

HOBBS OCD

OCT 11 2016

## DRILTECH MWD SURVEY REPORT



Company: EOG Resources, Inc.  
 Well: Black Bear 36 State #701H  
 Location: Lea Co., NM.  
 Rig: H&P 415

Job Number: DM-2016-018-EODT-NM  
 Vertical Section Plane: 183.36  
 Well API Number: 30-025-43006  
 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') | Walk Rate (d/100') |
|----------|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|          |                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
| Tie In   |                  | 0.00              | 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              | 197.00            | 0.50              | 173.50        | 197                | 197.00                   | 0.85                  | 0.85 S      | 0.10 E   | 0.86          | 173.50      | 0.25                     | 0.25                | 88.07              |
| 2        | MWD              | 257.00            | 0.50              | 140.60        | 60                 | 257.00                   | 1.30                  | 1.32 S      | 0.29 E   | 1.35          | 167.45      | 0.47                     | 0.00                | -54.83             |
| 3        | MWD              | 410.00            | 0.70              | 147.30        | 153                | 409.99                   | 2.54                  | 2.62 S      | 1.22 E   | 2.89          | 154.99      | 0.14                     | 0.13                | 4.38               |
| 4        | MWD              | 500.00            | 0.90              | 116.00        | 90                 | 499.98                   | 3.26                  | 3.39 S      | 2.15 E   | 4.02          | 147.58      | 0.53                     | 0.22                | -34.78             |
| 5        | MWD              | 591.00            | 1.20              | 117.70        | 91                 | 590.96                   | 3.93                  | 4.15 S      | 3.64 E   | 5.52          | 138.73      | 0.33                     | 0.33                | 1.87               |
| 6        | MWD              | 774.00            | 1.40              | 110.40        | 183                | 773.92                   | 5.37                  | 5.82 S      | 7.43 E   | 9.44          | 128.05      | 0.14                     | 0.11                | -3.99              |
| 7        | MWD              | 869.00            | 0.70              | 120.90        | 95                 | 868.90                   | 5.98                  | 6.52 S      | 9.02 E   | 11.13         | 125.87      | 0.76                     | -0.74               | 11.05              |
| 8        | MWD              | 963.00            | 1.20              | 150.30        | 94                 | 962.89                   | 7.07                  | 7.67 S      | 10.00 E  | 12.60         | 127.49      | 0.73                     | 0.53                | 31.28              |
| 9        | MWD              | 1047.00           | 1.40              | 168.20        | 84                 | 1046.87                  | 8.80                  | 9.44 S      | 10.64 E  | 14.23         | 131.57      | 0.54                     | 0.24                | 21.31              |
| 10       | MWD              | 1155.00           | 1.90              | 180.50        | 108                | 1154.82                  | 11.86                 | 12.52 S     | 10.90 E  | 16.60         | 138.96      | 0.56                     | 0.46                | 11.39              |
| 11       | MWD              | 1344.00           | 0.50              | 248.30        | 189                | 1343.78                  | 15.34                 | 15.96 S     | 10.10 E  | 18.89         | 147.66      | 0.94                     | -0.74               | 35.87              |
| 12       | MWD              | 1532.00           | 1.80              | 346.60        | 188                | 1531.75                  | 12.86                 | 13.39 S     | 8.66 E   | 15.94         | 147.11      | 1.03                     | 0.69                | 52.29              |
| 13       | MWD              | 1626.00           | 2.60              | 345.20        | 94                 | 1625.68                  | 9.42                  | 9.89 S      | 7.77 E   | 12.58         | 141.85      | 0.85                     | 0.85                | -1.49              |
| 14       | MWD              | 1720.00           | 3.70              | 328.00        | 94                 | 1719.54                  | 4.92                  | 5.26 S      | 5.62 E   | 7.70          | 133.10      | 1.53                     | 1.17                | -18.30             |
| 15       | MWD              | 1909.00           | 5.30              | 320.90        | 189                | 1907.95                  | -6.49                 | 6.69 N      | 3.12 W   | 7.38          | 335.00      | 0.89                     | 0.85                | -3.76              |
| 16       | MWD              | 2004.00           | 5.50              | 319.90        | 95                 | 2002.53                  | -13.04                | 13.58 N     | 8.82 W   | 16.19         | 326.99      | 0.23                     | 0.21                | -1.05              |
| 17       | MWD              | 2098.00           | 5.30              | 320.20        | 94                 | 2096.11                  | -19.47                | 20.36 N     | 14.50 W  | 24.99         | 324.54      | 0.21                     | -0.21               | 0.32               |
| 18       | MWD              | 2193.00           | 5.30              | 322.30        | 95                 | 2190.70                  | -25.98                | 27.20 N     | 19.99 W  | 33.76         | 323.69      | 0.20                     | 0.00                | 2.21               |
| 19       | MWD              | 2287.00           | 5.50              | 321.50        | 94                 | 2284.29                  | -32.61                | 34.16 N     | 25.45 W  | 42.60         | 323.31      | 0.23                     | 0.21                | -0.85              |
| 20       | MWD              | 2382.00           | 5.50              | 309.70        | 95                 | 2378.85                  | -38.70                | 40.63 N     | 31.79 W  | 51.59         | 321.96      | 1.19                     | 0.00                | -12.42             |
| 21       | MWD              | 2476.00           | 5.80              | 310.20        | 94                 | 2472.40                  | -44.22                | 46.57 N     | 38.88 W  | 60.67         | 320.14      | 0.32                     | 0.32                | 0.53               |
| 22       | MWD              | 2571.00           | 6.00              | 311.80        | 95                 | 2566.89                  | -50.18                | 52.98 N     | 46.25 W  | 70.33         | 318.88      | 0.27                     | 0.21                | 1.68               |
| 23       | MWD              | 2665.00           | 6.00              | 316.00        | 94                 | 2660.38                  | -56.56                | 59.79 N     | 53.32 W  | 80.11         | 318.27      | 0.47                     | 0.00                | 4.47               |
| 24       | MWD              | 2760.00           | 5.80              | 312.00        | 95                 | 2754.88                  | -62.92                | 66.57 N     | 60.34 W  | 89.85         | 317.81      | 0.48                     | -0.21               | -4.21              |
| 25       | MWD              | 2854.00           | 5.30              | 305.30        | 94                 | 2848.44                  | -68.19                | 72.26 N     | 67.41 W  | 98.82         | 316.99      | 0.87                     | -0.53               | -7.13              |
| 26       | MWD              | 2948.00           | 4.90              | 291.80        | 94                 | 2942.07                  | -71.75                | 76.26 N     | 74.68 W  | 106.74        | 315.60      | 1.34                     | -0.43               | -14.36             |
| 27       | MWD              | 3043.00           | 4.90              | 288.90        | 95                 | 3036.72                  | -74.12                | 79.08 N     | 82.29 W  | 114.13        | 313.86      | 0.26                     | 0.00                | -3.05              |
| 28       | MWD              | 3138.00           | 4.90              | 291.80        | 95                 | 3131.37                  | -76.49                | 81.90 N     | 89.89 W  | 121.61        | 312.34      | 0.26                     | 0.00                | 3.05               |
| 29       | MWD              | 3232.00           | 4.60              | 294.40        | 94                 | 3225.05                  | -79.12                | 84.95 N     | 97.06 W  | 128.98        | 311.20      | 0.39                     | -0.32               | 2.77               |
| 30       | MWD              | 3326.00           | 4.20              | 297.70        | 94                 | 3318.77                  | -81.89                | 88.11 N     | 103.54 W | 135.95        | 310.40      | 0.50                     | -0.43               | 3.51               |
| 31       | MWD              | 3421.00           | 3.90              | 300.90        | 95                 | 3413.53                  | -84.82                | 91.38 N     | 109.39 W | 142.54        | 309.88      | 0.40                     | -0.32               | 3.37               |
| 32       | MWD              | 3515.00           | 3.70              | 305.30        | 94                 | 3507.33                  | -87.90                | 94.78 N     | 114.61 W | 148.72        | 309.59      | 0.38                     | -0.21               | 4.68               |



