

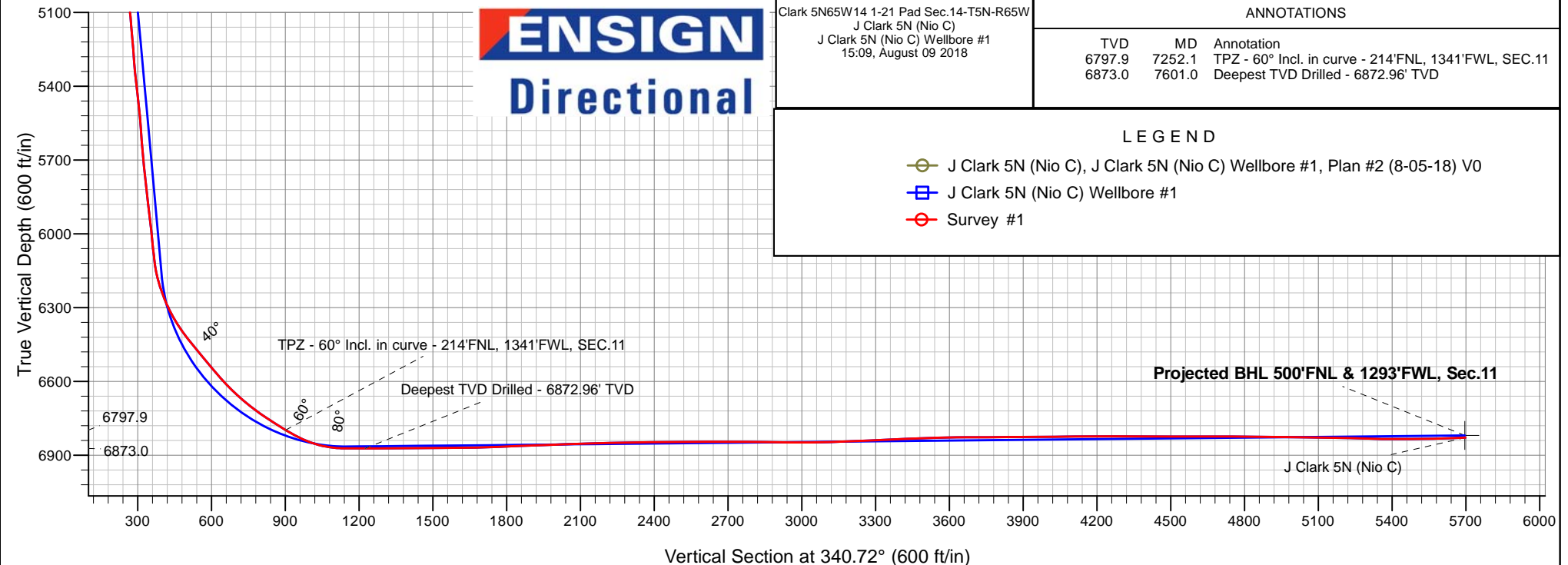
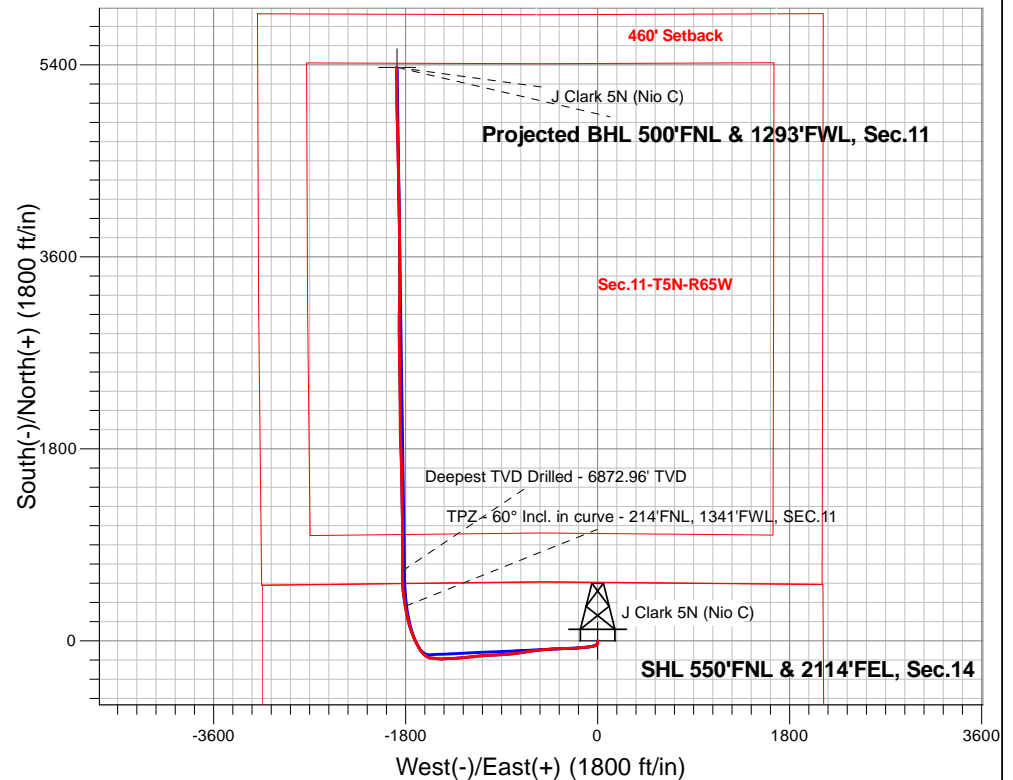
# PDC Energy Inc. DJ Basin

