

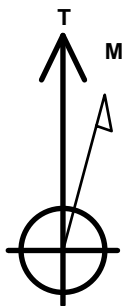
# PDC Energy Inc. DJ Basin

Well Name: **Daisy 31G-312**

Surface Location: Daisy 5N64W31F Pad Sec.31-T5N-R64W  
 North American Datum 1983 , US State Plane 1983 Colorado Northern Zone  
 Ground Elevation: 4775.0  
 +N/-S +E/-W Northing Easting Latitude Longitude Slot  
 0.0 13704986.86 250680.29 40.359250 -104.600450  
 Original Well Elev WELL @ 4798.0ft (Original Well Elev)

## DESIGN TARGET DETAILS

| Name                           | TVD    | +N/-S  | +E/-W  | Shape |
|--------------------------------|--------|--------|--------|-------|
| SHL 1311'FNL, 445'FWL, SEC.31  | 1.0    | 0.0    | 0.0    | Point |
| BHL 2240'FNL, 2550'FWL, SEC.32 | 6877.0 | -891.5 | 7380.0 | Point |
| LPL 2240'FNL, 736'FWL, SEC.31  | 6937.0 | -929.0 | 292.0  | Point |



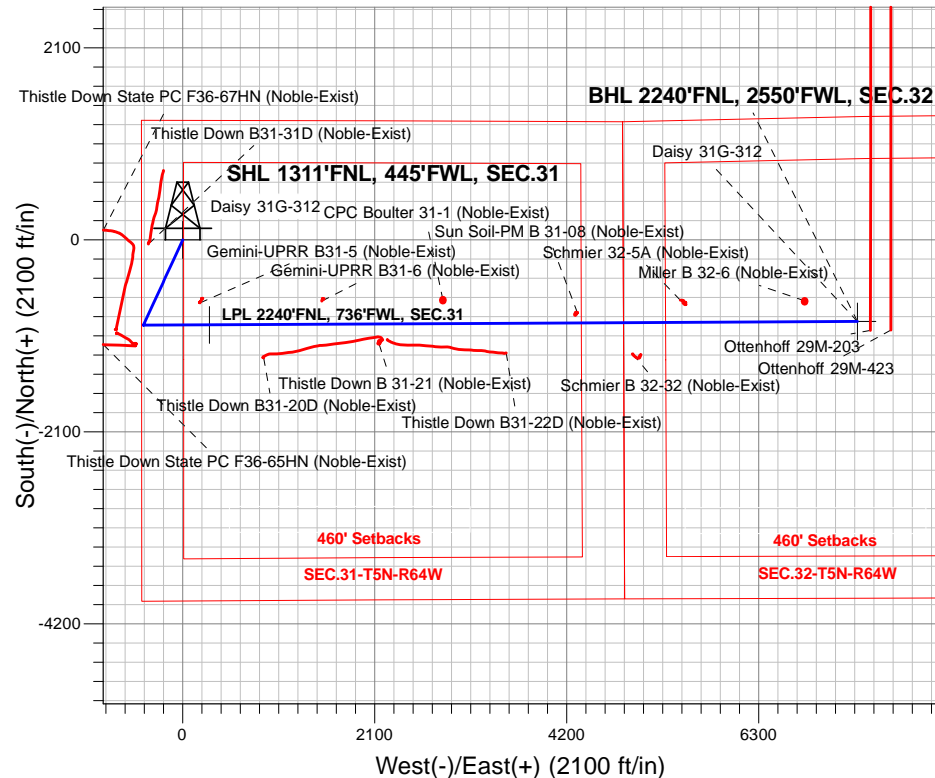
Azimuths to True North  
 Magnetic North: 8.00°

Magnetic Field  
 Strength: 52524.3snT  
 Dip Angle: 66.84°  
 Date: 3/6/2017  
 Model: IGRF2010

Daisy 5N64W31F Pad Sec.31-T5N-R64W  
 Daisy 31G-312  
 Plan #1 (2-28-17)  
 11:16, March 06 2017