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|----------|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|          |                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
| 33       | MWD              | 3609.00           | 3.70              | 307.20        | 94                 | 3601.13                  | -91.19                | 98.37 N     | 119.50 W | 154.78        | 309.46      | 0.13                     | 0.00                | 2.02               |
| 34       | MWD              | 3703.00           | 4.80              | 302.30        | 94                 | 3694.87                  | -94.78                | 102.30 N    | 125.24 W | 161.71        | 309.24      | 1.23                     | 1.17                | -5.21              |
| 35       | MWD              | 3798.00           | 5.10              | 299.70        | 95                 | 3789.52                  | -98.58                | 106.52 N    | 132.27 W | 169.82        | 308.85      | 0.39                     | 0.32                | -2.74              |
| 36       | MWD              | 3892.00           | 5.10              | 301.80        | 94                 | 3883.15                  | -102.43               | 110.79 N    | 139.45 W | 178.10        | 308.47      | 0.20                     | 0.00                | 2.23               |
| 37       | MWD              | 3986.00           | 4.80              | 307.40        | 94                 | 3976.80                  | -106.62               | 115.38 N    | 146.12 W | 186.18        | 308.30      | 0.60                     | -0.32               | 5.96               |
| 38       | MWD              | 4080.00           | 5.30              | 310.70        | 94                 | 4070.43                  | -111.45               | 120.60 N    | 152.54 W | 194.45        | 308.33      | 0.61                     | 0.53                | 3.51               |
| 39       | MWD              | 4175.00           | 5.30              | 311.10        | 95                 | 4165.02                  | -116.80               | 126.34 N    | 159.17 W | 203.22        | 308.44      | 0.04                     | 0.00                | 0.42               |
| 40       | MWD              | 4269.00           | 5.10              | 310.40        | 94                 | 4258.64                  | -121.97               | 131.91 N    | 165.62 W | 211.73        | 308.53      | 0.22                     | -0.21               | -0.74              |
| 41       | MWD              | 4364.00           | 5.10              | 311.40        | 95                 | 4353.26                  | -127.12               | 137.44 N    | 172.01 W | 220.17        | 308.63      | 0.09                     | 0.00                | 1.05               |
| 42       | MWD              | 4458.00           | 4.60              | 309.20        | 94                 | 4446.93                  | -131.90               | 142.58 N    | 178.06 W | 228.11        | 308.69      | 0.57                     | -0.53               | -2.34              |
| 43       | MWD              | 4552.00           | 3.90              | 305.50        | 94                 | 4540.67                  | -135.81               | 146.82 N    | 183.58 W | 235.07        | 308.65      | 0.80                     | -0.74               | -3.94              |
| 44       | MWD              | 4647.00           | 3.50              | 309.90        | 95                 | 4635.47                  | -139.25               | 150.56 N    | 188.44 W | 241.20        | 308.62      | 0.52                     | -0.42               | 4.63               |
| 45       | MWD              | 4741.00           | 3.30              | 298.30        | 94                 | 4729.30                  | -142.10               | 153.68 N    | 193.02 W | 246.73        | 308.53      | 0.76                     | -0.21               | -12.34             |
| 46       | MWD              | 4836.00           | 2.80              | 288.10        | 95                 | 4824.17                  | -143.84               | 155.70 N    | 197.64 W | 251.60        | 308.23      | 0.77                     | -0.53               | -10.74             |
| 47       | MWD              | 4930.00           | 2.30              | 289.30        | 94                 | 4918.08                  | -144.95               | 157.03 N    | 201.60 W | 255.54        | 307.92      | 0.53                     | -0.53               | 1.28               |
| 48       | MWD              | 5025.00           | 2.10              | 295.10        | 95                 | 5013.01                  | -146.12               | 158.40 N    | 204.97 W | 259.05        | 307.70      | 0.31                     | -0.21               | 6.11               |
| 49       | MWD              | 5119.00           | 1.90              | 290.90        | 94                 | 5106.95                  | -147.22               | 159.69 N    | 207.99 W | 262.22        | 307.52      | 0.26                     | -0.21               | -4.47              |
| 50       | MWD              | 5213.00           | 1.90              | 284.90        | 94                 | 5200.90                  | -148.00               | 160.64 N    | 210.95 W | 265.15        | 307.29      | 0.21                     | 0.00                | -6.38              |
| 51       | MWD              | 5308.00           | 2.10              | 287.40        | 95                 | 5295.84                  | -148.74               | 161.57 N    | 214.13 W | 268.25        | 307.04      | 0.23                     | 0.21                | 2.63               |
| 52       | MWD              | 5402.00           | 2.50              | 290.40        | 94                 | 5389.76                  | -149.76               | 162.80 N    | 217.70 W | 271.84        | 306.79      | 0.44                     | 0.43                | 3.19               |
| 53       | MWD              | 5497.00           | 2.60              | 295.40        | 95                 | 5484.67                  | -151.18               | 164.45 N    | 221.59 W | 275.94        | 306.58      | 0.26                     | 0.11                | 5.26               |
| 54       | MWD              | 5591.00           | 2.80              | 294.40        | 94                 | 5578.56                  | -152.80               | 166.31 N    | 225.60 W | 280.28        | 306.40      | 0.22                     | 0.21                | -1.06              |
| 55       | MWD              | 5686.00           | 2.60              | 296.70        | 95                 | 5673.46                  | -154.49               | 168.24 N    | 229.64 W | 284.67        | 306.23      | 0.24                     | -0.21               | 2.42               |
| 56       | MWD              | 5780.00           | 2.80              | 295.10        | 94                 | 5767.35                  | -156.18               | 170.17 N    | 233.63 W | 289.03        | 306.07      | 0.23                     | 0.21                | -1.70              |
| 57       | MWD              | 5875.00           | 2.80              | 294.00        | 95                 | 5862.24                  | -157.86               | 172.10 N    | 237.85 W | 293.58        | 305.89      | 0.06                     | 0.00                | -1.16              |
| 58       | MWD              | 5969.00           | 2.80              | 293.90        | 94                 | 5956.13                  | -159.47               | 173.96 N    | 242.04 W | 298.07        | 305.71      | 0.01                     | 0.00                | -0.11              |
| 59       | MWD              | 6064.00           | 3.00              | 293.70        | 95                 | 6051.01                  | -161.15               | 175.90 N    | 246.44 W | 302.78        | 305.52      | 0.21                     | 0.21                | -0.21              |
| 60       | MWD              | 6158.00           | 3.20              | 293.50        | 94                 | 6144.87                  | -162.91               | 177.93 N    | 251.10 W | 307.75        | 305.32      | 0.21                     | 0.21                | -0.21              |
| 61       | MWD              | 6252.00           | 3.00              | 293.70        | 94                 | 6238.73                  | -164.67               | 179.97 N    | 255.76 W | 312.73        | 305.13      | 0.21                     | -0.21               | 0.21               |
| 62       | MWD              | 6347.00           | 3.20              | 294.90        | 95                 | 6333.59                  | -166.51               | 182.08 N    | 260.44 W | 317.78        | 304.96      | 0.22                     | 0.21                | 1.26               |
| 63       | MWD              | 6441.00           | 3.00              | 296.90        | 94                 | 6427.45                  | -168.45               | 184.30 N    | 265.01 W | 322.80        | 304.82      | 0.24                     | -0.21               | 2.13               |
| 64       | MWD              | 6535.00           | 3.00              | 300.40        | 94                 | 6521.33                  | -170.55               | 186.66 N    | 269.33 W | 327.69        | 304.72      | 0.19                     | 0.00                | 3.72               |
| 65       | MWD              | 6629.00           | 2.80              | 299.00        | 94                 | 6615.21                  | -172.66               | 189.02 N    | 273.46 W | 332.42        | 304.65      | 0.23                     | -0.21               | -1.49              |
| 66       | MWD              | 6724.00           | 2.80              | 299.30        | 95                 | 6710.09                  | -174.68               | 191.28 N    | 277.51 W | 337.04        | 304.58      | 0.02                     | 0.00                | 0.32               |
| 67       | MWD              | 6818.00           | 2.80              | 300.40        | 94                 | 6803.98                  | -176.73               | 193.56 N    | 281.49 W | 341.62        | 304.51      | 0.06                     | 0.00                | 1.17               |
| 68       | MWD              | 6913.00           | 2.60              | 301.60        | 95                 | 6898.87                  | -178.81               | 195.87 N    | 285.33 W | 346.09        | 304.47      | 0.22                     | -0.21               | 1.26               |