Well Name: **J Clark 5N (Nio C)**

Surface Location: Clark 5N65W14 1-21 Pad Sec.14-T5N-R65W  
 North American Datum 1983 , US State Plane 1983, Colorado Northern Zone  
 Ground Elevation: 4615.0  
 +N/-S+E/-W Northing Easting Latitude Longitude Slot  
 0.0 0.0 1391636.24 3242650.93 40.405171 -104.628674  
 Original Well Elev WELL @ 4638.0ft (Original Well Elev)

## FINAL SURVEY

**Projected Bottom Hole Location**  
**12,322'MD 6829'TVD 5377'N & 1887'W of SHL**  
**91.6 degree Incl @ 358.40 degree AZM**



Clark 5N65W14 1-21 Pad Sec.14-T5N-R65W  
 J Clark 5N (Nio C)  
 J Clark 5N (Nio C) Wellbore #1  
 15:09, August 09 2018

### ANNOTATIONS

| TVD    | MD     | Annotation   |
|--------|--------|--|
| 6797.9 | 7252.1 | TPZ - 60° Incl. in curve - 214'FNL, 1341'FWL, SEC.11 |
| 6873.0 | 7601.0 | Deepest TVD Drilled - 6872.96' TVD                   |

### LEGEND

- J Clark 5N (Nio C), J Clark 5N (Nio C) Wellbore #1, Plan #2 (8-05-18) V0
- J Clark 5N (Nio C) Wellbore #1
- Survey #1



## **PDC Energy Inc. DJ Basin**

**SEC.14-T5N-R65W**

**Clark 5N65W14 1-21 Pad Sec.14-T5N-R65W**

**J Clark 5N (Nio C)**

**J Clark 5N (Nio C) Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**09 August, 2018**

|                  |  |                                     |                                      |
|------------------|--|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | PDC Energy Inc. DJ Basin               | <b>Local Co-ordinate Reference:</b> | Well J Clark 5N (Nio C)              |
| <b>Project:</b>  | SEC.14-T5N-R65W                        | <b>TVD Reference:</b>               | WELL @ 4638.0ft (Original Well Elev) |
| <b>Site:</b>     | Clark 5N65W14 1-21 Pad Sec.14-T5N-R65W | <b>MD Reference:</b>                | WELL @ 4638.0ft (Original Well Elev) |
| <b>Well:</b>     | J Clark 5N (Nio C)                     | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | J Clark 5N (Nio C) Wellbore #1         | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | J Clark 5N (Nio C) Wellbore #1         | <b>Database:</b>                    | US_EDM                               |

|                    |  |                      |                             |
|--------------------|--|----------------------|-----------------------------|
| <b>Project</b>     | SEC.14-T5N-R65W, Weld County, Colorado |                      |                             |
| <b>Map System:</b> | US State Plane 1983                    | <b>System Datum:</b> | Mean Sea Level              |
| <b>Geo Datum:</b>  | North American Datum 1983              |                      | Using Well Reference Point  |
| <b>Map Zone:</b>   | Colorado Northern Zone                 |                      | Using geodetic scale factor |

|                       |          |  |              |         |            |                   |      |   |
|-----------------------|----------|--|--------------|---------|------------|-------------------|------|---|
| Site                  |          | Clark 5N65W14 1-21 Pad Sec.14-T5N-R65W |              |         |            |                   |      |   |
| Site Position:        |          | Northing:                              | 1,391,636.42 | usft    | Latitude:  | 40.405168         |      |   |
| From:                 | Lat/Long | Easting:                               | 3,242,770.94 | usft    | Longitude: | -104.628243       |      |   |
| Position Uncertainty: | 0.0      | ft                                     | Slot Radius: | 13-3/16 | "          | Grid Convergence: | 0.56 | ° |

| Well                 | J Clark 5N (Nio C) |        |                     |                   |               |             |
|----------------------|--------------------|--------|---------------------|-------------------|---------------|-------------|
| Well Position        | +N/-S              | 0.0 ft | Northing:           | 1,391,636.24 usft | Latitude:     | 40.405171   |
|                      | +E/-W              | 0.0 ft | Easting:            | 3,242,650.93 usft | Longitude:    | -104.628674 |
| Position Uncertainty |                    | 0.0 ft | Wellhead Elevation: | 0.0 ft            | Ground Level: | 4,615.0 ft  |

|                  |                                |                    |                        |                      |                            |
|------------------|--------------------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | J Clark 5N (Nio C) Wellbore #1 |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b>              | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | HDGM                           | 8/5/2018           | 8.10                   | 66.87                | 52,223                     |