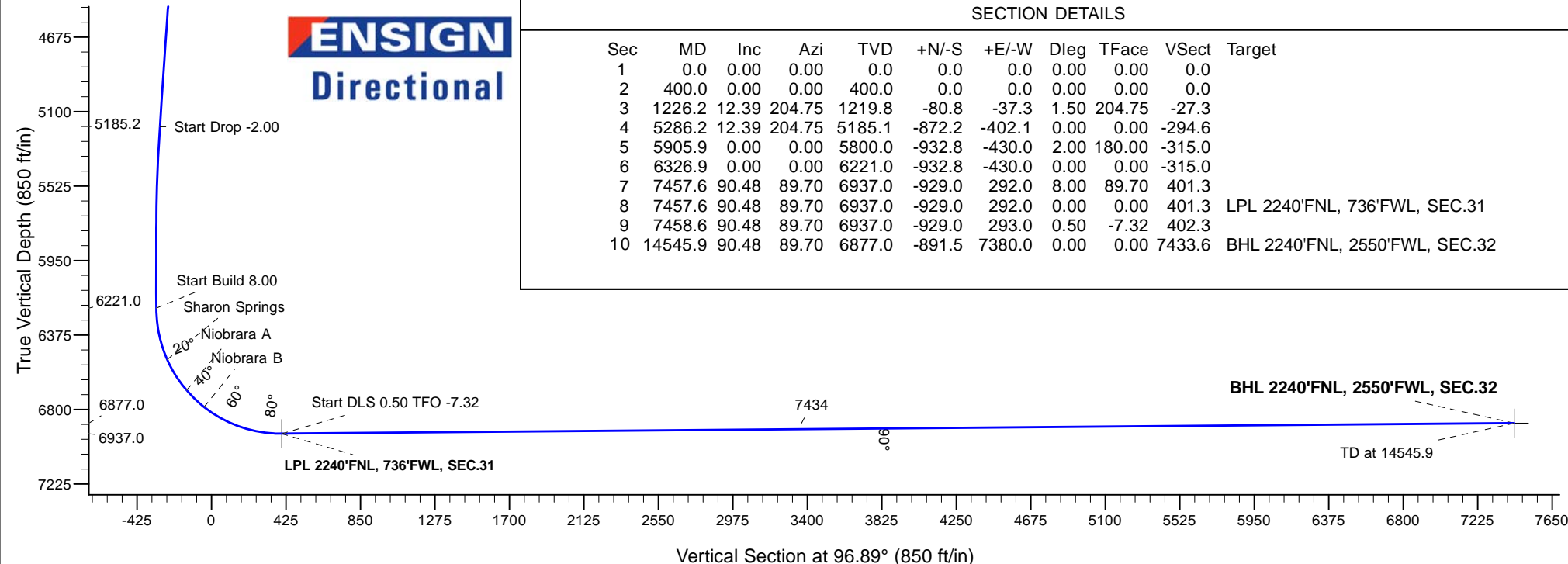
## ANNOTATIONS

| TVD    | MD      | Annotation                     |
|--------|---------|--------------------------------|
| 400.0  | 400.0   | KOP - Start Build 1.50         |
| 5185.1 | 5286.2  | Start Drop -2.00               |
| 6221.0 | 6326.9  | Start Build 8.00               |
| 6937.0 | 7457.6  | Start DLS 0.50 TFO -7.32       |
| 6937.0 | 7458.6  | Start 7087.3 hold at 7458.6 MD |
| 6877.0 | 14545.9 | TD at 14545.9                  |



