

30-015-38384

## Yates Petroleum Corp.

Eddy County  
Domino "AOJ" Federal Com  
#11H  
OH

Design: OH

## Pathfinder X&Y Report

02 September, 2011

**PATHFINDER**

A Schlumberger Company



Pathfinder  
Pathfinder X&Y Report

**PATHFINDER**  
A Schlumberger Company

|           |                          |                              |                                      |
|-----------|--------------------------|------------------------------|--------------------------------------|
| Company:  | Yates Petroleum Corp.    | Local Co-ordinate Reference: | Well #11H                            |
| Project:  | Eddy County              | TVD Reference:               | 18' KB @ 3509.50usft (Silver Oak 10) |
| Site:     | Domino "AOJ" Federal Com | MD Reference:                | 18' KB @ 3509.50usft (Silver Oak 10) |
| Well:     | #11H                     | North Reference:             | Grid                                 |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                    |
| Design:   | OH                       | Database:                    | EDM 5000.1 Single User Db            |

|             |                           |               |                |
|-------------|---------------------------|---------------|----------------|
| Project:    | Eddy County               | System Datum: | Mean Sea Level |
| Map System: | US State Plane 1983       |               |                |
| Geo Datum:  | North American Datum 1983 |               |                |
| Map Zone:   | New Mexico Eastern Zone   |               |                |

|                       |                          |                   |                   |
|-----------------------|--------------------------|-------------------|-------------------|
| Site:                 | Domino "AOJ" Federal Com |                   |                   |
| Site Position:        |                          | Northing:         | 607,558.768 usft  |
| From:                 | Map                      | Easting:          | 675,317.168 usft  |
| Position Uncertainty: | 0.00 usft                | Slot Radius:      | 13-3/16 "         |
|                       |                          | Latitude:         | 32° 40' 10.089 N  |
|                       |                          | Longitude:        | 103° 53' 52.558 W |
|                       |                          | Grid Convergence: | 0.24 °            |

|                      |                 |                     |                   |
|----------------------|-----------------|---------------------|-------------------|
| Well:                | #11H            |                     |                   |
| Well Position        | +N/-S 0.00 usft | Northing:           | 610,530.285 usft  |
|                      | +E/-W 0.00 usft | Easting:            | 674,964.040 usft  |
| Position Uncertainty | 0.00 usft       | Wellhead Elevation: | usft              |
|                      |                 | Latitude:           | 32° 40' 39.507 N  |
|                      |                 | Longitude:          | 103° 53' 56.546 W |
|                      |                 | Ground Level:       | 3,491.00 usft     |

|           |    |
|-----------|----|
| Wellbore: | OH |
|-----------|----|

|           |            |             |             |           |                |
|-----------|------------|-------------|-------------|-----------|----------------|
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
|           |            |             | (°)         | (°)       | (nT)           |
|           | IGRF2010   | 8/18/2011   | 7.75        | 60.55     | 48,836         |

|         |    |
|---------|----|
| Design: | OH |
|---------|----|

|              |     |        |        |                    |
|--------------|-----|--------|--------|--------------------|
| Audit Notes: |     |        |        |                    |
| Version:     | 1.0 | Phase: | ACTUAL | Tie On Depth: 0.00 |

|                   |                  |        |        |           |
|-------------------|------------------|--------|--------|-----------|
| Vertical Section: | Depth From (TVD) | +N/-S  | +E/-W  | Direction |
|                   | (usft)           | (usft) | (usft) | (°)       |
|                   | 0.00             | 0.00   | 0.00   | 93.71     |



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|           |                          |                              |                                      |
|-----------|--------------------------|------------------------------|--------------------------------------|
| Company:  | Yates Petroleum Corp.    | Local Co-ordinate Reference: | Well #11H                            |
| Project:  | Eddy County              | TVD Reference:               | 18' KB @ 3509.50usft (Silver Oak 10) |
| Site:     | Domino "AOJ" Federal Com | MD Reference:                | 18' KB @ 3509.50usft (Silver Oak 10) |
| Well:     | #11H                     | North Reference:             | Gnd                                  |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                    |
| Design:   | OH                       | Database:                    | EDM 5000.1 Single User Db            |

| Survey Program |           | Date 9/2/2011         |            |                             |
|----------------|-----------|-----------------------|------------|-----------------------------|
| From (usft)    | To (usft) | Survey (Wellbore)     | Tool Name  | Description                 |
| 200.00         | 8,180.00  | Survey #1 - Gyro (OH) | CB-GYRO-MS | Camera based gyro multishot |
| 8,235.00       | 13,085.00 | Survey #2 - MWD (OH)  | MWD        | MWD - Standard              |

