

# DRILTECH MWD SURVEY REPORT



Company: EOG Resources, Inc  
Well: Frazier 34 State Com #503H  
Location: Lea Co., NM  
Rig: H&P 260

Job Number: 2015-050-EODT-NM  
Vertical Section Plane: 8.73  
WELL API #: 30-025-42388  
Tie Into: Surface

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JUL 30 2015  
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Calculation Method Minimum Curvature

| Survey # | Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') |
|----------|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|
|          |                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |
| Tie In   | Surf             | 0.00              | 0.00              | 0.00          | 0.00               | 0.00                     | 0.00                  | 0.00        | 0.00     | 0.00          | 0.00        | 0.00                     | 0.00                |
| 1        | MWD              | 175.00            | 0.50              | 226.50        | 175                | 175.00                   | -0.60                 | 0.53 S      | 0.55 W   | 0.76          | 226.50      | 0.29                     | 0.29                |
| 2        | MWD              | 234.00            | 0.50              | 121.40        | 59                 | 234.00                   | -0.91                 | 0.84 S      | 0.52 W   | 0.99          | 211.90      | 1.35                     | 0.00                |
| 3        | MWD              | 294.00            | 0.50              | 122.60        | 60                 | 293.99                   | -1.11                 | 1.11 S      | 0.08 W   | 1.12          | 183.95      | 0.02                     | 0.00                |
| 4        | MWD              | 386.00            | 0.20              | 307.00        | 92                 | 385.99                   | -1.20                 | 1.23 S      | 0.13 E   | 1.24          | 173.85      | 0.76                     | -0.33               |
| 5        | MWD              | 510.00            | 0.70              | 255.00        | 124                | 509.99                   | -1.40                 | 1.30 S      | 0.77 W   | 1.51          | 210.69      | 0.48                     | 0.40                |
| 6        | MWD              | 602.00            | 1.10              | 264.50        | 92                 | 601.98                   | -1.85                 | 1.53 S      | 2.19 W   | 2.67          | 235.10      | 0.46                     | 0.43                |
| 7        | MWD              | 695.00            | 0.70              | 256.20        | 93                 | 694.97                   | -2.28                 | 1.75 S      | 3.63 W   | 4.03          | 244.27      | 0.45                     | -0.43               |
| 8        | MWD              | 786.00            | 0.50              | 60.20         | 91                 | 785.96                   | -2.25                 | 1.69 S      | 3.83 W   | 4.18          | 246.23      | 1.31                     | -0.22               |
| 9        | MWD              | 881.00            | 0.90              | 25.40         | 95                 | 880.96                   | -1.27                 | 0.81 S      | 3.15 W   | 3.25          | 255.64      | 0.60                     | 0.42                |
| 10       | MWD              | 976.00            | 1.20              | 49.50         | 95                 | 975.94                   | 0.19                  | 0.51 N      | 2.07 W   | 2.14          | 283.92      | 0.56                     | 0.32                |
| 11       | MWD              | 1071.00           | 0.90              | 15.40         | 95                 | 1070.93                  | 1.69                  | 1.88 N      | 1.12 W   | 2.19          | 329.25      | 0.71                     | -0.32               |
| 12       | MWD              | 1166.00           | 1.60              | 46.30         | 95                 | 1165.90                  | 3.48                  | 3.51 N      | 0.04 E   | 3.51          | 0.63        | 1.00                     | 0.74                |
| 13       | MWD              | 1209.00           | 1.20              | 17.00         | 43                 | 1208.89                  | 4.40                  | 4.36 N      | 0.60 E   | 4.40          | 7.89        | 1.88                     | -0.93               |
| 14       | MWD              | 1267.00           | 0.70              | 28.90         | 58                 | 1266.88                  | 5.33                  | 5.25 N      | 0.95 E   | 5.34          | 10.29       | 0.92                     | -0.86               |
| 15       | MWD              | 1362.00           | 0.40              | 32.40         | 95                 | 1361.88                  | 6.18                  | 6.04 N      | 1.41 E   | 6.20          | 13.16       | 0.32                     | -0.32               |
| 16       | MWD              | 1457.00           | 1.40              | 88.90         | 95                 | 1456.87                  | 6.69                  | 6.34 N      | 2.75 E   | 6.91          | 23.44       | 1.29                     | 1.05                |
| 17       | MWD              | 1552.00           | 3.50              | 91.70         | 95                 | 1551.78                  | 7.24                  | 6.28 N      | 6.81 E   | 9.26          | 47.32       | 2.21                     | 2.21                |
| 18       | MWD              | 1646.00           | 3.70              | 93.80         | 94                 | 1645.59                  | 7.85                  | 5.99 N      | 12.70 E  | 14.05         | 64.75       | 0.25                     | 0.21                |
| 19       | MWD              | 1741.00           | 3.50              | 93.60         | 95                 | 1740.40                  | 8.37                  | 5.61 N      | 18.66 E  | 19.48         | 73.27       | 0.21                     | -0.21               |
| 20       | MWD              | 1931.00           | 3.30              | 90.80         | 190                | 1930.07                  | 9.65                  | 5.17 N      | 29.91 E  | 30.35         | 80.20       | 0.14                     | -0.11               |
| 21       | MWD              | 2026.00           | 4.40              | 88.70         | 95                 | 2024.85                  | 10.66                 | 5.21 N      | 36.29 E  | 36.66         | 81.83       | 1.17                     | 1.16                |
| 22       | MWD              | 2120.00           | 4.80              | 85.00         | 94                 | 2118.55                  | 12.22                 | 5.63 N      | 43.81 E  | 44.17         | 82.67       | 0.53                     | 0.43                |
| 23       | MWD              | 2215.00           | 5.30              | 86.40         | 95                 | 2213.18                  | 14.10                 | 6.26 N      | 52.15 E  | 52.52         | 83.16       | 0.54                     | 0.53                |
| 24       | MWD              | 2310.00           | 5.10              | 85.20         | 95                 | 2307.79                  | 16.02                 | 6.89 N      | 60.74 E  | 61.13         | 83.53       | 0.24                     | -0.21               |
| 25       | MWD              | 2404.00           | 5.10              | 92.00         | 94                 | 2401.42                  | 17.49                 | 7.09 N      | 69.08 E  | 69.44         | 84.14       | 0.64                     | 0.00                |
| 26       | MWD              | 2499.00           | 5.50              | 102.20        | 95                 | 2496.01                  | 17.71                 | 5.98 N      | 77.75 E  | 77.98         | 85.60       | 1.08                     | 0.42                |
| 27       | MWD              | 2594.00           | 5.50              | 100.80        | 95                 | 2590.58                  | 17.27                 | 4.16 N      | 86.67 E  | 86.77         | 87.25       | 0.14                     | 0.00                |
| 28       | MWD              | 2689.00           | 5.50              | 98.00         | 95                 | 2685.14                  | 17.16                 | 2.68 N      | 95.65 E  | 95.69         | 88.40       | 0.28                     | 0.00                |
| 29       | MWD              | 2783.00           | 5.10              | 95.50         | 94                 | 2778.74                  | 17.46                 | 1.65 N      | 104.27 E | 104.28        | 89.09       | 0.49                     | -0.43               |
| 30       | MWD              | 2878.00           | 5.30              | 97.30         | 95                 | 2873.35                  | 17.80                 | 0.69 N      | 112.82 E | 112.83        | 89.65       | 0.27                     | 0.21                |
| 31       | MWD              | 2973.00           | 5.30              | 93.10         | 95                 | 2967.94                  | 18.34                 | 0.11 S      | 121.56 E | 121.56        | 90.05       | 0.41                     | 0.00                |
| 32       | MWD              | 3068.00           | 5.10              | 88.90         | 95                 | 3062.55                  | 19.50                 | 0.26 S      | 130.16 E | 130.16        | 90.12       | 0.45                     | -0.21               |
| 33       | MWD              | 3162.00           | 5.10              | 94.00         | 94                 | 3156.18                  | 20.55                 | 0.47 S      | 138.50 E | 138.51        | 90.20       | 0.48                     | 0.00                |
| 34       | MWD              | 3257.00           | 5.10              | 89.20         | 95                 | 3250.80                  | 21.60                 | 0.71 S      | 146.94 E | 146.94        | 90.28       | 0.45                     | 0.00                |