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|----------|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|          |                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
| 69       | MWD              | 7007.00           | 2.80              | 301.20        | 94                 | 6992.77                  | -180.89               | 198.17 N    | 289.11 W | 350.51        | 304.43      | 0.21                     | 0.21                | -0.43              |
| 70       | MWD              | 7102.00           | 2.80              | 299.70        | 95                 | 7087.66                  | -183.00               | 200.52 N    | 293.11 W | 355.14        | 304.38      | 0.08                     | 0.00                | -1.58              |
| 71       | MWD              | 7196.00           | 2.80              | 303.20        | 94                 | 7181.54                  | -185.16               | 202.92 N    | 297.02 W | 359.72        | 304.34      | 0.18                     | 0.00                | 3.72               |
| 72       | MWD              | 7290.00           | 2.80              | 301.60        | 94                 | 7275.43                  | -187.39               | 205.38 N    | 300.90 W | 364.31        | 304.32      | 0.08                     | 0.00                | -1.70              |
| 73       | MWD              | 7385.00           | 2.30              | 302.50        | 95                 | 7370.34                  | -189.42               | 207.62 N    | 304.49 W | 368.53        | 304.29      | 0.53                     | -0.53               | 0.95               |
| 74       | MWD              | 7479.00           | 2.10              | 282.30        | 94                 | 7464.27                  | -190.60               | 209.00 N    | 307.76 W | 372.02        | 304.18      | 0.85                     | -0.21               | -21.49             |
| 75       | MWD              | 7573.00           | 1.90              | 303.50        | 94                 | 7558.21                  | -191.65               | 210.23 N    | 310.74 W | 375.17        | 304.08      | 0.81                     | -0.21               | 22.55              |
| 76       | MWD              | 7667.00           | 1.90              | 317.20        | 94                 | 7652.16                  | -193.51               | 212.23 N    | 313.10 W | 378.25        | 304.13      | 0.48                     | 0.00                | 14.57              |
| 77       | MWD              | 7762.00           | 1.40              | 316.40        | 95                 | 7747.12                  | -195.40               | 214.23 N    | 314.97 W | 380.92        | 304.22      | 0.53                     | -0.53               | -0.84              |
| 78       | MWD              | 7857.00           | 0.50              | 310.00        | 95                 | 7842.11                  | -196.44               | 215.33 N    | 316.09 W | 382.47        | 304.26      | 0.95                     | -0.95               | -6.74              |
| 79       | MWD              | 7951.00           | 0.40              | 310.90        | 94                 | 7936.11                  | -196.88               | 215.81 N    | 316.65 W | 383.20        | 304.28      | 0.11                     | -0.11               | 0.96               |
| 80       | MWD              | 8045.00           | 0.40              | 288.90        | 94                 | 8030.10                  | -197.17               | 216.13 N    | 317.21 W | 383.84        | 304.27      | 0.16                     | 0.00                | -23.40             |
| 81       | MWD              | 8139.00           | 0.40              | 220.60        | 94                 | 8124.10                  | -197.00               | 215.99 N    | 317.73 W | 384.19        | 304.21      | 0.48                     | 0.00                | -72.66             |
| 82       | MWD              | 8234.00           | 0.40              | 220.40        | 95                 | 8219.10                  | -196.47               | 215.49 N    | 318.16 W | 384.27        | 304.11      | 0.00                     | 0.00                | -0.21              |
| 83       | MWD              | 8328.00           | 0.40              | 227.40        | 94                 | 8313.10                  | -195.97               | 215.01 N    | 318.62 W | 384.38        | 304.01      | 0.05                     | 0.00                | 7.45               |
| 84       | MWD              | 8422.00           | 0.40              | 257.30        | 94                 | 8407.09                  | -195.64               | 214.72 N    | 319.18 W | 384.68        | 303.93      | 0.22                     | 0.00                | 31.81              |
| 85       | MWD              | 8517.00           | 0.40              | 287.70        | 95                 | 8502.09                  | -195.63               | 214.75 N    | 319.82 W | 385.23        | 303.88      | 0.22                     | 0.00                | 32.00              |
| 86       | MWD              | 8612.00           | 0.20              | 298.10        | 95                 | 8597.09                  | -195.78               | 214.93 N    | 320.28 W | 385.71        | 303.86      | 0.22                     | -0.21               | 10.95              |
| 87       | MWD              | 8706.00           | 0.20              | 300.00        | 94                 | 8691.09                  | -195.93               | 215.09 N    | 320.57 W | 386.04        | 303.86      | 0.01                     | 0.00                | 2.02               |
| 88       | MWD              | 8801.00           | 0.40              | 312.10        | 95                 | 8786.09                  | -196.21               | 215.39 N    | 320.96 W | 386.53        | 303.87      | 0.22                     | 0.21                | 12.74              |
| 89       | MWD              | 8895.00           | 0.40              | 331.10        | 94                 | 8880.09                  | -196.69               | 215.90 N    | 321.36 W | 387.15        | 303.89      | 0.14                     | 0.00                | 20.21              |
| 90       | MWD              | 8989.00           | 0.40              | 314.60        | 94                 | 8974.08                  | -197.19               | 216.42 N    | 321.75 W | 387.76        | 303.93      | 0.12                     | 0.00                | -17.55             |
| 91       | MWD              | 9083.00           | 0.40              | 326.60        | 94                 | 9068.08                  | -197.66               | 216.92 N    | 322.17 W | 388.39        | 303.95      | 0.09                     | 0.00                | 12.77              |
| 92       | MWD              | 9178.00           | 0.40              | 303.70        | 95                 | 9163.08                  | -198.10               | 217.38 N    | 322.62 W | 389.02        | 303.97      | 0.17                     | 0.00                | -24.11             |
| 93       | MWD              | 9272.00           | 0.40              | 311.10        | 94                 | 9257.08                  | -198.46               | 217.78 N    | 323.14 W | 389.68        | 303.98      | 0.05                     | 0.00                | 7.87               |
| 94       | MWD              | 9367.00           | 0.40              | 286.70        | 95                 | 9352.08                  | -198.74               | 218.09 N    | 323.71 W | 390.32        | 303.97      | 0.18                     | 0.00                | -25.68             |
| 95       | MWD              | 9461.00           | 0.40              | 291.60        | 94                 | 9446.07                  | -198.92               | 218.31 N    | 324.33 W | 390.96        | 303.94      | 0.04                     | 0.00                | 5.21               |
| 96       | MWD              | 9556.00           | 0.50              | 288.10        | 95                 | 9541.07                  | -199.13               | 218.56 N    | 325.03 W | 391.68        | 303.92      | 0.11                     | 0.11                | -3.68              |
| 97       | MWD              | 9650.00           | 0.50              | 215.10        | 94                 | 9635.07                  | -198.89               | 218.35 N    | 325.66 W | 392.08        | 303.84      | 0.63                     | 0.00                | -77.66             |
| 98       | MWD              | 9745.00           | 0.90              | 210.50        | 95                 | 9730.06                  | -197.87               | 217.37 N    | 326.28 W | 392.05        | 303.67      | 0.42                     | 0.42                | -4.84              |
| 99       | MWD              | 9839.00           | 0.90              | 191.90        | 94                 | 9824.05                  | -196.48               | 216.01 N    | 326.80 W | 391.74        | 303.46      | 0.31                     | 0.00                | -19.79             |
| 100      | MWD              | 9934.00           | 0.90              | 173.60        | 95                 | 9919.04                  | -195.01               | 214.54 N    | 326.87 W | 390.99        | 303.28      | 0.30                     | 0.00                | -19.26             |
| 101      | MWD              | 10028.00          | 0.70              | 166.10        | 94                 | 10013.03                 | -193.73               | 213.25 N    | 326.65 W | 390.10        | 303.14      | 0.24                     | -0.21               | -7.98              |
| 102      | MWD              | 10122.00          | 0.50              | 179.10        | 94                 | 10107.02                 | -192.78               | 212.28 N    | 326.51 W | 389.45        | 303.03      | 0.26                     | -0.21               | 13.83              |
| 103      | MWD              | 10217.00          | 0.40              | 212.50        | 95                 | 10202.02                 | -192.07               | 211.58 N    | 326.68 W | 389.21        | 302.93      | 0.29                     | -0.11               | 35.16              |
| 104      | MWD              | 10311.00          | 0.70              | 219.70        | 94                 | 10296.02                 | -191.33               | 210.87 N    | 327.22 W | 389.28        | 302.80      | 0.33                     | 0.32                | 7.66               |