| MD (usft) | Inc (") | Azi (azimuth) (") | TVD (usft) | TVDSS (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg ("/100usft) | Northing (usft) | Easting (usft) |
|-----------|---------|-------------------|------------|--------------|------------|------------|---------------|------------------|-----------------|----------------|
| 0.00      | 0.00    | 0.00              | 0.00       | -3,509.50    | 0.00       | 0.00       | 0.00          | 0.00             | 610,530.29      | 674,964.04     |
| 200.00    | 0.50    | 45.38             | 200.00     | -3,309.50    | 0.61       | 0.62       | 0.58          | 0.25             | 610,530.90      | 674,964.66     |
| 400.00    | 0.25    | 165.16            | 399.99     | -3,109.51    | 0.80       | 1.35       | 1.30          | 0.33             | 610,531.09      | 674,965.39     |
| 600.00    | 0.25    | 176.93            | 599.99     | -2,909.51    | -0.05      | 1.49       | 1.49          | 0.03             | 610,530.23      | 674,965.53     |
| 800.00    | 0.50    | 215.70            | 799.99     | -2,709.51    | -1.20      | 1.00       | 1.08          | 0.17             | 610,529.09      | 674,965.04     |
| 1,000.00  | 0.75    | 165.48            | 999.98     | -2,509.52    | -3.17      | 0.82       | 1.03          | 0.29             | 610,527.11      | 674,964.86     |
| 1,200.00  | 1.00    | 163.25            | 1,199.95   | -2,309.55    | -6.11      | 1.65       | 2.05          | 0.13             | 610,524.17      | 674,965.69     |
| 1,400.00  | 0.75    | 159.03            | 1,399.93   | -2,109.57    | -9.01      | 2.62       | 3.20          | 0.13             | 610,521.28      | 674,966.66     |
| 1,600.00  | 1.00    | 143.80            | 1,599.91   | -1,909.59    | -11.64     | 4.12       | 4.87          | 0.17             | 610,518.65      | 674,968.16     |
| 1,800.00  | 1.25    | 118.58            | 1,799.87   | -1,709.63    | -14.09     | 7.07       | 7.97          | 0.27             | 610,516.20      | 674,971.11     |
| 2,000.00  | 1.50    | 77.34             | 1,999.82   | -1,509.68    | -14.56     | 11.54      | 12.46         | 0.50             | 610,515.73      | 674,975.58     |
| 2,200.00  | 2.50    | 75.11             | 2,199.69   | -1,309.81    | -12.86     | 18.31      | 19.10         | 0.50             | 610,517.42      | 674,982.35     |
| 2,400.00  | 2.00    | 50.88             | 2,399.54   | -1,109.96    | -9.54      | 25.23      | 25.80         | 0.53             | 610,520.74      | 674,989.27     |
| 2,600.00  | 1.25    | 61.66             | 2,599.46   | -910.04      | -6.30      | 29.86      | 30.21         | 0.40             | 610,523.98      | 674,993.90     |
| 2,800.00  | 1.25    | 77.44             | 2,799.41   | -710.09      | -4.79      | 33.91      | 34.15         | 0.17             | 610,525.49      | 674,997.95     |
| 3,000.00  | 1.00    | 63.21             | 2,999.38   | -510.12      | -3.53      | 37.60      | 37.75         | 0.19             | 610,526.75      | 675,001.64     |
| 3,200.00  | 0.75    | 61.98             | 3,199.35   | -310.15      | -2.13      | 40.31      | 40.36         | 0.13             | 610,528.15      | 675,004.35     |
| 3,400.00  | 1.00    | 66.76             | 3,399.33   | -110.17      | -0.83      | 43.07      | 43.03         | 0.13             | 610,529.46      | 675,007.11     |
| 3,600.00  | 0.75    | 42.53             | 3,599.31   | 89.81        | 0.83       | 45.56      | 45.41         | 0.22             | 610,531.11      | 675,009.60     |
| 3,800.00  | 0.75    | 21.17             | 3,799.29   | 289.79       | 3.01       | 46.92      | 46.62         | 0.14             | 610,533.30      | 675,010.96     |
| 4,000.00  | 0.75    | 40.94             | 3,999.27   | 489.77       | 5.22       | 48.25      | 47.81         | 0.13             | 610,535.51      | 675,012.29     |



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| Project:  | Eddy County              | TVD Reference:               | 18' KB @ 3509.50usft (Silver Oak 10) |
| Site:     | Domino "AOJ" Federal Com | MD Reference:                | 18' KB @ 3509.50usft (Silver Oak 10) |
| Well:     | #11H                     | North Reference:             | Gnd.                                 |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                    |
| Design:   | OH                       | Database:                    | EDM 5000.1 Single User Db            |