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|----------|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|
|          |                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |
| 35       | MWD              | 3352.00           | 5.10              | 82.70         | 95                 | 3345.43                  | 23.47                 | 0.11 S      | 155.35 E | 155.35        | 90.04       | 0.61                     | 0.00                |
| 36       | MWD              | 3446.00           | 5.30              | 79.20         | 94                 | 3439.04                  | 26.07                 | 1.23 N      | 163.76 E | 163.76        | 89.57       | 0.40                     | 0.21                |
| 37       | MWD              | 3541.00           | 5.80              | 81.70         | 95                 | 3533.60                  | 28.94                 | 2.75 N      | 172.82 E | 172.84        | 89.09       | 0.58                     | 0.53                |
| 38       | MWD              | 3636.00           | 6.00              | 86.00         | 95                 | 3628.09                  | 31.44                 | 3.78 N      | 182.52 E | 182.56        | 88.81       | 0.51                     | 0.21                |
| 39       | MWD              | 3731.00           | 5.60              | 89.70         | 95                 | 3722.61                  | 33.27                 | 4.16 N      | 192.11 E | 192.15        | 88.76       | 0.58                     | -0.42               |
| 40       | MWD              | 3825.00           | 5.10              | 89.90         | 94                 | 3816.20                  | 34.63                 | 4.19 N      | 200.87 E | 200.92        | 88.81       | 0.53                     | -0.53               |
| 41       | MWD              | 3920.00           | 4.80              | 90.10         | 95                 | 3910.84                  | 35.87                 | 4.19 N      | 209.07 E | 209.11        | 88.85       | 0.32                     | -0.32               |
| 42       | MWD              | 4015.00           | 4.60              | 87.50         | 95                 | 4005.52                  | 37.21                 | 4.35 N      | 216.85 E | 216.90        | 88.85       | 0.31                     | -0.21               |
| 43       | MWD              | 4110.00           | 4.60              | 91.00         | 95                 | 4100.22                  | 38.46                 | 4.45 N      | 224.47 E | 224.51        | 88.87       | 0.30                     | 0.00                |
| 44       | MWD              | 4204.00           | 4.40              | 91.10         | 94                 | 4193.93                  | 39.45                 | 4.31 N      | 231.84 E | 231.88        | 88.93       | 0.21                     | -0.21               |
| 45       | MWD              | 4299.00           | 4.00              | 86.60         | 95                 | 4288.67                  | 40.63                 | 4.44 N      | 238.79 E | 238.83        | 88.94       | 0.55                     | -0.42               |
| 46       | MWD              | 4394.00           | 3.90              | 90.80         | 95                 | 4383.45                  | 41.77                 | 4.59 N      | 245.33 E | 245.37        | 88.93       | 0.32                     | -0.11               |
| 47       | MWD              | 4489.00           | 4.40              | 93.30         | 95                 | 4478.20                  | 42.56                 | 4.33 N      | 252.20 E | 252.24        | 89.02       | 0.56                     | 0.53                |
| 48       | MWD              | 4584.00           | 4.60              | 94.30         | 95                 | 4572.90                  | 43.20                 | 3.84 N      | 259.63 E | 259.66        | 89.15       | 0.23                     | 0.21                |
| 49       | MWD              | 4678.00           | 4.40              | 95.50         | 94                 | 4666.61                  | 43.70                 | 3.21 N      | 266.98 E | 267.00        | 89.31       | 0.24                     | -0.21               |
| 50       | MWD              | 4868.00           | 5.10              | 106.30        | 190                | 4855.96                  | 42.99                 | 0.14 N      | 282.34 E | 282.34        | 89.97       | 0.60                     | 0.37                |
| 51       | MWD              | 4963.00           | 5.60              | 108.50        | 95                 | 4950.55                  | 41.65                 | 2.51 S      | 290.79 E | 290.80        | 90.50       | 0.57                     | 0.53                |
| 52       | MWD              | 5000.00           | 5.10              | 107.80        | 37                 | 4987.39                  | 41.09                 | 3.59 S      | 294.07 E | 294.09        | 90.70       | 1.36                     | -1.35               |
| 53       | MWD              | 5137.00           | 4.80              | 107.10        | 137                | 5123.88                  | 39.29                 | 7.14 S      | 305.35 E | 305.43        | 91.34       | 0.22                     | -0.22               |
