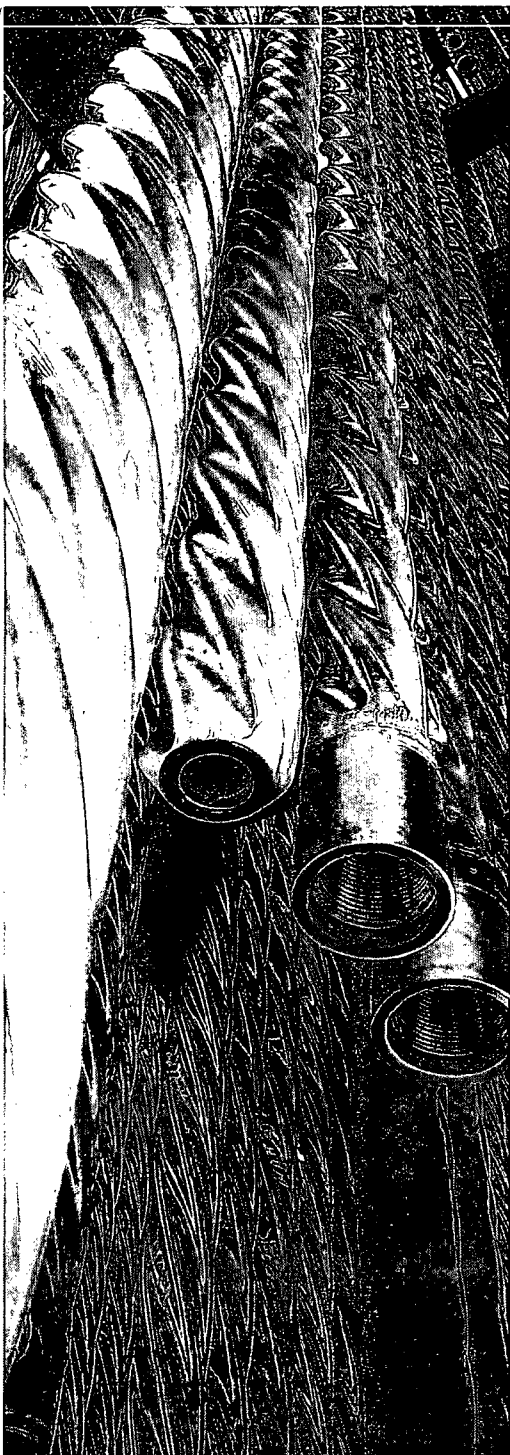




**HOBBS OCD**

**MAR 15 2019**

**RECEIVED**



**Fighting Okra 18-19 Fed No. 8H**

**Lea County, NM**

**September 04, 2018**

**Job No. LNM5172418**

**ORIGINAL**

# **Survey Completion Report**



**PRODIRECTIONAL**

## Survey Certification Letter

September 04, 2018



Operator Name: Devon Energy Corp.  
Well Name: Fighting Okra 18-19 Fed No. 8H  
County/Parish: Lea County,  
State: NM  
Rig Name: Cactus 126  
Job Number: LNM5172418

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

| Surveyor       | Surveyed Depths      | Projection to Bit | Dates Performed     | Type of Survey |
|----------------|----------------------|-------------------|---------------------|----------------|
| ProDirectional | 198' MD – 23,184' MD | 23,240' MD        | 04/27/18 – 08/04/18 | MWD            |

Sincerely,

Mike Coats  
Regulatory Specialist  
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

[prodirectional.com](http://prodirectional.com)



## **Devon Energy Corp.**

**Lea County, NM**

**Fighting Okra 18-19 Fed**

**No. 8H**

**OH**

**Survey: ProDirectional**

## **Survey Report**

**04 September, 2018**





ProDirectional  
Survey Report



Company: Devon Energy Corp.  
Project: Lea County, NM (NAD83)  
Site: Fighting Okra 18-19 Fed  
Well: 8H  
Wellbore: OH  
Design: Surveys 198-23240 MD

Local Co-ordinate Reference: Well 8H  
TVD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
MD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

Project Lea County, NM (NAD83)

Map System: US State Plane 1983  
Geo Datum: North American Datum 1983  
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Fighting Okra 18-19 Fed

|                       |           |              |                 |                   |             |
|-----------------------|-----------|--------------|-----------------|-------------------|-------------|
| Site Position:        |           | Northing:    | 382,643.65 usft | Latitude:         | 32.049254   |
| From:                 | Map       | Easting:     | 798,304.66 usft | Longitude:        | -103.503944 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.44 °      |

Well 8H

|                      |       |           |                     |                 |               |               |
|----------------------|-------|-----------|---------------------|-----------------|---------------|---------------|
| Well Position        | +N/-S | 0.00 usft | Northing:           | 382,781.85 usft | Latitude:     | 32.049667     |
|                      | +E/-W | 0.00 usft | Easting:            | 796,727.08 usft | Longitude:    | -103.509032   |
| Position Uncertainty |       | 0.00 usft | Wellhead Elevation: | usft            | Ground Level: | 3,365.00 usft |

Wellbore OH

| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|-----------|------------|-------------|--------------------|------------------|------------------------|
|           | HDGM       | 7/10/2018   | 6.73               | 59.72            | 47,788.60              |

Design Surveys 198-23240 MD

Audit Notes:

|                   |                            |                 |                 |                  |      |
|-------------------|----------------------------|-----------------|-----------------|------------------|------|
| Version:          | 1.0                        | Phase:          | ACTUAL          | Tie On Depth:    | 0.00 |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |      |
|                   | 0.00                       | 0.00            | 0.00            | 179.50           |      |

Survey Program Date 9/4/2018

| From<br>(usft) | To<br>(usft) | Survey (Wellbore) | Tool Name | Description     |
|----------------|--------------|-------------------|-----------|-----------------|
| 198.00         | 23,240.00    | Survey #1 (OH)    | MWD+HDGM  | OWSG MWD + HDGM |



# ProDirectional Survey Report



Company: Devon Energy Corp.  
Project: Lea County, NM (NAD83)  
Site: Fighting Okra 18-19 Fed  
Well: 8H  
Wellbore: OH  
Design: Surveys 198-23240 MD

Local Co-ordinate Reference: Well 8H  
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MD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