|                          |                                |                   |                   |                      |     |
|--------------------------|--------------------------------|-------------------|-------------------|----------------------|-----|
| <b>Design</b>            | J Clark 5N (Nio C) Wellbore #1 |                   |                   |                      |     |
| <b>Audit Notes:</b>      |                                |                   |                   |                      |     |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>     | ACTUAL            | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b>   | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Direction (°)</b> |     |
|                          | 0.0                            | 0.0               | 0.0               | 340.72               |     |

|                       |                |   |                  |                    |  |
|-----------------------|----------------|---|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 8/9/2018                                  |                  |                    |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b>                  | <b>Tool Name</b> | <b>Description</b> |  |
| 153.0                 | 12,322.0       | Survey #1 (J Clark 5N (Nio C) Wellbore #1 | MWD              | MWD - Standard     |  |

|   |                        |                    |                            |                   |                   |                              |                                |                               |                              |  |
|---|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| <b>Survey</b>                             |                        |                    |                            |                   |                   |                              |                                |                               |                              |  |
| <b>Measured Depth (ft)</b>                | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Vertical Section (ft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |  |
| 0.0                                       | 0.00                   | 0.00               | 0.0                        | 0.0               | 0.0               | 0.0                          | 0.00                           | 0.00                          | 0.00                         |  |
| 1.0                                       | 0.00                   | 293.40             | 1.0                        | 0.0               | 0.0               | 0.0                          | 0.26                           | 0.26                          | 0.00                         |  |
| <b>SHL 550'FNL &amp; 2114'FEL, Sec.14</b> |                        |                    |                            |                   |                   |                              |                                |                               |                              |  |
| 153.0                                     | 0.40                   | 293.40             | 153.0                      | 0.2               | -0.5              | 0.4                          | 0.26                           | 0.26                          | 0.00                         |  |
| 249.0                                     | 2.00                   | 180.00             | 249.0                      | -1.3              | -0.8              | -1.0                         | 2.28                           | 1.67                          | -118.13                      |  |
| 344.0                                     | 4.00                   | 176.00             | 343.8                      | -6.3              | -0.6              | -5.8                         | 2.12                           | 2.11                          | -4.21                        |  |
| 440.0                                     | 4.30                   | 176.10             | 439.6                      | -13.2             | -0.1              | -12.5                        | 0.31                           | 0.31                          | 0.10                         |  |
| 535.0                                     | 4.20                   | 178.30             | 534.3                      | -20.3             | 0.3               | -19.2                        | 0.20                           | -0.11                         | 2.32                         |  |
| 630.0                                     | 5.20                   | 201.80             | 629.0                      | -27.7             | -1.2              | -25.8                        | 2.26                           | 1.05                          | 24.74                        |  |
| 725.0                                     | 6.20                   | 224.70             | 723.6                      | -35.4             | -6.4              | -31.3                        | 2.59                           | 1.05                          | 24.11                        |  |
| 821.0                                     | 6.90                   | 241.90             | 818.9                      | -41.8             | -15.2             | -34.4                        | 2.16                           | 0.73                          | 17.92                        |  |

|                  |  |                                     |                                      |
|------------------|--|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | PDC Energy Inc. DJ Basin               | <b>Local Co-ordinate Reference:</b> | Well J Clark 5N (Nio C)              |
| <b>Project:</b>  | SEC.14-T5N-R65W                        | <b>TVD Reference:</b>               | WELL @ 4638.0ft (Original Well Elev) |
| <b>Site:</b>     | Clark 5N65W14 1-21 Pad Sec.14-T5N-R65W | <b>MD Reference:</b>                | WELL @ 4638.0ft (Original Well Elev) |
| <b>Well:</b>     | J Clark 5N (Nio C)                     | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | J Clark 5N (Nio C) Wellbore #1         | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | J Clark 5N (Nio C) Wellbore #1         | <b>Database:</b>                    | US_EDM                               |