# DRILTECH MWD SURVEY REPORT

Company: EOG Resources, Inc.  
 Well: Black Bear 36 State #701H  
 Location: Lea Co., NM.  
 Rig: H&P 415

Job Number: DM-2016-018-EODT-NM  
 Vertical Section Plane: 183.36  
 Well API Number: 30-025-43006  
 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') | Walk Rate (d/100') |
|----------|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|          |                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
| 105      | MWD              | 10405.00          | 0.90              | 228.70        | 94                 | 10390.01                 | -190.34               | 209.94 N    | 328.14 W | 389.55        | 302.61      | 0.25                     | 0.21                | 9.57               |
| 106      | MWD              | 10500.00          | 1.10              | 244.80        | 95                 | 10484.99                 | -189.38               | 209.06 N    | 329.53 W | 390.25        | 302.39      | 0.36                     | 0.21                | 16.95              |
| 107      | MWD              | 10594.00          | 1.10              | 239.40        | 94                 | 10578.97                 | -188.45               | 208.21 N    | 331.12 W | 391.15        | 302.16      | 0.11                     | 0.00                | -5.74              |
| 108      | MWD              | 10689.00          | 1.10              | 240.30        | 95                 | 10673.96                 | -187.44               | 207.30 N    | 332.70 W | 392.00        | 301.93      | 0.02                     | 0.00                | 0.95               |
| 109      | MWD              | 10766.00          | 1.10              | 237.60        | 77                 | 10750.94                 | -186.61               | 206.53 N    | 333.97 W | 392.67        | 301.73      | 0.07                     | 0.00                | -3.51              |
| 110      | MWD              | 10890.00          | 1.20              | 266.10        | 124                | 10874.92                 | -185.75               | 205.81 N    | 336.27 W | 394.25        | 301.47      | 0.46                     | 0.08                | 22.98              |
| 111      | MWD              | 10980.00          | 1.10              | 279.50        | 90                 | 10964.90                 | -185.72               | 205.89 N    | 338.06 W | 395.82        | 301.34      | 0.32                     | -0.11               | 14.89              |
| 112      | MWD              | 11070.00          | 1.20              | 241.00        | 90                 | 11054.88                 | -185.31               | 205.57 N    | 339.74 W | 397.09        | 301.18      | 0.85                     | 0.11                | -42.78             |
| 113      | MWD              | 11159.00          | 1.80              | 126.90        | 89                 | 11143.87                 | -184.04               | 204.28 N    | 339.43 W | 396.16        | 301.04      | 2.85                     | 0.67                | -128.20            |
| 114      | MWD              | 11249.00          | 2.30              | 129.90        | 90                 | 11233.81                 | -182.18               | 202.27 N    | 336.92 W | 392.97        | 300.98      | 0.57                     | 0.56                | 3.33               |
| 115      | MWD              | 11339.00          | 2.50              | 141.30        | 90                 | 11323.73                 | -179.65               | 199.58 N    | 334.30 W | 389.35        | 300.84      | 0.57                     | 0.22                | 12.67              |
| 116      | MWD              | 11429.00          | 1.60              | 156.10        | 90                 | 11413.67                 | -177.07               | 196.90 N    | 332.57 W | 386.49        | 300.63      | 1.15                     | -1.00               | 16.44              |
| 117      | MWD              | 11519.00          | 0.70              | 173.10        | 90                 | 11503.65                 | -175.42               | 195.21 N    | 331.99 W | 385.13        | 300.46      | 1.06                     | -1.00               | 18.89              |
| 118      | MWD              | 11609.00          | 2.50              | 244.60        | 90                 | 11593.62                 | -173.93               | 193.82 N    | 333.70 W | 385.90        | 300.15      | 2.64                     | 2.00                | 79.44              |
| 119      | MWD              | 11698.00          | 3.00              | 261.20        | 89                 | 11682.52                 | -172.51               | 192.63 N    | 337.76 W | 388.83        | 299.70      | 1.05                     | 0.56                | 18.65              |
| 120      | MWD              | 11788.00          | 2.60              | 266.80        | 90                 | 11772.41                 | -171.78               | 192.16 N    | 342.12 W | 392.39        | 299.32      | 0.54                     | -0.44               | 6.22               |
| 121      | MWD              | 11878.00          | 3.00              | 272.20        | 90                 | 11862.30                 | -171.50               | 192.13 N    | 346.51 W | 396.21        | 299.01      | 0.53                     | 0.44                | 6.00               |