| 54       | MWD              | 5232.00           | 5.60              | 91.50         | 95                 | 5218.49                  | 39.30                 | 8.43 S      | 313.78 E | 313.89        | 91.54       | 1.70                     | 0.84                |
| 55       | MWD              | 5327.00           | 6.30              | 90.10         | 95                 | 5312.98                  | 40.66                 | 8.56 S      | 323.63 E | 323.74        | 91.51       | 0.75                     | 0.74                |
| 56       | MWD              | 5421.00           | 6.70              | 86.90         | 94                 | 5406.37                  | 42.56                 | 8.27 S      | 334.26 E | 334.36        | 91.42       | 0.57                     | 0.43                |
| 57       | MWD              | 5516.00           | 6.90              | 85.30         | 95                 | 5500.71                  | 45.02                 | 7.50 S      | 345.48 E | 345.56        | 91.24       | 0.29                     | 0.21                |
| 58       | MWD              | 5611.00           | 6.70              | 86.40         | 95                 | 5595.04                  | 47.53                 | 6.69 S      | 356.70 E | 356.76        | 91.07       | 0.25                     | -0.21               |
| 59       | MWD              | 5706.00           | 6.30              | 86.90         | 95                 | 5689.43                  | 49.78                 | 6.06 S      | 367.43 E | 367.48        | 90.94       | 0.43                     | -0.42               |
| 60       | MWD              | 5800.00           | 6.20              | 84.30         | 94                 | 5782.87                  | 52.10                 | 5.27 S      | 377.63 E | 377.67        | 90.80       | 0.32                     | -0.11               |
| 61       | MWD              | 5895.00           | 7.00              | 77.80         | 95                 | 5877.24                  | 55.45                 | 3.54 S      | 388.40 E | 388.41        | 90.52       | 1.15                     | 0.84                |
| 62       | MWD              | 5990.00           | 7.40              | 77.40         | 95                 | 5971.49                  | 59.74                 | 0.98 S      | 400.03 E | 400.03        | 90.14       | 0.42                     | 0.42                |
| 63       | MWD              | 6085.00           | 7.20              | 76.60         | 95                 | 6065.72                  | 64.21                 | 1.73 N      | 411.79 E | 411.79        | 89.76       | 0.24                     | -0.21               |
| 64       | MWD              | 6179.00           | 7.20              | 80.60         | 94                 | 6158.98                  | 68.26                 | 4.06 N      | 423.33 E | 423.35        | 89.45       | 0.53                     | 0.00                |
| 65       | MWD              | 6274.00           | 6.90              | 79.40         | 95                 | 6253.26                  | 72.01                 | 6.08 N      | 434.81 E | 434.85        | 89.20       | 0.35                     | -0.32               |
| 66       | MWD              | 6369.00           | 7.20              | 82.70         | 95                 | 6347.54                  | 75.54                 | 7.89 N      | 446.33 E | 446.40        | 88.99       | 0.53                     | 0.32                |
| 67       | MWD              | 6464.00           | 7.40              | 86.60         | 95                 | 6441.77                  | 78.47                 | 9.01 N      | 458.34 E | 458.43        | 88.87       | 0.56                     | 0.21                |
| 68       | MWD              | 6558.00           | 7.00              | 87.30         | 94                 | 6535.03                  | 80.87                 | 9.63 N      | 470.10 E | 470.20        | 88.83       | 0.44                     | -0.43               |
| 69       | MWD              | 6653.00           | 7.00              | 88.00         | 95                 | 6629.32                  | 83.10                 | 10.11 N     | 481.67 E | 481.78        | 88.80       | 0.09                     | 0.00                |
| 70       | MWD              | 6748.00           | 6.90              | 87.50         | 95                 | 6723.63                  | 85.29                 | 10.56 N     | 493.16 E | 493.27        | 88.77       | 0.12                     | -0.11               |
| 71       | MWD              | 6937.00           | 6.50              | 84.50         | 189                | 6911.34                  | 90.13                 | 12.08 N     | 515.15 E | 515.29        | 88.66       | 0.28                     | -0.21               |
| 72       | MWD              | 7032.00           | 6.20              | 86.00         | 95                 | 7005.75                  | 92.58                 | 12.95 N     | 525.62 E | 525.78        | 88.59       | 0.36                     | -0.32               |