| Survey              |                 |             |                     |            |            |                       |                         |                        |                       |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 916.0               | 7.50            | 254.50      | 913.2               | -46.1      | -26.2      | -34.9                 | 1.77                    | 0.63                   | 13.26                 |
| 1,011.0             | 8.40            | 258.20      | 1,007.3             | -49.2      | -39.0      | -33.6                 | 1.09                    | 0.95                   | 3.89                  |
| 1,107.0             | 9.70            | 261.20      | 1,102.1             | -51.9      | -53.8      | -31.2                 | 1.44                    | 1.35                   | 3.13                  |
| 1,202.0             | 11.20           | 261.80      | 1,195.5             | -54.4      | -70.9      | -28.0                 | 1.58                    | 1.58                   | 0.63                  |
| 1,297.0             | 12.80           | 264.20      | 1,288.4             | -56.8      | -90.5      | -23.7                 | 1.76                    | 1.68                   | 2.53                  |
| 1,393.0             | 12.20           | 264.40      | 1,382.2             | -58.9      | -111.1     | -18.9                 | 0.63                    | -0.63                  | 0.21                  |
| 1,488.0             | 13.10           | 264.60      | 1,474.9             | -60.8      | -131.8     | -13.9                 | 0.95                    | 0.95                   | 0.21                  |
| 1,583.0             | 12.20           | 262.80      | 1,567.5             | -63.1      | -152.5     | -9.2                  | 1.03                    | -0.95                  | -1.89                 |
| 1,773.0             | 13.70           | 263.20      | 1,752.7             | -68.3      | -194.8     | -0.2                  | 0.79                    | 0.79                   | 0.21                  |
| 1,869.0             | 16.40           | 267.70      | 1,845.4             | -70.2      | -219.6     | 6.3                   | 3.06                    | 2.81                   | 4.69                  |
| 1,964.0             | 18.40           | 269.30      | 1,936.1             | -70.9      | -248.0     | 14.9                  | 2.16                    | 2.11                   | 1.68                  |
| 2,058.0             | 17.90           | 269.50      | 2,025.4             | -71.2      | -277.3     | 24.3                  | 0.54                    | -0.53                  | 0.21                  |
| 2,154.0             | 17.10           | 267.40      | 2,116.9             | -72.0      | -306.1     | 33.1                  | 1.06                    | -0.83                  | -2.19                 |
| 2,249.0             | 17.90           | 268.40      | 2,207.5             | -73.0      | -334.7     | 41.6                  | 0.90                    | 0.84                   | 1.05                  |
| 2,345.0             | 18.00           | 268.30      | 2,298.9             | -73.9      | -364.3     | 50.5                  | 0.11                    | 0.10                   | -0.10                 |
| 2,440.0             | 17.10           | 268.40      | 2,389.4             | -74.7      | -392.9     | 59.2                  | 0.95                    | -0.95                  | 0.11                  |
| 2,536.0             | 17.90           | 267.20      | 2,481.0             | -75.8      | -421.7     | 67.7                  | 0.91                    | 0.83                   | -1.25                 |
| 2,632.0             | 20.10           | 266.10      | 2,571.8             | -77.7      | -452.9     | 76.2                  | 2.32                    | 2.29                   | -1.15                 |
| 2,727.0             | 20.00           | 265.40      | 2,661.0             | -80.1      | -485.4     | 84.7                  | 0.27                    | -0.11                  | -0.74                 |
| 2,823.0             | 19.80           | 264.90      | 2,751.3             | -82.8      | -518.0     | 92.8                  | 0.27                    | -0.21                  | -0.52                 |
| 2,918.0             | 18.40           | 262.60      | 2,841.0             | -86.2      | -548.9     | 99.8                  | 1.67                    | -1.47                  | -2.42                 |
| 3,014.0             | 17.40           | 261.60      | 2,932.4             | -90.2      | -578.1     | 105.7                 | 1.09                    | -1.04                  | -1.04                 |
| 3,110.0             | 16.40           | 259.30      | 3,024.2             | -94.9      | -605.6     | 110.4                 | 1.25                    | -1.04                  | -2.40                 |
| 3,205.0             | 16.60           | 262.50      | 3,115.3             | -99.1      | -632.3     | 115.2                 | 0.98                    | 0.21                   | 3.37                  |
| 3,301.0             | 17.40           | 261.90      | 3,207.1             | -102.9     | -660.1     | 120.8                 | 0.85                    | 0.83                   | -0.63                 |
| 3,396.0             | 17.90           | 261.80      | 3,297.7             | -107.0     | -688.6     | 126.3                 | 0.53                    | 0.53                   | -0.11                 |
| 3,492.0             | 18.50           | 263.50      | 3,388.9             | -110.8     | -718.3     | 132.5                 | 0.83                    | 0.63                   | 1.77                  |
| 3,587.0             | 17.30           | 262.50      | 3,479.3             | -114.4     | -747.3     | 138.7                 | 1.30                    | -1.26                  | -1.05                 |
| 3,683.0             | 16.30           | 261.40      | 3,571.2             | -118.3     | -774.8     | 144.1                 | 1.09                    | -1.04                  | -1.15                 |
| 3,778.0             | 17.80           | 263.70      | 3,662.0             | -121.9     | -802.4     | 149.9                 | 1.73                    | 1.58                   | 2.42                  |
| 3,874.0             | 19.40           | 267.60      | 3,753.0             | -124.1     | -832.9     | 157.8                 | 2.11                    | 1.67                   | 4.06                  |
| 3,970.0             | 19.30           | 266.50      | 3,843.6             | -125.8     | -864.7     | 166.7                 | 0.39                    | -0.10                  | -1.15                 |
| 4,065.0             | 18.30           | 264.90      | 3,933.5             | -128.1     | -895.2     | 174.7                 | 1.18                    | -1.05                  | -1.68                 |
| 4,160.0             | 17.20           | 262.80      | 4,024.0             | -131.1     | -924.0     | 181.3                 | 1.34                    | -1.16                  | -2.21                 |
| 4,255.0             | 17.90           | 266.50      | 4,114.5             | -133.8     | -952.5     | 188.2                 | 1.39                    | 0.74                   | 3.89                  |
| 4,351.0             | 18.30           | 270.00      | 4,205.8             | -134.7     | -982.3     | 197.2                 | 1.21                    | 0.42                   | 3.65                  |
| 4,447.0             | 17.70           | 268.60      | 4,297.1             | -135.1     | -1,011.9   | 206.6                 | 0.77                    | -0.63                  | -1.46                 |
| 4,543.0             | 16.60           | 267.00      | 4,388.8             | -136.1     | -1,040.2   | 214.9                 | 1.25                    | -1.15                  | -1.67                 |
| 4,638.0             | 19.00           | 267.20      | 4,479.3             | -137.6     | -1,069.2   | 223.1                 | 2.53                    | 2.53                   | 0.21                  |
| 4,734.0             | 19.40           | 265.40      | 4,569.9             | -139.6     | -1,100.7   | 231.6                 | 0.74                    | 0.42                   | -1.88                 |
| 4,830.0             | 18.00           | 262.80      | 4,660.9             | -142.8     | -1,131.3   | 238.7                 | 1.70                    | -1.46                  | -2.71                 |
| 4,925.0             | 16.60           | 261.60      | 4,751.6             | -146.6     | -1,159.3   | 244.4                 | 1.52                    | -1.47                  | -1.26                 |
| 5,021.0             | 17.10           | 264.60      | 4,843.4             | -149.9     | -1,187.0   | 250.3                 | 1.04                    | 0.52                   | 3.13                  |