| Survey                                           |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
|--------------------------------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft)                                     | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 4,200.00                                         | 0.75       | 344.72               | 4,199.26      | 689.76          | 7.47          | 48.76         | 48.17            | 0.35                | 610,537.76         | 675,012.80        |  |
| 4,400.00                                         | 1.00       | 352.49               | 4,399.23      | 889.73          | 10.47         | 48.19         | 47.41            | 0.14                | 610,540.75         | 675,012.23        |  |
| 4,600.00                                         | 1.50       | 7.26                 | 4,599.19      | 1,089.69        | 14.79         | 48.29         | 47.23            | 0.30                | 610,545.08         | 675,012.33        |  |
| 4,800.00                                         | 1.50       | 9.03                 | 4,799.12      | 1,289.62        | 19.97         | 49.03         | 47.64            | 0.02                | 610,550.26         | 675,013.07        |  |
| 5,000.00                                         | 1.00       | 23.81                | 4,999.07      | 1,489.57        | 24.16         | 50.15         | 48.48            | 0.30                | 610,554.44         | 675,014.19        |  |
| 5,200.00                                         | 1.25       | 23.58                | 5,199.03      | 1,689.53        | 27.75         | 51.72         | 49.82            | 0.13                | 610,558.04         | 675,015.76        |  |
| 5,400.00                                         | 1.00       | 4.35                 | 5,398.99      | 1,889.49        | 31.49         | 52.73         | 50.58            | 0.22                | 610,561.78         | 675,016.77        |  |
| 5,600.00                                         | 1.25       | 8.12                 | 5,598.96      | 2,089.46        | 35.39         | 53.17         | 50.77            | 0.13                | 610,565.68         | 675,017.21        |  |
| 5,800.00                                         | 1.00       | 52.90                | 5,798.92      | 2,289.42        | 38.60         | 54.87         | 52.26            | 0.44                | 610,568.89         | 675,018.91        |  |
| 6,000.00                                         | 1.50       | 69.67                | 5,998.87      | 2,489.37        | 40.57         | 58.72         | 55.97            | 0.31                | 610,570.85         | 675,022.76        |  |
| 6,200.00                                         | 2.00       | 74.57                | 6,198.78      | 2,689.28        | 42.40         | 64.53         | 61.66            | 0.26                | 610,572.69         | 675,028.57        |  |
| 6,400.00                                         | 1.25       | 40.59                | 6,398.70      | 2,889.20        | 44.99         | 69.32         | 66.26            | 0.60                | 610,575.28         | 675,033.36        |  |
| 6,600.00                                         | 1.00       | 352.62               | 6,598.67      | 3,089.17        | 48.38         | 70.51         | 67.24            | 0.47                | 610,578.66         | 675,034.55        |  |
| 6,800.00                                         | 0.75       | 12.64                | 6,798.64      | 3,289.14        | 51.39         | 70.58         | 67.10            | 0.20                | 610,581.67         | 675,034.62        |  |
| 7,000.00                                         | 0.75       | 28.66                | 6,998.63      | 3,489.13        | 53.81         | 71.49         | 67.86            | 0.10                | 610,584.10         | 675,035.53        |  |
| 7,200.00                                         | 1.25       | 4.69                 | 7,198.60      | 3,689.10        | 57.13         | 72.30         | 68.45            | 0.32                | 610,587.42         | 675,036.34        |  |
| 7,400.00                                         | 1.00       | 336.71               | 7,398.56      | 3,889.06        | 60.91         | 71.78         | 67.69            | 0.30                | 610,591.20         | 675,035.82        |  |
| 7,600.00                                         | 0.75       | 292.74               | 7,598.54      | 4,089.04        | 63.02         | 69.89         | 65.66            | 0.35                | 610,593.31         | 675,033.93        |  |
| 7,800.00                                         | 0.50       | 218.76               | 7,798.53      | 4,289.03        | 62.85         | 68.13         | 63.92            | 0.39                | 610,593.13         | 675,032.17        |  |
| 8,000.00                                         | 0.75       | 227.78               | 7,998.52      | 4,489.02        | 61.29         | 66.62         | 62.51            | 0.13                | 610,591.57         | 675,030.66        |  |
| 8,180.00                                         | 0.75       | 192.80               | 8,178.50      | 4,669.00        | 59.35         | 65.48         | 61.51            | 0.25                | 610,589.63         | 675,029.52        |  |
| 8,235.00                                         | 0.62       | 233.16               | 8,233.50      | 4,724.00        | 58.82         | 65.17         | 61.22            | 0.89                | 610,589.10         | 675,029.21        |  |
| 8,266.00                                         | 0.53       | 186.92               | 8,264.50      | 4,755.00        | 58.57         | 65.01         | 61.09            | 1.48                | 610,588.86         | 675,029.05        |  |
| KOP - 8266.00'MD, 8264.50'TVD', 58.57°N, 65.01°E |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
| 8,297.00                                         | 3.69       | 114.70               | 8,295.47      | 4,785.97        | 58.01         | 65.90         | 62.01            | 11.50               | 610,588.30         | 675,029.94        |  |
| 8,328.00                                         | 8.79       | 109.42               | 8,326.28      | 4,816.78        | 56.81         | 69.05         | 65.23            | 16.54               | 610,587.09         | 675,033.09        |  |
| 8,360.00                                         | 14.51      | 108.78               | 8,357.61      | 4,848.11        | 54.70         | 75.15         | 71.46            | 17.88               | 610,584.99         | 675,039.19        |  |



