 | 320 | 0.25 | 0.4 | 3.8 | | 74 | 26 | 24 | Tr. | 3.64 | 97 | | | | | | | | | | | | | | | | | | |
| 28 | 9626 | 14.3 | 78 | 5.6 | 10 | 22 | 26 | 8 | 47 | 21000 | 720 | 0.15 | 1.1 | 1.3 | | 72 | 28 | 27 | Tr. | 3.58 | 95 | | | | | | | | | | | | | | | | | | |
| 29 | 9791 | 14.3 | 61 | 5.2 | 9.9 | 21 | 27 | 8 | 46 | 21000 | 760 | 0.2 | 0.6 | 0.75 | | 72 | 28 | 24 | Tr. | 3.58 | 95 | | | | | | | | | | | | | | | | | | |
| 30 | 10039 | 14.3 | 65 | 5.4 | 10 | 22 | 28 | 9 | 48 | 21500 | 520 | 0.2 | 0.5 | 1 | | 72 | 28 | 24 | Tr. | 3.58 | 95 | | | | | | | | | | | | | | | | | | |
| 31 | 10104 | 14.3 | 64 | 5 | 10.1 | 21 | 20 | 5 | 36 | 22000 | 500 | 0.3 | 0.5 | 1.3 | | 73 | 27 | 23 | Tr. | 3.68 | 77 | | | | | | | | | | | | | | | | | | |
| December | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Tr. | | |
| 1 | 10078 | 14.3 | 81 | 5.1 | 9.9 | 23 | 18 | 6 | 34 | 21500 | 500 | 0.15 | 0.3 | 0.4 | | 72 | 28 | 23 | Tr. | 3.58 | 95 | | | | | | | | | | | | | | | | | | |
| 2 | 10465 | 14.6 | 53 | 5.7 | 10.2 | 22 | 22 | 4 | 32 | 22000 | 280 | 0.2 | 0.4 | 1.7 | | 70 | 30 | 21.5 | Tr. | 3.52 | 111 | | | | | | | | | | | | | | | | | | |

Eh-7

NL Baroid Norway a/s

MUD PROPERTY RECAP - WATER BASED

OPERATOR: Phillips Petroleum Company Norway a/s

WELL: 2/7-20

Rig: Dyvi Stena

| Date | Depth m | Mud Wt. ppg | Mud Vis. Sec | API Filt ml | HPHT Filt ml | pH | PV | YP | Rheology | | Cl g/l | Ca ppm | Pf | Mf | Pm | Oil % | H2O % | Sol % | CEC ppb | Sand % | ASG ppb | LGS ppb |
|------|------------|-------------------|--------------------|-------------------|--------------------|------|----|----|-----------|-----------|-----------|-----------|-----|-----|-----|----------|----------|----------|------------|-----------|------------|------------|
| | | | | | | | | | Gels | | | | | | | | | | | | | |
| | | | | | | | | | 10 Sec | 10 Min | | | | | | | | | | | | |
| 3 | 10736 | 14.6 | 51 | 5.7 | | 9.7 | 22 | 22 | 5 | 32 | 23000 | 240 | 0.2 | 0.5 | 1.4 | | 71 | 29 | 19 | Tr. | 3.61 | 92 |
| 4 | 10893 | 14.6 | 60 | 6.2 | | 10.4 | 21 | 20 | 5 | 33 | 23000 | 240 | 0.3 | 0.4 | 1.6 | | 71 | 29 | 18 | Tr. | 3.61 | 92 |
| 5 | 11027 | 14.7 | 53 | 6 | | 9.8 | 20 | 24 | 6 | 36 | 23000 | 180 | 0.2 | 0.4 | 1.4 | | 70 | 30 | 18 | Tr. | 3.57 | 103 |
| 6 | 11278 | 14.6 | 52 | 6.1 | | 10 | 19 | 21 | 3 | 27 | 22500 | 120 | 0.3 | 0.4 | 1.6 | | 71 | 29 | 17 | Tr. | 3.61 | 92 |
| 7 | 11414 | 14.6 | 52 | 5.6 | | 10 | 21 | 23 | 4 | 28 | 22000 | 120 | 0.3 | 0.6 | 1.8 | | 71 | 29 | 16 | Tr. | 3.61 | 103 |
| 8 | 11420 | 14.8 | 65 | 5.6 | | 10 | 20 | 24 | 4 | 26 | 22000 | 120 | 0.3 | 0.6 | 1.8 | 70.5 | 29.5 | 16 | Tr. | 3.63 | 96 | |
| 9 | 11721 | 14.6 | 51 | 6.6 | | 9.8 | 21 | 24 | 6 | 31 | 23000 | 120 | 0.3 | 0.7 | 1.6 | 74 | 28 | 15 | Tr. | 3.63 | 91 | |
| 10 | 12038 | 14.6 | 53 | 6.8 | | 9.6 | 20 | 30 | 6 | 33 | 23000 | 100 | 0.3 | 0.9 | 1.8 | 71 | 29 | 18 | 0.5 | 3.61 | 97 | |
| 11 | 12217 | 14.6 | 53 | 6.8 | | 9.7 | 19 | 26 | 6 | 28 | 24000 | 100 | 0.3 | 1 | 1.8 | 71 | 29 | 15 | 0.5 | 3.63 | 94 | |
| 12 | 12234 | 14.6 | 62 | 6.3 | | 9.8 | 18 | 20 | 3 | 26 | 23000 | 120 | 0.2 | 0.8 | 1.8 | 72 | 28 | 13 | Tr. | 3.61 | 94 | |
| 13 | 12340 | 14.7 | 54 | 6.6 | | 11.5 | 18 | 22 | 5 | 23 | 13000 | 80 | 0.7 | 2 | 1.8 | 71 | 29 | 14 | 0.25 | 3.61 | 97 | |
| 14 | 12451 | 14.6 | 47 | 7.2 | | 9.7 | 17 | 18 | 6 | 30 | 23000 | 80 | 0.3 | 0.9 | 1.8 | 72 | 28 | 13.5 | Tr. | 3.67 | 84 | |
| 15 | 12610 | 14.6 | 50 | 7.5 | | 9.5 | 20 | 21 | 8 | 35 | 23000 | 80 | 0.3 | 0.9 | 1.7 | 72 | 28 | 13 | Tr. | 3.67 | 84 | |
| 16 | 12707 | 14.6 | 46 | 7.8 | | 9.3 | 18 | 20 | 5 | 32 | 23000 | 80 | 0.4 | 1.3 | 1.6 | 72 | 28 | 15 | Tr. | 3.62 | 92 | |
| 17 | 12788 | 14.7 | 62 | 6.8 | 24 | 9.5 | 18 | 20 | 6 | 24 | 24000 | 120 | 0.5 | 1.6 | 1.8 | 71 | 29 | 13 | Tr. | 3.67 | 87 | |
| 18 | 12831 | 14.7 | 52 | 7.9 | 27 | 9.7 | 21 | 23 | 7 | 28 | 24000 | 120 | 0.4 | 1.3 | 2 | 70 | 30 | 13 | Tr. | 3.58 | 106 | |
| 19 | 12976 | 14.6 | 46 | 8.2 | 26 | 9.6 | 20 | 17 | 7 | 27 | 24000 | 80 | 0.4 | 1.1 | 1.8 | 71 | 29 | 13 | Tr. | 3.56 | 106 | |
| 20 | 13191 | 14.6 | 50 | 8.4 | 30 | 9.7 | 20 | 21 | 7 | 30 | 25000 | 120 | 0.3 | 1.2 | 1.8 | 70 | 30 | 13 | Tr. | 3.58 | 106 | |
| 21 | 13358 | 14.7 | 50 | 6.7 | 33 | 9.2 | 19 | 21 | 9 | 39 | 24000 | 80 | 0.3 | 0.8 | 1.7 | 71 | 29 | 12 | Tr. | 3.66 | 89 | |
| 22 | 13405 | 15.4 | 70 | 7.5 | 34 | 9.7 | 21 | 22 | 10 | 40 | 26000 | 60 | 0.4 | 1.2 | 1.6 | 67 | 33 | 10.5 | Tr. | 3.3 | 169 | |
| 23 | 13405 | 15.6 | 58 | 3.8 | 20 | 9.3 | 20 | 15 | 18 | 34 | 23000 | 120 | 0.9 | 4.7 | 0.9 | 10 | 56 | 34 | 11 | Tr. | 3.63 | 110 |
| 24 | 13405 | 15.6 | 66 | 4.8 | | 9.3 | 21 | 29 | 27 | 44 | 22500 | 80 | 1.4 | 5.5 | 1 | 14 | 52 | 34 | 9 | Tr. | 3.64 | 108 |
| 25 | 13405 | 15.6 | 75 | 5.2 | | 9.1 | 24 | 31 | 20 | 41 | 23500 | 80 | 0.8 | 4.5 | 0.9 | 11 | 54 | 35 | 8 | Tr. | 3.55 | 129 |
| 26 | 13405 | 15.6 | 63 | 5.6 | 34 | 9.7 | 26 | 10 | 4 | 12 | 13500 | 400 | 0.2 | 0.7 | 0.5 | | 70 | 30 | 9 | Tr. | 3.92 | 48 |
| 27 | 13405 | 15.4 | 54 | 11.2 | | 13.2 | 19 | 11 | 4 | 29 | 15000 | 840 | 1.3 | 2.1 | 9.6 | | 72 | 28 | 12 | Tr. | 4.05 | 24 |
| 28 | 13405 | 15.4 | 71 | 10.8 | | 12.9 | 25 | 10 | 9 | 38 | 10000 | 540 | 0.9 | 1.6 | 7 | | 72 | 28 | 12 | Tr. | 4.05 | 24 |
| 29 | 13405 | 15.6 | 43 | 16.5 | | 12.7 | 15 | 9 | 5 | 25 | 11500 | 600 | 0.6 | 0.9 | 2.6 | | 71 | 29 | 8 | 1 | 4.02 | 30 |