|                  |  |                                     |                                      |
|------------------|--|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | PDC Energy Inc. DJ Basin               | <b>Local Co-ordinate Reference:</b> | Well J Clark 5N (Nio C)              |
| <b>Project:</b>  | SEC.14-T5N-R65W                        | <b>TVD Reference:</b>               | WELL @ 4638.0ft (Original Well Elev) |
| <b>Site:</b>     | Clark 5N65W14 1-21 Pad Sec.14-T5N-R65W | <b>MD Reference:</b>                | WELL @ 4638.0ft (Original Well Elev) |
| <b>Well:</b>     | J Clark 5N (Nio C)                     | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | J Clark 5N (Nio C) Wellbore #1         | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | J Clark 5N (Nio C) Wellbore #1         | <b>Database:</b>                    | US_EDM                               |

| Survey   |                 |             |                     |            |            |                       |                         |                        |                       |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft)                                  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,116.0  | 18.00           | 264.90      | 4,934.0             | -152.5     | -1,215.5   | 257.3                 | 0.95                    | 0.95                   | 0.32                  |
| 5,212.0  | 16.90           | 263.30      | 5,025.6             | -155.5     | -1,244.1   | 264.0                 | 1.25                    | -1.15                  | -1.67                 |
| 5,307.0  | 17.90           | 265.40      | 5,116.3             | -158.3     | -1,272.4   | 270.7                 | 1.24                    | 1.05                   | 2.21                  |
| 5,403.0  | 19.20           | 265.10      | 5,207.3             | -160.8     | -1,302.8   | 278.3                 | 1.36                    | 1.35                   | -0.31                 |
| 5,498.0  | 17.90           | 263.20      | 5,297.3             | -163.9     | -1,332.9   | 285.4                 | 1.51                    | -1.37                  | -2.00                 |
| 5,594.0  | 19.70           | 271.20      | 5,388.2             | -165.3     | -1,363.7   | 294.2                 | 3.27                    | 1.88                   | 8.33                  |
| 5,690.0  | 18.40           | 268.30      | 5,479.0             | -165.4     | -1,395.0   | 304.4                 | 1.67                    | -1.35                  | -3.02                 |
| 5,786.0  | 17.10           | 266.90      | 5,570.4             | -166.6     | -1,424.3   | 313.0                 | 1.43                    | -1.35                  | -1.46                 |
| 5,881.0  | 15.70           | 265.10      | 5,661.5             | -168.5     | -1,451.0   | 320.0                 | 1.57                    | -1.47                  | -1.89                 |
| 5,977.0  | 16.10           | 270.90      | 5,753.9             | -169.4     | -1,477.3   | 327.9                 | 1.71                    | 0.42                   | 6.04                  |
| 6,072.0  | 16.70           | 277.40      | 5,845.0             | -167.4     | -1,504.0   | 338.5                 | 2.03                    | 0.63                   | 6.84                  |
| 6,167.0  | 15.20           | 275.80      | 5,936.3             | -164.4     | -1,529.9   | 349.9                 | 1.65                    | -1.58                  | -1.68                 |
| 6,262.0  | 13.50           | 272.80      | 6,028.4             | -162.6     | -1,553.4   | 359.4                 | 1.95                    | -1.79                  | -3.16                 |
| 6,358.0  | 14.90           | 280.70      | 6,121.5             | -159.7     | -1,576.7   | 369.8                 | 2.49                    | 1.46                   | 8.23                  |
| 6,454.0  | 22.10           | 302.40      | 6,212.5             | -147.7     | -1,604.2   | 390.1                 | 10.26                   | 7.50                   | 22.60                 |
| 6,549.0  | 27.70           | 314.70      | 6,298.7             | -122.6     | -1,635.0   | 424.1                 | 8.00                    | 5.89                   | 12.95                 |
| 6,645.0  | 34.20           | 329.10      | 6,381.1             | -83.7      | -1,664.8   | 470.7                 | 10.22                   | 6.77                   | 15.00                 |
| 6,740.0  | 40.60           | 334.50      | 6,456.6             | -32.8      | -1,691.8   | 527.6                 | 7.56                    | 6.74                   | 5.68                  |
| 6,836.0  | 39.30           | 333.80      | 6,530.2             | 22.7       | -1,718.7   | 588.8                 | 1.43                    | -1.35                  | -0.73                 |
| 6,932.0  | 42.70           | 339.30      | 6,602.6             | 80.5       | -1,743.6   | 651.6                 | 5.16                    | 3.54                   | 5.73                  |
| 7,027.0  | 48.70           | 343.70      | 6,669.0             | 144.9      | -1,765.1   | 719.5                 | 7.13                    | 6.32                   | 4.63                  |
