



NABORS DRILLING TECHNOLOGIES USA, INC.

515 West Greens Road

Houston, TX 77067

Phone: 281.874.0035

Fax: 281.872.5205

Thursday, July 05, 2018

State of New Mexico

County of Eddy

Subject: **Survey Certification Letter**

Survey Company: **NABORS DRILLING TECH USA, INC.**

Job Number: **T5168**

Survey Job Type: **Nabors MWD**

Customer: **Devon Energy Corporation**

Well Name: **Cotton Draw Unit 514H**

Rig Name: **Nabors X20**

Surface: **32.1942687 N / 103.7242003 W**

A.P.I. No: **30-015-44715**

Location: **Eddy, NM**

RKB Height: **32'**

Distance to Bit: **65'**

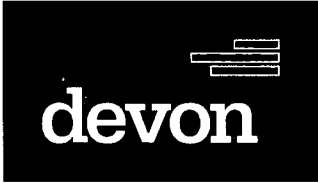
| Surveyor Name | Surveyor Title | Borehole<br>Number | Start<br>Depth | End<br>Depth | Start<br>Date | End<br>Date | Type<br>of | TD Straight        |
|---------------|----------------|--------------------|----------------|--------------|---------------|-------------|------------|--------------------|
|               |                |                    |                |              |               |             |            | Line<br>Projection |
| Patrick Agube | MWD Supervisor | OH                 | 152'           | 19575'       | 06/13/18      | 07/05/18    | MWD        | 19640'             |

The data and calculations for this survey have been checked by me and conform to the calibration standards and operational procedures set forth by NABORS DRILLING TECHNOLOGIES USA, INC. I am authorized and qualified to review the data, calculations and these reports; the reports represents true and correct Directional Surveys of this well based on the original data, the minimum curvature method, corrected to Grid North and obtained at the well site.

**Patrick Agube**

MWD Supervisor

NABORS DRILLING TECHNOLOGIES USA, INC.

The logo for Devon Energy Corporation, featuring the word "devon" in a white, lowercase, sans-serif font. Above the text are three horizontal white bars of varying lengths, stacked and slightly offset to the right.

**devon**

# **Devon Energy Corporation**

**Eddy Co., NM  
Cotton Draw Unit  
514H**

**OH**

**Design: Surveys**

## **Standard Survey Report**

**19 November, 2018**





Nabors  
Survey Report



|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
| Company:  | Devon Energy Corporation | Local Co-ordinate Reference: | Well 514H                                    |
| Project:  | Eddy Co., NM             | TVD Reference:               | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Site:     | Cotton Draw Unit         | MD Reference:                | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Well:     | 514H                     | North Reference:             | Grid                                         |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | RyanUSA_ODBC_32-Bit                          |

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

|                       |                  |                   |                      |
|-----------------------|------------------|-------------------|----------------------|
| Site                  | Cotton Draw Unit |                   |                      |
| Site Position:        | Map              | Northing:         | 434,943.040 usft     |
| From:                 |                  | Easting:          | 729,763.800 usft     |
| Position Uncertainty: | 0.00 ft          | Slot Radius:      | 13-3/16 "            |
|                       |                  | Latitude:         | 32° 11' 39.367416 N  |
|                       |                  | Longitude:        | 103° 43' 27.121085 W |
|                       |                  | Grid Convergence: | 0.32 °               |

|                      |         |                     |                      |
|----------------------|---------|---------------------|----------------------|
| Well                 | 514H    |                     |                      |
| Well Position        | +N/-S   | 0.00 ft             | Northing:            |
|                      | +E/-W   | 0.00 ft             | Easting:             |
| Position Uncertainty | 0.00 ft | Wellhead Elevation: | ft                   |
|                      |         | Latitude:           | 32° 11' 39.367416 N  |
|                      |         | Longitude:          | 103° 43' 27.121085 W |
|                      |         | Ground Level:       | 3,540.90 ft          |

|           |              |             |                 |
|-----------|--------------|-------------|-----------------|
| Wellbore  | OH           |             |                 |
| Magnetics | Model Name   | Sample Date | Declination     |
|           |              |             | (°)             |
|           | User Defined | 6/1/2018    | 6.93            |
|           |              |             | Dip Angle       |
|           |              |             | (°)             |
|           |              |             | 59.92           |
|           |              |             | Field Strength  |
|           |              |             | (nT)            |
|           |              |             | 48,027.30000000 |

|                   |                  |               |           |
|-------------------|------------------|---------------|-----------|
| Design            | Surveys          |               |           |
| Audit Notes:      |                  |               |           |
| Version:          | 1.0              | Phase:        | ACTUAL    |
|                   |                  | Tie On Depth: | 0.00      |
| Vertical Section: | Depth From (TVD) | +N/-S         | +E/-W     |
|                   | (ft)             | (ft)          | (ft)      |
|                   | 0.00             | 0.00          | 0.00      |
|                   |                  |               | Direction |
|                   |                  |               | (°)       |
|                   |                  |               | 114.43    |

|                |                 |                      |                 |
|----------------|-----------------|----------------------|-----------------|
| Survey Program | Date 11/19/2018 |                      |                 |
| From           | To              | Survey (Wellbore)    | Tool Name       |
| (ft)           | (ft)            |                      |                 |
| 152.00         | 19,640.00       | Survey #1 - NDS (OH) | MWD+IFR1        |
|                |                 |                      | Description     |
|                |                 |                      | OWSG MWD + IFR1 |

|          |             |         |          |        |       |          |           |           |           |
|----------|-------------|---------|----------|--------|-------|----------|-----------|-----------|-----------|
| Survey   |             |         |          |        |       |          |           |           |           |
| Measured | Inclination | Azimuth | Vertical | +N/-S  | +E/-W | Vertical | Dogleg    | Build     | Turn      |
| Depth    | (°)         | (°)     | Depth    | (ft)   | (ft)  | Section  | Rate      | Rate      | Rate      |
| (ft)     |             |         | (ft)     |        |       | (ft)     | (°/100ft) | (°/100ft) | (°/100ft) |
| 0.00     | 0.00        | 0.00    | 0.00     | 0.00   | 0.00  | 0.00     | 0.00      | 0.00      | 0.00      |
| 152.00   | 1.00        | 124.02  | 151.99   | -0.74  | 1.10  | 1.31     | 0.66      | 0.66      | 0.00      |
| 212.00   | 0.94        | 103.98  | 211.98   | -1.15  | 2.01  | 2.31     | 0.57      | -0.10     | -33.40    |
| 331.00   | 1.25        | 116.81  | 330.96   | -1.98  | 4.12  | 4.56     | 0.33      | 0.26      | 10.78     |
| 422.00   | 1.25        | 135.62  | 421.94   | -3.13  | 5.70  | 6.48     | 0.45      | 0.00      | 20.67     |
| 512.00   | 1.19        | 127.36  | 511.92   | -4.40  | 7.13  | 8.31     | 0.21      | -0.07     | -9.18     |
| 605.00   | 1.19        | 144.24  | 604.90   | -5.77  | 8.46  | 10.09    | 0.38      | 0.00      | 18.15     |
| 686.00   | 1.00        | 151.09  | 685.89   | -7.07  | 9.29  | 11.38    | 0.28      | -0.23     | 8.46      |
| 876.00   | 0.63        | 163.05  | 875.87   | -9.52  | 10.40 | 13.40    | 0.21      | -0.19     | 6.29      |
| 967.00   | 0.75        | 153.55  | 966.86   | -10.53 | 10.81 | 14.20    | 0.18      | 0.13      | -10.44    |