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NL Baroid Norway a/s

MUD PROPERTY RECAP - WATER BASED

OPERATOR: Phillips Petroleum Company Norway a/s

WELL: 2/7-20

Rig: Dyvi Stena

| Date | Depth m | Mud Wt. ppg | Mud Vis. Sec | API Filt ml | HPHT Filt ml | pH | PV | YP | Rheology | | Cl g/l | Ca ppm | Pf | Mf | Pm | Oil % | H2O % | Sol % | CEC ppb | Sand % | ASG ppb | LGS ppb |
|---------|------------|-------------------|--------------------|-------------------|--------------------|------|----|----|-----------|-----------|-----------|-----------|------|------|-----|----------|----------|----------|------------|-----------|------------|------------|
| | | | | | | | | | Gels | | | | | | | | | | | | | |
| | | | | | | | | | 10 Sec | 10 Min | | | | | | | | | | | | |
| 1987 | 30 | 13405 | 16.5 | 43 | | 11.5 | 12 | 18 | 20 | 25 | 10000 | 640 | 0.2 | 0.3 | 1.3 | | 68 | 32 | 8 | 1 | 4.07 | 24 |
| | 31 | 13405 | 16.5 | 37 | | 11.6 | 10 | 15 | 15 | 20 | 10000 | 560 | 0.2 | 0.4 | 1 | | 68 | 32 | 7 | 1 | 4.07 | 24 |
| 1988 | | | | | | | | | | | | | | | | | | | | | | |
| January | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 13405 | 16.5 | 39 | | 10.8 | 12 | 12 | 17 | 24 | 9500 | 360 | 0.2 | 0.4 | 1.1 | | 67 | 33 | 8 | | 3.93 | 102 |
| | 2 | 13405 | 16.5 | 40 | 16.5 | 10.5 | 13 | 11 | 2 | 19 | 9500 | 440 | 0.2 | 0.4 | 0.8 | | 67 | 33 | 9 | 1 | 3.93 | 50 |
| | 3 | 13405 | 16.5 | 40 | 25 | 10.3 | 14 | 14 | 5 | 21 | 10000 | 520 | 0.1 | 0.3 | 0.7 | | 68 | 32 | 8 | | 4.02 | 32 |
| | 4 | 13405 | 18 | 42 | | 9.9 | 12 | 25 | 15 | 24 | 10000 | 720 | 0.1 | 0.2 | 0.6 | | 61 | 39 | 7 | 1 | 3.97 | 51 |
| | 5 | 13405 | 16.5 | 39 | 21 | 9.5 | 13 | 12 | 2 | 16 | 10000 | 420 | 0.1 | 0.2 | 0.5 | | 68 | 32 | 8 | 1 | 4.06 | 25 |
| | 6 | 13405 | 16.5 | 42 | 20 | 9.5 | 13 | 11 | 2 | 19 | 10000 | 400 | 0.1 | 0.2 | 0.5 | | 68 | 32 | 8 | 1 | 4.08 | 22 |
| | 7 | 13405 | 16.5 | 37 | 36 | 9.4 | 12 | 6 | 3 | 18 | 10000 | 600 | 0.1 | 0.2 | 0.5 | | 68 | 32 | 9 | 1 | 4.06 | 25 |
| | 8 | 13405 | 18 | 43 | | 9 | 19 | 3 | 19 | 23 | 10000 | 740 | 0.1 | 0.2 | 0.3 | | 61 | 39 | 9 | 1 | 3.97 | 51 |
| | 9 | 13405 | 16.5 | 37 | 35 | 9.3 | 12 | 6 | 3 | 18 | 10000 | 540 | 0.1 | 0.2 | 0.3 | | 68 | 32 | 9 | 1 | 4.06 | 25 |
| | 10 | 13405 | 16.5 | 43 | 19 | 9.2 | 16 | 8 | 3 | 21 | 11000 | 80 | 0.05 | 0.1 | 0.2 | | 68 | 32 | 9 | 1 | 4.06 | 25 |
| | 11 | 13405 | 15.4 | 43 | 14 | 9.1 | 17 | 9 | 4 | 24 | 11000 | 760 | 0.05 | 0.1 | 0.1 | | 72 | 28 | 9 | 1 | 4.05 | 24 |
| | 12 | 13405 | 15.4 | 45 | 14 | 9.2 | 20 | 13 | 6 | 21 | 11000 | 600 | 0.05 | 0.25 | 0.2 | | 72 | 28 | 10.5 | 1 | 4.05 | 24 |
| | 13 | 13405 | 15.4 | 44 | 14 | 9.2 | 20 | 13 | 6 | 21 | 11000 | 600 | 0.05 | 0.25 | 0.2 | | 72 | 28 | 10.5 | 1 | 4.05 | 24 |
| | 14 | 13405 | 15.4 | 44 | 16 | 9.3 | 19 | 15 | 6 | 22 | 11000 | 640 | 0.1 | 0.2 | 0.3 | | 72 | 28 | 12 | 1 | 4.02 | 29 |
| | 15 | 8168 | 15.4 | 49 | 9 | 9.3 | 23 | 10 | 7 | 25 | 13000 | 500 | 0.1 | 0.3 | 0.2 | | 70 | 30 | 12 | 0.5 | 3.9 | 51 |
| | 16 | 7900 | 15.4 | 47 | 7.8 | 9.3 | 23 | 11 | 7 | 22 | 13000 | 400 | 0.1 | 0.4 | 0.2 | | 70 | 30 | 12 | 0.5 | 3.9 | 51 |
| | 17 | 7950 | 15.4 | 44 | 11.6 | 12.6 | 18 | 11 | 8 | 22 | 13000 | 520 | 0.6 | 0.8 | 2.5 | | 70 | 30 | 12 | Tr. | 3.9 | 51 |
| | 18 | 7950 | 15.3 | 42 | | 11.9 | 15 | 12 | 3 | 17 | 12000 | 560 | 0.3 | 0.5 | 1.4 | | 74 | 26 | 12 | Tr. | 4.1 | 15 |
| | 19 | 7950 | 15.4 | 48 | 9.5 | 11.6 | 16 | 13 | 4 | 20 | 12000 | 600 | 0.2 | 0.4 | 1.4 | | 73 | 27 | 11 | Tr. | 4.1 | 15 |
| | 20 | 7950 | 15.3 | 50 | 10 | 11.6 | 17 | 14 | 5 | 29 | 12000 | 560 | 0.2 | 0.4 | 1.4 | | 73 | 27 | 11 | Tr. | 4.04 | 24 |
| | 21 | 7950 | 15.3 | 46 | 10 | 11.5 | 16 | 13 | 5 | 26 | 12000 | 580 | 0.2 | 0.4 | 1.4 | | 73 | 27 | 11 | Tr. | 4.04 | 24 |
| | 22 | 8015 | 15.3 | 48 | 8.5 | 11.9 | 16 | 12 | 7 | 25 | 11500 | 160 | 0.3 | 0.6 | 1.5 | 0 | 73 | 27 | 12 | Tr. | 4.04 | 24 |
| | 23 | 8100 | 15 | 51 | 9 | 11.6 | 17 | 14 | 8 | 30 | 13000 | 380 | 0.25 | 0.5 | 105 | | 74 | 26 | 12 | Tr. | 4.02 | 26 |