| 7,123.0  | 55.00           | 347.50      | 6,728.3             | 218.0      | -1,783.7   | 794.7                 | 7.26                    | 6.56                   | 3.96                  |
| 7,218.0  | 58.40           | 350.50      | 6,780.4             | 295.9      | -1,798.8   | 873.2                 | 4.45                    | 3.58                   | 3.16                  |
| 7,252.1  | 60.00           | 350.76      | 6,797.9             | 324.8      | -1,803.6   | 902.1                 | 4.73                    | 4.69                   | 0.75                  |
| TPZ - 60° Incl. in curve - 214'FNL, 1341'FWL, SEC.11 |                 |             |                     |            |            |                       |                         |                        |                       |
| 7,314.0  | 62.90           | 351.20      | 6,827.5             | 378.5      | -1,812.1   | 955.6                 | 4.73                    | 4.69                   | 0.72                  |
| 7,409.0  | 76.70           | 353.70      | 6,860.2             | 466.7      | -1,823.7   | 1,042.6               | 14.73                   | 14.53                  | 2.63                  |
| 7,505.0  | 88.80           | 0.40        | 6,872.3             | 561.6      | -1,828.5   | 1,133.8               | 14.37                   | 12.60                  | 6.98                  |
| 7,532.2  | 89.25           | 0.34        | 6,872.8             | 588.8      | -1,828.4   | 1,159.4               | 1.68                    | 1.67                   | -0.21                 |
| LPL 50'FSL & 1334'FWL, Sec.11                        |                 |             |                     |            |            |                       |                         |                        |                       |
| 7,601.0  | 90.40           | 0.20        | 6,873.0             | 657.6      | -1,828.0   | 1,224.2               | 1.68                    | 1.67                   | -0.21                 |
| Deepest TVD Drilled - 6872.96' TVD                   |                 |             |                     |            |            |                       |                         |                        |                       |
| 7,696.0  | 90.30           | 0.50        | 6,872.4             | 752.6      | -1,827.4   | 1,313.7               | 0.33                    | -0.11                  | 0.32                  |
| 7,792.0  | 90.60           | 359.50      | 6,871.6             | 848.6      | -1,827.4   | 1,404.3               | 1.09                    | 0.31                   | -1.04                 |
| 7,887.0  | 90.30           | 359.50      | 6,870.9             | 943.6      | -1,828.3   | 1,494.2               | 0.32                    | -0.32                  | 0.00                  |
| 7,983.0  | 89.90           | 359.00      | 6,870.7             | 1,039.5    | -1,829.5   | 1,585.3               | 0.67                    | -0.42                  | -0.52                 |
| 8,078.0  | 92.00           | 359.10      | 6,869.1             | 1,134.5    | -1,831.1   | 1,675.4               | 2.21                    | 2.21                   | 0.11                  |
| 8,174.0  | 91.90           | 359.30      | 6,865.9             | 1,230.5    | -1,832.4   | 1,766.4               | 0.23                    | -0.10                  | 0.21                  |
| 8,269.0  | 92.00           | 359.00      | 6,862.6             | 1,325.4    | -1,833.9   | 1,856.5               | 0.33                    | 0.11                   | -0.32                 |
| 8,365.0  | 92.00           | 358.60      | 6,859.3             | 1,421.3    | -1,835.9   | 1,947.7               | 0.42                    | 0.00                   | -0.42                 |
| 8,461.0  | 92.20           | 358.40      | 6,855.8             | 1,517.2    | -1,838.4   | 2,039.1               | 0.29                    | 0.21                   | -0.21                 |
| 8,556.0  | 91.50           | 359.10      | 6,852.7             | 1,612.1    | -1,840.4   | 2,129.4               | 1.04                    | -0.74                  | 0.74                  |
| 8,652.0  | 91.20           | 359.00      | 6,850.4             | 1,708.1    | -1,842.0   | 2,220.5               | 0.33                    | -0.31                  | -0.10                 |
| 8,748.0  | 90.60           | 357.90      | 6,848.9             | 1,804.0    | -1,844.6   | 2,311.9               | 1.31                    | -0.63                  | -1.15                 |

|                  |  |                                     |                                      |
|------------------|--|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | PDC Energy Inc. DJ Basin               | <b>Local Co-ordinate Reference:</b> | Well J Clark 5N (Nio C)              |
| <b>Project:</b>  | SEC.14-T5N-R65W                        | <b>TVD Reference:</b>               | WELL @ 4638.0ft (Original Well Elev) |
| <b>Site:</b>     | Clark 5N65W14 1-21 Pad Sec.14-T5N-R65W | <b>MD Reference:</b>                | WELL @ 4638.0ft (Original Well Elev) |
| <b>Well:</b>     | J Clark 5N (Nio C)                     | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | J Clark 5N (Nio C) Wellbore #1         | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | J Clark 5N (Nio C) Wellbore #1         | <b>Database:</b>                    | US_EDM                               |