| Survey.                       |            |                      |               |                  |               |               |                            |                        |                    |                   |  |
|-------------------------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|--|
| MD<br>(usft)                  | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |  |
| 0.00                          | 0.00       | 0.00                 | 0.00          | 0.00             | 0.00          | 0.00          | 0.00                       | 0.00                   | 382,781.85         | 796,727.08        |  |
| 198.00                        | 0.40       | 67.40                | 198.00        | -0.26            | 0.27          | 0.64          | 0.69                       | 67.40                  | 382,782.12         | 796,727.72        |  |
| Pro MWD First Survey: 198' MD |            |                      |               |                  |               |               |                            |                        |                    |                   |  |
| 218.00                        | 0.30       | 53.40                | 218.00        | -0.32            | 0.32          | 0.74          | 0.81                       | 66.51                  | 382,782.17         | 796,727.82        |  |
| 310.00                        | 0.30       | 62.30                | 310.00        | -0.57            | 0.58          | 1.15          | 1.29                       | 63.29                  | 382,782.43         | 796,728.23        |  |
| 401.00                        | 0.50       | 73.50                | 400.99        | -0.79            | 0.80          | 1.74          | 1.92                       | 65.27                  | 382,782.65         | 796,728.82        |  |
| 493.00                        | 0.40       | 82.60                | 492.99        | -0.94            | 0.96          | 2.45          | 2.63                       | 68.61                  | 382,782.81         | 796,729.53        |  |
| 585.00                        | 0.40       | 88.50                | 584.99        | -0.98            | 1.01          | 3.09          | 3.25                       | 71.91                  | 382,782.86         | 796,730.17        |  |
| 678.00                        | 0.50       | 106.40               | 677.99        | -0.87            | 0.90          | 3.80          | 3.91                       | 76.65                  | 382,782.75         | 796,730.88        |  |
| 769.00                        | 0.70       | 119.90               | 768.98        | -0.47            | 0.51          | 4.66          | 4.69                       | 83.73                  | 382,782.36         | 796,731.74        |  |
| 827.00                        | 0.80       | 125.00               | 826.98        | -0.06            | 0.10          | 5.30          | 5.30                       | 88.88                  | 382,781.95         | 796,732.38        |  |
| 977.00                        | 0.40       | 135.10               | 976.97        | 0.92             | -0.87         | 6.53          | 6.59                       | 97.57                  | 382,780.98         | 796,733.61        |  |
| 1,066.00                      | 0.50       | 105.80               | 1,065.97      | 1.26             | -1.19         | 7.12          | 7.22                       | 99.51                  | 382,780.66         | 796,734.20        |  |
| 1,158.00                      | 0.80       | 91.30                | 1,157.96      | 1.39             | -1.32         | 8.15          | 8.26                       | 99.18                  | 382,780.53         | 796,735.23        |  |
| 1,250.00                      | 1.70       | 83.80                | 1,249.94      | 1.27             | -1.18         | 10.15         | 10.22                      | 96.66                  | 382,780.67         | 796,737.23        |  |
| 1,344.00                      | 2.20       | 71.10                | 1,343.88      | 0.57             | -0.45         | 13.24         | 13.25                      | 91.94                  | 382,781.40         | 796,740.32        |  |
| 1,435.00                      | 3.00       | 71.00                | 1,434.79      | -0.74            | 0.89          | 17.15         | 17.17                      | 87.02                  | 382,782.74         | 796,744.23        |  |
| 1,528.00                      | 3.80       | 65.60                | 1,527.62      | -2.76            | 2.96          | 22.25         | 22.45                      | 82.43                  | 382,784.81         | 796,749.33        |  |
| 1,620.00                      | 4.60       | 64.70                | 1,619.38      | -5.55            | 5.79          | 28.37         | 28.95                      | 78.46                  | 382,787.64         | 796,755.45        |  |
| 1,712.00                      | 5.40       | 66.50                | 1,711.03      | -8.78            | 9.10          | 35.67         | 36.81                      | 75.69                  | 382,790.95         | 796,762.75        |  |
| 1,806.00                      | 6.20       | 66.30                | 1,804.54      | -12.51           | 12.90         | 44.37         | 46.21                      | 73.79                  | 382,794.75         | 796,771.45        |  |
| 1,900.00                      | 7.00       | 66.90                | 1,897.92      | -16.71           | 17.19         | 54.29         | 56.95                      | 72.43                  | 382,799.04         | 796,781.37        |  |
| 1,994.00                      | 7.50       | 67.10                | 1,991.17      | -21.25           | 21.82         | 65.21         | 68.77                      | 71.50                  | 382,803.67         | 796,792.29        |  |
| 2,088.00                      | 8.30       | 69.00                | 2,084.28      | -25.97           | 26.64         | 77.20         | 81.66                      | 70.96                  | 382,808.49         | 796,804.28        |  |
| 2,182.00                      | 8.60       | 69.00                | 2,177.25      | -30.80           | 31.59         | 90.09         | 95.47                      | 70.68                  | 382,813.44         | 796,817.17        |  |
| 2,276.00                      | 8.70       | 70.60                | 2,270.19      | -35.57           | 36.47         | 103.36        | 109.60                     | 70.56                  | 382,818.32         | 796,830.44        |  |
| 2,370.00                      | 8.70       | 70.10                | 2,363.10      | -40.23           | 41.25         | 116.75        | 123.82                     | 70.54                  | 382,823.10         | 796,843.83        |  |



# ProDirectional Survey Report



**Company:** Devon Energy Corp.  
**Project:** Lea County, NM (NAD83)  
**Site:** Fighting Okra 18-19 Fed  
**Well:** 8H  
**Wellbore:** OH  
**Design:** Surveys 198-23240 MD

**Local Co-ordinate Reference:** Well 8H  
**TVD Reference:** GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
**MD Reference:** GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** WellPlanner1

## Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 2,464.00     | 8.90       | 71.30                | 2,456.00      | -44.86           | 46.00         | 130.32        | 138.20                     | 70.56                  | 382,827.85         | 796,857.40        |
| 2,558.00     | 9.20       | 72.80                | 2,548.83      | -49.29           | 50.56         | 144.39        | 152.98                     | 70.70                  | 382,832.41         | 796,871.47        |
| 2,652.00     | 8.80       | 73.60                | 2,641.67      | -53.42           | 54.81         | 158.46        | 167.67                     | 70.92                  | 382,836.66         | 796,885.54        |
| 2,746.00     | 8.60       | 72.60                | 2,734.59      | -57.44           | 58.94         | 172.07        | 181.88                     | 71.09                  | 382,840.79         | 796,899.15        |
| 2,840.00     | 8.90       | 72.90                | 2,827.49      | -61.56           | 63.18         | 185.73        | 196.18                     | 71.21                  | 382,845.03         | 796,912.81        |
| 2,934.00     | 8.50       | 72.40                | 2,920.41      | -65.68           | 67.42         | 199.30        | 210.39                     | 71.31                  | 382,849.27         | 796,926.38        |
| 3,028.00     | 8.90       | 74.60                | 3,013.33      | -69.59           | 71.45         | 212.93        | 224.60                     | 71.45                  | 382,853.30         | 796,940.01        |
| 3,122.00     | 9.10       | 73.00                | 3,106.17      | -73.57           | 75.55         | 227.05        | 239.29                     | 71.59                  | 382,857.40         | 796,954.13        |
| 3,216.00     | 8.80       | 71.20                | 3,199.03      | -77.94           | 80.05         | 240.96        | 253.91                     | 71.62                  | 382,861.90         | 796,968.04        |
| 3,310.00     | 9.20       | 72.60                | 3,291.87      | -82.38           | 84.61         | 254.94        | 268.61                     | 71.64                  | 382,866.46         | 796,982.02        |
| 3,404.00     | 9.30       | 73.30                | 3,384.65      | -86.69           | 89.04         | 269.39        | 283.72                     | 71.71                  | 382,870.89         | 796,996.47        |
| 3,498.00     | 9.10       | 74.10                | 3,477.44      | -90.78           | 93.26         | 283.81        | 298.74                     | 71.81                  | 382,875.11         | 797,010.89        |
| 3,592.00     | 8.60       | 73.00                | 3,570.32      | -94.75           | 97.35         | 297.68        | 313.19                     | 71.89                  | 382,879.20         | 797,024.76        |
| 3,686.00     | 7.90       | 71.10                | 3,663.35      | -98.78           | 101.50        | 310.51        | 326.68                     | 71.90                  | 382,883.35         | 797,037.59        |
| 3,779.00     | 8.20       | 72.60                | 3,755.43      | -102.73          | 105.55        | 322.89        | 339.70                     | 71.90                  | 382,887.40         | 797,049.97        |
| 3,873.00     | 7.60       | 72.60                | 3,848.54      | -106.48          | 109.41        | 335.22        | 352.62                     | 71.92                  | 382,891.26         | 797,062.30        |
| 3,968.00     | 7.30       | 74.90                | 3,942.74      | -109.83          | 112.87        | 347.04        | 364.93                     | 71.98                  | 382,894.72         | 797,074.12        |
| 4,062.00     | 7.20       | 75.20                | 4,035.99      | -112.79          | 115.93        | 358.50        | 376.78                     | 72.08                  | 382,897.78         | 797,085.58        |
| 4,156.00     | 6.70       | 70.80                | 4,129.30      | -116.01          | 119.23        | 369.37        | 388.14                     | 72.11                  | 382,901.08         | 797,096.45        |
| 4,250.00     | 6.30       | 73.70                | 4,222.69      | -119.17          | 122.48        | 379.50        | 398.78                     | 72.11                  | 382,904.33         | 797,106.58        |
| 4,344.00     | 6.70       | 71.00                | 4,316.09      | -122.31          | 125.72        | 389.64        | 409.42                     | 72.12                  | 382,907.57         | 797,116.72        |
| 4,438.00     | 7.00       | 66.90                | 4,409.42      | -126.25          | 129.75        | 400.09        | 420.60                     | 72.03                  | 382,911.60         | 797,127.17        |
| 4,533.00     | 8.00       | 66.80                | 4,503.60      | -131.03          | 134.63        | 411.49        | 432.96                     | 71.88                  | 382,916.48         | 797,138.57        |
| 4,627.00     | 9.20       | 70.90                | 4,596.54      | -135.95          | 139.66        | 424.61        | 446.99                     | 71.79                  | 382,921.51         | 797,151.69        |
| 4,720.00     | 8.50       | 72.60                | 4,688.44      | -140.32          | 144.15        | 438.19        | 461.29                     | 71.79                  | 382,926.00         | 797,165.27        |
| 4,814.00     | 8.40       | 70.10                | 4,781.42      | -144.62          | 148.56        | 451.28        | 475.10                     | 71.78                  | 382,930.41         | 797,178.36        |
| 4,909.00     | 8.90       | 72.60                | 4,875.34      | -149.06          | 153.12        | 464.81        | 489.39                     | 71.77                  | 382,934.97         | 797,191.89        |