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|----------|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|
|          |                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |
| 73       | MWD              | 7127.00           | 6.30              | 91.30         | 95                 | 7100.19                  | 94.39                 | 13.19 N     | 535.95 E | 536.11        | 88.59       | 0.62                     | 0.11                |
| 74       | MWD              | 7221.00           | 6.00              | 92.00         | 94                 | 7193.65                  | 95.63                 | 12.91 N     | 546.01 E | 546.16        | 88.65       | 0.33                     | -0.32               |
| 75       | MWD              | 7316.00           | 6.20              | 87.30         | 95                 | 7288.11                  | 97.23                 | 12.97 N     | 556.10 E | 556.25        | 88.66       | 0.57                     | 0.21                |
| 76       | MWD              | 7411.00           | 6.00              | 88.90         | 95                 | 7382.57                  | 99.09                 | 13.31 N     | 566.19 E | 566.34        | 88.65       | 0.28                     | -0.21               |
| 77       | MWD              | 7506.00           | 5.80              | 90.60         | 95                 | 7477.07                  | 100.62                | 13.36 N     | 575.95 E | 576.11        | 88.67       | 0.28                     | -0.21               |
| 78       | MWD              | 7600.00           | 6.90              | 86.20         | 94                 | 7570.49                  | 102.51                | 13.68 N     | 586.33 E | 586.49        | 88.66       | 1.28                     | 1.17                |
| 79       | MWD              | 7695.00           | 7.00              | 83.60         | 95                 | 7664.79                  | 105.26                | 14.70 N     | 597.78 E | 597.96        | 88.59       | 0.35                     | 0.11                |
| 80       | MWD              | 7885.00           | 5.50              | 85.30         | 190                | 7853.66                  | 110.40                | 16.74 N     | 618.36 E | 618.59        | 88.45       | 0.80                     | -0.79               |
| 81       | MWD              | 7980.00           | 5.60              | 83.90         | 95                 | 7948.21                  | 112.64                | 17.61 N     | 627.51 E | 627.76        | 88.39       | 0.18                     | 0.11                |
| 82       | MWD              | 8074.00           | 5.80              | 91.30         | 94                 | 8041.75                  | 114.43                | 17.99 N     | 636.82 E | 637.07        | 88.38       | 0.81                     | 0.21                |
| 83       | MWD              | 8264.00           | 5.10              | 92.00         | 190                | 8230.89                  | 116.66                | 17.47 N     | 654.86 E | 655.09        | 88.47       | 0.37                     | -0.37               |
| 84       | MWD              | 8358.00           | 4.80              | 92.00         | 94                 | 8324.54                  | 117.61                | 17.19 N     | 662.96 E | 663.18        | 88.51       | 0.32                     | -0.32               |
| 85       | MWD              | 8453.00           | 4.60              | 92.90         | 95                 | 8419.22                  | 118.47                | 16.86 N     | 670.74 E | 670.95        | 88.56       | 0.22                     | -0.21               |
| 86       | MWD              | 8643.00           | 3.30              | 93.30         | 190                | 8608.76                  | 119.76                | 16.16 N     | 683.81 E | 684.00        | 88.65       | 0.68                     | -0.68               |
| 87       | MWD              | 8738.00           | 3.20              | 95.40         | 95                 | 8703.61                  | 120.17                | 15.75 N     | 689.18 E | 689.36        | 88.69       | 0.16                     | -0.11               |
| 88       | MWD              | 8832.00           | 2.60              | 102.40        | 94                 | 8797.49                  | 120.19                | 15.05 N     | 693.87 E | 694.04        | 88.76       | 0.74                     | -0.64               |
| 89       | MWD              | 8927.00           | 2.50              | 95.90         | 95                 | 8892.40                  | 120.15                | 14.37 N     | 698.04 E | 698.19        | 88.82       | 0.32                     | -0.11               |
| 90       | MWD              | 9022.00           | 2.10              | 99.40         | 95                 | 8987.32                  | 120.23                | 13.87 N     | 701.82 E | 701.95        | 88.87       | 0.45                     | -0.42               |
| 91       | MWD              | 9117.00           | 1.60              | 104.20        | 95                 | 9082.27                  | 120.09                | 13.26 N     | 704.82 E | 704.94        | 88.92       | 0.55                     | -0.53               |
| 92       | MWD              | 9211.00           | 1.20              | 104.30        | 94                 | 9176.24                  | 119.87                | 12.70 N     | 707.04 E | 707.16        | 88.97       | 0.43                     | -0.43               |
| 93       | MWD              | 9306.00           | 1.40              | 89.70         | 95                 | 9271.22                  | 119.95                | 12.46 N     | 709.17 E | 709.28        | 88.99       | 0.41                     | 0.21                |
| 94       | MWD              | 9401.00           | 1.20              | 91.00         | 95                 | 9366.19                  | 120.27                | 12.45 N     | 711.32 E | 711.43        | 89.00       | 0.21                     | -0.21               |
| 95       | MWD              | 9496.00           | 1.40              | 77.80         | 95                 | 9461.17                  | 120.82                | 12.68 N     | 713.45 E | 713.57        | 88.98       | 0.38                     | 0.21                |
| 96       | MWD              | 9591.00           | 1.20              | 71.80         | 95                 | 9556.14                  | 121.68                | 13.23 N     | 715.53 E | 715.65        | 88.94       | 0.25                     | -0.21               |
| 97       | MWD              | 9685.00           | 1.90              | 106.10        | 94                 | 9650.11                  | 121.93                | 13.11 N     | 717.96 E | 718.08        | 88.95       | 1.20                     | 0.74                |
| 98       | MWD              | 9785.00           | 0.90              | 121.40        | 100                | 9750.08                  | 121.41                | 12.24 N     | 720.23 E | 720.33        | 89.03       | 1.06                     | -1.00               |
| 99       | MWD              | 9880.00           | 3.50              | 144.90        | 95                 | 9845.00                  | 119.03                | 9.48 N      | 722.53 E | 722.59        | 89.25       | 2.84                     | 2.74                |
| 100      | MWD              | 9975.00           | 4.60              | 120.30        | 95                 | 9939.77                  | 115.54                | 5.18 N      | 727.49 E | 727.51        | 89.59       | 2.14                     | 1.16                |
| 101      | MWD              | 10070.00          | 4.00              | 132.80        | 95                 | 10034.51                 | 112.28                | 1.01 N      | 733.21 E | 733.21        | 89.92       | 1.17                     | -0.63               |
| 102      | MWD              | 10164.00          | 3.00              | 136.00        | 94                 | 10128.33                 | 108.96                | 2.99 S      | 737.32 E | 737.33        | 90.23       | 1.08                     | -1.06               |
| 103      | MWD              | 10259.00          | 2.50              | 133.90        | 95                 | 10223.22                 | 106.26                | 6.21 S      | 740.54 E | 740.57        | 90.48       | 0.54                     | -0.53               |
| 104      | MWD              | 10354.00          | 2.60              | 133.50        | 95                 | 10318.13                 | 103.83                | 9.13 S      | 743.60 E | 743.66        | 90.70       | 0.11                     | 0.11                |
| 105      | MWD              | 10449.00          | 2.30              | 141.20        | 95                 | 10413.04                 | 101.32                | 12.10 S     | 746.36 E | 746.46        | 90.93       | 0.47                     | -0.32               |
| 106      | MWD              | 10550.00          | 2.10              | 142.50        | 101                | 10513.97                 | 98.67                 | 15.15 S     | 748.75 E | 748.91        | 91.16       | 0.20                     | -0.20               |
| 107      | MWD              | 10598.00          | 3.70              | 46.30         | 48                 | 10561.92                 | 99.29                 | 14.78 S     | 750.41 E | 750.56        | 91.13       | 9.26                     | 3.33                |
| 108      | MWD              | 10645.00          | 9.00              | 25.80         | 47                 | 10608.62                 | 104.01                | 10.42 S     | 753.11 E | 753.18        | 90.79       | 12.09                    | 11.28               |
| 109      | MWD              | 10693.00          | 15.00             | 22.60         | 48                 | 10655.55                 | 113.64                | 1.29 S      | 757.13 E | 757.13        | 90.10       | 12.57                    | 12.50               |
| 110      | MWD              | 10740.00          | 18.70             | 27.70         | 47                 | 10700.53                 | 126.67                | 11.00 N     | 762.98 E | 763.05        | 89.17       | 8.47                     | 7.87                |