| Survey                                    |                 |             |                     |            |            |                       |                         |                        |                       |  |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft)                       | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 8,844.0                                   | 91.00           | 357.40      | 6,847.6             | 1,900.0    | -1,848.6   | 2,403.7               | 0.67                    | 0.42                   | -0.52                 |  |
| 8,939.0                                   | 90.60           | 359.50      | 6,846.3             | 1,994.9    | -1,851.1   | 2,494.2               | 2.25                    | -0.42                  | 2.21                  |  |
| 9,035.0                                   | 90.30           | 0.20        | 6,845.5             | 2,090.9    | -1,851.4   | 2,584.9               | 0.79                    | -0.31                  | 0.73                  |  |
| 9,131.0                                   | 89.80           | 359.80      | 6,845.4             | 2,186.9    | -1,851.4   | 2,675.5               | 0.67                    | -0.52                  | -0.42                 |  |
| 9,226.0                                   | 89.60           | 359.70      | 6,845.9             | 2,281.9    | -1,851.8   | 2,765.3               | 0.24                    | -0.21                  | -0.11                 |  |
| 9,322.0                                   | 89.40           | 359.10      | 6,846.8             | 2,377.9    | -1,852.8   | 2,856.3               | 0.66                    | -0.21                  | -0.63                 |  |
| 9,418.0                                   | 89.30           | 358.40      | 6,847.9             | 2,473.9    | -1,854.9   | 2,947.5               | 0.74                    | -0.10                  | -0.73                 |  |
| 9,513.0                                   | 90.70           | 359.30      | 6,847.9             | 2,568.8    | -1,856.8   | 3,037.8               | 1.75                    | 1.47                   | 0.95                  |  |
| 9,609.0                                   | 91.70           | 359.50      | 6,845.8             | 2,664.8    | -1,857.8   | 3,128.7               | 1.06                    | 1.04                   | 0.21                  |  |
| 9,704.0                                   | 92.10           | 359.10      | 6,842.7             | 2,759.8    | -1,859.0   | 3,218.7               | 0.60                    | 0.42                   | -0.42                 |  |
| 9,799.0                                   | 92.20           | 358.30      | 6,839.1             | 2,854.7    | -1,861.1   | 3,309.0               | 0.85                    | 0.11                   | -0.84                 |  |
| 9,895.0                                   | 92.20           | 0.70        | 6,835.4             | 2,950.6    | -1,862.0   | 3,399.9               | 2.50                    | 0.00                   | 2.50                  |  |
| 9,991.0                                   | 92.90           | 1.20        | 6,831.2             | 3,046.5    | -1,860.4   | 3,489.8               | 0.90                    | 0.73                   | 0.52                  |  |
| 10,086.0                                  | 91.10           | 1.40        | 6,827.9             | 3,141.4    | -1,858.2   | 3,578.7               | 1.91                    | -1.89                  | 0.21                  |  |
| 10,181.0                                  | 90.00           | 0.40        | 6,826.9             | 3,236.4    | -1,856.7   | 3,667.9               | 1.56                    | -1.16                  | -1.05                 |  |
| 10,277.0                                  | 90.10           | 0.00        | 6,826.9             | 3,332.4    | -1,856.4   | 3,758.4               | 0.43                    | 0.10                   | -0.42                 |  |
| 10,372.0                                  | 90.10           | 359.50      | 6,826.7             | 3,427.4    | -1,856.8   | 3,848.2               | 0.53                    | 0.00                   | -0.53                 |  |
| 10,468.0                                  | 90.60           | 359.30      | 6,826.1             | 3,523.4    | -1,857.8   | 3,939.1               | 0.56                    | 0.52                   | -0.21                 |  |
| 10,563.0                                  | 90.40           | 0.40        | 6,825.3             | 3,618.3    | -1,858.1   | 4,028.9               | 1.18                    | -0.21                  | 1.16                  |  |
| 10,658.0                                  | 90.40           | 0.40        | 6,824.6             | 3,713.3    | -1,857.4   | 4,118.3               | 0.00                    | 0.00                   | 0.00                  |  |
| 10,754.0                                  | 90.60           | 359.70      | 6,823.8             | 3,809.3    | -1,857.3   | 4,208.9               | 0.76                    | 0.21                   | -0.73                 |  |
| 10,849.0                                  | 89.80           | 0.00        | 6,823.4             | 3,904.3    | -1,857.6   | 4,298.7               | 0.90                    | -0.84                  | 0.32                  |  |
| 10,945.0                                  | 89.70           | 359.30      | 6,823.9             | 4,000.3    | -1,858.2   | 4,389.5               | 0.74                    | -0.10                  | -0.73                 |  |
| 11,041.0                                  | 90.00           | 358.60      | 6,824.1             | 4,096.3    | -1,859.9   | 4,480.7               | 0.79                    | 0.31                   | -0.73                 |  |
| 11,136.0                                  | 90.00           | 358.30      | 6,824.1             | 4,191.3    | -1,862.5   | 4,571.2               | 0.32                    | 0.00                   | -0.32                 |  |
| 11,231.0                                  | 90.20           | 357.90      | 6,824.0             | 4,286.2    | -1,865.6   | 4,661.8               | 0.47                    | 0.21                   | -0.42                 |  |
| 11,326.0                                  | 89.30           | 359.50      | 6,824.4             | 4,381.2    | -1,867.8   | 4,752.2               | 1.93                    | -0.95                  | 1.68                  |  |
| 11,422.0                                  | 89.40           | 359.10      | 6,825.5             | 4,477.2    | -1,869.0   | 4,843.2               | 0.43                    | 0.10                   | -0.42                 |  |
| 11,517.0                                  | 89.70           | 358.30      | 6,826.2             | 4,572.2    | -1,871.1   | 4,933.5               | 0.90                    | 0.32                   | -0.84                 |  |
| 11,613.0                                  | 89.30           | 357.40      | 6,827.0             | 4,668.1    | -1,874.7   | 5,025.3               | 1.03                    | -0.42                  | -0.94                 |  |
| 11,709.0                                  | 89.10           | 359.10      | 6,828.4             | 4,764.0    | -1,877.6   | 5,116.8               | 1.78                    | -0.21                  | 1.77                  |  |
| 11,804.0                                  | 88.80           | 359.00      | 6,830.1             | 4,859.0    | -1,879.2   | 5,207.0               | 0.33                    | -0.32                  | -0.11                 |  |
| 11,900.0                                  | 88.10           | 358.80      | 6,832.7             | 4,954.9    | -1,881.1   | 5,298.1               | 0.76                    | -0.73                  | -0.21                 |  |
| 11,995.0                                  | 90.10           | 0.00        | 6,834.2             | 5,049.9    | -1,882.1   | 5,388.1               | 2.46                    | 2.11                   | 1.26                  |  |
| 12,090.0                                  | 89.90           | 359.70      | 6,834.2             | 5,144.9    | -1,882.3   | 5,477.9               | 0.38                    | -0.21                  | -0.32                 |  |
| 12,186.0                                  | 91.60           | 358.80      | 6,833.0             | 5,240.9    | -1,883.6   | 5,568.9               | 2.00                    | 1.77                   | -0.94                 |  |
| 12,266.0                                  | 91.60           | 358.40      | 6,830.7             | 5,320.8    | -1,885.5   | 5,645.0               | 0.50                    | 0.00                   | -0.50                 |  |
| 12,321.9                                  | 91.60           | 358.40      | 6,829.2             | 5,376.7    | -1,887.1   | 5,698.2               | 0.00                    | 0.00                   | 0.00                  |  |
| <b>BHL 500'FNL &amp; 1300'FWL, Sec.11</b> |                 |             |                     |            |            |                       |                         |                        |                       |  |
| 12,322.0                                  | 91.60           | 358.40      | 6,829.2             | 5,376.8    | -1,887.1   | 5,698.3               | 0.00                    | 0.00                   | 0.00                  |  |