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|           |                          |                              |                                      |
|-----------|--------------------------|------------------------------|--------------------------------------|
| Company:  | Yates Petroleum Corp.    | Local Co-ordinate Reference: | Well #11H                            |
| Project:  | Eddy County              | TVD Reference:               | 18' KB @ 3509.50usft (Silver Oak 10) |
| Site:     | Domino "AOJ" Federal Com | MD Reference:                | 18' KB @ 3509.50usft (Silver Oak 10) |
| Well:     | #11H                     | North Reference:             | Gnd                                  |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                    |
| Design:   | OH                       | Database:                    | EDM 5000.1 Single User Db            |

| Survey       |            |                      |               |                 |               |               |                  |                     |                    |                   |  |  |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|--|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |  |
| 8,391.00     | 20.22      | 104.23               | 8,387.18      | 4,877.68        | 52.13         | 84.03         | 80.48            | 18.92               | 610,582.42         | 675,048.07        |  |  |
| 8,422.00     | 24.62      | 100.80               | 8,415.84      | 4,906.34        | 49.61         | 95.57         | 92.16            | 14.80               | 610,579.89         | 675,059.61        |  |  |
| 8,453.00     | 28.23      | 98.66                | 8,443.59      | 4,934.09        | 47.29         | 109.17        | 105.88           | 12.04               | 610,577.58         | 675,073.21        |  |  |
| 8,484.00     | 30.95      | 97.02                | 8,470.55      | 4,961.05        | 45.21         | 124.33        | 121.14           | 9.15                | 610,575.50         | 675,088.37        |  |  |
| 8,515.00     | 33.68      | 95.60                | 8,496.74      | 4,987.24        | 43.40         | 140.80        | 137.70           | 9.14                | 610,573.68         | 675,104.84        |  |  |
| 8,546.00     | 37.72      | 95.00                | 8,521.91      | 5,012.41        | 41.73         | 158.81        | 155.78           | 13.08               | 610,572.02         | 675,122.85        |  |  |
| 8,577.00     | 40.63      | 95.24                | 8,545.94      | 5,036.44        | 39.98         | 178.31        | 175.35           | 9.40                | 610,570.27         | 675,142.35        |  |  |
| 8,608.00     | 43.88      | 95.40                | 8,568.89      | 5,059.39        | 38.05         | 199.06        | 196.18           | 10.49               | 610,568.34         | 675,163.10        |  |  |
| 8,639.00     | 46.78      | 95.51                | 8,590.68      | 5,081.18        | 35.95         | 221.01        | 218.22           | 9.36                | 610,566.24         | 675,185.05        |  |  |
| 8,670.00     | 49.51      | 96.01                | 8,611.36      | 5,101.86        | 33.64         | 243.98        | 241.29           | 8.89                | 610,563.92         | 675,208.02        |  |  |
| 8,701.00     | 51.62      | 96.15                | 8,631.05      | 5,121.55        | 31.10         | 267.79        | 265.21           | 6.82                | 610,561.38         | 675,231.83        |  |  |
| 8,732.00     | 52.94      | 96.50                | 8,650.02      | 5,140.52        | 28.40         | 292.16        | 289.71           | 4.35                | 610,558.68         | 675,256.20        |  |  |
| 8,764.00     | 54.78      | 96.63                | 8,668.89      | 5,159.39        | 25.44         | 317.83        | 315.52           | 5.76                | 610,555.73         | 675,281.87        |  |  |
| 8,795.00     | 56.28      | 96.90                | 8,686.43      | 5,176.93        | 22.43         | 343.21        | 341.04           | 4.89                | 610,552.72         | 675,307.25        |  |  |
| 8,826.00     | 57.51      | 96.96                | 8,703.36      | 5,193.86        | 19.30         | 368.98        | 366.96           | 3.97                | 610,549.58         | 675,333.02        |  |  |
| 8,857.00     | 59.62      | 96.36                | 8,719.53      | 5,210.03        | 16.23         | 395.25        | 393.38           | 7.00                | 610,546.52         | 675,359.29        |  |  |
| 8,888.00     | 62.70      | 96.60                | 8,734.48      | 5,224.98        | 13.17         | 422.23        | 420.50           | 9.96                | 610,543.45         | 675,386.27        |  |  |
| 8,919.00     | 64.81      | 95.77                | 8,748.19      | 5,238.69        | 10.17         | 449.87        | 448.27           | 7.22                | 610,540.46         | 675,413.91        |  |  |
| 8,950.00     | 66.57      | 95.92                | 8,760.95      | 5,251.45        | 7.30          | 477.98        | 476.50           | 5.69                | 610,537.58         | 675,442.02        |  |  |
| 8,981.00     | 69.29      | 97.16                | 8,772.60      | 5,263.10        | 4.02          | 506.51        | 505.19           | 9.52                | 610,534.31         | 675,470.55        |  |  |
| 9,012.00     | 71.14      | 96.47                | 8,783.09      | 5,273.59        | 0.56          | 535.48        | 534.32           | 6.32                | 610,530.85         | 675,499.52        |  |  |
| 9,043.00     | 72.81      | 95.98                | 8,792.68      | 5,283.18        | -2.63         | 564.78        | 563.77           | 5.59                | 610,527.65         | 675,528.82        |  |  |
| 9,075.00     | 75.27      | 95.27                | 8,801.48      | 5,291.98        | -5.65         | 595.40        | 594.51           | 7.98                | 610,524.64         | 675,559.44        |  |  |
| 9,106.00     | 77.73      | 95.73                | 8,808.72      | 5,299.22        | -8.54         | 625.40        | 624.64           | 8.07                | 610,521.75         | 675,589.44        |  |  |
| 9,137.00     | 80.46      | 95.95                | 8,814.58      | 5,305.08        | -11.64        | 655.68        | 655.06           | 8.83                | 610,518.65         | 675,619.72        |  |  |
| 9,168.00     | 81.69      | 95.68                | 8,819.39      | 5,309.89        | -14.74        | 686.15        | 685.66           | 4.06                | 610,515.55         | 675,650.19        |  |  |
| 9,199.00     | 83.54      | 95.07                | 8,823.37      | 5,313.87        | -17.62        | 716.75        | 716.39           | 6.28                | 610,512.67         | 675,680.79        |  |  |