Nabors  
Survey Report



|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
| Company:  | Devon Energy Corporation | Local Co-ordinate Reference: | Well 514H                                    |
| Project:  | Eddy Co., NM             | TVD Reference:               | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Site:     | Cotton Draw Unit         | MD Reference:                | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Well:     | 514H                     | North Reference:             | Grid                                         |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | RyanUSA_ODBC_32-Bit                          |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 1,058.00            | 0.56            | 151.97      | 1,057.85            | -11.46     | 11.28      | 15.01                 | 0.21                  | -0.21                | -1.74               |
| 1,149.00            | 0.69            | 146.35      | 1,148.85            | -12.31     | 11.80      | 15.83                 | 0.16                  | 0.14                 | -6.18               |
| 1,240.00            | 1.00            | 158.65      | 1,239.84            | -13.50     | 12.39      | 16.86                 | 0.39                  | 0.34                 | 13.52               |
| 1,331.00            | 1.00            | 153.55      | 1,330.82            | -14.95     | 13.03      | 18.05                 | 0.10                  | 0.00                 | -5.60               |
| 1,422.00            | 0.69            | 166.91      | 1,421.81            | -16.20     | 13.51      | 19.00                 | 0.40                  | -0.34                | 14.68               |
| 1,514.00            | 0.63            | 148.46      | 1,513.81            | -17.17     | 13.90      | 19.75                 | 0.24                  | -0.07                | -20.05              |
| 1,606.00            | 0.69            | 196.27      | 1,605.80            | -18.13     | 14.01      | 20.25                 | 0.58                  | 0.07                 | 51.97               |
| 1,699.00            | 0.50            | 137.73      | 1,698.80            | -18.97     | 14.12      | 20.70                 | 0.65                  | -0.20                | -62.95              |
| 1,793.00            | 0.50            | 134.92      | 1,792.80            | -19.56     | 14.69      | 21.47                 | 0.03                  | 0.00                 | -2.99               |
| 1,888.00            | 1.25            | 317.56      | 1,887.79            | -19.09     | 14.28      | 20.90                 | 1.84                  | 0.79                 | -186.69             |
| 1,982.00            | 1.88            | 322.30      | 1,981.75            | -17.12     | 12.65      | 18.60                 | 0.68                  | 0.67                 | 5.04                |
| 2,076.00            | 1.56            | 322.48      | 2,075.71            | -14.88     | 10.93      | 16.10                 | 0.34                  | -0.34                | 0.19                |
| 2,170.00            | 1.50            | 325.99      | 2,169.68            | -12.85     | 9.46       | 13.93                 | 0.12                  | -0.06                | 3.73                |
| 2,265.00            | 1.81            | 317.73      | 2,264.64            | -10.70     | 7.76       | 11.49                 | 0.41                  | 0.33                 | -8.69               |
| 2,359.00            | 1.63            | 318.79      | 2,358.60            | -8.60      | 5.88       | 8.91                  | 0.19                  | -0.19                | 1.13                |
| 2,454.00            | 1.88            | 324.76      | 2,453.55            | -6.31      | 4.09       | 6.33                  | 0.33                  | 0.26                 | 6.28                |
| 2,547.00            | 1.56            | 323.89      | 2,546.51            | -4.04      | 2.46       | 3.91                  | 0.35                  | -0.34                | -0.94               |
| 2,641.00            | 1.25            | 322.30      | 2,640.48            | -2.20      | 1.08       | 1.89                  | 0.33                  | -0.33                | -1.69               |
| 2,736.00            | 0.94            | 328.81      | 2,735.46            | -0.71      | 0.04       | 0.33                  | 0.35                  | -0.33                | 6.85                |
| 2,830.00            | 0.94            | 326.70      | 2,829.45            | 0.59       | -0.78      | -0.96                 | 0.04                  | 0.00                 | -2.24               |
| 2,924.00            | 0.75            | 323.71      | 2,923.44            | 1.73       | -1.57      | -2.14                 | 0.21                  | -0.20                | -3.18               |
| 3,018.00            | 0.25            | 352.19      | 3,017.44            | 2.43       | -1.96      | -2.79                 | 0.58                  | -0.53                | 30.30               |
| 3,113.00            | 0.31            | 16.80       | 3,112.44            | 2.88       | -1.91      | -2.93                 | 0.14                  | 0.06                 | 25.91               |
| 3,207.00            | 0.50            | 20.14       | 3,206.43            | 3.51       | -1.70      | -3.00                 | 0.20                  | 0.20                 | 3.55                |
| 3,302.00            | 0.88            | 69.88       | 3,301.43            | 4.15       | -0.87      | -2.51                 | 0.71                  | 0.40                 | 52.36               |
| 3,396.00            | 0.81            | 79.37       | 3,395.42            | 4.52       | 0.46       | -1.45                 | 0.17                  | -0.07                | 10.10               |
| 3,490.00            | 1.00            | 64.26       | 3,489.41            | 5.00       | 1.85       | -0.38                 | 0.32                  | 0.20                 | -16.07              |
| 3,585.00            | 0.88            | 68.83       | 3,584.39            | 5.63       | 3.28       | 0.66                  | 0.15                  | -0.13                | 4.81                |
| 3,679.00            | 0.75            | 99.24       | 3,678.38            | 5.79       | 4.56       | 1.76                  | 0.47                  | -0.14                | 32.35               |
| 3,773.00            | 0.44            | 116.81      | 3,772.38            | 5.53       | 5.49       | 2.71                  | 0.38                  | -0.33                | 18.69               |
| 3,868.00            | 0.44            | 113.47      | 3,867.38            | 5.22       | 6.15       | 3.44                  | 0.03                  | 0.00                 | -3.52               |
| 3,962.00            | 0.88            | 132.28      | 3,961.37            | 4.59       | 7.01       | 4.49                  | 0.52                  | 0.47                 | 20.01               |
| 4,056.00            | 1.06            | 143.71      | 4,055.36            | 3.40       | 8.06       | 5.93                  | 0.28                  | 0.19                 | 12.16               |
| 4,150.00            | 1.06            | 130.70      | 4,149.34            | 2.13       | 9.24       | 7.53                  | 0.26                  | 0.00                 | -13.84              |
| 4,245.00            | 1.50            | 138.79      | 4,244.32            | 0.62       | 10.72      | 9.50                  | 0.50                  | 0.46                 | 8.52                |
| 4,339.00            | 2.06            | 148.28      | 4,338.27            | -1.74      | 12.42      | 12.03                 | 0.67                  | 0.60                 | 10.10               |
| 4,433.00            | 1.88            | 149.33      | 4,432.22            | -4.50      | 14.10      | 14.70                 | 0.20                  | -0.19                | 1.12                |
| 4,527.00            | 1.63            | 153.73      | 4,526.17            | -7.03      | 15.47      | 16.99                 | 0.30                  | -0.27                | 4.68                |
| 4,624.00            | 1.44            | 138.79      | 4,623.14            | -9.18      | 16.89      | 19.17                 | 0.45                  | -0.20                | -15.40              |
| 4,719.00            | 1.44            | 142.48      | 4,718.11            | -11.03     | 18.40      | 21.31                 | 0.10                  | 0.00                 | 3.88                |
| 4,812.00            | 1.31            | 117.17      | 4,811.08            | -12.44     | 20.06      | 23.41                 | 0.66                  | -0.14                | -27.22              |
| 4,907.00            | 1.25            | 106.27      | 4,906.06            | -13.22     | 22.02      | 25.52                 | 0.26                  | -0.06                | -11.47              |
| 5,001.00            | 0.94            | 34.90       | 5,000.04            | -12.88     | 23.44      | 26.67                 | 1.39                  | -0.33                | -75.93              |
| 5,095.00            | 2.31            | 320.72      | 5,094.01            | -10.78     | 22.69      | 25.11                 | 2.39                  | 1.46                 | -78.91              |