# DRILTECH MWD SURVEY REPORT

Company: EOG Resources, Inc  
Well: Frazier 34 State Com #503H  
Location: Lea Co., NM  
Rig: H&P 260

Job Number: 2015-050-EODT-NM  
Vertical Section Plane: 8.73  
WELL API #: 30-025-42388  
Tie Into: Surface

Calculation Method Minimum Curvature

| Survey # | Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') |
|----------|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|
|          |                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |
| 111      | MWD              | 10787.00          | 24.30             | 22.10         | 47                 | 10744.25                 | 143.22                | 26.64 N     | 770.12 E | 770.58        | 88.02       | 12.68                    | 11.91               |
| 112      | MWD              | 10834.00          | 31.00             | 19.60         | 47                 | 10785.86                 | 164.54                | 47.03 N     | 777.83 E | 779.25        | 86.54       | 14.46                    | 14.26               |
| 113      | MWD              | 10882.00          | 34.50             | 20.80         | 48                 | 10826.22                 | 189.98                | 71.39 N     | 786.81 E | 790.04        | 84.82       | 7.42                     | 7.29                |
| 114      | MWD              | 10929.00          | 38.00             | 18.50         | 47                 | 10864.12                 | 217.27                | 97.56 N     | 796.13 E | 802.08        | 83.01       | 7.99                     | 7.45                |
| 115      | MWD              | 10977.00          | 44.20             | 14.90         | 48                 | 10900.28                 | 248.50                | 127.78 N    | 805.13 E | 815.20        | 80.98       | 13.82                    | 12.92               |
| 116      | MWD              | 11024.00          | 51.20             | 12.40         | 47                 | 10931.89                 | 283.11                | 161.54 N    | 813.28 E | 829.17        | 78.77       | 15.40                    | 14.89               |
| 117      | MWD              | 11072.00          | 55.10             | 9.40          | 48                 | 10960.68                 | 321.48                | 199.25 N    | 820.52 E | 844.37        | 76.35       | 9.54                     | 8.13                |
| 118      | MWD              | 11119.00          | 59.80             | 7.80          | 47                 | 10985.96                 | 361.08                | 238.41 N    | 826.43 E | 860.13        | 73.91       | 10.40                    | 10.00               |
| 119      | MWD              | 11167.00          | 62.50             | 5.20          | 48                 | 11009.12                 | 403.08                | 280.17 N    | 831.17 E | 877.12        | 71.37       | 7.36                     | 5.63                |
| 120      | MWD              | 11214.00          | 65.30             | 3.10          | 47                 | 11029.80                 | 445.15                | 322.26 N    | 834.22 E | 894.30        | 68.88       | 7.18                     | 5.96                |
| 121      | MWD              | 11261.00          | 65.60             | 2.40          | 47                 | 11049.33                 | 487.67                | 364.97 N    | 836.27 E | 912.44        | 66.42       | 1.50                     | 0.64                |
| 122      | MWD              | 11308.00          | 68.40             | 2.90          | 47                 | 11067.69                 | 530.68                | 408.18 N    | 838.27 E | 932.37        | 64.04       | 6.04                     | 5.96                |
| 123      | MWD              | 11356.00          | 75.30             | 3.10          | 48                 | 11082.63                 | 576.04                | 453.70 N    | 840.66 E | 955.28        | 61.64       | 14.38                    | 14.38               |
| 124      | MWD              | 11403.00          | 75.50             | 2.90          | 47                 | 11094.48                 | 621.29                | 499.12 N    | 843.04 E | 979.71        | 59.37       | 0.59                     | 0.43                |
| 125      | MWD              | 11451.00          | 75.80             | 2.20          | 48                 | 11106.38                 | 667.52                | 545.58 N    | 845.11 E | 1005.91       | 57.15       | 1.54                     | 0.62                |
| 126      | MWD              | 11498.00          | 75.80             | 1.50          | 47                 | 11117.91                 | 712.76                | 591.12 N    | 846.58 E | 1032.53       | 55.08       | 1.44                     | 0.00                |
| 127      | MWD              | 11546.00          | 80.20             | 1.30          | 48                 | 11127.88                 | 759.32                | 638.04 N    | 847.72 E | 1061.01       | 53.03       | 9.18                     | 9.17                |
| 128      | MWD              | 11593.00          | 84.80             | 1.70          | 47                 | 11134.02                 | 805.53                | 684.61 N    | 848.94 E | 1090.60       | 51.12       | 9.82                     | 9.79                |