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|           |                          |                              |                                      |
|-----------|--------------------------|------------------------------|--------------------------------------|
| Company:  | Yates Petroleum Corp     | Local Co-ordinate Reference: | Well #11H                            |
| Project:  | Eddy County              | TVD Reference:               | 18' KB @ 3509.50usft (Silver Oak 10) |
| Site:     | Domino "AOJ" Federal Com | MD Reference:                | 18' KB @ 3509.50usft (Silver Oak 10) |
| Well:     | #11H                     | North Reference:             | Gnd                                  |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                    |
| Design:   | OH                       | Database:                    | EDM 5000.1 Single User Db            |

| Survey                                               |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
|------------------------------------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|--|
| MD<br>(usft)                                         | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 9,231.00                                             | 85.91      | 94.75                | 8,826.32      | 5,316.82        | -20.34        | 748.50        | 748.24           | 7.47                | 610,509.94         | 675,712.54        |  |
| 9,262.00                                             | 87.23      | 94.45                | 8,828.17      | 5,318.67        | -22.83        | 779.34        | 779.18           | 4.37                | 610,507.46         | 675,743.38        |  |
| 9,293.00                                             | 88.90      | 94.84                | 8,829.22      | 5,319.72        | -25.33        | 810.22        | 810.16           | 5.53                | 610,504.95         | 675,774.26        |  |
| 9,354.00                                             | 90.84      | 94.50                | 8,829.36      | 5,319.86        | -30.30        | 871.01        | 871.15           | 3.23                | 610,499.98         | 675,835.05        |  |
| LP - 9354.00' MD, 8829.36' TVD, -30.30° N, 871.01° E |            |                      |               |                 |               |               |                  |                     |                    |                   |  |
| 9,448.00                                             | 91.63      | 94.97                | 8,827.33      | 5,317.83        | -38.06        | 964.67        | 965.11           | 0.98                | 610,492.23         | 675,928.71        |  |
| 9,541.00                                             | 90.48      | 95.92                | 8,825.62      | 5,316.12        | -46.88        | 1,057.23      | 1,058.05         | 1.60                | 610,483.40         | 676,021.27        |  |
| 9,634.00                                             | 89.34      | 95.56                | 8,825.76      | 5,316.26        | -56.18        | 1,149.76      | 1,150.99         | 1.29                | 610,474.10         | 676,113.80        |  |
| 9,727.00                                             | 89.52      | 93.97                | 8,826.69      | 5,317.19        | -63.91        | 1,242.44      | 1,243.97         | 1.72                | 610,466.38         | 676,206.48        |  |
| 9,820.00                                             | 90.40      | 94.01                | 8,826.75      | 5,317.25        | -70.38        | 1,335.21      | 1,336.97         | 0.95                | 610,459.91         | 676,299.25        |  |
| 9,913.00                                             | 89.08      | 94.19                | 8,827.18      | 5,317.68        | -77.03        | 1,427.97      | 1,429.96         | 1.43                | 610,453.26         | 676,392.01        |  |
| 10,007.00                                            | 89.96      | 94.13                | 8,827.96      | 5,318.46        | -83.85        | 1,521.72      | 1,523.95         | 0.94                | 610,446.44         | 676,485.76        |  |
| 10,100.00                                            | 90.57      | 95.54                | 8,827.53      | 5,318.03        | -91.68        | 1,614.38      | 1,616.93         | 1.65                | 610,438.60         | 676,578.42        |  |