|                  |  |                                     |                                      |
|------------------|--|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | PDC Energy Inc. DJ Basin               | <b>Local Co-ordinate Reference:</b> | Well J Clark 5N (Nio C)              |
| <b>Project:</b>  | SEC.14-T5N-R65W                        | <b>TVD Reference:</b>               | WELL @ 4638.0ft (Original Well Elev) |
| <b>Site:</b>     | Clark 5N65W14 1-21 Pad Sec.14-T5N-R65W | <b>MD Reference:</b>                | WELL @ 4638.0ft (Original Well Elev) |
| <b>Well:</b>     | J Clark 5N (Nio C)                     | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | J Clark 5N (Nio C) Wellbore #1         | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | J Clark 5N (Nio C) Wellbore #1         | <b>Database:</b>                    | US_EDM                               |

| Design Targets  |                  |                 |             |               |               |                    |                   |           |             |
|---|------------------|-----------------|-------------|---------------|---------------|--------------------|-------------------|-----------|-------------|
| Target Name<br>- hit/miss target<br>- Shape   | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Northing<br>(usft) | Easting<br>(usft) | Latitude  | Longitude   |
| SHL 550'FNL & 2114'FE<br>- survey hits target center<br>- Point   | 0.00             | 0.00            | 1.0         | 0.0           | 0.0           | 1,391,636.26       | 3,242,650.93      | 40.405171 | -104.628674 |
| BHL 500'FNL & 1300'FM<br>- survey misses target center by 11.3ft at 12321.9ft MD (6829.2 TVD, 5376.7 N, -1887.1 E)<br>- Point | 0.00             | 0.00            | 6,820.0     | 5,376.6       | -1,880.5      | 1,396,993.87       | 3,240,717.77      | 40.419929 | -104.635428 |

| Survey Annotations        |                           |                   |          |  |
|---------------------------|---------------------------|-------------------|----------|--|
| Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates |          | Comment  |
| +N/-S<br>(ft)             | +E/-W<br>(ft)             |                   |          |  |
| 7,252.1                   | 6,797.9                   | 324.8             | -1,803.6 | TPZ - 60° Incl. in curve - 214'FNL, 1341'FWL, SEC.11 |
| 7,601.0                   | 6,873.0                   | 657.6             | -1,828.0 | Deepest TVD Drilled - 6872.96' TVD                   |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|