|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
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| Project:  | Eddy Co., NM             | TVD Reference:               | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Site:     | Cotton Draw Unit         | MD Reference:                | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Well:     | 514H                     | North Reference:             | Grid                                         |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | RyanUSA_ODBC_32-Bit                          |

| Survey                                   |                    |                |                           |               |               |                             |                             |                            |                           |  |
|------------------------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|--|
| Measured<br>Depth<br>(ft)                | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |  |
| 5,190.00                                 | 4.69               | 310.00         | 5,188.83                  | -6.80         | 18.50         | 19.65                       | 2.59                        | 2.51                       | -11.28                    |  |
| 5,284.00                                 | 5.88               | 303.14         | 5,282.43                  | -1.70         | 11.52         | 11.19                       | 1.43                        | 1.27                       | -7.30                     |  |
| 5,378.00                                 | 6.94               | 304.73         | 5,375.84                  | 4.17          | 2.82          | 0.85                        | 1.14                        | 1.13                       | 1.69                      |  |
| 5,473.00                                 | 7.00               | 309.82         | 5,470.14                  | 11.15         | -6.34         | -10.38                      | 0.65                        | 0.06                       | 5.36                      |  |
| 5,568.00                                 | 8.00               | 325.12         | 5,564.33                  | 20.28         | -14.57        | -21.65                      | 2.34                        | 1.05                       | 16.11                     |  |
| 5,662.00                                 | 9.75               | 338.30         | 5,657.21                  | 33.04         | -21.25        | -33.01                      | 2.84                        | 1.86                       | 14.02                     |  |
| 5,757.00                                 | 9.69               | 347.79         | 5,750.86                  | 48.33         | -25.92        | -43.58                      | 1.69                        | -0.06                      | 9.99                      |  |
| 5,851.00                                 | 10.25              | 356.93         | 5,843.44                  | 64.41         | -28.04        | -52.17                      | 1.78                        | 0.60                       | 9.72                      |  |
| 5,946.00                                 | 11.13              | 7.48           | 5,936.80                  | 81.95         | -27.30        | -58.74                      | 2.25                        | 0.93                       | 11.11                     |  |
| 6,040.00                                 | 10.75              | 8.89           | 6,029.09                  | 99.60         | -24.76        | -63.73                      | 0.49                        | -0.40                      | 1.50                      |  |
| 6,134.00                                 | 10.19              | 8.36           | 6,121.53                  | 116.49        | -22.20        | -68.38                      | 0.60                        | -0.60                      | -0.56                     |  |
| 6,228.00                                 | 9.19               | 10.47          | 6,214.19                  | 132.10        | -19.63        | -72.49                      | 1.13                        | -1.06                      | 2.24                      |  |
| 6,323.00                                 | 8.88               | 11.17          | 6,308.01                  | 146.75        | -16.83        | -76.01                      | 0.35                        | -0.33                      | 0.74                      |  |
| 6,417.00                                 | 8.44               | 13.98          | 6,400.94                  | 160.57        | -13.75        | -78.92                      | 0.65                        | -0.47                      | 2.99                      |  |
| 6,511.00                                 | 8.56               | 11.87          | 6,493.90                  | 174.11        | -10.65        | -81.69                      | 0.36                        | 0.13                       | -2.24                     |  |
| 6,606.00                                 | 9.25               | 12.40          | 6,587.76                  | 188.48        | -7.56         | -84.82                      | 0.73                        | 0.73                       | 0.56                      |  |
| 6,699.00                                 | 9.94               | 11.17          | 6,679.46                  | 203.66        | -4.40         | -88.22                      | 0.77                        | 0.74                       | -1.32                     |  |
| 6,793.00                                 | 9.69               | 9.59           | 6,772.08                  | 219.42        | -1.51         | -92.10                      | 0.39                        | -0.27                      | -1.68                     |  |
| 6,888.00                                 | 8.38               | 8.53           | 6,865.90                  | 234.15        | 0.85          | -96.05                      | 1.39                        | -1.38                      | -1.12                     |  |
| 6,982.00                                 | 8.13               | 5.37           | 6,958.93                  | 247.54        | 2.49          | -100.09                     | 0.55                        | -0.27                      | -3.36                     |  |
| 7,076.00                                 | 8.19               | 7.48           | 7,051.97                  | 260.80        | 3.98          | -104.21                     | 0.32                        | 0.06                       | 2.24                      |  |
| 7,170.00                                 | 8.31               | 4.31           | 7,145.00                  | 274.21        | 5.37          | -108.50                     | 0.50                        | 0.13                       | -3.37                     |  |
| 7,265.00                                 | 7.56               | 357.28         | 7,239.09                  | 287.30        | 5.59          | -113.71                     | 1.29                        | -0.79                      | -7.40                     |  |
| 7,359.00                                 | 6.81               | 359.92         | 7,332.36                  | 299.05        | 5.29          | -118.85                     | 0.87                        | -0.80                      | 2.81                      |  |
| 7,453.00                                 | 8.25               | 359.22         | 7,425.54                  | 311.36        | 5.19          | -124.03                     | 1.53                        | 1.53                       | -0.74                     |  |
| 7,547.00                                 | 9.81               | 358.16         | 7,518.37                  | 326.11        | 4.84          | -130.45                     | 1.67                        | 1.66                       | -1.13                     |  |
| 7,641.00                                 | 10.25              | 2.21           | 7,610.94                  | 342.47        | 4.90          | -137.15                     | 0.88                        | 0.47                       | 4.31                      |  |
| 7,735.00                                 | 9.38               | 2.91           | 7,703.56                  | 358.48        | 5.61          | -143.13                     | 0.93                        | -0.93                      | 0.74                      |  |
| 7,829.00                                 | 8.94               | 4.84           | 7,796.36                  | 373.41        | 6.62          | -148.38                     | 0.57                        | -0.47                      | 2.05                      |  |
| 7,923.00                                 | 8.06               | 3.79           | 7,889.33                  | 387.26        | 7.67          | -153.15                     | 0.95                        | -0.94                      | -1.12                     |  |
| 8,018.00                                 | 7.13               | 0.45           | 7,983.50                  | 399.80        | 8.16          | -157.90                     | 1.08                        | -0.98                      | -3.52                     |  |
| 8,112.00                                 | 6.19               | 0.98           | 8,076.86                  | 410.70        | 8.29          | -162.28                     | 1.00                        | -1.00                      | 0.56                      |  |
| 8,207.00                                 | 5.13               | 358.16         | 8,171.40                  | 420.07        | 8.24          | -166.20                     | 1.15                        | -1.12                      | -2.97                     |  |
| 8,301.00                                 | 4.50               | 357.64         | 8,265.06                  | 427.96        | 7.95          | -169.72                     | 0.67                        | -0.67                      | -0.55                     |  |
| 8,395.00                                 | 3.94               | 358.34         | 8,358.81                  | 434.87        | 7.71          | -172.81                     | 0.60                        | -0.60                      | 0.74                      |  |
| 8,484.00                                 | 3.13               | 350.25         | 8,447.64                  | 440.32        | 7.21          | -175.51                     | 1.07                        | -0.91                      | -9.09                     |  |
| 8,579.00                                 | 2.50               | 344.98         | 8,542.52                  | 444.88        | 6.23          | -178.29                     | 0.72                        | -0.66                      | -5.55                     |  |
| 8,673.00                                 | 1.81               | 184.67         | 8,636.50                  | 445.38        | 5.58          | -179.09                     | 4.52                        | -0.73                      | -170.54                   |  |
| <b>KOP @ 8673' MD, 40' FNL, 382' FEL</b> |                    |                |                           |               |               |                             |                             |                            |                           |  |
| 8,701.88                                 | 5.32               | 179.30         | 8,665.32                  | 443.58        | 5.56          | -178.37                     | 12.19                       | 12.15                      | -18.59                    |  |
| <b>CDU_514H_KOP</b>                      |                    |                |                           |               |               |                             |                             |                            |                           |  |
| 8,767.00                                 | 13.25              | 177.64         | 8,729.54                  | 433.09        | 5.90          | -173.71                     | 12.19                       | 12.18                      | -2.55                     |  |
| 8,812.00                                 | 19.06              | 176.05         | 8,772.74                  | 420.60        | 6.62          | -167.89                     | 12.95                       | 12.91                      | -3.53                     |  |