| 10,192.00                                            | 89.96      | 93.31                | 8,827.11      | 5,317.61        | -98.78        | 1,706.10      | 1,708.92         | 2.51                | 610,431.50         | 676,670.14        |  |
| 10,286.00                                            | 90.66      | 93.63                | 8,826.60      | 5,317.10        | -104.47       | 1,799.93      | 1,802.91         | 0.82                | 610,425.81         | 676,763.97        |  |
| 10,379.00                                            | 88.90      | 93.32                | 8,826.96      | 5,317.46        | -110.11       | 1,892.75      | 1,895.91         | 1.92                | 610,420.18         | 676,856.79        |  |
| 10,472.00                                            | 89.52      | 92.82                | 8,828.24      | 5,318.74        | -115.09       | 1,985.61      | 1,988.89         | 0.86                | 610,415.20         | 676,949.65        |  |
| 10,566.00                                            | 89.87      | 93.04                | 8,828.74      | 5,319.24        | -119.89       | 2,079.48      | 2,082.88         | 0.44                | 610,410.39         | 677,043.52        |  |
| 10,659.00                                            | 90.31      | 92.70                | 8,828.59      | 5,319.09        | -124.55       | 2,172.37      | 2,175.87         | 0.60                | 610,405.74         | 677,136.41        |  |
| 10,752.00                                            | 89.43      | 93.12                | 8,828.80      | 5,319.30        | -129.27       | 2,265.24      | 2,268.86         | 1.05                | 610,401.01         | 677,229.28        |  |
| 10,844.00                                            | 89.87      | 93.03                | 8,829.37      | 5,319.87        | -134.21       | 2,357.11      | 2,360.85         | 0.49                | 610,396.08         | 677,321.15        |  |
| 10,938.00                                            | 90.40      | 92.94                | 8,829.14      | 5,319.64        | -139.10       | 2,450.98      | 2,454.85         | 0.57                | 610,391.18         | 677,415.02        |  |
| 11,032.00                                            | 88.55      | 93.69                | 8,830.01      | 5,320.51        | -144.54       | 2,544.82      | 2,548.84         | 2.12                | 610,385.75         | 677,508.86        |  |
| 11,125.00                                            | 89.25      | 93.77                | 8,831.79      | 5,322.29        | -150.58       | 2,637.60      | 2,641.82         | 0.76                | 610,379.70         | 677,601.64        |  |
| 11,219.00                                            | 89.34      | 94.27                | 8,832.95      | 5,323.45        | -157.17       | 2,731.36      | 2,735.81         | 0.54                | 610,373.11         | 677,695.40        |  |
| 11,329.00                                            | 89.78      | 93.04                | 8,833.79      | 5,324.29        | -164.19       | 2,841.13      | 2,845.80         | 1.19                | 610,366.10         | 677,805.17        |  |
| 11,422.00                                            | 89.34      | 94.62                | 8,834.51      | 5,325.01        | -170.40       | 2,933.92      | 2,938.80         | 1.76                | 610,359.89         | 677,897.96        |  |



Pathfinder  
Pathfinder X&Y Report



|           |                          |                              |                                      |
|-----------|--------------------------|------------------------------|--------------------------------------|
| Company:  | Yates Petroleum Corp     | Local Co-ordinate Reference: | Well #11H                            |
| Project:  | Eddy County              | TVD Reference:               | 18' KB @ 3509.50usft (Silver Oak 10) |
| Site:     | Domino "AOJ" Federal Com | MD Reference:                | 18' KB @ 3509.50usft (Silver Oak 10) |
| Well:     | #11H                     | North Reference:             | Grid                                 |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                    |
| Design:   | OH                       | Database:                    | EDM 5000.1 Single User Db            |