sh-h

NL Baroid Norway a/s

MUD PROPERTY RECAP - WATER BASED

OPERATOR: Phillips Petroleum Company Norway a/s

WELL: 2/7-20

Rig: Dyvi Stena

| Date | Depth m | Mud Wt. ppg | Mud Vis. Sec | API Filt ml | HPHT Filt ml | pH | PV | YP | Rheology | | Cl g/l | Ca ppm | Pf | Mf | Pm | Oil % | H2O % | Sol % | CEC ppb | Sand % | ASG ppb | LGS ppb | |
|----------|------------|-------------------|--------------------|-------------------|--------------------|------|----|----|-------------------|-----------|-----------|-----------|------|------|------|----------|----------|----------|------------|-----------|------------|------------|--|
| | | | | | | | | | Gels 10 Sec | 10 Min | | | | | | | | | | | | | |
| 1987 | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 8731 | 15 | 51 | 7.2 | | 7.2 | 17 | 16 | 8 | 39 | 12000 | 360 | 0.2 | 0.4 | 1 | | 72 | 28 | 15 | 1 | 3.85 | 58 | |
| 25 | 9085 | 14.9 | 56 | 7.5 | | 9.8 | 18 | 18 | 10 | 50 | 13500 | 520 | 0.2 | 0.5 | 0.75 | | 72 | 28 | 16.5 | 1 | 3.79 | 65 | |
| 26 | 9525 | 15 | 53 | 6.9 | | 9.6 | 18 | 20 | 11 | 45 | 16000 | 400 | 0.2 | 0.6 | 1 | | 72 | 28 | 19.5 | 1 | 3.78 | 67 | |
| 27 | 9525 | 15 | 60 | 7 | | 10.7 | 16 | 14 | 9 | 38 | 16000 | 280 | 0.4 | 0.9 | 1.4 | | 72 | 28 | 18 | 1 | 3.83 | 59 | |
| 28 | 9851 | 15 | 47 | 7.4 | | 10.7 | 17 | 16 | 8 | 39 | 17500 | 380 | 0.2 | 0.6 | | | 72 | 28 | 18 | 0.75 | 3.76 | 70 | |
| 29 | 10075 | 15 | 48 | 7 | | 10 | 17 | 23 | 10 | 41 | 19000 | 400 | 0.2 | 0.5 | 0.8 | | 71 | 29 | 18 | 0.75 | 3.71 | 81 | |
| 30 | 10286 | 15 | 48 | 7.5 | | 10.2 | 17 | 25 | 11 | 49 | 19500 | 380 | 0.1 | 0.5 | 0.7 | | 71 | 29 | 16.5 | 0.75 | 3.71 | 81 | |
| 31 | 10587 | 15 | 46 | 6.8 | | 9.3 | 17 | 20 | 10 | 38 | 19000 | 380 | 0.1 | 0.4 | 0.7 | | 71 | 29 | 18 | 0.5 | 3.76 | 73 | |
| February | | | | | | | | | | | | | | | | | | | | | | 0 | |
| 1 | 10880 | 15 | 46 | 7 | | 10.2 | 17 | 20 | 11 | 39 | 19000 | 240 | 0.2 | 0.5 | 1 | | 70 | 30 | 17.5 | 0.5 | 3.69 | 87 | |
| 2 | 11086 | 15 | 46 | 6 | | 9.9 | 19 | 21 | 14 | 47 | 20000 | 100 | 0.1 | 0.5 | 1.1 | | 70 | 30 | 16 | Tr. | 3.69 | 87 | |
| 3 | 11379 | 15 | 46 | 6.2 | | 10.2 | 17 | 22 | 11 | 43 | 21500 | 100 | 0.1 | 0.6 | 1.3 | | 70 | 30 | 16 | Tr. | 3.69 | 87 | |
| 4 | 11386 | 15 | 51 | 6.4 | | 10 | 16 | 21 | 15 | 46 | 21000 | 120 | 0.1 | 0.5 | 1.6 | | 70 | 30 | 16 | Tr. | 3.69 | 87 | |
| 5 | 11676 | 15 | 43 | 6.8 | | 10 | 17 | 20 | 14 | 41 | 21000 | 90 | 0.1 | 0.5 | 1.3 | | 71 | 29 | 15 | Tr. | 3.78 | 69 | |
| 6 | 11913 | 15 | 43 | 6.4 | | 9.6 | 15 | 21 | 13 | 43 | 21000 | 80 | 0.1 | 0.6 | 1.4 | | 70 | 30 | 15 | Tr. | 3.69 | 87 | |
| 7 | 11965 | 15 | 43 | 6.4 | | 9.9 | 16 | 21 | 14 | 42 | 21500 | 70 | 0.2 | 0.85 | 1.2 | | 70 | 30 | 15 | Tr. | 3.69 | 87 | |
| 8 | 12010 | 15 | 43 | 6.4 | | 9.9 | 15 | 23 | 17 | 43 | 21500 | 60 | 0.25 | 0.8 | 1.5 | | 70 | 30 | 14 | Tr. | 3.69 | 87 | |
| 9 | 12174 | 15 | 43 | 6.5 | | 9.6 | 14 | 16 | 10 | 29 | 21500 | 70 | 0.2 | 0.9 | 1.1 | | 71 | 29 | 13 | Tr. | 3.78 | 69 | |
| 10 | 12178 | 15 | 54 | 6.4 | | 9.4 | 14 | 14 | 10 | 24 | 21500 | 70 | 0.1 | 0.9 | 1 | | 70 | 30 | 12 | Tr. | 3.69 | 87 | |
| 11 | 12238 | 15 | 43 | 7 | 32 | 9.7 | 16 | 16 | 12 | 34 | 22000 | 60 | 0.3 | 1.1 | 1.4 | | 71 | 29 | 11 | Tr. | 3.78 | 69 | |
| 12 | 12403 | 15 | 42 | 6.2 | 40 | 9.5 | 15 | 21 | 17 | 41 | 22500 | 60 | 0.25 | 1.3 | 1.4 | | 70 | 30 | 10 | Tr. | 3.64 | 96 | |
| 13 | 12514 | 15 | 42 | 5.9 | 36 | 9.6 | 16 | 21 | 18 | 41 | 23500 | 60 | 0.35 | 1.6 | 1.5 | | 69 | 31 | 10 | Tr. | 3.6 | 106 | |
| 14 | 12518 | 15 | 45 | 6 | 35 | 9.7 | 15 | 20 | 20 | 41 | 22500 | 100 | 0.25 | 1.3 | 1.6 | | 70 | 30 | 11 | Tr. | 3.65 | 94 | |
| 15 | 12528 | 15.5 | 47 | 7.5 | 32 | 9.8 | 17 | 21 | 18 | 40 | 23000 | 100 | 0.25 | 1.2 | 1.4 | 1 | 68 | 31 | 12 | Tr. | 3.8 | 71 | |
| 16 | 12528 | 16 | 49 | 8.5 | 30 | 9.2 | 20 | 20 | 18 | 35 | 24000 | 100 | 0.2 | 1 | 1.5 | 2 | 66 | 32 | 11 | Tr. | 3.9 | 55 | |
| 17 | 12528 | 16 | 48 | 6 | | 9.4 | 19 | 21 | 15 | 38 | 22000 | 120 | 0.4 | 1.3 | 1.3 | 2 | 64 | 34 | 12 | Tr. | 3.85 | 68 | |
| 18 | 12528 | 16 | 47 | 5.8 | | 9.2 | 19 | 19 | 12 | 31 | 23000 | 120 | 0.3 | 1.2 | 1.2 | 3 | 64.5 | 32.5 | 11 | Tr. | 3.89 | 57 | |