|                  |                          |                                     |                                              |
|------------------|--------------------------|-------------------------------------|----------------------------------------------|
| <b>Company:</b>  | Devon Energy Corporation | <b>Local Co-ordinate Reference:</b> | Well 514H                                    |
| <b>Project:</b>  | Eddy Co., NM             | <b>TVD Reference:</b>               | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| <b>Site:</b>     | Cotton Draw Unit         | <b>MD Reference:</b>                | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| <b>Well:</b>     | 514H                     | <b>North Reference:</b>             | Grid                                         |
| <b>Wellbore:</b> | OH                       | <b>Survey Calculation Method:</b>   | Minimum Curvature                            |
| <b>Design:</b>   | Surveys                  | <b>Database:</b>                    | RyanUSA_ODBC_32-Bit                          |

## Survey

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 8,861.00                  | 24.50              | 175.35         | 8,818.23                  | 402.48        | 8.00          | -159.15                     | 11.11                       | 11.10                      | -1.43                     |
| 8,906.00                  | 27.94              | 179.39         | 8,858.59                  | 382.63        | 8.87          | -150.15                     | 8.61                        | 7.64                       | 8.98                      |
| 8,956.00                  | 31.25              | 182.21         | 8,902.07                  | 357.95        | 8.49          | -140.28                     | 7.18                        | 6.62                       | 5.64                      |
| 9,001.00                  | 36.06              | 182.91         | 8,939.51                  | 333.04        | 7.37          | -131.01                     | 10.72                       | 10.69                      | 1.56                      |
| 9,049.00                  | 41.00              | 180.98         | 8,977.05                  | 303.17        | 6.38          | -119.55                     | 10.59                       | 10.29                      | -4.02                     |
| 9,094.00                  | 44.69              | 180.45         | 9,010.04                  | 272.58        | 6.00          | -107.25                     | 8.24                        | 8.20                       | -1.18                     |
| 9,143.00                  | 46.06              | 179.39         | 9,044.46                  | 237.71        | 6.06          | -92.78                      | 3.19                        | 2.80                       | -2.16                     |
| 9,188.00                  | 47.00              | 177.46         | 9,075.42                  | 205.06        | 6.96          | -78.46                      | 3.75                        | 2.09                       | -4.29                     |
| 9,237.00                  | 50.06              | 182.03         | 9,107.87                  | 168.37        | 7.09          | -63.17                      | 9.37                        | 6.24                       | 9.33                      |
| 9,282.00                  | 48.38              | 185.55         | 9,137.27                  | 134.38        | 4.85          | -51.15                      | 7.00                        | -3.73                      | 7.82                      |
| 9,330.00                  | 52.44              | 182.56         | 9,167.86                  | 97.50         | 2.26          | -38.26                      | 9.72                        | 8.46                       | -6.23                     |
| 9,375.00                  | 55.94              | 183.44         | 9,194.18                  | 61.06         | 0.35          | -24.93                      | 7.94                        | 7.78                       | 1.96                      |
| 9,430.00                  | 63.38              | 179.39         | 9,221.96                  | 13.65         | -0.76         | -6.34                       | 14.94                       | 13.53                      | -7.36                     |
| 9,475.00                  | 70.50              | 179.04         | 9,239.57                  | -27.72        | -0.19         | 11.29                       | 15.84                       | 15.82                      | -0.78                     |
| 9,525.00                  | 78.88              | 183.96         | 9,252.77                  | -75.87        | -1.49         | 30.01                       | 19.26                       | 16.76                      | 9.84                      |
| 9,594.00                  | 90.00              | 186.60         | 9,259.44                  | -144.14       | -7.82         | 52.49                       | 16.56                       | 16.12                      | 3.83                      |
| 9,649.66                  | 89.96              | 186.19         | 9,259.46                  | -199.45       | -14.02        | 69.71                       | 0.74                        | -0.06                      | -0.74                     |
| <b>CDU_514H_EOC</b>       |                    |                |                           |               |               |                             |                             |                            |                           |
| 9,689.00                  | 89.94              | 185.90         | 9,259.49                  | -238.57       | -18.16        | 82.12                       | 0.74                        | -0.06                      | -0.74                     |
| 9,783.00                  | 90.75              | 185.72         | 9,258.93                  | -332.09       | -27.67        | 112.13                      | 0.88                        | 0.86                       | -0.19                     |
| 9,877.00                  | 88.25              | 183.44         | 9,259.75                  | -425.77       | -35.18        | 144.03                      | 3.60                        | -2.66                      | -2.43                     |
| 9,971.00                  | 88.44              | 182.38         | 9,262.46                  | -519.61       | -39.95        | 178.49                      | 1.15                        | 0.20                       | -1.13                     |
| 10,065.00                 | 89.63              | 181.33         | 9,264.05                  | -613.54       | -42.99        | 214.56                      | 1.69                        | 1.27                       | -1.12                     |
| 10,159.00                 | 89.31              | 181.15         | 9,264.92                  | -707.52       | -45.03        | 251.57                      | 0.39                        | -0.34                      | -0.19                     |
| 10,254.00                 | 89.56              | 181.15         | 9,265.85                  | -802.49       | -46.93        | 289.11                      | 0.26                        | 0.26                       | 0.00                      |
| 10,348.00                 | 89.94              | 180.45         | 9,266.26                  | -896.48       | -48.24        | 326.78                      | 0.85                        | 0.40                       | -0.74                     |
| 10,351.03                 | 89.96              | 180.46         | 9,266.27                  | -899.51       | -48.27        | 328.01                      | 0.76                        | 0.73                       | 0.18                      |
| <b>CDU_514H_T</b>         |                    |                |                           |               |               |                             |                             |                            |                           |
| 10,442.00                 | 90.63              | 180.62         | 9,265.80                  | -990.48       | -49.12        | 364.85                      | 0.76                        | 0.73                       | 0.18                      |
| 10,537.00                 | 90.81              | 180.62         | 9,264.60                  | -1,085.46     | -50.15        | 403.19                      | 0.19                        | 0.19                       | 0.00                      |
| 10,631.00                 | 90.25              | 179.92         | 9,263.73                  | -1,179.46     | -50.59        | 441.66                      | 0.95                        | -0.60                      | -0.74                     |
| 10,722.00                 | 90.19              | 179.39         | 9,263.38                  | -1,270.45     | -50.04        | 479.78                      | 0.59                        | -0.07                      | -0.58                     |
| 10,813.00                 | 90.31              | 179.74         | 9,262.99                  | -1,361.45     | -49.35        | 518.04                      | 0.41                        | 0.13                       | 0.38                      |
| 10,903.00                 | 90.25              | 179.57         | 9,262.55                  | -1,451.45     | -48.81        | 555.75                      | 0.20                        | -0.07                      | -0.19                     |
| 10,995.00                 | 90.63              | 179.22         | 9,261.84                  | -1,543.44     | -47.84        | 594.67                      | 0.56                        | 0.41                       | -0.38                     |
| 11,085.00                 | 91.13              | 179.22         | 9,260.46                  | -1,633.42     | -46.62        | 633.00                      | 0.56                        | 0.56                       | 0.00                      |
| 11,176.00                 | 91.63              | 181.68         | 9,258.27                  | -1,724.38     | -47.33        | 669.96                      | 2.76                        | 0.55                       | 2.70                      |
| 11,267.00                 | 90.69              | 182.03         | 9,256.42                  | -1,815.32     | -50.27        | 704.88                      | 1.10                        | -1.03                      | 0.38                      |
| 11,291.99                 | 90.47              | 182.37         | 9,256.17                  | -1,840.28     | -51.23        | 714.33                      | 1.62                        | -0.89                      | 1.35                      |
| <b>CDU_514H_T1</b>        |                    |                |                           |               |               |                             |                             |                            |                           |
| 11,358.00                 | 89.88              | 183.26         | 9,255.97                  | -1,906.22     | -54.47        | 738.65                      | 1.62                        | -0.89                      | 1.35                      |
| 11,449.00                 | 90.69              | 184.14         | 9,255.52                  | -1,997.02     | -60.35        | 770.85                      | 1.31                        | 0.89                       | 0.97                      |
| 11,540.00                 | 90.25              | 183.61         | 9,254.77                  | -2,087.81     | -66.50        | 802.79                      | 0.76                        | -0.48                      | -0.58                     |
| 11,603.40                 | 90.08              | 183.49         | 9,254.59                  | -2,151.09     | -70.42        | 825.38                      | 0.33                        | -0.27                      | -0.19                     |