| 129      | MWD              | 11694.00          | 88.90             | 2.70          | 101                | 11139.57                 | 905.70                | 785.36 N    | 852.82 E | 1159.35       | 47.36       | 4.18                     | 4.06                |
| 130      | MWD              | 11789.00          | 89.00             | 2.20          | 95                 | 11141.31                 | 1000.12               | 880.26 N    | 856.88 E | 1228.45       | 44.23       | 0.54                     | 0.11                |
| 131      | MWD              | 11883.00          | 89.20             | 1.70          | 94                 | 11142.78                 | 1093.45               | 974.19 N    | 860.08 E | 1299.53       | 41.44       | 0.57                     | 0.21                |
| 132      | MWD              | 11978.00          | 88.70             | 1.50          | 95                 | 11144.52                 | 1187.70               | 1069.14 N   | 862.73 E | 1373.81       | 38.90       | 0.57                     | -0.53               |
| 133      | MWD              | 12073.00          | 89.40             | 0.80          | 95                 | 11146.10                 | 1281.85               | 1164.11 N   | 864.63 E | 1450.08       | 36.60       | 1.04                     | 0.74                |
| 134      | MWD              | 12167.00          | 89.70             | 359.20        | 94                 | 11146.84                 | 1374.76               | 1258.10 N   | 864.63 E | 1526.57       | 34.50       | 1.73                     | 0.32                |
| 135      | MWD              | 12262.00          | 90.40             | 1.00          | 95                 | 11146.75                 | 1468.68               | 1353.09 N   | 864.80 E | 1605.85       | 32.58       | 2.03                     | 0.74                |
| 136      | MWD              | 12357.00          | 91.30             | 359.60        | 95                 | 11145.34                 | 1562.64               | 1448.08 N   | 865.30 E | 1686.91       | 30.86       | 1.75                     | 0.95                |
| 137      | MWD              | 12451.00          | 92.20             | 359.70        | 94                 | 11142.47                 | 1655.41               | 1542.03 N   | 864.72 E | 1767.94       | 29.28       | 0.96                     | 0.96                |
| 138      | MWD              | 12546.00          | 90.40             | 358.90        | 95                 | 11140.32                 | 1749.10               | 1637.00 N   | 863.56 E | 1850.81       | 27.81       | 2.07                     | -1.89               |
| 139      | MWD              | 12641.00          | 90.60             | 357.50        | 95                 | 11139.49                 | 1842.50               | 1731.94 N   | 860.58 E | 1933.97       | 26.42       | 1.49                     | 0.21                |
| 140      | MWD              | 12736.00          | 91.30             | 358.00        | 95                 | 11137.91                 | 1935.74               | 1826.86 N   | 856.85 E | 2017.82       | 25.13       | 0.91                     | 0.74                |
| 141      | MWD              | 12830.00          | 89.90             | 357.50        | 94                 | 11136.93                 | 2028.01               | 1920.78 N   | 853.16 E | 2101.73       | 23.95       | 1.58                     | -1.49               |
| 142      | MWD              | 12925.00          | 89.90             | 356.60        | 95                 | 11137.10                 | 2121.05               | 2015.65 N   | 848.27 E | 2186.87       | 22.82       | 0.95                     | 0.00                |
| 143      | MWD              | 13020.00          | 89.20             | 357.30        | 95                 | 11137.84                 | 2214.04               | 2110.51 N   | 843.22 E | 2272.72       | 21.78       | 1.04                     | -0.74               |
| 144      | MWD              | 13115.00          | 89.40             | 356.20        | 95                 | 11139.00                 | 2306.96               | 2205.35 N   | 837.83 E | 2359.14       | 20.80       | 1.18                     | 0.21                |
| 145      | MWD              | 13210.00          | 89.20             | 355.90        | 95                 | 11140.16                 | 2399.64               | 2300.12 N   | 831.29 E | 2445.73       | 19.87       | 0.38                     | -0.21               |
| 146      | MWD              | 13304.00          | 91.00             | 357.80        | 94                 | 11140.00                 | 2491.62               | 2393.97 N   | 826.12 E | 2532.50       | 19.04       | 2.78                     | 1.91                |
| 147      | MWD              | 13399.00          | 91.80             | 358.20        | 95                 | 11137.68                 | 2584.93               | 2488.88 N   | 822.81 E | 2621.36       | 18.29       | 0.94                     | 0.84                |
| 148      | MWD              | 13494.00          | 91.10             | 359.70        | 95                 | 11135.27                 | 2678.51               | 2583.83 N   | 821.07 E | 2711.15       | 17.63       | 1.74                     | -0.74               |