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NL Baroid Norway a/s

MUD PROPERTY RECAP - WATER BASED

OPERATOR: Phillips Petroleum Company Norway a/s

WELL: 2/7-20

Rig: Dyvi Stena

| Date | Depth m | Mud Wt. ppg | Mud Vis. Sec | API Filt ml | HPHT Filt ml | pH | PV | YP | Rheology | | Cl g/l | Ca ppm | Pf | Mf | Pm | Oil % | H2O % | Sol % | CEC ppb | Sand % | ASG ppb | LGS ppb | |
|-------|------------|-------------------|--------------------|-------------------|--------------------|-----|----|----|-----------|-----------|-----------|-----------|-----|-----|-----|----------|----------|----------|------------|-----------|------------|------------|--|
| | | | | | | | | | Gels | | | | | | | | | | | | | | |
| | | | | | | | | | 10 Sec | 10 Min | | | | | | | | | | | | | |
| 1987 | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 12528 | 16.2 | 62 | 5.6 | | 9.2 | 19 | 18 | 14 | 38 | 23000 | 120 | 0.3 | 1.1 | 1.2 | 2 | 65 | 33 | 11 | Tr. | 3.91 | 54 | |
| 20 | 12528 | 16 | 44 | 6 | | 9 | 19 | 17 | 9 | 28 | 23000 | 140 | 0.3 | 1.1 | 1.2 | 3 | 65 | 32 | 12 | Tr. | 3.92 | 51 | |
| 21 | 12528 | 16 | 48 | 5 | | 9.4 | 18 | 20 | 11 | 35 | 24000 | 90 | 0.4 | 1.6 | 1.3 | 2 | 65 | 33 | 12 | Tr. | 3.82 | 71 | |
| 22 | 12528 | 16 | 64 | 5 | | 9.3 | 21 | 12 | 10 | 27 | 24000 | 360 | 0.4 | 1.6 | 0.8 | 3 | 66 | 31 | 11 | Tr. | 4.01 | 33 | |
| 23 | 12528 | 16 | 50 | 4.7 | | 9.1 | 21 | 12 | 8 | 24 | 23000 | 240 | 0.4 | 1.7 | 0.7 | 4 | 63 | 33 | 11 | Tr. | 3.83 | 69 | |
| 24 | 12528 | 16.2 | 56 | 4.5 | | 9.5 | 21 | 12 | 8 | 26 | 23000 | 220 | 0.5 | 1.7 | 0.8 | 4 | 61 | 35 | 11 | Tr. | 3.71 | 98 | |
| 25 | 12528 | 16.2 | 54 | 3.8 | | 9 | 23 | 13 | 9 | 29 | 23000 | 240 | 0.4 | 1.7 | 0.7 | 5.5 | 61 | 35.5 | 11 | Tr. | 3.87 | 67 | |
| 26 | 12528 | 16.2 | 64 | 3.4 | | 9.2 | 24 | 13 | 11 | 30 | 23000 | 280 | 0.8 | 2.4 | 0.7 | 5 | 61 | 34 | 11.5 | Tr. | 3.89 | 60 | |
| 27 | 12528 | 16.2 | 67 | 4.4 | | 9.2 | 21 | 8 | 7 | 20 | 23500 | 320 | 0.4 | 1.5 | 0.6 | 3 | 65 | 32 | 11 | Tr. | 4.01 | 35 | |
| 28 | 12528 | 16.1 | 52 | 13 | | 14 | 18 | 10 | 3 | 31 | 21500 | 600 | 0.9 | 1.3 | 6.2 | 2 | 66 | 32 | 10 | 0.5 | 3.94 | 48 | |
| 29 | 12528 | 16.1 | 51 | 13 | | 13 | 18 | 9 | 3 | 30 | 21500 | 600 | 0.9 | 1.3 | 6.2 | 2 | 66 | 32 | 10 | Tr. | 3.94 | 48 | |
| March | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 12528 | 16 | 50 | 14 | | 13 | 17 | 9 | 3 | 29 | 21000 | 580 | 0.9 | 1.2 | 6.1 | 2 | 66 | 32 | 10 | Tr. | 3.90 | 55 | |
| 2 | 12528 | 16.1 | 54 | 14.5 | | 13 | 19 | 10 | 4 | 29 | 20500 | 600 | 1 | 1.2 | 6.2 | 2 | 66 | 32 | 9 | Tr. | 3.94 | 48 | |
| 3 | 12528 | 16.2 | 48 | 14 | | 12 | 18 | 14 | 3 | 21 | 21000 | 720 | 1 | 1.2 | 4 | 1 | 66 | 33 | 9 | Tr. | 3.85 | 65 | |