ProDirectional  
Survey Report



Company: Devon Energy Corp.  
Project: Lea County, NM (NAD83)  
Site: Fighting Okra 18-19 Fed  
Well: 8H  
Wellbore: OH  
Design: Surveys 198-23240 MD

Local Co-ordinate Reference: Well 8H  
TVD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
MD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 5,003.00     | 8.80       | 72.90                | 4,968.22      | -153.23          | 157.41        | 478.62        | 503.84                     | 71.79                  | 382,939.26         | 797,205.70        |
| 5,097.00     | 8.70       | 75.60                | 5,061.12      | -156.99          | 161.29        | 492.38        | 518.13                     | 71.86                  | 382,943.14         | 797,219.46        |
| 5,191.00     | 7.50       | 69.30                | 5,154.19      | -160.82          | 165.23        | 505.01        | 531.35                     | 71.88                  | 382,947.08         | 797,232.09        |
| 5,285.00     | 6.80       | 67.60                | 5,247.45      | -165.01          | 169.52        | 515.89        | 543.03                     | 71.81                  | 382,951.37         | 797,242.97        |
| 5,379.00     | 6.50       | 66.60                | 5,340.82      | -169.16          | 173.75        | 525.92        | 553.88                     | 71.72                  | 382,955.60         | 797,253.00        |
| 5,473.00     | 7.20       | 66.20                | 5,434.15      | -173.56          | 178.24        | 536.19        | 565.04                     | 71.61                  | 382,960.09         | 797,263.27        |
| 5,568.00     | 8.10       | 67.10                | 5,528.30      | -178.46          | 183.25        | 547.80        | 577.64                     | 71.50                  | 382,965.10         | 797,274.88        |
| 5,662.00     | 8.60       | 67.60                | 5,621.31      | -183.61          | 188.51        | 560.40        | 591.26                     | 71.41                  | 382,970.36         | 797,287.48        |
| 5,756.00     | 8.40       | 68.00                | 5,714.27      | -188.75          | 193.76        | 573.27        | 605.13                     | 71.33                  | 382,975.61         | 797,300.35        |
| 5,850.00     | 8.50       | 66.70                | 5,807.25      | -193.96          | 199.08        | 586.01        | 618.91                     | 71.24                  | 382,980.93         | 797,313.09        |
| 5,944.00     | 8.40       | 65.60                | 5,900.23      | -199.43          | 204.66        | 598.65        | 632.66                     | 71.13                  | 382,986.51         | 797,325.73        |
| 6,038.00     | 8.20       | 65.20                | 5,993.25      | -204.97          | 210.31        | 610.98        | 646.17                     | 71.01                  | 382,992.16         | 797,338.06        |
| 6,132.00     | 8.60       | 67.20                | 6,086.24      | -210.39          | 215.84        | 623.55        | 659.85                     | 70.91                  | 382,997.69         | 797,350.63        |
| 6,226.00     | 8.50       | 66.40                | 6,179.20      | -215.79          | 221.35        | 636.39        | 673.79                     | 70.82                  | 383,003.20         | 797,363.47        |
| 6,320.00     | 8.00       | 68.10                | 6,272.22      | -220.90          | 226.57        | 648.83        | 687.25                     | 70.75                  | 383,008.42         | 797,375.91        |
| 6,414.00     | 8.00       | 66.50                | 6,365.31      | -225.84          | 231.62        | 660.90        | 700.31                     | 70.69                  | 383,013.47         | 797,387.98        |
| 6,508.00     | 8.00       | 64.80                | 6,458.39      | -231.13          | 237.01        | 672.81        | 713.34                     | 70.59                  | 383,018.86         | 797,399.89        |
| 6,602.00     | 8.20       | 66.40                | 6,551.46      | -236.49          | 242.48        | 684.88        | 726.53                     | 70.50                  | 383,024.33         | 797,411.96        |
| 6,696.00     | 8.20       | 67.50                | 6,644.50      | -241.64          | 247.73        | 697.21        | 739.92                     | 70.44                  | 383,029.58         | 797,424.29        |
| 6,790.00     | 8.40       | 69.50                | 6,737.51      | -246.50          | 252.70        | 709.84        | 753.48                     | 70.40                  | 383,034.55         | 797,436.92        |
| 6,884.00     | 8.70       | 69.90                | 6,830.47      | -251.23          | 257.55        | 722.94        | 767.45                     | 70.39                  | 383,039.40         | 797,450.02        |
| 6,978.00     | 8.80       | 73.10                | 6,923.37      | -255.64          | 262.08        | 736.50        | 781.74                     | 70.41                  | 383,043.93         | 797,463.58        |
| 7,072.00     | 8.60       | 74.10                | 7,016.29      | -259.54          | 266.10        | 750.14        | 795.94                     | 70.47                  | 383,047.95         | 797,477.22        |
| 7,166.00     | 8.90       | 75.10                | 7,109.20      | -263.21          | 269.89        | 763.93        | 810.20                     | 70.54                  | 383,051.74         | 797,491.01        |
| 7,261.00     | 8.80       | 75.30                | 7,203.07      | -266.82          | 273.63        | 778.06        | 824.77                     | 70.62                  | 383,055.48         | 797,505.14        |
| 7,355.00     | 8.60       | 75.40                | 7,295.98      | -270.30          | 277.22        | 791.81        | 838.94                     | 70.70                  | 383,059.07         | 797,518.89        |
| 7,449.00     | 8.90       | 73.40                | 7,388.89      | -274.03          | 281.07        | 805.58        | 853.21                     | 70.77                  | 383,062.92         | 797,532.66        |



# ProDirectional Survey Report



Company: Devon Energy Corp.  
Project: Lea County, NM (NAD83)  
Site: Fighting Okra 18-19 Fed  
Well: 8H  
Wellbore: OH  
Design: Surveys 198-23240 MD