| 122      | MWD              | 11967.00          | 3.50              | 276.30        | 89                 | 11951.16                 | -171.59               | 192.52 N    | 351.54 W | 400.81        | 298.71      | 0.62                     | 0.56                | 4.61               |
| 123      | MWD              | 12057.00          | 3.70              | 277.70        | 90                 | 12040.98                 | -171.95               | 193.21 N    | 357.15 W | 406.06        | 298.41      | 0.24                     | 0.22                | 1.56               |
| 124      | MWD              | 12102.00          | 3.50              | 276.80        | 45                 | 12085.89                 | -172.14               | 193.57 N    | 359.95 W | 408.70        | 298.27      | 0.46                     | -0.44               | -2.00              |
| 125      | MWD              | 12147.00          | 3.50              | 256.40        | 45                 | 12130.81                 | -171.82               | 193.41 N    | 362.65 W | 411.00        | 298.07      | 2.75                     | 0.00                | -45.33             |
| 126      | MWD              | 12191.00          | 6.90              | 228.80        | 44                 | 12174.63                 | -169.57               | 191.35 N    | 365.95 W | 412.95        | 297.60      | 9.38                     | 7.73                | -62.73             |
| 127      | MWD              | 12236.00          | 11.30             | 211.60        | 45                 | 12219.06                 | -163.79               | 185.81 N    | 370.29 W | 414.30        | 296.65      | 11.39                    | 9.78                | -38.22             |
| 128      | MWD              | 12281.00          | 17.60             | 203.00        | 45                 | 12262.62                 | -153.49               | 175.78 N    | 375.27 W | 414.40        | 295.10      | 14.75                    | 14.00               | -19.11             |
| 129      | MWD              | 12326.00          | 23.00             | 201.20        | 45                 | 12304.81                 | -138.70               | 161.31 N    | 381.11 W | 413.84        | 292.94      | 12.08                    | 12.00               | -4.00              |
| 130      | MWD              | 12371.00          | 28.70             | 193.50        | 45                 | 12345.30                 | -119.67               | 142.59 N    | 386.82 W | 412.26        | 290.24      | 14.68                    | 12.67               | -17.11             |
| 131      | MWD              | 12415.00          | 34.70             | 186.80        | 44                 | 12382.73                 | -96.74                | 119.85 N    | 390.77 W | 408.74        | 287.05      | 15.79                    | 13.64               | -15.23             |
| 132      | MWD              | 12460.00          | 41.30             | 179.60        | 45                 | 12418.19                 | -69.10                | 92.24 N     | 392.19 W | 402.89        | 283.24      | 17.65                    | 14.67               | -16.00             |
| 133      | MWD              | 12505.00          | 46.80             | 174.30        | 45                 | 12450.53                 | -38.05                | 61.04 N     | 390.45 W | 395.19        | 278.88      | 14.70                    | 12.22               | -11.78             |
| 134      | MWD              | 12550.00          | 53.10             | 168.50        | 45                 | 12479.49                 | -4.41                 | 27.03 N     | 385.23 W | 386.17        | 274.01      | 17.12                    | 14.00               | -12.89             |
| 135      | MWD              | 12595.00          | 60.20             | 165.40        | 45                 | 12504.22                 | 31.61                 | 9.55 S      | 376.71 W | 376.83        | 268.55      | 16.79                    | 15.78               | -6.89              |
| 136      | MWD              | 12640.00          | 63.20             | 166.80        | 45                 | 12525.55                 | 69.44                 | 48.00 S     | 367.20 W | 370.32        | 262.55      | 7.21                     | 6.67                | 3.11               |
| 137      | MWD              | 12685.00          | 66.50             | 168.40        | 45                 | 12544.67                 | 108.64                | 87.78 S     | 358.46 W | 369.05        | 256.24      | 8.01                     | 7.33                | 3.56               |
| 138      | MWD              | 12729.00          | 71.40             | 170.50        | 44                 | 12560.47                 | 148.49                | 128.14 S    | 350.95 W | 373.62        | 249.94      | 11.99                    | 11.14               | 4.77               |
| 139      | MWD              | 12774.00          | 74.80             | 173.10        | 45                 | 12573.55                 | 190.66                | 170.75 S    | 344.82 W | 384.78        | 243.66      | 9.36                     | 7.56                | 5.78               |
| 140      | MWD              | 12819.00          | 78.10             | 175.00        | 45                 | 12584.10                 | 233.83                | 214.25 S    | 340.29 W | 402.12        | 237.81      | 8.40                     | 7.33                | 4.22               |