th-h

NL Baroid Norway a/s

MUD PROPERTY RECAP - ENVIROMUL

OPERATOR: Phillips Petroleum Company Norway a/s

WELL:2/7-20

Rig: Dyvi Stena

| Date | Depth | Mud Wt. ppg | Mud Vis. Sec | Temp. | Elec Stab Volt | HPHT Filt ml | Lime ppb | Rheology | | | | Cl *1000 g/l | Alk ml | Oil % | H2O % | Sol % | OWR g/l | Sand % | ASG | |
|-------|--------|-------------|--------------|-------|----------------|--------------|----------|----------|----|-------------|-------------|--------------|--------|-------|-------|-------|---------|--------|------|--|
| | | | | | | | | PV | YP | Gels 10 Sec | Gels 10 Min | | | | | | | | | |
| March | | | | | | | | | | | | | | | | | | | | |
| 4 | 12,551 | 16.2 | 51 | 91 | 800 | 11.0 | 5.9 | 32 | 20 | 10 | 13 | 248 | 4.6 | 55.0 | 10.0 | 35.0 | 85/15 | 0 | 3.95 | |
| 5 | 12,553 | 16.2 | 65 | 65 | 750 | 11.0 | 5.8 | 31 | 19 | 10 | 12 | 240 | 4.5 | 55.0 | 10.0 | 35.0 | 85/15 | 0 | 3.90 | |
| 6 | 12,650 | 16.2 | 52 | 120 | 800 | 11.6 | 3.9 | 29 | 24 | 22 | 24 | 210 | 3.0 | 54.0 | 9.0 | 37.0 | 86/14 | 0 | 3.85 | |
| 7 | 12,733 | 16.2 | 53 | 130 | 1,040 | 10.4 | 4.3 | 31 | 28 | 23 | 23 | 203 | 3.3 | 55.0 | 8.0 | 34.0 | 87/13 | 0 | 3.80 | |
| 8 | 12,733 | 16.2 | 79 | 75 | 1,000 | 10.9 | 3.9 | 30 | 27 | 23 | 24 | 210 | 3.0 | 55.0 | 8.0 | 34.0 | 87/13 | 0 | 3.85 | |
| 9 | 12,888 | 16.2 | 60 | 124 | 1,250 | 11.0 | 3.9 | 25 | 27 | 24 | 24 | 204 | 3.0 | 55.0 | 9.0 | 36.0 | 86/14 | 0 | 3.85 | |
| 10 | 13,100 | 16.3 | 50 | 131 | 1,210 | 10.2 | 4.0 | 26 | 24 | 20 | 20 | 209 | 3.1 | 55.0 | 9.0 | 36.0 | 86/14 | 0 | 3.90 | |
| 11 | 13,330 | 16.2 | 48 | 130 | 1,360 | 9.5 | 4.5 | 26 | 24 | 21 | 21 | 213 | 3.5 | 56.0 | 9.0 | 35.0 | 86/14 | Tr | 3.90 | |
| 12 | 13,380 | 16.6 | 54 | 131 | 1,350 | 12.2 | 6.5 | 26 | 26 | 25 | 26 | 230 | 5.0 | 55.0 | 8.0 | 37.0 | 87/13 | Tr | 3.92 | |
| 13 | 13,398 | 17.0 | 58 | 115 | 1,450 | 12.7 | 5.9 | 27 | 29 | 25 | 26 | 203 | 4.5 | 54.0 | 8.0 | 38.0 | 87/13 | Tr. | 3.98 | |
| 14 | 13,430 | 16.9 | 52 | 110 | 1,850 | 12.0 | 4.3 | 23 | 30 | 21 | 22 | 230 | 3.3 | 55.0 | 7.0 | 38.0 | 89/11 | Tr. | 3.94 | |
| 15 | 13,436 | 17.0 | 51 | 110 | 1,900 | 10.0 | 4.9 | 23 | 21 | 19 | 20 | 240 | 3.8 | 56.0 | 6.0 | 32.0 | 90/10 | Tr. | 3.96 | |
| 16 | 13,562 | 17.1 | 54 | 110 | 1,900 | 11.0 | 5.2 | 27 | 26 | 20 | 21 | 214 | 4.0 | 53.0 | 7.0 | 40.0 | 88/12 | Tr. | 3.89 | |
| 17 | 13,430 | 17.1 | 51 | 120 | 1,900 | 11.0 | 5.2 | 27 | 22 | 19 | 20 | 203 | 4.0 | 53.0 | 8.0 | 39.0 | 87/13 | Tr. | 3.91 | |
| 18 | 13,570 | 17.4 | 54 | 110 | 1,900 | 12.0 | 4.9 | 31 | 23 | 18 | 20 | 203 | 3.8 | 52.0 | 8.0 | 40.0 | 87/13 | Tr. | 3.93 | |
| 19 | 13,481 | 17.3 | 54 | 110 | 1,100 | 11.0 | 2.6 | 27 | 19 | 16 | 18 | 203 | 2.0 | 53.0 | 8.0 | 39.0 | 87/13 | Tr. | 3.98 | |
| 20 | 13,481 | 17.5 | 50 | 110 | 1,260 | 8.0 | 4.3 | 28 | 19 | 14 | 13 | 200 | 3.3 | 50.0 | 10.0 | 40.0 | 83/17 | Tr. | 3.90 | |
| 21 | 13,962 | 17.5 | 50 | 95 | 1,320 | 9.0 | 4.3 | 28 | 18 | 14 | 16 | 200 | 3.3 | 50.0 | 10.0 | 40.0 | 83/17 | Tr. | 3.90 | |
| 22 | 13,777 | 17.4 | 53 | 91 | 1,460 | 10.0 | 4.3 | 25 | 15 | 14 | 15 | 200 | 3.3 | 51.0 | 8.0 | 41.0 | 86/14 | Tr. | 3.89 | |
| 23 | 14,043 | 17.4 | 52 | 104 | 1,260 | 6.5 | 3.4 | 28 | 15 | 14 | 15 | 200 | 2.6 | 50.0 | 9.0 | 41.0 | 85/15 | Tr. | 3.93 | |
| 24 | 14,055 | 17.6 | 52 | 101 | 1,260 | 8.0 | 3.4 | 30 | 16 | 14 | 15 | 205 | 2.6 | 51.0 | 9.0 | 40.0 | 85/15 | Tr. | 4.00 | |
| 25 | 14,055 | 17.6 | 56 | 94 | 1,180 | 8.0 | 3.1 | 31 | 15 | 14 | 15 | 200 | 2.4 | 49.0 | 9.0 | 42.0 | 84/16 | Tr. | 3.84 | |
| 26 | 14,055 | 17.6 | 52 | 104 | 1,160 | 7.0 | 4.7 | 31 | 15 | 15 | 16 | 203 | 3.6 | 50.0 | 9.0 | 41.0 | 85/15 | Tr. | 3.86 | |
| 27 | 14,055 | 17.6 | 56 | 104 | 1,220 | 7.0 | 5.5 | 31 | 15 | 15 | 16 | 220 | 4.2 | 50.0 | 9.0 | 41.0 | 85/15 | Tr. | 3.86 | |
| 28 | 14,055 | 17.6 | 58 | 93 | 1,200 | 6.5 | 5.6 | 30 | 15 | 13 | 13 | 220 | 4.3 | 49.5 | 9.0 | 41.5 | 85/15 | Tr. | 3.92 | |
| 29 | 14,055 | 17.6 | 57 | 88 | 1,150 | 6.1 | 5.9 | 30 | 15 | 13 | 13 | 215 | 4.5 | 50.0 | 9.0 | 41.0 | 85/15 | Tr. | 3.96 | |