Local Co-ordinate Reference: Well 8H  
TVD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
MD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

| Survey       |            |                      |  |               |                  |               |               |                            |                        |                    |                   |
|--------------|------------|----------------------|--|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) |  | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
| 7,543.00     | 8.70       | 72.90                |  | 7,481.78      | -278.08          | 285.24        | 819.35        | 867.58                     | 70.81                  | 383,067.09         | 797,546.43        |
| 7,637.00     | 9.00       | 73.60                |  | 7,574.66      | -282.12          | 289.40        | 833.19        | 882.02                     | 70.85                  | 383,071.25         | 797,560.27        |
| 7,731.00     | 8.40       | 73.70                |  | 7,667.58      | -286.01          | 293.41        | 846.84        | 896.23                     | 70.89                  | 383,075.26         | 797,573.92        |
| 7,825.00     | 8.50       | 74.90                |  | 7,760.56      | -289.63          | 297.14        | 860.13        | 910.01                     | 70.94                  | 383,078.99         | 797,587.21        |
| 7,919.00     | 8.00       | 75.70                |  | 7,853.59      | -292.94          | 300.57        | 873.18        | 923.46                     | 71.01                  | 383,082.42         | 797,600.26        |
| 8,013.00     | 8.30       | 76.10                |  | 7,946.64      | -296.07          | 303.81        | 886.10        | 936.74                     | 71.07                  | 383,085.66         | 797,613.18        |
| 8,107.00     | 7.30       | 76.40                |  | 8,039.77      | -299.00          | 306.85        | 898.50        | 949.45                     | 71.14                  | 383,088.70         | 797,625.58        |
| 8,202.00     | 6.70       | 74.80                |  | 8,134.06      | -301.77          | 309.72        | 909.71        | 960.99                     | 71.20                  | 383,091.57         | 797,636.79        |
| 8,295.00     | 5.30       | 77.80                |  | 8,226.55      | -304.02          | 312.05        | 919.14        | 970.67                     | 71.25                  | 383,093.90         | 797,646.22        |
| 8,390.00     | 5.00       | 82.60                |  | 8,321.17      | -305.41          | 313.51        | 927.54        | 979.09                     | 71.32                  | 383,095.36         | 797,654.62        |
| 8,484.00     | 4.60       | 83.70                |  | 8,414.84      | -306.28          | 314.45        | 935.35        | 986.79                     | 71.42                  | 383,096.30         | 797,662.43        |
| 8,577.00     | 4.30       | 81.90                |  | 8,507.56      | -307.12          | 315.35        | 942.51        | 993.86                     | 71.50                  | 383,097.20         | 797,669.59        |
| 8,672.00     | 4.30       | 79.70                |  | 8,602.29      | -308.19          | 316.49        | 949.54        | 1,000.89                   | 71.57                  | 383,098.34         | 797,676.62        |
| 8,766.00     | 4.20       | 80.60                |  | 8,696.03      | -309.33          | 317.68        | 956.40        | 1,007.78                   | 71.63                  | 383,099.53         | 797,683.48        |
| 8,860.00     | 3.90       | 79.90                |  | 8,789.79      | -310.39          | 318.81        | 962.94        | 1,014.34                   | 71.68                  | 383,100.66         | 797,690.02        |
| 8,954.00     | 3.70       | 80.80                |  | 8,883.59      | -311.38          | 319.85        | 969.08        | 1,020.50                   | 71.73                  | 383,101.70         | 797,696.16        |
| 9,048.00     | 3.20       | 83.00                |  | 8,977.42      | -312.14          | 320.66        | 974.68        | 1,026.07                   | 71.79                  | 383,102.51         | 797,701.76        |
| 9,142.00     | 2.80       | 85.20                |  | 9,071.29      | -312.61          | 321.17        | 979.57        | 1,030.88                   | 71.85                  | 383,103.02         | 797,706.65        |
| 9,236.00     | 2.50       | 91.00                |  | 9,165.19      | -312.73          | 321.33        | 983.91        | 1,035.05                   | 71.91                  | 383,103.18         | 797,710.99        |
| 9,330.00     | 2.20       | 91.90                |  | 9,259.11      | -312.60          | 321.23        | 987.76        | 1,038.68                   | 71.98                  | 383,103.08         | 797,714.84        |
| 9,424.00     | 1.90       | 95.90                |  | 9,353.05      | -312.35          | 321.01        | 991.12        | 1,041.81                   | 72.05                  | 383,102.86         | 797,718.20        |
| 9,518.00     | 1.60       | 101.10               |  | 9,447.00      | -311.91          | 320.60        | 993.95        | 1,044.38                   | 72.12                  | 383,102.45         | 797,721.03        |
| 9,612.00     | 1.50       | 102.40               |  | 9,540.97      | -311.37          | 320.08        | 996.44        | 1,046.59                   | 72.19                  | 383,101.93         | 797,723.52        |
| 9,706.00     | 1.40       | 91.60                |  | 9,634.94      | -311.06          | 319.78        | 998.79        | 1,048.74                   | 72.25                  | 383,101.63         | 797,725.87        |
| 9,801.00     | 1.40       | 95.60                |  | 9,729.91      | -310.89          | 319.64        | 1,001.11      | 1,050.90                   | 72.29                  | 383,101.49         | 797,728.19        |
| 9,895.00     | 1.30       | 99.30                |  | 9,823.89      | -310.59          | 319.35        | 1,003.30      | 1,052.90                   | 72.34                  | 383,101.20         | 797,730.38        |
| 9,989.00     | 1.10       | 101.40               |  | 9,917.87      | -310.22          | 319.00        | 1,005.24      | 1,054.64                   | 72.39                  | 383,100.85         | 797,732.32        |





ProDirectional  
Survey Report



Company: Devon Energy Corp.  
Project: Lea County, NM (NAD83)  
Site: Fighting Okra 18-19 Fed  
Well: 8H  
Wellbore: OH  
Design: Surveys 198-23240 MD