|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
| Company:  | Devon Energy Corporation | Local Co-ordinate Reference: | Well 514H                                    |
| Project:  | Eddy Co., NM             | TVD Reference:               | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Site:     | Cotton Draw Unit         | MD Reference:                | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Well:     | 514H                     | North Reference:             | Grid                                         |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | RyanUSA_ODBC_32-Bit                          |

## Survey

| Measured<br>Depth<br>(ft)                                 | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section:<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|-----------------------------------------------------------|--------------------|----------------|---------------------------|---------------|---------------|------------------------------|-----------------------------|----------------------------|---------------------------|
| <b>CDU_514H_T1 PN6</b>                                    |                    |                |                           |               |               |                              |                             |                            |                           |
| 11,631.00                                                 | 90.00              | 183.44         | 9,254.57                  | -2,178.64     | -72.09        | 835.26                       | 0.33                        | -0.27                      | -0.19                     |
| 11,722.00                                                 | 87.88              | 183.08         | 9,256.26                  | -2,269.47     | -77.26        | 868.11                       | 2.36                        | -2.33                      | -0.40                     |
| 11,814.00                                                 | 87.06              | 182.21         | 9,260.32                  | -2,361.28     | -81.51        | 902.21                       | 1.30                        | -0.89                      | -0.95                     |
| 11,906.00                                                 | 86.94              | 180.45         | 9,265.13                  | -2,453.13     | -83.64        | 938.25                       | 1.91                        | -0.13                      | -1.91                     |
| 11,999.00                                                 | 86.94              | 180.27         | 9,270.10                  | -2,545.99     | -84.22        | 976.12                       | 0.19                        | 0.00                       | -0.19                     |
| 12,093.00                                                 | 88.69              | 179.57         | 9,273.68                  | -2,639.92     | -84.09        | 1,015.08                     | 2.00                        | 1.86                       | -0.74                     |
| 12,111.15                                                 | 89.18              | 179.47         | 9,274.02                  | -2,658.07     | -83.94        | 1,022.72                     | 2.78                        | 2.72                       | -0.56                     |
| <b>CDU_514H_T_</b>                                        |                    |                |                           |               |               |                              |                             |                            |                           |
| 12,187.00                                                 | 91.25              | 179.04         | 9,273.73                  | -2,733.91     | -82.95        | 1,054.98                     | 2.78                        | 2.72                       | -0.56                     |
| 12,281.00                                                 | 92.00              | 178.87         | 9,271.06                  | -2,827.85     | -81.24        | 1,095.39                     | 0.82                        | 0.80                       | -0.18                     |
| 12,375.00                                                 | 91.44              | 178.69         | 9,268.24                  | -2,921.79     | -79.24        | 1,136.05                     | 0.63                        | -0.60                      | -0.19                     |
| 12,469.00                                                 | 91.88              | 179.04         | 9,265.52                  | -3,015.73     | -77.38        | 1,176.59                     | 0.60                        | 0.47                       | 0.37                      |
| 12,563.00                                                 | 89.88              | 178.16         | 9,264.08                  | -3,109.68     | -75.08        | 1,217.54                     | 2.32                        | -2.13                      | -0.94                     |
| 12,657.00                                                 | 92.69              | 178.51         | 9,261.97                  | -3,203.61     | -72.35        | 1,258.86                     | 3.01                        | 2.99                       | 0.37                      |
| 12,751.00                                                 | 93.88              | 178.87         | 9,256.58                  | -3,297.43     | -70.20        | 1,299.61                     | 1.32                        | 1.27                       | 0.38                      |
| 12,845.00                                                 | 92.81              | 179.92         | 9,251.10                  | -3,391.26     | -69.21        | 1,339.31                     | 1.59                        | -1.14                      | 1.12                      |
| 12,939.00                                                 | 93.25              | 180.27         | 9,246.13                  | -3,485.13     | -69.37        | 1,377.99                     | 0.60                        | 0.47                       | 0.37                      |
| 13,034.00                                                 | 91.19              | 179.92         | 9,242.45                  | -3,580.05     | -69.53        | 1,417.10                     | 2.20                        | -2.17                      | -0.37                     |
| 13,128.00                                                 | 90.69              | 179.74         | 9,240.91                  | -3,674.04     | -69.25        | 1,456.22                     | 0.57                        | -0.53                      | -0.19                     |
| 13,222.00                                                 | 90.69              | 179.74         | 9,239.77                  | -3,768.03     | -68.82        | 1,495.47                     | 0.00                        | 0.00                       | 0.00                      |
| 13,316.00                                                 | 90.94              | 178.87         | 9,238.44                  | -3,862.01     | -67.68        | 1,535.37                     | 0.96                        | 0.27                       | -0.93                     |
| 13,411.00                                                 | 89.88              | 177.11         | 9,237.76                  | -3,956.95     | -64.35        | 1,577.66                     | 2.16                        | -1.12                      | -1.85                     |
| 13,505.00                                                 | 90.38              | 176.93         | 9,237.54                  | -4,050.82     | -59.46        | 1,620.93                     | 0.57                        | 0.53                       | -0.19                     |
| 13,599.00                                                 | 92.25              | 177.46         | 9,235.39                  | -4,144.68     | -54.86        | 1,663.93                     | 2.07                        | 1.99                       | 0.56                      |
| 13,691.00                                                 | 91.50              | 178.34         | 9,232.38                  | -4,236.57     | -51.49        | 1,704.99                     | 1.26                        | -0.82                      | 0.96                      |
| 13,785.00                                                 | 89.25              | 179.57         | 9,231.76                  | -4,330.54     | -49.78        | 1,745.41                     | 2.73                        | -2.39                      | 1.31                      |
| 13,880.00                                                 | 89.50              | 180.10         | 9,232.80                  | -4,425.53     | -49.51        | 1,784.94                     | 0.62                        | 0.26                       | 0.56                      |
| 13,974.00                                                 | 90.06              | 180.10         | 9,233.16                  | -4,519.53     | -49.67        | 1,823.66                     | 0.60                        | 0.60                       | 0.00                      |
| 14,068.00                                                 | 89.81              | 179.22         | 9,233.27                  | -4,613.53     | -49.11        | 1,863.04                     | 0.97                        | -0.27                      | -0.94                     |
| 14,162.00                                                 | 89.44              | 178.69         | 9,233.88                  | -4,707.51     | -47.40        | 1,903.46                     | 0.69                        | -0.39                      | -0.56                     |
| 14,249.50                                                 | 90.32              | 179.34         | 9,234.07                  | -4,795.00     | -45.89        | 1,941.01                     | 1.25                        | 1.00                       | 0.74                      |
| <b>Cross Section Line @ 14249.5' MD, 0' FSL, 454' FEL</b> |                    |                |                           |               |               |                              |                             |                            |                           |
| 14,256.00                                                 | 90.38              | 179.39         | 9,234.03                  | -4,801.50     | -45.82        | 1,943.76                     | 1.25                        | 1.00                       | 0.74                      |
| 14,350.00                                                 | 91.56              | 178.87         | 9,232.44                  | -4,895.47     | -44.40        | 1,983.92                     | 1.37                        | 1.26                       | -0.55                     |
| 14,405.31                                                 | 92.88              | 179.80         | 9,230.29                  | -4,950.74     | -43.75        | 2,007.36                     | 2.92                        | 2.39                       | 1.68                      |
| <b>CDU_514H_T2</b>                                        |                    |                |                           |               |               |                              |                             |                            |                           |
| 14,444.00                                                 | 93.81              | 180.45         | 9,228.03                  | -4,989.36     | -43.84        | 2,023.25                     | 2.92                        | 2.39                       | 1.68                      |
| 14,454.78                                                 | 93.65              | 180.53         | 9,227.33                  | -5,000.12     | -43.93        | 2,027.62                     | 1.64                        | -1.46                      | 0.75                      |
| <b>CDU_514H_T2 PN6</b>                                    |                    |                |                           |               |               |                              |                             |                            |                           |
| 14,538.00                                                 | 92.44              | 181.15         | 9,222.91                  | -5,083.21     | -45.15        | 2,060.87                     | 1.64                        | -1.46                      | 0.74                      |
| 14,633.00                                                 | 91.75              | 180.80         | 9,219.44                  | -5,178.13     | -46.76        | 2,098.65                     | 0.81                        | -0.73                      | -0.37                     |
| 14,727.00                                                 | 88.69              | 180.27         | 9,219.08                  | -5,272.11     | -47.64        | 2,136.71                     | 3.30                        | -3.26                      | -0.56                     |
| 14,821.00                                                 | 88.06              | 180.27         | 9,221.74                  | -5,366.07     | -48.08        | 2,175.16                     | 0.67                        | -0.67                      | 0.00                      |