# DRILTECH MWD SURVEY REPORT

|           |                            |
|-----------|----------------------------|
| Company:  | EOG Resources, Inc         |
| Well:     | Frazier 34 State Com #503H |
| Location: | Lea Co., NM                |
| Rig:      | H&P 260                    |

|                         |                  |
|-------------------------|------------------|
| Job Number:             | 2015-050-EODT-NM |
| Vertical Section Plane: | 8.73             |
| WELL API #:             | 30-025-42388     |
| Tie Into:               | Surface          |

Calculation Method Minimum Curvature

| Survey # | Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          |        | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') |       |
|----------|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|--------|---------------|-------------|--------------------------|---------------------|-------|
|          |                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) |        | Distance (ft) | Angle (deg) |                          |                     |       |
| 149      | MWD              | 13589.00          | 90.30             | 359.40        | 95                 | 11134.11                 | 2772.29               | 2678.82     | N        | 820.32 | E             | 2801.61     | 17.03                    | 0.90                | -0.84 |
| 150      | MWD              | 13683.00          | 90.80             | 359.20        | 94                 | 11133.21                 | 2865.02               | 2772.81     | N        | 819.17 | E             | 2891.28     | 16.46                    | 0.57                | 0.53  |
| 151      | MWD              | 13778.00          | 89.00             | 1.70          | 95                 | 11133.38                 | 2959.01               | 2867.79     | N        | 819.92 | E             | 2982.70     | 15.96                    | 3.24                | -1.89 |
| 152      | MWD              | 13873.00          | 89.20             | 0.60          | 95                 | 11134.87                 | 3053.17               | 2962.76     | N        | 821.83 | E             | 3074.63     | 15.50                    | 1.18                | 0.21  |
| 153      | MWD              | 13968.00          | 89.60             | 1.10          | 95                 | 11135.86                 | 3147.27               | 3057.74     | N        | 823.23 | E             | 3166.62     | 15.07                    | 0.67                | 0.42  |
| 154      | MWD              | 14062.00          | 89.60             | 2.00          | 94                 | 11136.52                 | 3240.53               | 3151.71     | N        | 825.78 | E             | 3258.09     | 14.68                    | 0.96                | 0.00  |
| 155      | MWD              | 14157.00          | 88.20             | 1.00          | 95                 | 11138.34                 | 3334.75               | 3246.65     | N        | 828.26 | E             | 3350.64     | 14.31                    | 1.81                | -1.47 |
| 156      | MWD              | 14252.00          | 88.70             | 359.90        | 95                 | 11140.91                 | 3428.72               | 3341.61     | N        | 829.01 | E             | 3442.91     | 13.93                    | 1.27                | 0.53  |
| 157      | MWD              | 14346.00          | 87.80             | 359.90        | 94                 | 11143.78                 | 3521.57               | 3435.57     | N        | 828.85 | E             | 3534.14     | 13.56                    | 0.96                | -0.96 |
| 158      | MWD              | 14441.00          | 88.00             | 0.80          | 95                 | 11147.27                 | 3615.49               | 3530.50     | N        | 829.43 | E             | 3626.62     | 13.22                    | 0.97                | 0.21  |
| 159      | MWD              | 14536.00          | 88.30             | 359.60        | 95                 | 11150.33                 | 3709.39               | 3625.45     | N        | 829.76 | E             | 3719.19     | 12.89                    | 1.30                | 0.32  |
| 160      | MWD              | 14631.00          | 88.30             | 0.60          | 95                 | 11153.15                 | 3803.27               | 3720.41     | N        | 829.92 | E             | 3811.85     | 12.58                    | 1.05                | 0.00  |
| 161      | MWD              | 14725.00          | 89.20             | 0.40          | 94                 | 11155.20                 | 3896.28               | 3814.38     | N        | 830.74 | E             | 3903.80     | 12.29                    | 0.98                | 0.96  |
| 162      | MWD              | 14820.00          | 88.30             | 359.20        | 95                 | 11157.27                 | 3990.10               | 3909.35     | N        | 830.41 | E             | 3996.58     | 11.99                    | 1.58                | -0.95 |
| 163      | MWD              | 14915.00          | 89.90             | 359.90        | 95                 | 11158.77                 | 4083.87               | 4004.34     | N        | 829.67 | E             | 4089.38     | 11.71                    | 1.84                | 1.68  |
| 164      | MWD              | 15010.00          | 90.60             | 0.30          | 95                 | 11158.35                 | 4177.79               | 4099.33     | N        | 829.83 | E             | 4182.48     | 11.44                    | 0.85                | 0.74  |
| 165      | MWD              | 15105.00          | 90.60             | 0.60          | 95                 | 11157.36                 | 4271.80               | 4194.33     | N        | 830.58 | E             | 4275.77     | 11.20                    | 0.32                | 0.00  |