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NL Baroid Norway a/s

MUD PROPERTY RECAP - ENVIROMUL

OPERATOR: Phillips Petroleum Company Norway a/s

WELL: 2/7-20

Rig: Dyvi Stena

| Date | Depth | Mud Wt. | Mud Vis. | Temp. | Elec Stab | HPHT Filt | Lime | Rheology | | | | Cl | Alk | Oil | H2O | Sol | OWR | Sand | ASG |
|-------|--------|---------|----------|-------|-----------|-----------|------|----------|----|---------|---------|-----|------|------|------|------|-------|------|------|
| | | | | | | | | PV | YP | Gels 10 | Gels 10 | | | | | | | | |
| 1988 | ft | ppg | Sec | | Volt | ml | ppb | | | | | | | | | | | | |
| 30 | 14,055 | 17.6 | 64 | 78 | 1,160 | 6.0 | 5.9 | 30 | 17 | 15 | 15 | 224 | 4.5 | 49.5 | 9.0 | 41.5 | 85/15 | Tr. | 3.92 |
| 31 | 14,055 | 17.6 | 63 | 75 | 1,180 | 6.0 | 5.3 | 31 | 16 | 14 | 15 | 193 | 4.1 | 50.0 | 9.0 | 41.0 | 85/15 | Tr. | 3.95 |
| April | | | | | | | | | | | | | | | | | | | |
| 1 | 14,055 | | | | | | | | | | | | | | | | | | |
| 2 | 14,055 | 17.6 | 52 | 100 | 970 | 5.6 | 3.5 | 30 | 11 | 8 | 8 | 218 | 2.7 | 51.0 | 9.0 | 40.0 | 85/15 | Tr. | 4.04 |
| 3 | 14,055 | 17.6 | 56 | 90 | 800 | 4.8 | 4.7 | 30 | 15 | 12 | 12 | 193 | 3.6 | 49.0 | 10.0 | 41.0 | 83/17 | Tr. | 3.95 |
| 4 | 14,055 | 17.6 | 56 | 93 | 880 | 4.9 | 4.6 | 30 | 16 | 12 | 13 | 195 | 3.5 | 49.0 | 10.0 | 41.0 | 83/17 | Tr. | 3.95 |
| 5 | 14,055 | 17.3 | 54 | 88 | 850 | 5.0 | 4.4 | 29 | 15 | 11 | 12 | 199 | 3.4 | 50.0 | 10.0 | 40.0 | 83/17 | Tr. | 3.97 |
| 6 | 14,070 | 17.3 | 54 | 97 | 1,040 | 5.0 | 3.4 | 27 | 12 | 11 | 14 | 200 | 2.6 | 50.0 | 9.0 | 41.0 | 85/15 | Tr. | 3.99 |
| 7 | 14,087 | 17.3 | 58 | 85 | 1,080 | 4.8 | 5.5 | 30 | 13 | 12 | 14 | 195 | 4.2 | 50.0 | 9.0 | 41.0 | 85/15 | Tr. | 4.01 |
| 8 | 14,126 | 17.3 | 71 | 81 | 1,100 | 4.5 | 5.5 | 31 | 17 | 16 | 18 | 225 | 4.2 | 50.0 | 10.0 | 40.0 | 83/17 | Tr. | 3.96 |
| 9 | 14132 | 17.3 | 73 | 83 | 1100 | 4.5 | 5.5 | 30 | 16 | 15 | 17 | 220 | 4.2 | 50 | 10 | 40 | 83/17 | Tr. | 3.9 |
| 10 | 14173 | 17.3 | 60 | 82 | 1050 | 4.5 | 5.5 | 31 | 15 | 15 | 16 | 220 | 4.2 | 50 | 10 | 40 | 83/17 | Tr. | 3.96 |
| 11 | 14038 | 17.3 | 67 | 72 | 980 | 5.6 | 4.2 | 30 | 16 | 17 | 19 | 193 | 3.3 | 50 | 10 | 40 | 83/17 | Tr. | 3.94 |
| 12 | 14300 | 17.3 | 55 | 105 | 1070 | 7.9 | 6 | 30 | 17 | 11 | 16 | 214 | 4.6 | 50 | 10 | 40 | 83/17 | Tr. | 3.94 |
| 13 | 14380 | 17.6 | 56 | 98 | 1000 | 8.8 | 6.2 | 32 | 13 | 12 | 15 | 238 | 4.75 | 50 | 9 | 41 | 85/15 | Tr. | 3.96 |
| 14 | 14380 | 17.6 | 61 | 88 | 1100 | 6.1 | 6.2 | 30 | 18 | 14 | 16 | 221 | 4.75 | 50 | 9 | 41 | 85/15 | Tr. | 3.96 |
| 15 | 14380 | 17.6 | 64 | 89 | 1050 | 6.3 | 6.2 | 31 | 18 | 15 | 17 | 221 | 4.75 | 50 | 9 | 41 | 85/15 | Tr. | 3.96 |
| 16 | 14380 | 17.6 | 65 | 89 | 1000 | 4.9 | 6.1 | 31 | 18 | 14 | 15 | 201 | 4.7 | 48 | 11 | 41 | 81/19 | Tr. | 3.94 |
| 17 | 14421 | 17.6 | 55 | 88 | 960 | 6.2 | 4.9 | 31 | 18 | 14 | 15 | 193 | 3.8 | 49 | 11 | 40 | 82/18 | Tr. | 4.02 |
| 18 | 14437 | 17.6 | 61 | 92 | 980 | 5.5 | 5.5 | 31 | 18 | 13 | 15 | 214 | 4.2 | 49 | 10 | 41 | 83/17 | Tr. | 3.95 |
| 19 | 14467 | 17.6 | 61 | 92 | 1040 | 6.5 | 5.3 | 32 | 21 | 15 | 17 | 200 | 4.1 | 49 | 10 | 41 | 83/17 | Tr. | 3.95 |
| 20 | 14492 | 17.6 | 60 | 99 | 900 | 5.2 | 5.2 | 30 | 17 | 12 | 16 | 217 | 4 | 50 | 9 | 41 | 85/15 | Tr. | 3.96 |
| 21 | 14533 | 17.3 | 55 | 99 | 1200 | 5 | 3.9 | 28 | 16 | 13 | 15 | 229 | 3 | 51 | 8 | 41 | 86/14 | Tr. | 3.87 |
| 22 | 14600 | 17.5 | 58 | 99 | 1140 | 5 | 4.6 | 30 | 18 | 13 | 16 | 237 | 4.6 | 51 | 8 | 41 | 86/14 | Tr. | 3.87 |
| 23 | 14698 | 17.4 | 58 | 103 | 1240 | 5.5 | 4.6 | 29 | 17 | 14 | 17 | 237 | 4.6 | 51 | 8 | 41 | 86/14 | Tr. | 3.87 |
| 24 | 14735 | 17.4 | 58 | 97 | 1520 | 5.4 | 4.6 | 30 | 15 | 15 | 16 | 237 | 4.6 | 51 | 8 | 41 | 86/14 | Tr. | 3.87 |