Local Co-ordinate Reference: Well 8H  
TVD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
MD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 10,083.00    | 1.30       | 102.60               | 10,011.84     | -309.79          | 318.59        | 1,007.17      | 1,056.35                   | 72.45                  | 383,100.44         | 797,734.25        |
| 10,177.00    | 1.70       | 104.30               | 10,105.81     | -309.19          | 318.02        | 1,009.56      | 1,058.46                   | 72.52                  | 383,099.87         | 797,736.64        |
| 10,271.00    | 1.30       | 95.60                | 10,199.78     | -308.72          | 317.57        | 1,011.97      | 1,060.63                   | 72.58                  | 383,099.42         | 797,739.05        |
| 10,366.00    | 2.10       | 107.30               | 10,294.74     | -308.08          | 316.94        | 1,014.70      | 1,063.05                   | 72.65                  | 383,098.79         | 797,741.78        |
| 10,460.00    | 1.80       | 114.90               | 10,388.68     | -306.92          | 315.81        | 1,017.69      | 1,065.56                   | 72.76                  | 383,097.66         | 797,744.77        |
| 10,554.00    | 1.10       | 121.40               | 10,482.65     | -305.81          | 314.72        | 1,019.80      | 1,067.26                   | 72.85                  | 383,096.57         | 797,746.88        |
| 10,648.00    | 0.70       | 112.40               | 10,576.64     | -305.11          | 314.03        | 1,021.10      | 1,068.30                   | 72.91                  | 383,095.88         | 797,748.18        |
| 10,742.00    | 0.20       | 23.30                | 10,670.64     | -305.03          | 313.96        | 1,021.69      | 1,068.84                   | 72.92                  | 383,095.81         | 797,748.77        |
| 10,836.00    | 0.60       | 319.10               | 10,764.64     | -305.56          | 314.48        | 1,021.44      | 1,068.75                   | 72.89                  | 383,096.33         | 797,748.52        |
| 10,930.00    | 0.40       | 329.20               | 10,858.63     | -306.22          | 315.14        | 1,020.95      | 1,068.48                   | 72.85                  | 383,096.99         | 797,748.03        |
| 11,025.00    | 0.40       | 253.60               | 10,953.63     | -306.41          | 315.33        | 1,020.46      | 1,068.07                   | 72.83                  | 383,097.18         | 797,747.54        |
| 11,118.00    | 0.60       | 219.50               | 11,046.63     | -305.95          | 314.86        | 1,019.84      | 1,067.34                   | 72.84                  | 383,096.71         | 797,746.92        |
| 11,212.00    | 0.90       | 222.60               | 11,140.62     | -305.03          | 313.94        | 1,019.02      | 1,066.29                   | 72.88                  | 383,095.79         | 797,746.10        |
| 11,306.00    | 1.30       | 229.10               | 11,234.60     | -303.80          | 312.70        | 1,017.72      | 1,064.67                   | 72.92                  | 383,094.55         | 797,744.80        |
| 11,400.00    | 1.80       | 225.90               | 11,328.57     | -302.10          | 310.97        | 1,015.85      | 1,062.38                   | 72.98                  | 383,092.82         | 797,742.93        |
| 11,495.00    | 2.50       | 221.20               | 11,423.50     | -299.52          | 308.37        | 1,013.42      | 1,059.30                   | 73.08                  | 383,090.22         | 797,740.50        |
| 11,589.00    | 2.20       | 222.70               | 11,517.42     | -296.67          | 305.51        | 1,010.84      | 1,056.00                   | 73.18                  | 383,087.36         | 797,737.92        |
| 11,683.00    | 1.90       | 216.40               | 11,611.36     | -294.11          | 302.93        | 1,008.69      | 1,053.20                   | 73.28                  | 383,084.78         | 797,735.77        |
| 11,777.00    | 2.10       | 223.10               | 11,705.30     | -291.62          | 300.41        | 1,006.59      | 1,050.46                   | 73.38                  | 383,082.26         | 797,733.67        |
| 11,871.00    | 3.00       | 233.70               | 11,799.21     | -288.93          | 297.70        | 1,003.43      | 1,046.66                   | 73.48                  | 383,079.55         | 797,730.51        |
| 11,965.00    | 3.40       | 226.40               | 11,893.06     | -285.59          | 294.32        | 999.43        | 1,041.87                   | 73.59                  | 383,076.17         | 797,726.51        |
| 12,060.00    | 3.00       | 228.20               | 11,987.92     | -282.02          | 290.72        | 995.54        | 1,037.12                   | 73.72                  | 383,072.57         | 797,722.62        |
| 12,154.00    | 2.60       | 231.40               | 12,081.80     | -279.08          | 287.75        | 992.04        | 1,032.93                   | 73.82                  | 383,069.60         | 797,719.12        |
| 12,248.00    | 2.20       | 239.10               | 12,175.72     | -276.86          | 285.50        | 988.82        | 1,029.21                   | 73.90                  | 383,067.35         | 797,715.90        |
| 12,341.00    | 1.50       | 248.80               | 12,268.67     | -275.52          | 284.14        | 986.16        | 1,026.28                   | 73.93                  | 383,065.99         | 797,713.24        |
| 12,417.00    | 1.50       | 248.20               | 12,344.65     | -274.81          | 283.41        | 984.31        | 1,024.30                   | 73.94                  | 383,065.26         | 797,711.39        |
| 12,529.00    | 5.40       | 174.00               | 12,456.45     | -269.03          | 277.62        | 983.50        | 1,021.93                   | 74.24                  | 383,059.47         | 797,710.58        |



ProDirectional  
Survey Report



Company: Devon Energy Corp.  
Project: Lea County, NM (NAD83)  
Site: Fighting Okra 18-19 Fed  
Well: 8H  
Wellbore: OH  
Design: Surveys 198-23240 MD

Local Co-ordinate Reference: Well 8H  
TVD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
MD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 12,623.00    | 11.30      | 181.40               | 12,549.42     | -255.41          | 264.00        | 983.73        | 1,018.54                   | 74.98                  | 383,045.85         | 797,710.81        |
| 12,689.00    | 21.00      | 176.00               | 12,612.74     | -237.10          | 245.70        | 984.40        | 1,014.60                   | 75.99                  | 383,027.55         | 797,711.48        |
| 12,717.00    | 23.50      | 175.30               | 12,638.66     | -226.52          | 235.13        | 985.21        | 1,012.88                   | 76.58                  | 383,016.98         | 797,712.29        |
| 12,764.00    | 29.30      | 173.20               | 12,680.74     | -205.72          | 214.35        | 987.34        | 1,010.34                   | 77.75                  | 382,996.20         | 797,714.42        |
| 12,811.00    | 35.80      | 172.90               | 12,720.33     | -180.61          | 189.26        | 990.41        | 1,008.33                   | 79.18                  | 382,971.11         | 797,717.49        |
| 12,862.00    | 44.20      | 174.40               | 12,759.37     | -148.03          | 156.71        | 993.99        | 1,006.27                   | 81.04                  | 382,938.56         | 797,721.07        |
| 12,918.00    | 51.90      | 177.30               | 12,796.78     | -106.50          | 115.20        | 996.94        | 1,003.57                   | 83.41                  | 382,897.05         | 797,724.02        |
| 12,965.00    | 58.00      | 178.80               | 12,823.76     | -68.05           | 76.77         | 998.23        | 1,001.17                   | 85.60                  | 382,858.62         | 797,725.31        |
| 13,013.00    | 64.50      | 179.60               | 12,846.83     | -25.99           | 34.71         | 998.81        | 999.41                     | 88.01                  | 382,816.56         | 797,725.89        |
| 13,107.00    | 71.50      | 180.20               | 12,882.03     | 61.10            | -52.39        | 998.95        | 1,000.32                   | 93.00                  | 382,729.46         | 797,726.03        |
| 13,154.00    | 76.70      | 181.60               | 12,894.90     | 106.28           | -97.57        | 998.23        | 1,002.99                   | 95.58                  | 382,684.28         | 797,725.31        |
| 13,202.00    | 78.30      | 181.10               | 12,905.29     | 153.11           | -144.42       | 997.13        | 1,007.53                   | 98.24                  | 382,637.43         | 797,724.21        |
| 13,296.00    | 87.90      | 184.40               | 12,916.57     | 246.16           | -237.50       | 992.63        | 1,020.65                   | 103.46                 | 382,544.35         | 797,719.71        |
| 13,391.00    | 88.40      | 183.90               | 12,919.64     | 340.79           | -332.20       | 985.76        | 1,040.23                   | 108.62                 | 382,449.65         | 797,712.84        |
| 13,485.00    | 90.20      | 182.80               | 12,920.78     | 434.57           | -426.03       | 980.26        | 1,068.84                   | 113.49                 | 382,355.82         | 797,707.34        |
| 13,579.00    | 91.20      | 180.50               | 12,919.64     | 528.49           | -519.98       | 977.56        | 1,107.25                   | 118.01                 | 382,261.87         | 797,704.64        |
| 13,674.00    | 89.80      | 179.00               | 12,918.81     | 623.48           | -614.97       | 977.97        | 1,155.26                   | 122.16                 | 382,166.88         | 797,705.05        |
| 13,768.00    | 89.30      | 178.40               | 12,919.55     | 717.47           | -708.94       | 980.10        | 1,209.63                   | 125.88                 | 382,072.91         | 797,707.18        |
| 13,862.00    | 90.10      | 179.10               | 12,920.04     | 811.46           | -802.92       | 982.16        | 1,268.58                   | 129.27                 | 381,978.93         | 797,709.24        |
| 13,957.00    | 92.30      | 179.10               | 12,918.05     | 906.43           | -897.88       | 983.65        | 1,331.82                   | 132.39                 | 381,883.97         | 797,710.73        |
| 14,050.00    | 94.20      | 180.90               | 12,912.78     | 999.27           | -990.72       | 983.65        | 1,396.10                   | 135.21                 | 381,791.13         | 797,710.73        |
| 14,145.00    | 90.70      | 179.20               | 12,908.71     | 1,094.16         | -1,085.61     | 983.57        | 1,464.91                   | 137.82                 | 381,696.24         | 797,710.65        |
| 14,239.00    | 89.60      | 179.70               | 12,908.47     | 1,188.15         | -1,179.61     | 984.47        | 1,536.44                   | 140.15                 | 381,602.24         | 797,711.55        |
| 14,334.00    | 87.20      | 177.40               | 12,911.12     | 1,283.09         | -1,274.53     | 986.87        | 1,611.94                   | 142.25                 | 381,507.32         | 797,713.95        |
| 14,429.00    | 87.00      | 177.00               | 12,915.93     | 1,377.89         | -1,369.29     | 991.51        | 1,690.58                   | 144.09                 | 381,412.56         | 797,718.59        |
| 14,523.00    | 86.50      | 175.70               | 12,921.26     | 1,471.60         | -1,462.95     | 997.48        | 1,770.65                   | 145.71                 | 381,318.90         | 797,724.56        |
| 14,618.00    | 87.30      | 177.10               | 12,926.39     | 1,566.32         | -1,557.62     | 1,003.44      | 1,852.85                   | 147.21                 | 381,224.23         | 797,730.52        |