# DRILTECH MWD SURVEY REPORT

Company: EOG Resources, Inc.  
 Well: Black Bear 36 State #701H  
 Location: Lea Co., NM.  
 Rig: H&P 415

Job Number: DM-2016-018-EODT-NM  
 Vertical Section Plane: 183.36  
 Well API Number: 30-025-43006  
 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') | Walk Rate (d/100') |
|----------|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|          |                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
| 141      | MWD              | 12864.00          | 84.60             | 175.90        | 45                 | 12590.86                 | 277.87                | 258.57 S    | 336.77 W | 424.59        | 232.48      | 14.58                    | 14.44               | 2.00               |
| 142      | MWD              | 12909.00          | 89.60             | 178.20        | 45                 | 12593.14                 | 322.52                | 303.44 S    | 334.46 W | 451.60        | 227.78      | 12.23                    | 11.11               | 5.11               |
| 143      | MWD              | 12954.00          | 90.80             | 180.70        | 45                 | 12592.98                 | 367.41                | 348.43 S    | 334.03 W | 482.68        | 223.79      | 6.16                     | 2.67                | 5.56               |
| 144      | MWD              | 13012.00          | 89.70             | 177.71        | 58                 | 12592.73                 | 425.25                | 406.42 S    | 333.22 W | 525.56        | 219.35      | 5.49                     | -1.90               | -5.16              |
| 145      | MWD              | 13102.00          | 89.60             | 178.60        | 90                 | 12593.28                 | 514.88                | 496.37 S    | 330.33 W | 596.24        | 213.64      | 1.00                     | -0.11               | 0.99               |
| 146      | MWD              | 13191.00          | 91.10             | 178.20        | 89                 | 12592.73                 | 603.54                | 585.33 S    | 327.84 W | 670.89        | 209.25      | 1.74                     | 1.69                | -0.45              |
| 147      | MWD              | 13281.00          | 92.00             | 179.30        | 90                 | 12590.30                 | 693.21                | 675.27 S    | 325.88 W | 749.79        | 205.76      | 1.58                     | 1.00                | 1.22               |
| 148      | MWD              | 13371.00          | 92.00             | 178.90        | 90                 | 12587.16                 | 782.91                | 765.21 S    | 324.47 W | 831.16        | 202.98      | 0.44                     | 0.00                | -0.44              |
| 149      | MWD              | 13460.00          | 91.10             | 179.10        | 89                 | 12584.75                 | 871.62                | 854.16 S    | 322.91 W | 913.16        | 200.71      | 1.04                     | -1.01               | 0.22               |
| 150      | MWD              | 13550.00          | 91.50             | 178.70        | 90                 | 12582.71                 | 961.32                | 944.12 S    | 321.19 W | 997.26        | 198.79      | 0.63                     | 0.44                | -0.44              |
| 151      | MWD              | 13640.00          | 90.40             | 178.00        | 90                 | 12581.22                 | 1050.96               | 1034.07 S   | 318.59 W | 1082.04       | 197.12      | 1.45                     | -1.22               | -0.78              |
| 152      | MWD              | 13729.00          | 89.90             | 179.30        | 89                 | 12580.98                 | 1139.66               | 1123.04 S   | 316.50 W | 1166.79       | 195.74      | 1.56                     | -0.56               | 1.46               |
| 153      | MWD              | 13819.00          | 89.00             | 179.10        | 90                 | 12581.85                 | 1229.42               | 1213.03 S   | 315.24 W | 1253.32       | 194.57      | 1.02                     | -1.00               | -0.22              |
| 154      | MWD              | 13908.00          | 90.30             | 180.70        | 89                 | 12582.39                 | 1318.25               | 1302.02 S   | 315.09 W | 1339.60       | 193.60      | 2.32                     | 1.46                | 1.80               |
| 155      | MWD              | 13998.00          | 89.20             | 180.70        | 90                 | 12582.78                 | 1408.15               | 1392.01 S   | 316.19 W | 1427.47       | 192.80      | 1.22                     | -1.22               | 0.00               |
| 156      | MWD              | 14088.00          | 88.90             | 181.50        | 90                 | 12584.27                 | 1498.07               | 1481.98 S   | 317.91 W | 1515.70       | 192.11      | 0.95                     | -0.33               | 0.89               |
| 157      | MWD              | 14178.00          | 89.70             | 182.20        | 90                 | 12585.37                 | 1588.03               | 1571.93 S   | 320.82 W | 1604.33       | 191.54      | 1.18                     | 0.89                | 0.78               |