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NL Baroid Norway a/s

MUD PROPERTY RECAP - ENVIROMUL

OPERATOR: Phillips Petroleum Company Norway a/s

WELL: 2/7-20

Rig: Dyvi Stena

| Date | Depth | Mud Wt. ppg | Mud Vis. Sec | Temp. | Elec Stab Volt | HPHT Filt ml | Lime ppb | Rheology | | | | Oil % | H2O % | Sol % | OWR | Sand % | ASG |
|------|-------|-------------|--------------|-------|----------------|--------------|----------|----------|----|-------------|---------------------|-------|-------|-------|-----|--------------|------|
| | | | | | | | | PV | YP | Gels 10 Sec | Cl 10 Min *1000 g/l | | | | | | |
| 25 | 14791 | 17.4 | 84 | 102 | 1560 | 5.1 | 6.11 | 31 | 15 | 16 | 16 | 231 | 4.7 | 51 | 8 | 41 86/14 Tr. | 3.85 |
| 26 | 14795 | 17.4 | 59 | 86 | 1570 | 5.2 | 6.11 | 31 | 15 | 15 | 16 | 229 | 4.7 | 51 | 8 | 41 86/14 Tr. | 3.86 |
| 27 | 14995 | 17.4 | 61 | 86 | 1840 | 5.2 | 5.98 | 30 | 15 | 15 | 16 | 232 | 4.6 | 51 | 8 | 41 86/14 Tr. | 3.87 |
| 28 | 14795 | 17.4 | 69 | 82 | 1560 | 5.1 | 6 | 31 | 16 | 16 | 16 | 231 | 4.6 | 51 | 8 | 41 86/14 Tr. | 3.94 |
| 29 | 14795 | 17.4 | 75 | 79 | 1570 | 5.3 | 6 | 31 | 16 | 15 | 16 | 229 | 4.6 | 51 | 8 | 41 86/14 Tr. | 3.93 |
| 30 | 14995 | 17.5 | 67 | 80 | 1440 | 5.4 | 6 | 32 | 19 | 16 | 17 | 220 | 4.6 | 50 | 8 | 42 86/14 Tr. | 3.88 |
| May | | | | | | | | | | | | | | | | | |
| 1 | 14795 | 17.5 | 75 | 79 | 1530 | 5.5 | 6 | 32 | 19 | 16 | 16 | 219 | 4.6 | 51 | 8 | 41 86/14 Tr. | 3.93 |
| 2 | 14795 | 17.5 | 79 | 72 | 1550 | 5.2 | 6 | 31 | 20 | 16 | 17 | 222 | 4.6 | 50 | 8 | 42 86/14 Tr. | 3.91 |
| 3 | 14795 | 17.6 | 101 | 75 | 1510 | 5.4 | 6 | 32 | 21 | 16 | 17 | 230 | 4.6 | 51 | 8 | 41 86/14 Tr. | 3.92 |
| 4 | 14795 | 17.6 | 110 | 71 | 1500 | 5.4 | 6 | 31 | 20 | 16 | 16 | 225 | 4.6 | 51 | 8 | 41 86/14 Tr. | 3.9 |
| 5 | 14795 | 17.6 | 85 | 88 | 1510 | 5.5 | 6 | 32 | 21 | 17 | 17 | 220 | 4.6 | 51 | 78 | 41 86/14 Tr. | 3.93 |
| 6 | 13400 | 17.6 | 80 | 85 | 1500 | 5.4 | 5.9 | 31 | 20 | 16 | 17 | 215 | 4.5 | 50 | 8 | 42 86/14 Tr. | 3.86 |
| 7 | 13937 | 17.6 | 105 | 68 | 1490 | 5.5 | 5.9 | 33 | 23 | 18 | 20 | 234 | 4.5 | 50 | 9 | 41 84/16 Tr. | 3.99 |
| 8 | 14010 | 17.6 | 62 | 111 | 1410 | 5.6 | 5.2 | 32 | 18 | 18 | 19 | 218 | 4 | 50 | 9 | 41 84/16 Tr. | 3.96 |
| 9 | 14010 | 17.5 | 84 | 74 | 800 | 5.4 | 5.3 | 35 | 23 | 15 | 20 | 246 | 4.1 | 50 | 9 | 41 85/15 Tr. | 3.88 |
| 10 | 14010 | 17.5 | 85 | 69 | 680 | 6.2 | 3.9 | 34 | 20 | 17 | 21 | 241 | 3 | 49 | 9 | 42 84/16 Tr. | 3.85 |
| 11 | 14010 | 17.4 | 60 | 118 | 640 | 5.8 | 4.9 | 37 | 27 | 21 | 26 | 236 | 3.8 | 50 | 9 | 41 85/15 Tr. | 3.9 |
| 12 | 14010 | 17.5 | 80 | 74 | 640 | 5.8 | 4.9 | 38 | 25 | 20 | 25 | 235 | 3.8 | 50 | 9 | 41 85/15 Tr. | 3.93 |
| 13 | 14010 | 17.5 | 86 | 74 | 660 | 5.2 | 4.7 | 36 | 28 | 20 | 26 | 230 | 3.6 | 50 | 9 | 41 85/15 Tr. | 3.93 |
| 14 | 14010 | 17.5 | 86 | 74 | 660 | 5.8 | 4.7 | 36 | 28 | 20 | 26 | 230 | 3.6 | 50 | 9 | 41 85/15 Tr. | 3.93 |
| 15 | 14010 | 17.5 | 86 | 74 | 660 | 5.8 | 4.7 | 37 | 27 | 21 | 26 | 230 | 3.6 | 50 | 9 | 41 85/15 Tr. | 3.94 |
| 16 | 12930 | 17.4 | 73 | 97 | 620 | 6 | 5.1 | 37 | 28 | 20 | 27 | 221 | 3.9 | 50 | 10 | 40 83/17 Tr. | 3.99 |
| 17 | 12930 | 17.5 | 99 | 66 | 610 | 6 | 5.1 | 39 | 28 | 20 | 28 | 221 | 3.9 | 50 | 10 | 40 83/17 Tr. | 3.94 |
| 18 | 12930 | 17.6 | 110 | 64 | 620 | 6 | 4.9 | 36 | 26 | 19 | 25 | 221 | 3.8 | 49 | 10 | 41 83/17 Tr. | 3.95 |
| 19 | 12930 | 17.6 | 110 | 64 | 620 | 6 | 4.9 | 36 | 26 | 19 | 25 | 221 | 3.8 | 49 | 10 | 41 83/17 Tr. | 3.95 |
| 20 | 13920 | 17.4 | 75 | 102 | 740 | 5.8 | 4.9 | 39 | 26 | 20 | 26 | 199 | 3.8 | 49 | 11 | 40 82/18 Tr. | 3.98 |

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NL Baroid Norway a/s

MUD PROPERTY RECAP - ENVIROMUL

OPERATOR: Phillips Petroleum Company Norway a/s

WELL: 2/7-20

Rig: Dyvi Stena

| Date | Depth | Mud Wt. ppg | Mud Vis. Sec | Temp. | Elec Stab Volt | HPHT Filt ml | Lime ppb | Rheology | | | | Oil % | H2O % | Sol % | OWR | Sand % | ASG |
|------|-------|-------------|--------------|-------|----------------|--------------|----------|----------|----|-------------|---------------------|-------|-------|-------|-----|--------------|------|
| | | | | | | | | PV | YP | Gels 10 Sec | Cl 10 Min *1000 g/l | | | | | | |
| 1988 | ft | | | | | | | | | | | | | | | | |
| 21 | 13920 | 17.5 | 68 | 83 | 800 | 6 | 4.9 | 33 | 25 | 15 | 19 | 216 | 3.8 | 49 | 10 | 41 83/17 Tr. | 3.92 |
| 22 | 13920 | 17.5 | 83 | 72 | 780 | 6 | 4.9 | 40 | 28 | 20 | 28 | 216 | 3.8 | 49 | 10 | 41 83/17 Tr. | 3.92 |
| 23 | 13920 | 17.4 | 85 | 70 | 720 | 6.2 | 4.9 | 41 | 27 | 20 | 27 | 209 | 3.8 | 49 | 10 | 41 83/17 Tr. | 3.96 |
| 24 | 13920 | 17.5 | 88 | 71 | 710 | 6.2 | 5.1 | 42 | 28 | 21 | 28 | 214 | 3.9 | 48 | 11 | 41 82/18 Tr. | 3.82 |
| 25 | 13920 | 17.5 | 90 | 67 | 700 | 6.3 | 5.1 | 41 | 27 | 21 | 27 | 215 | 3.9 | 48 | 11 | 41 82/18 Tr. | 3.84 |
| 26 | 13920 | 17.5 | 87 | 74 | 740 | 6.1 | 4.9 | 41 | 27 | 21 | 28 | 210 | 3.8 | 48 | 11 | 41 82/18 Tr. | 3.88 |
| 27 | 13920 | 17.4 | 84 | 77 | 850 | 5.5 | 5.2 | 43 | 25 | 22 | 26 | 202 | 4 | 47 | 12 | 41 80/20 Tr. | 3.92 |
| 28 | 13920 | 17.4 | 89 | 78 | 770 | 6 | 5.1 | 42 | 25 | 21 | 25 | 210 | 3.9 | 47 | 11 | 42 81/19 Tr. | 3.88 |
| 29 | 13920 | 17.5 | 92 | 72 | 790 | 6.1 | 5.1 | 41 | 26 | 21 | 26 | 205 | 3.9 | 47 | 11 | 42 81/19 Tr. | 3.91 |
| 30 | 13920 | 17.5 | 91 | 71 | 750 | 6.3 | 5.2 | 42 | 25 | 21 | 26 | 208 | 4 | 47 | 11 | 42 81/19 Tr. | 3.9 |
| 31 | 13920 | 17.4 | 94 | 70 | 760 | 6.1 | 5.1 | 42 | 24 | 21 | 25 | 210 | 3.9 | 47 | 11 | 42 81/19 Tr. | 3.89 |
| June | | | | | | | | | | | | | | | | | |
| 1 | 13920 | 17.4 | 88 | 77 | 770 | 6.2 | 5.1 | 41 | 24 | 21 | 25 | 202 | 3.9 | 47 | 11 | 42 81/19 Tr. | 3.86 |
| 2 | 14010 | 17.5 | 63 | 126 | 840 | 5.4 | 4.6 | 40 | 27 | 23 | 26 | 198 | 3.5 | 52 | 10 | 38 84/16 Tr. | 4.1 |
| 3 | 14010 | 17.5 | 87 | 75 | 860 | 5.2 | 4.6 | 40 | 26 | 22 | 26 | 200 | 3.5 | 52 | 10 | 38 84/16 Tr. | 4.09 |
| 4 | 14010 | 17.5 | 91 | 71 | 850 | 5.3 | 4.6 | 41 | 27 | 22 | 27 | 200 | 3.5 | 52 | 11 | 39 83/17 Tr. | 4.08 |
| 5 | 14010 | 17.5 | 94 | 69 | 860 | 5.3 | 4.6 | 40 | 26 | 21 | 27 | 195 | 3.5 | 52 | 11 | 37 83/17 Tr. | 4.08 |
| 6 | 14010 | 17.5 | 66 | 107 | 970 | 4.2 | 5.5 | 41 | 29 | 22 | 22 | 139 | 4.2 | 48 | 13 | 39 79/21 Tr. | 4.06 |
| 7 | 14010 | 17.5 | 71 | 99 | 1000 | 4.5 | 5.2 | 40 | 28 | 20 | 20 | 199 | 4 | 48 | 13 | 89 79/21 Tr. | 4.06 |
| 8 | 14010 | 17.6 | 80 | 90 | 1030 | 4.6 | 5.2 | 42 | 26 | 20 | 21 | 208 | 4 | 47 | 12 | 41 80/20 Tr. | 3.94 |
| 9 | 14010 | 17.6 | 89 | 100 | 1020 | 6.4 | 6.4 | 49 | 13 | 8 | 18 | 167 | 3.5 | 48 | 11 | 41 81/19 Tr. | 3.94 |
| 10 | 14010 | 17.6 | 92 | 80 | 880 | 5.8 | 5.2 | 42 | 31 | 22 | 22 | 204 | 4 | 48 | 12 | 40 80/20 Tr. | 4.02 |
| 11 | 14010 | 17.6 | 98 | 87 | 940 | 4 | 5.5 | 40 | 30 | 22 | 23 | 204 | 4.2 | 48 | 12 | 40 80/20 Tr. | 4.02 |
| 12 | 14010 | 17.6 | 71 | 110 | 960 | 5.2 | 5.2 | 42 | 32 | 22 | 24 | 191 | 4 | 48 | 12 | 40 80/20 Tr. | 4.02 |
| 13 | 14010 | 17.6 | 69 | 96 | 1000 | 4.9 | 4.4 | 41 | 35 | 25 | 27 | 190 | 3.4 | 49 | 11 | 40 82/18 Tr. | 4.02 |
| 14 | 14010 | 17.6 | 98 | 79 | 1020 | 5.1 | 4.6 | 44 | 33 | 25 | 27 | 190 | 3.5 | 49 | 11 | 40 82/18 Tr. | 4.02 |
| 15 | 14010 | 17.6 | 72 | 103 | 910 | 6.1 | 4.2 | 42 | 33 | 25 | 25 | 185 | 3.2 | 49 | 11 | 40 82/18 Tr. | 4.02 |