| 166      | MWD              | 15200.00          | 90.30             | 358.70        | 95                 | 11156.61                 | 4365.60               | 4289.32     | N        | 830.00 | E             | 4368.88     | 10.95                    | 2.02                | -0.32 |
| 167      | MWD              | 15294.00          | 90.60             | 359.00        | 94                 | 11155.87                 | 4458.20               | 4383.29     | N        | 828.11 | E             | 4460.83     | 10.70                    | 0.45                | 0.32  |
| 168      | MWD              | 15389.00          | 90.60             | 359.00        | 95                 | 11154.88                 | 4551.83               | 4478.27     | N        | 826.45 | E             | 4553.90     | 10.46                    | 0.00                | 0.00  |
| 169      | MWD              | 15484.00          | 90.40             | 358.70        | 95                 | 11154.05                 | 4645.42               | 4573.25     | N        | 824.55 | E             | 4646.99     | 10.22                    | 0.38                | -0.21 |
| 170      | MWD              | 15579.00          | 90.40             | 359.20        | 95                 | 11153.39                 | 4739.03               | 4668.23     | N        | 822.80 | E             | 4740.19     | 10.00                    | 0.53                | 0.00  |
| 171      | MWD              | 15673.00          | 90.30             | 358.50        | 94                 | 11152.81                 | 4831.64               | 4762.21     | N        | 820.92 | E             | 4832.45     | 9.78                     | 0.75                | -0.11 |
| 172      | MWD              | 15768.00          | 90.10             | 359.40        | 95                 | 11152.48                 | 4925.25               | 4857.19     | N        | 819.18 | E             | 4925.79     | 9.57                     | 0.97                | -0.21 |
| 173      | MWD              | 15863.00          | 89.90             | 359.00        | 95                 | 11152.48                 | 5018.94               | 4952.18     | N        | 817.85 | E             | 5019.26     | 9.38                     | 0.47                | -0.21 |
| 174      | MWD              | 15958.00          | 90.40             | 358.20        | 95                 | 11152.23                 | 5112.46               | 5047.15     | N        | 815.53 | E             | 5112.62     | 9.18                     | 0.99                | 0.53  |
| 175      | MWD              | 16053.00          | 90.30             | 359.40        | 95                 | 11151.65                 | 5206.03               | 5142.13     | N        | 813.54 | E             | 5206.09     | 8.99                     | 1.27                | -0.11 |
| 176      | MWD              | 16148.00          | 89.90             | 359.60        | 95                 | 11151.49                 | 5299.80               | 5237.13     | N        | 812.71 | E             | 5299.81     | 8.82                     | 0.47                | -0.42 |
| 177      | MWD              | 16180.00          | 89.90             | 358.70        | 32                 | 11151.54                 | 5331.36               | 5269.12     | N        | 812.24 | E             | 5331.36     | 8.76                     | 2.81                | 0.00  |
| 178      | PTD              | 16240.00          | 89.90             | 358.70        | 60                 | 11151.65                 | 5390.44               | 5329.11     | N        | 810.88 | E             | 5390.45     | 8.65                     | 0.00                | 0.00  |
|          |                  |                   |                   |               |                    |                          |                       |             |          |        |               |             |                          |                     |       |
|          |                  |                   |                   |               |                    |                          |                       |             |          |        |               |             |                          |                     |       |
|          |                  |                   |                   |               |                    |                          |                       |             |          |        |               |             |                          |                     |       |
|          |                  |                   |                   |               |                    |                          |                       |             |          |        |               |             |                          |                     |       |
|          |                  |                   |                   |               |                    |                          |                       |             |          |        |               |             |                          |                     |       |
|          |                  |                   |                   |               |                    |                          |                       |             |          |        |               |             |                          |                     |       |
|          |                  |                   |                   |               |                    |                          |                       |             |          |        |               |             |                          |                     |       |
|          |                  |                   |                   |               |                    |                          |                       |             |          |        |               |             |                          |                     |       |