| 158      | MWD              | 14267.00          | 88.90             | 179.60        | 89                 | 12586.46                 | 1676.93               | 1660.90 S   | 322.22 W | 1691.87       | 190.98      | 3.06                     | -0.90               | -2.92              |
| 159      | MWD              | 14357.00          | 87.30             | 178.60        | 90                 | 12589.45                 | 1766.63               | 1750.84 S   | 320.80 W | 1779.99       | 190.38      | 2.10                     | -1.78               | -1.11              |
| 160      | MWD              | 14447.00          | 88.50             | 177.70        | 90                 | 12592.74                 | 1856.20               | 1840.73 S   | 317.90 W | 1867.98       | 189.80      | 1.67                     | 1.33                | -1.00              |
| 161      | MWD              | 14537.00          | 89.90             | 177.90        | 90                 | 12594.00                 | 1945.76               | 1930.65 S   | 314.45 W | 1956.09       | 189.25      | 1.57                     | 1.56                | 0.22               |
| 162      | MWD              | 14626.00          | 90.10             | 177.30        | 89                 | 12594.00                 | 2034.31               | 2019.57 S   | 310.72 W | 2043.33       | 188.75      | 0.71                     | 0.22                | -0.67              |
| 163      | MWD              | 14716.00          | 89.60             | 175.70        | 90                 | 12594.24                 | 2123.66               | 2109.40 S   | 305.22 W | 2131.37       | 188.23      | 1.86                     | -0.56               | -1.78              |
| 164      | MWD              | 14806.00          | 89.40             | 175.40        | 90                 | 12595.02                 | 2212.83               | 2199.13 S   | 298.24 W | 2219.26       | 187.72      | 0.40                     | -0.22               | -0.33              |
| 165      | MWD              | 14896.00          | 89.60             | 175.70        | 90                 | 12595.81                 | 2301.99               | 2288.85 S   | 291.26 W | 2307.31       | 187.25      | 0.40                     | 0.22                | 0.33               |
| 166      | MWD              | 14985.00          | 88.30             | 176.40        | 89                 | 12597.44                 | 2390.25               | 2377.62 S   | 285.13 W | 2394.66       | 186.84      | 1.66                     | -1.46               | 0.79               |
| 167      | MWD              | 15075.00          | 89.40             | 175.90        | 90                 | 12599.24                 | 2479.51               | 2467.40 S   | 279.09 W | 2483.13       | 186.45      | 1.34                     | 1.22                | -0.56              |
| 168      | MWD              | 15165.00          | 88.70             | 177.70        | 90                 | 12600.74                 | 2568.91               | 2557.24 S   | 274.06 W | 2571.89       | 186.12      | 2.15                     | -0.78               | 2.00               |
| 169      | MWD              | 15255.00          | 90.30             | 181.90        | 90                 | 12601.52                 | 2658.71               | 2647.22 S   | 273.75 W | 2661.33       | 185.90      | 4.99                     | 1.78                | 4.67               |
| 170      | MWD              | 15345.00          | 89.00             | 180.70        | 90                 | 12602.07                 | 2748.65               | 2737.19 S   | 275.79 W | 2751.05       | 185.75      | 1.97                     | -1.44               | -1.33              |
| 171      | MWD              | 15434.00          | 89.70             | 181.50        | 89                 | 12603.08                 | 2837.57               | 2826.16 S   | 277.50 W | 2839.75       | 185.61      | 1.19                     | 0.79                | 0.90               |
| 172      | MWD              | 15524.00          | 90.10             | 181.50        | 90                 | 12603.24                 | 2927.52               | 2916.13 S   | 279.86 W | 2929.53       | 185.48      | 0.44                     | 0.44                | 0.00               |
| 173      | MWD              | 15614.00          | 89.40             | 182.80        | 90                 | 12603.63                 | 3017.50               | 3006.07 S   | 283.23 W | 3019.38       | 185.38      | 1.64                     | -0.78               | 1.44               |
| 174      | MWD              | 15704.00          | 90.10             | 181.40        | 90                 | 12604.02                 | 3107.47               | 3096.00 S   | 286.53 W | 3109.23       | 185.29      | 1.74                     | 0.78                | -1.56              |
| 175      | MWD              | 15794.00          | 91.00             | 181.40        | 90                 | 12603.16                 | 3197.42               | 3185.97 S   | 288.73 W | 3199.03       | 185.18      | 1.00                     | 1.00                | 0.00               |
| 176      | MWD              | 15883.00          | 89.00             | 178.90        | 89                 | 12603.16                 | 3286.26               | 3274.96 S   | 288.96 W | 3287.68       | 185.04      | 3.60                     | -2.25               | -2.81              |