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | V. Sec<br>(usft) | DLeg<br>(°/100usft) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|------------------|---------------------|--------------------|-------------------|
| 11,516.00    | 90.04      | 95.76                | 8,835.02      | 5,325.52        | -178.90       | 3,027.53      | 3,032.76         | 1.42                | 610,351.38         | 677,991.57        |
| 11,609.00    | 90.13      | 95.94                | 8,834.88      | 5,325.38        | -188.38       | 3,120.05      | 3,125.70         | 0.22                | 610,341.91         | 678,084.09        |
| 11,702.00    | 90.92      | 95.41                | 8,834.03      | 5,324.53        | -197.58       | 3,212.59      | 3,218.64         | 1.02                | 610,332.71         | 678,176.63        |
| 11,796.00    | 90.40      | 95.23                | 8,832.94      | 5,323.44        | -206.29       | 3,306.17      | 3,312.59         | 0.59                | 610,323.99         | 678,270.21        |
| 11,890.00    | 90.40      | 95.76                | 8,832.29      | 5,322.79        | -215.29       | 3,399.74      | 3,406.55         | 0.56                | 610,314.99         | 678,363.78        |
| 11,983.00    | 91.45      | 95.06                | 8,830.78      | 5,321.28        | -224.06       | 3,492.31      | 3,499.49         | 1.36                | 610,306.23         | 678,456.35        |
| 12,076.00    | 91.36      | 94.97                | 8,828.50      | 5,319.00        | -232.19       | 3,584.93      | 3,592.44         | 0.14                | 610,298.10         | 678,548.97        |
| 12,171.00    | 91.10      | 94.62                | 8,826.47      | 5,316.97        | -240.12       | 3,679.57      | 3,687.40         | 0.46                | 610,290.16         | 678,643.61        |
| 12,260.00    | 90.48      | 94.36                | 8,825.24      | 5,315.74        | -247.09       | 3,768.29      | 3,776.38         | 0.76                | 610,283.19         | 678,732.33        |
| 12,358.00    | 90.48      | 94.09                | 8,824.42      | 5,314.92        | -254.31       | 3,866.02      | 3,874.37         | 0.28                | 610,275.97         | 678,830.06        |
| 12,451.00    | 90.22      | 94.00                | 8,823.85      | 5,314.35        | -260.87       | 3,958.79      | 3,967.37         | 0.30                | 610,269.41         | 678,922.83        |
| 12,544.00    | 90.13      | 93.92                | 8,823.56      | 5,314.06        | -267.29       | 4,051.57      | 4,060.37         | 0.13                | 610,262.99         | 679,015.61        |
| 12,638.00    | 89.87      | 93.56                | 8,823.56      | 5,314.06        | -273.43       | 4,145.36      | 4,154.37         | 0.47                | 610,256.86         | 679,109.40        |
| 12,731.00    | 89.96      | 93.74                | 8,823.70      | 5,314.20        | -279.35       | 4,238.18      | 4,247.37         | 0.22                | 610,250.94         | 679,202.22        |
| 12,825.00    | 89.34      | 93.56                | 8,824.28      | 5,314.78        | -285.33       | 4,331.98      | 4,341.37         | 0.69                | 610,244.96         | 679,296.02        |
| 12,918.00    | 88.99      | 93.48                | 8,825.63      | 5,316.13        | -291.04       | 4,424.80      | 4,434.36         | 0.39                | 610,239.25         | 679,388.84        |
| 13,011.00    | 89.52      | 93.21                | 8,826.84      | 5,317.34        | -296.47       | 4,517.63      | 4,527.35         | 0.64                | 610,233.82         | 679,481.67        |
| 13,085.00    | 89.52      | 93.21                | 8,827.46      | 5,317.96        | -300.61       | 4,591.51      | 4,601.34         | 0.00                | 610,229.68         | 679,555.55        |

BHL - 13085.00'MD, 8827.46'TVD', -300.61'N, 4591.51'E - BHL (Domino 11)

| Design Annotations          |                             |                   |                 |                                                       |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                                               |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                                       |
| 8,266.00                    | 8,264.50                    | 58.57             | 65.01           | KOP - 8266.00'MD, 8264.50'TVD', 58.57'N, 65.01'E      |
| 9,354.00                    | 8,829.36                    | -30.30            | 871.01          | LP - 9354.00'MD, 8829.36'TVD', -30.30'N, 871.01'E     |
| 13,085.00                   | 8,827.46                    | -300.61           | 4,591.51        | BHL - 13085.00'MD, 8827.46'TVD', -300.61'N, 4591.51'E |



**Pathfinder**  
Pathfinder X&Y Report

**PATHFINDER**  
A Schlumberger Company

|           |                          |                              |                                      |
|-----------|--------------------------|------------------------------|--------------------------------------|
| Company:  | Yates Petroleum Corp.    | Local Co-ordinate Reference: | Well #11H                            |
| Project:  | Eddy County              | TVD Reference:               | 18" KB @ 3509.50usft (Silver Oak 10) |
| Site:     | Domino "AOJ" Federal Com | MD Reference:                | 18" KB @ 3509.50usft (Silver Oak 10) |
| Well:     | #11H                     | North Reference:             | Grid                                 |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                    |
| Design:   | OH                       | Database:                    | EDM 5000.1 Single User Db            |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

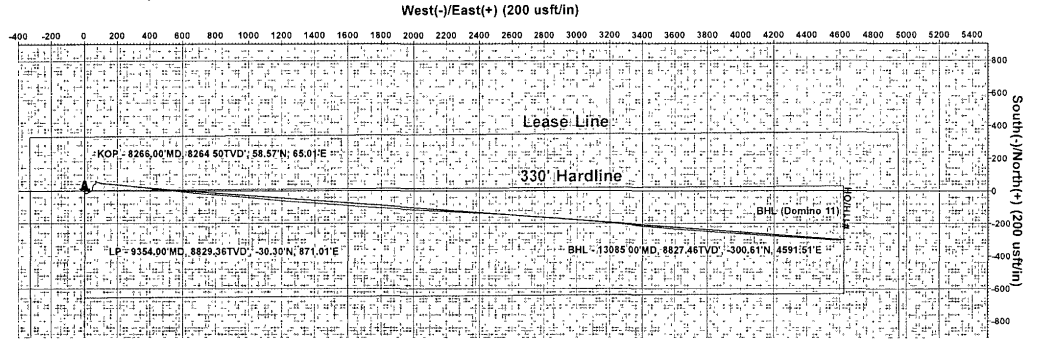




Azimuths to Grid North  
True North: -0.23°  
Magnetic North: 7.51°

Magnetic Field  
Strength: 48835.6snT  
Dip Angle: 60.55°  
Date: 8/18/2011  
Model: IGRF2010