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NL Baroid Norway a/s

MUD PROPERTY RECAP - ENVIROMUL

OPERATOR: Phillips Petroleum Company Norway a/s

WELL: 2/7-20

Rig: Dyvi Stena

| Date 1988 | Depth ft | Mud Wt. ppg | Mud Vis. Sec | Temp. | Elec Stab Volt | HPHT Filt ml | Lime ppb | Rheology | | | | Cl *1000 g/l | Alk ml | Oil % | H2O % | Sol % | OWR | Sand % | ASG |
|--------------|-------------|-------------------|--------------------|-------|----------------------|--------------------|-------------|----------|----|-------------------|-------------------|--------------------|-----------|----------|----------|----------|-------|-----------|------|
| | | | | | | | | PV | YP | Gels 10 Sec | Gels 10 Min | | | | | | | | |
| 16 | 14010 | 17.6 | 78 | 95 | 960 | 6 | 5.2 | 47 | 35 | 26 | 29 | 191 | 4 | 49 | 11 | 40 | 82/18 | Tr. | 4.02 |
| 17 | 14010 | 17.6 | 85 | 85 | 880 | 5.9 | 5.2 | 42 | 34 | 24 | 27 | 168 | 4 | 48 | 42 | 40 | 80/20 | Tr. | 4.02 |
| 18 | 14010 | 17.6 | 88 | 79 | 920 | 5.6 | 3.6 | 43 | 25 | 19 | 19 | 189 | 2.8 | 47 | 12 | 41 | 80/20 | Tr. | 3.94 |
| 19 | 14010 | 17.6 | 71 | 98 | 860 | 5.8 | 3.6 | 44 | 31 | 23 | 25 | 194 | 3.6 | 48 | 11 | 41 | 81/19 | Tr. | 3.94 |
| 20 | 10088 | 17.6 | 87 | 88 | 870 | 5.8 | 4.9 | 51 | 29 | 22 | 26 | 210 | 3.8 | 48 | 11 | 41 | 81/19 | Tr. | 3.95 |
| 21 | 10096 | 17.6 | 82 | 99 | 900 | 5.8 | 4.3 | 43 | 34 | 24 | 29 | 212 | 3.3 | 49 | 10 | 41 | 83/17 | Tr. | 3.9 |
| 22 | 9921 | 17.6 | 87 | 89 | 910 | 5.8 | 4.4 | 46 | 35 | 24 | 30 | 216 | 3.4 | 49 | 10 | 41 | 83/17 | Tr. | 3.9 |
| 23 | 8040 | 17.6 | 89 | 86 | 900 | 5.8 | 4.4 | 45 | 33 | 23 | 30 | 216 | 3.4 | 49 | 10 | 41 | 83/17 | Tr. | 3.9 |

4-52

TEST SUMMARY

1. A successful flow test of the Upper Jurassic Sand was achieved. The following stabilized rates were recorded on two separate flow tests:

| <u>Flow Period</u> | <u>Choke</u> | <u>FTP (PSIG)</u> | <u>Oil (STBOPD)</u> | <u>GOR (SCF/STB)</u> |
|--------------------|--------------|-------------------|---------------------|----------------------|
| Cleanup | 16/64 | 7246 | 2230 | 2050 |
| Main Drawdown | 24/64 | 6030 | 3560 | 2240 |

2. A large drawdown of over 1900 psi was required to achieve a production rate of 3500 STBOPD. No significant solids flow or water production was observed during these flow rates. A BS&W of 2-3% was measured initially on the cleanup flow but dissipated to less than 0.1% at the end of the cleanup flow. This initial solids was determined to be barite material.
3. Interpretation of the pressure transient data suggested two possible systems:
 - A) A faulted reservoir system with one or more faults.
 - B) A stratified, layered system with significant permeability variations.

The evidence for either interpretation is not conclusive and may even be a combination of both systems. The layered reservoir system is supported by complex derivative analysis of pressure transient data, known RFT permeability and pressure variations, and high shale content observed in some sidewall cores. This analysis also gives a more conservative analysis as to future productivity and will be used for future planning. The layered system approach gave the following well parameters.

K = 1.6 md
S = +2.75
Pbar = 12,100 psig at 13,710 ft
Temp = 315° F at 13,710 ft
PI = 1.68 BOPD/PSI

4. Analysis of the three buildup periods indicates an average reservoir pressure of 12,067 psi to 12,132 psi. There is no evidence of significant depletion between these flow periods.
5. The production log analysis indicated that all perforated intervals were contributing to flow. The majority of production (80%) however, was from below the main shale streak.

6. The RFT measured pressures ranged from 11,901 psig to 12,152 psig through the entire Upper Sand interval. A clean oil gradient of 0.6 gram/cc was observed below the main shale streak. No detectable gradient was observed above the shale streak due to erratic pressures and sparse data. The RFT also indicated large permeability variations throughout the entire interval. These variations correlated well with the production log with higher permeability measurements corresponding to higher production log contribution.

7. An analysis of the surface PVT samples taken during the flow test indicated a low bubble point, high CO₂ content, volatile oil with the following characteristics:

| | |
|---|---------------|
| Bubble Point | 4,917 PSIG |
| Solution GOR | 2,376 SCF/STB |
| Formation Volume Factor At Bubble Point | 2.644 RB/STB |
| Oil Viscosity At Bubble Point | 0.102 cp |
| Oil Viscosity At 12,000 Psig | 0.145 cp |

8. Based upon the calculated well test deliverability, well 2/7-20 is capable of producing rates of 4,000 to 7,000 BOPD depending on tubing size. Rates above 7,000 BOPD will require excessive reservoir drawdown below the bubble point pressure and may increase the possibility of solids production.