ProDirectional  
Survey Report



Company: Devon Energy Corp.  
Project: Lea County, NM (NAD83)  
Site: Fighting Okra 18-19 Fed  
Well: 8H  
Wellbore: OH  
Design: Surveys 198-23240 MD

Local Co-ordinate Reference: Well 8H  
TVD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
MD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 14,712.00    | 91.30      | 177.80               | 12,927.54     | 1,660.23         | -1,651.50     | 1,007.62      | 1,934.62                   | 148.61                 | 381,130.35         | 797,734.70        |
| 14,807.00    | 90.60      | 178.50               | 12,925.97     | 1,755.19         | -1,746.44     | 1,010.68      | 2,017.80                   | 149.94                 | 381,035.41         | 797,737.76        |
| 14,901.00    | 91.30      | 181.60               | 12,924.41     | 1,849.16         | -1,840.41     | 1,010.60      | 2,099.63                   | 151.23                 | 380,941.44         | 797,737.68        |
| 14,996.00    | 88.40      | 182.40               | 12,924.66     | 1,944.06         | -1,935.34     | 1,007.29      | 2,181.78                   | 152.50                 | 380,846.51         | 797,734.37        |
| 15,091.00    | 89.40      | 181.90               | 12,926.48     | 2,038.94         | -2,030.26     | 1,003.72      | 2,264.82                   | 153.69                 | 380,751.59         | 797,730.80        |
| 15,186.00    | 85.80      | 180.40               | 12,930.46     | 2,133.80         | -2,125.13     | 1,001.82      | 2,349.43                   | 154.76                 | 380,656.72         | 797,728.90        |
| 15,280.00    | 90.30      | 181.70               | 12,933.66     | 2,227.68         | -2,219.04     | 1,000.09      | 2,433.99                   | 155.74                 | 380,562.81         | 797,727.17        |
| 15,375.00    | 90.30      | 179.80               | 12,933.16     | 2,322.65         | -2,314.02     | 998.85        | 2,520.40                   | 156.65                 | 380,467.83         | 797,725.93        |
| 15,470.00    | 89.70      | 179.50               | 12,933.16     | 2,417.65         | -2,409.02     | 999.43        | 2,608.11                   | 157.47                 | 380,372.83         | 797,726.51        |
| 15,564.00    | 89.00      | 178.80               | 12,934.23     | 2,511.64         | -2,503.00     | 1,000.83      | 2,695.68                   | 158.21                 | 380,278.85         | 797,727.91        |
| 15,659.00    | 91.10      | 179.70               | 12,934.14     | 2,606.64         | -2,597.99     | 1,002.07      | 2,784.55                   | 158.91                 | 380,183.86         | 797,729.15        |
| 15,753.00    | 90.20      | 181.50               | 12,933.08     | 2,700.61         | -2,691.97     | 1,001.08      | 2,872.09                   | 159.60                 | 380,089.88         | 797,728.16        |
| 15,848.00    | 87.90      | 182.10               | 12,934.65     | 2,795.51         | -2,786.91     | 998.10        | 2,960.25                   | 160.30                 | 379,994.94         | 797,725.18        |
| 15,943.00    | 87.90      | 182.00               | 12,938.13     | 2,890.35         | -2,881.78     | 994.71        | 3,048.62                   | 160.96                 | 379,900.07         | 797,721.79        |
| 16,038.00    | 90.50      | 180.40               | 12,939.46     | 2,985.29         | -2,976.74     | 992.72        | 3,137.91                   | 161.56                 | 379,805.11         | 797,719.80        |
| 16,134.00    | 92.10      | 177.60               | 12,937.28     | 3,081.25         | -3,072.69     | 994.39        | 3,229.59                   | 162.07                 | 379,709.16         | 797,721.47        |
| 16,229.00    | 93.50      | 177.70               | 12,932.64     | 3,176.09         | -3,167.49     | 998.28        | 3,321.08                   | 162.51                 | 379,614.36         | 797,725.36        |
| 16,324.00    | 89.10      | 177.40               | 12,930.49     | 3,270.98         | -3,262.36     | 1,002.34      | 3,412.87                   | 162.92                 | 379,519.49         | 797,729.42        |
| 16,418.00    | 89.80      | 177.70               | 12,931.39     | 3,364.92         | -3,356.27     | 1,006.36      | 3,503.90                   | 163.31                 | 379,425.58         | 797,733.44        |
| 16,512.00    | 90.30      | 178.00               | 12,931.31     | 3,458.88         | -3,450.20     | 1,009.89      | 3,594.96                   | 163.69                 | 379,331.65         | 797,736.97        |
| 16,606.00    | 89.60      | 178.50               | 12,931.39     | 3,552.86         | -3,544.16     | 1,012.76      | 3,686.02                   | 164.05                 | 379,237.69         | 797,739.84        |
| 16,701.00    | 89.10      | 174.20               | 12,932.47     | 3,647.69         | -3,638.94     | 1,018.80      | 3,778.86                   | 164.36                 | 379,142.91         | 797,745.88        |
| 16,795.00    | 89.40      | 177.80               | 12,933.70     | 3,741.49         | -3,732.68     | 1,025.36      | 3,870.95                   | 164.64                 | 379,049.17         | 797,752.44        |
| 16,890.00    | 90.40      | 180.70               | 12,933.86     | 3,836.48         | -3,827.66     | 1,026.60      | 3,962.94                   | 164.99                 | 378,954.19         | 797,753.68        |
| 16,985.00    | 89.70      | 179.20               | 12,933.78     | 3,931.47         | -3,922.66     | 1,026.68      | 4,054.79                   | 165.33                 | 378,859.19         | 797,753.76        |
| 17,080.00    | 90.70      | 186.10               | 12,933.45     | 4,026.27         | -4,017.50     | 1,022.29      | 4,145.53                   | 165.72                 | 378,764.35         | 797,749.37        |
| 17,175.00    | 88.40      | 181.70               | 12,934.19     | 4,120.96         | -4,112.25     | 1,015.83      | 4,235.86                   | 166.12                 | 378,669.60         | 797,742.91        |



ProDirectional  
Survey Report



Company: Devon Energy Corp.  
Project: Lea County, NM (NAD83)  
Site: Fighting Okra 18-19 Fed  
Well: 8H  
Wellbore: OH  
Design: Surveys 198-23240 MD