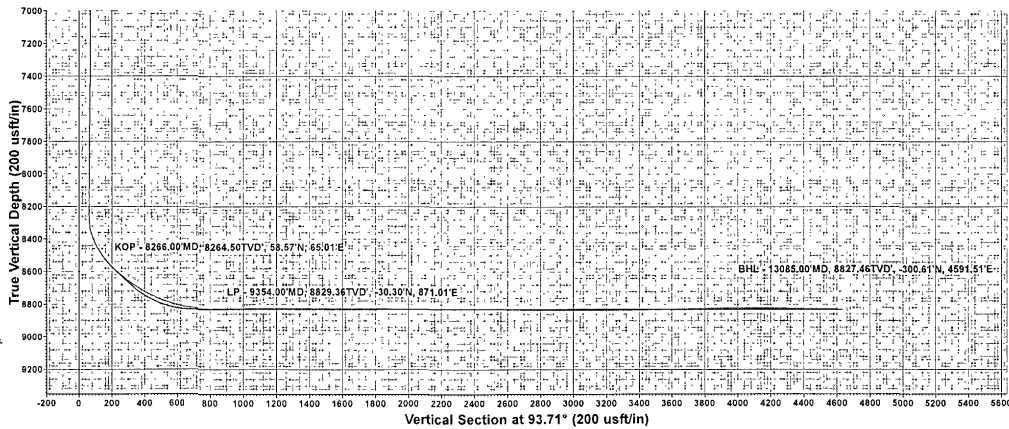
Project: Eddy County  
Site: Domino "AOJ" Federal Com  
Well: #11H  
Wellbore: OH  
Plan: Plan #3 (#11H/OH)



| SECTION DETAILS |          |       |       |         |         |         |       |       |         |                 |
|-----------------|----------|-------|-------|---------|---------|---------|-------|-------|---------|-----------------|
| Sec             | MD       | Inc   | Azi   | TVD     | +N/-S   | +E/-W   | Dleg  | TFace | VSeet   | Target          |
| 1               | 8639.00  | 46.78 | 95.51 | 8590.68 | 35.95   | 221.01  | 0.00  | 0.00  | 218.22  |                 |
| 2               | 8764.00  | 46.78 | 95.51 | 8676.28 | 27.21   | 311.68  | 0.00  | 0.00  | 309.26  |                 |
| 3               | 9191.45  | 90.00 | 94.28 | 8830.00 | -5.25   | 698.36  | 10.11 | -1.80 | 697.24  |                 |
| 4               | 13126.31 | 90.00 | 94.28 | 8830.00 | -298.91 | 4622.24 | 0.00  | 0.00  | 4631.90 | BHL (Domino 11) |

| WELL DETAILS #11H |                                     |            |            |                  |                   |      |
|-------------------|-------------------------------------|------------|------------|------------------|-------------------|------|
| Ground Elevation  | 3491.00                             |            |            |                  |                   |      |
| RKB Elevation     | 1' KB @ 3509.50usft (Silver Oak 10) |            |            |                  |                   |      |
| Rig Name          | Silver Oak 10                       |            |            |                  |                   |      |
| +N/-S             | +E/-W                               | Northing   | Easting    | Latitude         | Longitude         | Slot |
| 0.00              | 0.00                                | 610530.285 | 674984.040 | 32° 40' 39.507 N | 103° 53' 56.546 W |      |

| WELLBORE TARGET DETAILS (MAP CO-ORDINATES) |         |         |         |            |            |
|--------------------------------------------|---------|---------|---------|------------|------------|
|                                            | TVD     | +N/-S   | +E/-W   | Northing   | Easting    |
| BHL (Domino 11)                            | 8830.00 | -298.45 | 4622.21 | 610230.838 | 679586.250 |
|                                            |         |         |         | Shape      | Point      |



PROJECT DETAILS Eddy County  
Geodetic System US State Plane 1983  
Datum North American Datum 1983  
Ellipsoid GRS 1980  
Zone New Mexico Eastern Zone  
System Datum Mean Sea Level  
Local North Grid

Plan Plan #3 (#11H/OH)  
Created By Michael Trout Date 10/31, September 02 2011  
Checked \_\_\_\_\_ Date \_\_\_\_\_