Nabors  
Survey Report



|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
| Company:  | Devon Energy Corporation | Local Co-ordinate Reference: | Well 514H                                    |
| Project:  | Eddy Co., NM             | TVD Reference:               | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Site:     | Cotton Draw Unit         | MD Reference:                | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Well:     | 514H                     | North Reference:             | Grid                                         |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | RyanUSA_ODBC_32-Bit                          |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 14,915.00           | 88.13           | 180.27      | 9,224.87            | -5,460.02  | -48.53     | 2,213.61              | 0.07                  | 0.07                 | 0.00                |
| 15,009.00           | 88.31           | 178.16      | 9,227.79            | -5,553.96  | -47.24     | 2,253.63              | 2.25                  | 0.19                 | -2.24               |
| 15,103.00           | 87.44           | 178.34      | 9,231.27            | -5,647.85  | -44.37     | 2,295.06              | 0.95                  | -0.93                | 0.19                |
| 15,198.00           | 90.19           | 176.93      | 9,233.24            | -5,742.74  | -40.45     | 2,337.87              | 3.25                  | 2.89                 | -1.48               |
| 15,292.00           | 90.00           | 176.58      | 9,233.08            | -5,836.59  | -35.13     | 2,381.52              | 0.42                  | -0.20                | -0.37               |
| 15,386.00           | 91.06           | 175.70      | 9,232.21            | -5,930.37  | -28.80     | 2,426.06              | 1.47                  | 1.13                 | -0.94               |
| 15,481.00           | 92.00           | 175.53      | 9,229.67            | -6,025.05  | -21.54     | 2,471.83              | 1.01                  | 0.99                 | -0.18               |
| 15,575.00           | 92.06           | 178.16      | 9,226.34            | -6,118.84  | -16.37     | 2,515.32              | 2.80                  | 0.06                 | 2.80                |
| 15,668.00           | 92.69           | 178.69      | 9,222.49            | -6,211.73  | -13.82     | 2,556.05              | 0.88                  | 0.68                 | 0.57                |
| 15,762.00           | 91.25           | 180.27      | 9,219.26            | -6,305.66  | -12.97     | 2,595.67              | 2.27                  | -1.53                | 1.68                |
| 15,856.00           | 91.13           | 180.27      | 9,217.31            | -6,399.64  | -13.41     | 2,634.13              | 0.13                  | -0.13                | 0.00                |
| 15,950.00           | 89.50           | 180.45      | 9,216.79            | -6,493.64  | -14.00     | 2,672.46              | 1.74                  | -1.73                | 0.19                |
| 16,043.00           | 89.88           | 182.03      | 9,217.29            | -6,586.61  | -16.01     | 2,709.07              | 1.75                  | 0.41                 | 1.70                |
| 16,137.00           | 90.31           | 181.68      | 9,217.14            | -6,680.56  | -19.05     | 2,745.15              | 0.59                  | 0.46                 | -0.37               |
| 16,231.00           | 91.38           | 182.03      | 9,215.75            | -6,774.50  | -22.10     | 2,781.23              | 1.20                  | 1.14                 | 0.37                |
| 16,324.00           | 91.75           | 181.68      | 9,213.21            | -6,867.42  | -25.11     | 2,816.91              | 0.55                  | 0.40                 | -0.38               |
| 16,418.00           | 86.75           | 179.39      | 9,214.44            | -6,961.37  | -25.98     | 2,854.96              | 5.85                  | -5.32                | -2.44               |
| 16,511.00           | 86.13           | 178.34      | 9,220.22            | -7,054.17  | -24.15     | 2,895.01              | 1.31                  | -0.67                | -1.13               |
| 16,605.00           | 88.13           | 177.99      | 9,224.92            | -7,148.00  | -21.14     | 2,936.54              | 2.16                  | 2.13                 | -0.37               |
| 16,692.20           | 89.69           | 177.33      | 9,226.58            | -7,235.10  | -17.58     | 2,975.80              | 1.94                  | 1.79                 | -0.76               |
| CDU_514H_T3         |                 |             |                     |            |            |                       |                       |                      |                     |
| 16,699.00           | 89.81           | 177.28      | 9,226.61            | -7,241.90  | -17.26     | 2,978.91              | 1.94                  | 1.79                 | -0.76               |
| 16,793.00           | 90.06           | 176.93      | 9,226.72            | -7,335.78  | -12.51     | 3,022.05              | 0.46                  | 0.27                 | -0.37               |
| 16,886.00           | 89.88           | 176.76      | 9,226.77            | -7,428.64  | -7.40      | 3,065.11              | 0.27                  | -0.19                | -0.18               |
| 16,979.00           | 90.50           | 177.28      | 9,226.46            | -7,521.51  | -2.56      | 3,107.91              | 0.87                  | 0.67                 | 0.56                |
| 17,072.00           | 91.00           | 177.64      | 9,225.24            | -7,614.41  | 1.56       | 3,150.08              | 0.66                  | 0.54                 | 0.39                |
| 17,166.00           | 91.56           | 177.28      | 9,223.14            | -7,708.29  | 5.72       | 3,192.70              | 0.71                  | 0.60                 | -0.38               |
| 17,260.00           | 91.13           | 178.51      | 9,220.94            | -7,802.20  | 9.18       | 3,234.67              | 1.39                  | -0.46                | 1.31                |
| 17,353.00           | 90.19           | 178.87      | 9,219.86            | -7,895.17  | 11.30      | 3,275.05              | 1.08                  | -1.01                | 0.39                |
| 17,448.00           | 89.38           | 178.16      | 9,220.22            | -7,990.14  | 13.76      | 3,316.56              | 1.13                  | -0.85                | -0.75               |
| 17,541.00           | 90.50           | 178.69      | 9,220.32            | -8,083.10  | 16.32      | 3,357.33              | 1.33                  | 1.20                 | 0.57                |
| 17,635.00           | 91.63           | 179.04      | 9,218.57            | -8,177.06  | 18.18      | 3,397.88              | 1.26                  | 1.20                 | 0.37                |
| 17,727.00           | 91.88           | 178.69      | 9,215.75            | -8,269.00  | 20.00      | 3,437.56              | 0.47                  | 0.27                 | -0.38               |
| 17,820.00           | 89.50           | 178.69      | 9,214.63            | -8,361.96  | 22.13      | 3,477.93              | 2.56                  | -2.56                | 0.00                |
| 17,914.00           | 89.00           | 178.16      | 9,215.86            | -8,455.92  | 24.71      | 3,519.14              | 0.78                  | -0.53                | -0.56               |
| 18,007.00           | 88.75           | 177.81      | 9,217.69            | -8,548.84  | 27.98      | 3,560.54              | 0.46                  | -0.27                | -0.38               |
| 18,102.00           | 88.75           | 178.16      | 9,219.76            | -8,643.76  | 31.32      | 3,602.83              | 0.37                  | 0.00                 | 0.37                |
| 18,196.00           | 89.19           | 178.34      | 9,221.45            | -8,737.70  | 34.19      | 3,644.29              | 0.51                  | 0.47                 | 0.19                |
| 18,289.00           | 88.25           | 177.99      | 9,223.53            | -8,830.63  | 37.17      | 3,685.43              | 1.08                  | -1.01                | -0.38               |
| 18,382.00           | 88.81           | 178.51      | 9,225.92            | -8,923.56  | 40.01      | 3,726.44              | 0.82                  | 0.60                 | 0.56                |
| 18,476.00           | 88.94           | 177.81      | 9,227.76            | -9,017.49  | 43.03      | 3,768.03              | 0.76                  | 0.14                 | -0.74               |
| 18,569.00           | 90.81           | 179.39      | 9,227.96            | -9,110.45  | 45.30      | 3,808.54              | 2.63                  | 2.01                 | 1.70                |
| 18,663.00           | 89.19           | 178.51      | 9,227.96            | -9,204.43  | 47.02      | 3,848.97              | 1.96                  | -1.72                | -0.94               |
| 18,757.00           | 92.13           | 179.39      | 9,226.88            | -9,298.40  | 48.74      | 3,889.39              | 3.26                  | 3.13                 | 0.94                |