# DRILTECH MWD SURVEY REPORT

|           |                           |
|-----------|---------------------------|
| Company:  | EOG Resources, Inc.       |
| Well:     | Black Bear 36 State #701H |
| Location: | Lea Co., NM.              |
| Rig:      | H&P 415                   |

|                         |                     |
|-------------------------|---------------------|
| Job Number:             | DM-2016-018-EODT-NM |
| Vertical Section Plane: | 183.36              |
| Well API Number:        | 30-025-43006        |
| Tie Into:               | Surface             |

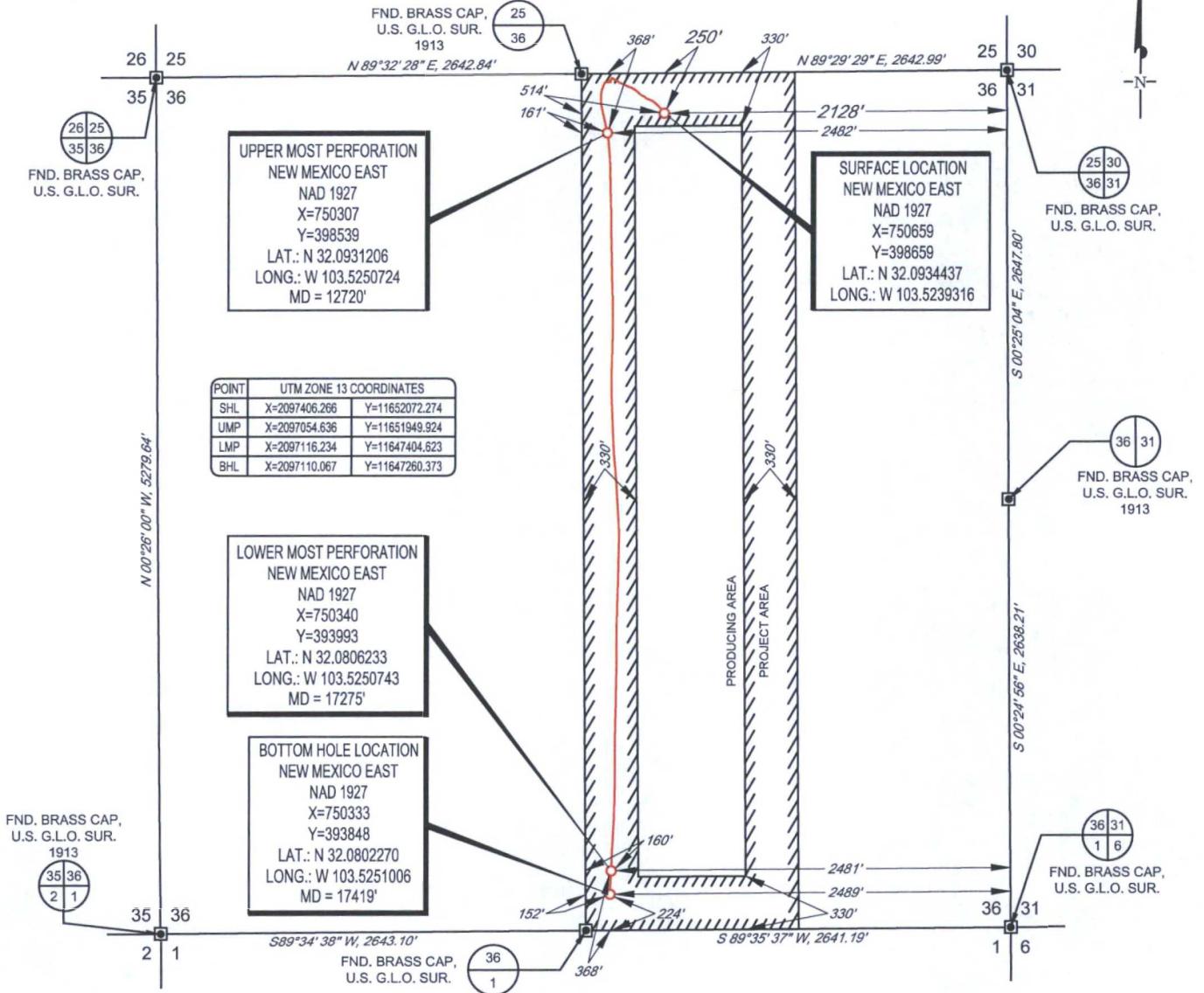
Calculation Method: Minimum Curvature

[illegible]

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 36, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: BLACK BEAR 36 STATE #701H  
SECTION 36 TWP 25-S RGE 33-E SURVEY N.M.P.M.  
COUNTY LEA STATE NM ELEVATION 3334'  
DESCRIPTION 250' FNL & 2128' FEL



**TOPOGRAPHIC**  
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WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329  
JULY 28, 2016



BLACK BEAR 36 STATE  
#701H AS-COMPLETED

REVISION:

INT DATE

DATE: 07/28/16

FILE: AD\_BLACKBEAR36STATE\_701H

DRAWN BY: A.C.C.

SHEET: 1 OF 1

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.