Local Co-ordinate Reference: Well 8H  
TVD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
MD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 17,269.00    | 88.80      | 180.50               | 12,936.49     | 4,214.89         | -4,206.20     | 1,014.03      | 4,326.70                   | 166.45                 | 378,575.65         | 797,741.11        |
| 17,363.00    | 87.60      | 179.80               | 12,939.44     | 4,308.83         | -4,300.15     | 1,013.78      | 4,418.04                   | 166.73                 | 378,481.70         | 797,740.86        |
| 17,457.00    | 88.10      | 178.90               | 12,942.97     | 4,402.77         | -4,394.08     | 1,014.85      | 4,509.75                   | 167.00                 | 378,387.77         | 797,741.93        |
| 17,552.00    | 92.40      | 178.60               | 12,942.56     | 4,497.73         | -4,489.03     | 1,016.92      | 4,602.77                   | 167.24                 | 378,292.82         | 797,744.00        |
| 17,647.00    | 90.20      | 178.20               | 12,940.40     | 4,592.69         | -4,583.96     | 1,019.57      | 4,695.98                   | 167.46                 | 378,197.89         | 797,746.65        |
| 17,742.00    | 90.70      | 177.40               | 12,939.65     | 4,687.64         | -4,678.89     | 1,023.22      | 4,789.47                   | 167.66                 | 378,102.96         | 797,750.30        |
| 17,837.00    | 88.70      | 176.80               | 12,940.15     | 4,782.55         | -4,773.76     | 1,028.03      | 4,883.20                   | 167.85                 | 378,008.09         | 797,755.11        |
| 17,931.00    | 88.60      | 177.80               | 12,942.37     | 4,876.45         | -4,867.63     | 1,032.45      | 4,975.92                   | 168.02                 | 377,914.22         | 797,759.53        |
| 18,025.00    | 89.00      | 179.40               | 12,944.33     | 4,970.42         | -4,961.58     | 1,034.75      | 5,068.33                   | 168.22                 | 377,820.27         | 797,761.83        |
| 18,120.00    | 88.90      | 178.10               | 12,946.08     | 5,065.39         | -5,056.54     | 1,036.82      | 5,161.74                   | 168.41                 | 377,725.31         | 797,763.90        |
| 18,214.00    | 91.60      | 182.40               | 12,945.67     | 5,159.35         | -5,150.50     | 1,036.41      | 5,253.75                   | 168.62                 | 377,631.35         | 797,763.49        |
| 18,309.00    | 92.10      | 183.10               | 12,942.60     | 5,254.15         | -5,245.35     | 1,031.86      | 5,345.87                   | 168.87                 | 377,536.50         | 797,758.94        |
| 18,403.00    | 90.50      | 180.30               | 12,940.47     | 5,348.04         | -5,339.27     | 1,029.07      | 5,437.53                   | 169.09                 | 377,442.58         | 797,756.15        |
| 18,498.00    | 88.90      | 179.50               | 12,940.96     | 5,443.04         | -5,434.26     | 1,029.23      | 5,530.87                   | 169.28                 | 377,347.59         | 797,756.31        |
| 18,593.00    | 87.00      | 178.60               | 12,944.36     | 5,537.97         | -5,529.18     | 1,030.81      | 5,624.45                   | 169.44                 | 377,252.67         | 797,757.89        |
| 18,688.00    | 89.60      | 179.70               | 12,947.18     | 5,632.91         | -5,624.12     | 1,032.22      | 5,718.06                   | 169.60                 | 377,157.73         | 797,759.30        |
| 18,782.00    | 91.60      | 179.50               | 12,946.20     | 5,726.90         | -5,718.11     | 1,032.87      | 5,810.64                   | 169.76                 | 377,063.74         | 797,759.95        |
| 18,877.00    | 90.40      | 178.40               | 12,944.54     | 5,821.88         | -5,813.07     | 1,034.61      | 5,904.43                   | 169.91                 | 376,968.78         | 797,761.69        |
| 18,972.00    | 92.30      | 178.60               | 12,942.30     | 5,916.84         | -5,908.01     | 1,037.10      | 5,998.35                   | 170.04                 | 376,873.84         | 797,764.18        |
| 19,066.00    | 94.40      | 179.10               | 12,936.81     | 6,010.66         | -6,001.83     | 1,038.98      | 6,091.09                   | 170.18                 | 376,780.02         | 797,766.06        |
| 19,160.00    | 92.20      | 179.90               | 12,931.40     | 6,104.50         | -6,095.66     | 1,039.80      | 6,183.71                   | 170.32                 | 376,686.19         | 797,766.88        |
| 19,255.00    | 92.30      | 178.10               | 12,927.67     | 6,199.42         | -6,190.57     | 1,041.46      | 6,277.56                   | 170.45                 | 376,591.28         | 797,768.54        |
| 19,349.00    | 88.80      | 178.40               | 12,926.76     | 6,293.38         | -6,284.51     | 1,044.33      | 6,370.69                   | 170.57                 | 376,497.34         | 797,771.41        |
| 19,444.00    | 88.60      | 181.60               | 12,928.92     | 6,388.34         | -6,379.47     | 1,044.33      | 6,464.38                   | 170.70                 | 376,402.38         | 797,771.41        |
| 19,539.00    | 87.00      | 180.50               | 12,932.57     | 6,483.23         | -6,474.38     | 1,042.59      | 6,557.79                   | 170.85                 | 376,307.47         | 797,769.67        |
| 19,633.00    | 87.50      | 179.60               | 12,937.08     | 6,577.12         | -6,568.27     | 1,042.51      | 6,650.49                   | 170.98                 | 376,213.58         | 797,769.59        |
| 19,727.00    | 87.20      | 178.80               | 12,941.42     | 6,671.01         | -6,662.16     | 1,043.82      | 6,743.43                   | 171.10                 | 376,119.69         | 797,770.90        |



# ProDirectional Survey Report



**Company:** Devon Energy Corp.  
**Project:** Lea County, NM (NAD83)  
**Site:** Fighting Okra 18-19 Fed  
**Well:** 8H  
**Wellbore:** OH  
**Design:** Surveys 198-23240 MD

**Local Co-ordinate Reference:** Well 8H  
**TVD Reference:** GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
**MD Reference:** GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** WellPlanner1

## Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 19,808.00    | 92.40      | 179.60               | 12,941.70     | 6,751.98         | -6,743.12     | 1,044.95      | 6,823.61                   | 171.19                 | 376,038.73         | 797,772.03        |
| 19,903.00    | 91.80      | 179.90               | 12,938.22     | 6,846.92         | -6,838.06     | 1,045.36      | 6,917.50                   | 171.31                 | 375,943.79         | 797,772.44        |
| 19,998.00    | 91.00      | 181.00               | 12,935.90     | 6,941.87         | -6,933.02     | 1,044.62      | 7,011.28                   | 171.43                 | 375,848.83         | 797,771.70        |
| 20,093.00    | 93.50      | 182.00               | 12,932.17     | 7,036.74         | -7,027.91     | 1,042.13      | 7,104.75                   | 171.57                 | 375,753.94         | 797,769.21        |
| 20,188.00    | 87.30      | 183.50               | 12,931.51     | 7,131.53         | -7,122.75     | 1,037.58      | 7,197.92                   | 171.71                 | 375,659.10         | 797,764.66        |
| 20,283.00    | 87.90      | 181.90               | 12,935.49     | 7,226.30         | -7,217.56     | 1,033.10      | 7,291.12                   | 171.85                 | 375,564.29         | 797,760.18        |
| 20,378.00    | 90.40      | 181.30               | 12,936.90     | 7,321.21         | -7,312.50     | 1,030.45      | 7,384.75                   | 171.98                 | 375,469.35         | 797,757.53        |
| 20,473.00    | 88.30      | 181.50               | 12,937.98     | 7,416.15         | -7,407.46     | 1,028.13      | 7,478.47                   | 172.10                 | 375,374.39         | 797,755.21        |
| 20,567.00    | 87.20      | 180.10               | 12,941.67     | 7,510.05         | -7,501.37     | 1,026.82      | 7,571.33                   | 172.21                 | 375,280.48         | 797,753.90        |
| 20,662.00    | 93.10      | 179.10               | 12,941.42     | 7,605.01         | -7,596.33     | 1,027.48      | 7,665.50                   | 172.30                 | 375,185.52         | 797,754.56        |
| 20,757.00    | 88.60      | 178.00               | 12,940.01     | 7,699.96         | -7,691.26     | 1,029.89      | 7,759.91                   | 172.37                 | 375,090.59         | 797,756.97        |
| 20,852.00    | 92.40      | 179.30               | 12,939.18     | 7,794.92         | -7,786.21     | 1,032.12      | 7,854.32                   | 172.45                 | 374,995.64         | 797,759.20        |
| 20,946.00    | 89.20      | 177.60               | 12,937.87     | 7,888.88         | -7,880.15     | 1,034.67      | 7,947.79                   | 172.52                 | 374,901.70         | 797,761.75        |
| 21,042.00    | 89.50      | 176.80               | 12,938.96     | 7,984.80         | -7,976.03     | 1,039.36      | 8,043.47                   | 172.58                 | 374,805.82         | 797,766.44        |
| 21,136.00    | 90.40      | 180.00               | 12,939.04     | 8,078.77         | -8,069.98     | 1,041.98      | 8,136.97                   | 172.64                 | 374,711.87         | 797,769.06        |
| 21,231.00    | 89.50      | 176.20               | 12,939.12     | 8,173.72         | -8,164.91     | 1,045.13      | 8,231.53                   | 172.71                 | 374,616.94         | 797,772.21        |
| 21,325.00    | 89.40      | 181.70               | 12,940.02     | 8,267.68         | -8,258.86     | 1,046.85      | 8,324.94                   | 172.78                 | 374,522.99         | 797,773.93        |
| 21,420.00    | 88.00      | 180.30               | 12,942.18     | 8,362.61         | -8,353.81     | 1,045.19      | 8,418.94                   | 172.87                 | 374,428.04         | 797,772.27        |
| 21,515.00    | 91.30      | 182.40               | 12,942.76     | 8,457.54         | -8,448.76     | 1,042.96      | 8,512.90                   | 172.96                 | 374,333.09         | 797,770.04        |
| 21,610.00    | 87.70      | 178.80               | 12,943.59     | 8,552.49         | -8,543.72     | 1,041.96      | 8,607.03                   | 173.05                 | 374,238.13         | 797,769.04        |
| 21,705.00    | 91.10      | 180.80               | 12,944.58     | 8,647.47         | -8,638.70     | 1,042.29      | 8,701.35                   | 173.12                 | 374,143.15         | 797,769.37        |
| 21,800.00    | 88.80      | 180.30               | 12,944.67     | 8,742.44         | -8,733.69     | 1,041.38      | 8,795.56                   | 173.20                 | 374,048.16         | 797,768.46        |
| 21,895.00    | 88.80      | 179.30               | 12,946.66     | 8,837.42         | -8,828.67     | 1,041.71      | 8,889.91                   | 173.27                 | 373,953.18         | 797,768.79        |
| 21,990.00    | 91.80      | 179.30               | 12,946.16     | 8,932.41         | -8,923.65     | 1,042.87      | 8,984.38                   | 173.33                 | 373,858.20         | 797,769.95        |
| 22,085.00    | 88.50      | 178.10               | 12,945.91     | 9,027.38         | -9,018.61     | 1,045.03      | 9,078.95                   | 173.39                 | 373,763.24         | 797,772.11        |
| 22,179.00    | 89.50      | 178.30               | 12,947.55     | 9,121.34         | -9,112.55     | 1,047.98      | 9,172.61                   | 173.44                 | 373,669.30         | 797,775.06        |
| 22,274.00    | 88.10      | 180.10               | 12,949.54     | 9,216.32         | -9,207.51     | 1,049.30      | 9,267.11                   | 173.50                 | 373,574.34         | 797,776.38        |



ProDirectional  
Survey Report



Company: Devon Energy Corp.  
Project: Lea County, NM (NAD83)  
Site: Fighting Okra 18-19 Fed  
Well: 8H  
Wellbore: OH  
Design: Surveys 198-23240 MD

Local Co-ordinate Reference: Well 8H  
TVD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
MD Reference: GL 3365'+KB 25.5' @ 3390.50usft (Cactus 126)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

Survey

| MD<br>(usft)            | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|-------------------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 22,368.00               | 88.40      | 180.50               | 12,952.41     | 9,310.26         | -9,301.46     | 1,048.81      | 9,360.41                   | 173.57                 | 373,480.39         | 797,775.89        |
| 22,463.00               | 90.00      | 182.30               | 12,953.74     | 9,405.19         | -9,396.42     | 1,046.49      | 9,454.51                   | 173.65                 | 373,385.43         | 797,773.57        |
| 22,558.00               | 87.30      | 180.80               | 12,955.98     | 9,500.10         | -9,491.35     | 1,043.92      | 9,548.58                   | 173.72                 | 373,290.50         | 797,771.00        |
| 22,653.00               | 89.80      | 178.80               | 12,958.38     | 9,595.05         | -9,586.30     | 1,044.26      | 9,643.01                   | 173.78                 | 373,195.55         | 797,771.34        |
| 22,748.00               | 92.00      | 177.50               | 12,956.89     | 9,690.01         | -9,681.23     | 1,047.32      | 9,737.72                   | 173.83                 | 373,100.62         | 797,774.40        |
| 22,842.00               | 89.10      | 174.60               | 12,955.99     | 9,783.81         | -9,774.99     | 1,053.80      | 9,831.62                   | 173.85                 | 373,006.86         | 797,780.88        |
| 22,937.00               | 88.80      | 174.90               | 12,957.73     | 9,878.47         | -9,869.57     | 1,062.49      | 9,926.60                   | 173.86                 | 372,912.28         | 797,789.57        |
| 23,032.00               | 90.50      | 176.90               | 12,958.31     | 9,973.27         | -9,964.32     | 1,069.28      | 10,021.53                  | 173.87                 | 372,817.53         | 797,796.36        |
| 23,126.00               | 93.20      | 177.80               | 12,955.27     | 10,067.15        | -10,058.16    | 1,073.62      | 10,115.30                  | 173.91                 | 372,723.69         | 797,800.70        |
| 23,184.00               | 95.50      | 178.10               | 12,950.87     | 10,124.95        | -10,115.95    | 1,075.69      | 10,172.98                  | 173.93                 | 372,665.90         | 797,802.77        |
| Final Survey: 23184' MD |            |                      |               |                  |               |               |                            |                        |                    |                   |
| 23,240.00               | 95.50      | 178.00               | 12,945.51     | 10,180.68        | -10,171.66    | 1,077.59      | 10,228.58                  | 173.95                 | 372,610.19         | 797,804.67        |
| Final PTB: 23240' MD    |            |                      |               |                  |               |               |                            |                        |                    |                   |

Design Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                       |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                               |
| 198.00                      | 198.00                      | 0.27              | 0.64            | Pro MWD First Survey: 198' MD |
| 23,184.00                   | 12,950.87                   | -10,115.95        | 1,075.69        | Final Survey: 23184' MD       |
| 23,240.00                   | 12,945.51                   | -10,171.66        | 1,077.59        | Final PTB: 23240' MD          |