|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
| Company:  | Devon Energy Corporation | Local Co-ordinate Reference: | Well 514H                                    |
| Project:  | Eddy Co., NM             | TVD Reference:               | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Site:     | Cotton Draw Unit         | MD Reference:                | KB=32' (Nabors X20) @ 3572.90ft (Nabors X20) |
| Well:     | 514H                     | North Reference:             | Grid                                         |
| Wellbore: | OH                       | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | RyanUSA_ODBC_32-Bit                          |

## Survey

| Measured Depth (ft)                                | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|----------------------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 18,851.00                                          | 91.69           | 178.87      | 9,223.75            | -9,392.34  | 50.17      | 3,929.54              | 0.72                  | -0.47                | -0.55               |
| 18,946.00                                          | 91.25           | 179.39      | 9,221.31            | -9,487.29  | 51.61      | 3,970.12              | 0.72                  | -0.46                | 0.55                |
| 19,040.00                                          | 90.88           | 179.39      | 9,219.56            | -9,581.27  | 52.61      | 4,009.89              | 0.39                  | -0.39                | 0.00                |
| 19,134.00                                          | 90.38           | 179.39      | 9,218.53            | -9,675.26  | 53.61      | 4,049.66              | 0.53                  | -0.53                | 0.00                |
| 19,228.00                                          | 90.50           | 178.87      | 9,217.81            | -9,769.25  | 55.04      | 4,089.83              | 0.57                  | 0.13                 | -0.55               |
| 19,321.00                                          | 91.13           | 178.87      | 9,216.49            | -9,862.22  | 56.87      | 4,129.94              | 0.68                  | 0.68                 | 0.00                |
| 19,328.97                                          | 91.12           | 178.84      | 9,216.33            | -9,870.18  | 57.03      | 4,133.38              | 0.39                  | -0.07                | -0.38               |
| <b>CDU_514H_TD</b>                                 |                 |             |                     |            |            |                       |                       |                      |                     |
| 19,330.14                                          | 91.12           | 178.83      | 9,216.31            | -9,871.36  | 57.06      | 4,133.89              | 0.39                  | -0.07                | -0.38               |
| <b>CDU_514H_BHL</b>                                |                 |             |                     |            |            |                       |                       |                      |                     |
| 19,415.00                                          | 91.06           | 178.51      | 9,214.69            | -9,956.18  | 59.02      | 4,170.75              | 0.39                  | -0.07                | -0.38               |
| 19,429.83                                          | 90.94           | 178.43      | 9,214.43            | -9,971.00  | 59.42      | 4,177.24              | 0.97                  | -0.80                | -0.55               |
| <b>100' Line @ 19429.83' MD, 0' FSL, 382' FEL</b>  |                 |             |                     |            |            |                       |                       |                      |                     |
| 19,509.00                                          | 90.31           | 177.99      | 9,213.57            | -10,050.13 | 61.89      | 4,212.22              | 0.97                  | -0.80                | -0.55               |
| 19,528.89                                          | 90.08           | 177.88      | 9,213.50            | -10,070.00 | 62.61      | 4,221.09              | 1.25                  | -1.14                | -0.53               |
| <b>Lease Line @ 19528.89' MD, 0' FSL, 379' FEL</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 19,575.00                                          | 89.56           | 177.64      | 9,213.64            | -10,116.08 | 64.41      | 4,241.78              | 1.25                  | -1.14                | -0.53               |
| 19,640.00                                          | 89.56           | 177.64      | 9,214.14            | -10,181.02 | 67.08      | 4,271.07              | 0.00                  | 0.00                 | 0.00                |
| <b>PBHL @ 19640' MD, 111' FSL, 375' FEL</b>        |                 |             |                     |            |            |                       |                       |                      |                     |

## Design Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                                            |
|---------------------|---------------------|-------------------|------------|----------------------------------------------------|
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                                                    |
| 8,673.00            | 8,636.50            | 445.38            | 5.58       | KOP @ 8673' MD, 40' FNL, 382' FEL                  |
| 14,249.50           | 9,234.07            | -4,795.00         | -45.89     | Cross Section Line @ 14249.5' MD, 0' FSL, 454' FEL |
| 19,429.83           | 9,214.43            | -9,971.00         | 59.42      | 100' Line @ 19429.83' MD, 0' FSL, 382' FEL         |
| 19,528.89           | 9,213.50            | -10,070.00        | 62.61      | Lease Line @ 19528.89' MD, 0' FSL, 379' FEL        |
| 19,640.00           | 9,214.14            | -10,181.02        | 67.08      | PBHL @ 19640' MD, 111' FSL, 375' FEL               |

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



Project: Eddy Co., NM  
Site: Cotton Draw Unit  
Well: 514H  
Wellbore: OH  
Plan: PNE (514H/DH)

### WELL DETAILS: 514H

Ground Elevation: 3540.90  
RKB Elevation: KB=32' (Nabors X20) @ 3572.80R (Nabors X20)  
Rig Name: Nabors X20

\*N=5 0.00 \*E=W 0.00 Northing 434843.040 Easting 729763.800 32° 11' 38.367416 N 103° 43' 27.121085 W

### SECTION DETAILS

| MD       | Inc   | As     | TVD     | *N-S     | *E-W   | Dleg | TFace  | Vsect   |
|----------|-------|--------|---------|----------|--------|------|--------|---------|
| 8535.00  | 78.88 | 183.96 | 9252.77 | -75.87   | -1.49  | 0.00 | 0.00   | 75.86   |
| 9650.19  | 90.00 | 182.11 | 9264.88 | -70.10   | -8.06  | 8.00 | -8.50  | 700.04  |
| 11621.94 | 90.00 | 182.11 | 9265.00 | -71.50   | -8.00  | 0.00 | 0.00   | 2150.00 |
| 11765.86 | 90.78 | 178.93 | 9263.88 | -2314.40 | -81.43 | 2.00 | -76.08 | 2313.87 |
| 14452.45 | 90.78 | 178.93 | 9277.09 | -5005.28 | -31.33 | 0.00 | 0.00   | 5000.00 |
| 14491.79 | 90.00 | 178.93 | 9276.92 | -5039.61 | -30.59 | 0.00 | 178.98 | 5039.33 |
| 19323.36 | 90.00 | 178.93 | 9277.00 | -9870.34 | 55.61  | 0.00 | 0.00   | 9870.52 |

PROJECT DETAILS: Eddy Co., NM  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Elevation: GRS (1987)  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level  
Local North: Grid



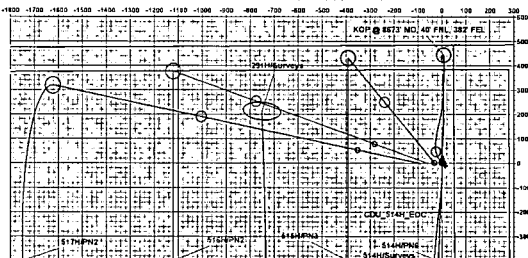
Azimuth to Grid North  
True North: -0.33°  
Magnetic North: 6.00°  
Magnetic Field  
Strength: 48027.3uT  
Dip Angle: 53.92°  
Date: 6/1/2016  
Model: USER DEFINED



### WELLBORE TARGET DETAILS (NAP CO-ORDINATES)

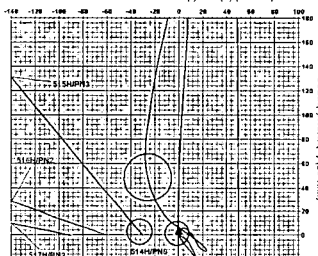
| Name            | TVD     | *N-S     | *E-W   | Northing   | Easting    |
|-----------------|---------|----------|--------|------------|------------|
| CDU_514H_BHL    | 9227.00 | -9870.34 | 116.51 | 435072.720 | 729874.310 |
| CDU_514H_EOC    | 9265.00 | -300.13  | -8.06  | 434162.840 | 729755.760 |
| CDU_514H_KOP    | 8664.21 | 434.79   | -3.72  | 435377.828 | 729781.080 |
| CDU_514H_T1_PNE | 9265.00 | -2150.33 | -80.00 | 432783.334 | 729665.800 |
| CDU_514H_T2_PNE | 9227.09 | -5005.28 | -31.33 | 429942.770 | 729732.470 |
| CDU_514H_T0     | 9227.00 | -9870.34 | 59.61  | 435072.720 | 729874.310 |

### West(y)/East(x) (100 ft)

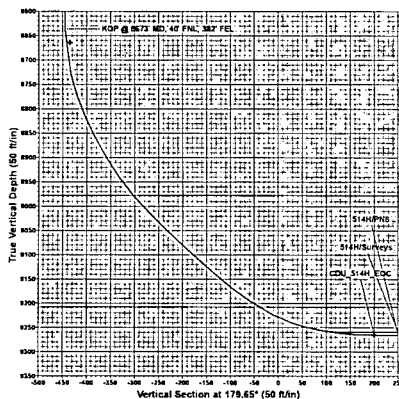
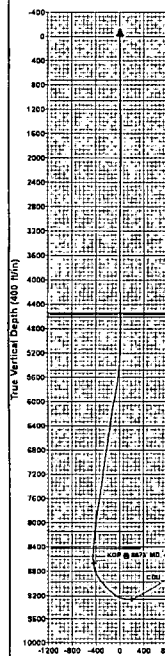
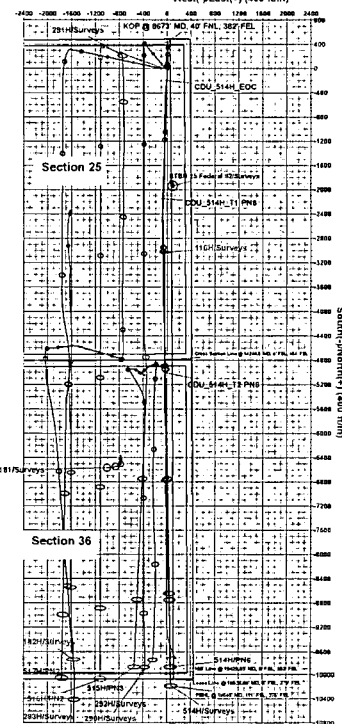


| FORMATION TOP DETAILS |         |                |
|-----------------------|---------|----------------|
| TVD(ft)               | MD(ft)  | Formation      |
| 717.00                | 717.02  | Basal          |
| 1052.00               | 1052.16 | Basal          |
| 1547.00               | 1547.84 | Base of Salt   |
| 1561.00               | 1562.64 | Shallow        |
| 1612.00               | 1612.88 | Red Canyon     |
| 1642.00               | 1648.86 | Cherty Canyon  |
| 1672.00               | 1677.48 | Brady          |
| 1677.00               | 1683.33 | Int. ESPV Unit |
| 2257.00               | 2253.49 | Lizard A       |
| 8977.00               | 8964.87 | Lizard B       |
| 9257.00               | 9258.68 | Lizard C       |

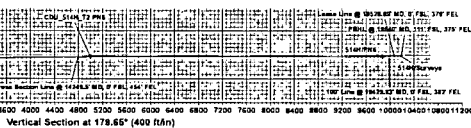
### West(y)/East(x) (20 ft)



### West(y)/East(x) (400 ft)



Vertical Section at 179.65° (50 ft)



Vertical Section at 179.65° (400 ft)