## SECTION DETAILS

| Sec | MD      | Inc   | Azi    | TVD    | +N/-S  | +E/-W  | Dleg | TFace  | Vsect  | Target                         |
|-----|---------|-------|--------|--------|--------|--------|------|--------|--------|--------------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0    | 0.0    | 0.0    | 0.00 | 0.00   | 0.0    |                                |
| 2   | 400.0   | 0.00  | 0.00   | 400.0  | 0.0    | 0.0    | 0.00 | 0.00   | 0.0    |                                |
| 3   | 1226.2  | 12.39 | 204.75 | 1219.8 | -80.8  | -37.3  | 1.50 | 204.75 | -27.3  |                                |
| 4   | 5286.2  | 12.39 | 204.75 | 5185.1 | -872.2 | -402.1 | 0.00 | 0.00   | -294.6 |                                |
| 5   | 5905.9  | 0.00  | 0.00   | 5800.0 | -932.8 | -430.0 | 2.00 | 180.00 | -315.0 |                                |
| 6   | 6326.9  | 0.00  | 0.00   | 6221.0 | -932.8 | -430.0 | 0.00 | 0.00   | -315.0 |                                |
| 7   | 7457.6  | 90.48 | 89.70  | 6937.0 | -929.0 | 292.0  | 8.00 | 89.70  | 401.3  |                                |
| 8   | 7457.6  | 90.48 | 89.70  | 6937.0 | -929.0 | 292.0  | 0.00 | 0.00   | 401.3  | LPL 2240'FNL, 736'FWL, SEC.31  |
| 9   | 7458.6  | 90.48 | 89.70  | 6937.0 | -929.0 | 293.0  | 0.50 | -7.32  | 402.3  |                                |
| 10  | 14545.9 | 90.48 | 89.70  | 6877.0 | -891.5 | 7380.0 | 0.00 | 0.00   | 7433.6 | BHL 2240'FNL, 2550'FWL, SEC.32 |





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

**SEC.31-T5N-R64W**

**Daisy 5N64W31F Pad Sec.31-T5N-R64W**

**Daisy 31G-312**

**Wellbore #1**

**Plan #1 (2-28-17)**

## **Anticollision Report**

**06 March, 2017**



|                           |                                    |                                     |                                      |
|---------------------------|------------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | PDC Energy Inc. DJ Basin           | <b>Local Co-ordinate Reference:</b> | Well Daisy 31G-312                   |
| <b>Project:</b>           | SEC.31-T5N-R64W                    | <b>TVD Reference:</b>               | WELL @ 4798.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | Daisy 5N64W31F Pad Sec.31-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4798.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 ft                             | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Daisy 31G-312                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0 ft                             | <b>Output errors are at</b>         | 2.45 sigma                           |
| <b>Reference Wellbore</b> | Wellbore #1                        | <b>Database:</b>                    | US_EDM                               |
| <b>Reference Design:</b>  | Plan #1 (2-28-17)                  | <b>Offset TVD Reference:</b>        | Offset Datum                         |

|                                     |   |                       |                     |
|-------------------------------------|---|-----------------------|---------------------|
| <b>Reference</b>                    | Plan #1 (2-28-17)   |                       |                     |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                       |                     |
| <b>Interpolation Method:</b>        | Stations  | <b>Error Model:</b>   | ISCWSA              |
| <b>Depth Range:</b>                 | Unlimited   | <b>Scan Method:</b>   | Closest Approach 3D |
| <b>Results Limited by:</b>          | Maximum center-center distance of 800.0 ft                          | <b>Error Surface:</b> | Elliptical Conic    |
| <b>Warning Levels Evaluated at:</b> | 2.45 Sigma  | <b>Casing Method:</b> | Not applied         |

|                            |                |                                 |                  |                    |
|----------------------------|----------------|---------------------------------|------------------|--------------------|
| <b>Survey Tool Program</b> | <b>Date</b>    | 3/6/2017                        |                  |                    |
| <b>From (ft)</b>           | <b>To (ft)</b> | <b>Survey (Wellbore)</b>        | <b>Tool Name</b> | <b>Description</b> |
| 0.0                        | 14,545.9       | Plan #1 (2-28-17) (Wellbore #1) | MWD              | MWD - Standard     |

| Summary  |                               |                            |                               |                                |                   |                     |
|--|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------------------|
| Site Name  | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning             |
| Offset Well - Wellbore - Design                          |                               |                            |                               |                                |                   |                     |
| Daisy 5N64W31F Pad Sec.31-T5N-R64W                       |                               |                            |                               |                                |                   |                     |
| Daisy 31E-232 - Wellbore #1 - Plan #1 (2-28-17)          | 400.0                         | 399.0                      | 105.6                         | 103.7                          | 54.894            | CC, ES              |
| Daisy 31E-232 - Wellbore #1 - Plan #1 (2-28-17)          | 800.0                         | 786.0                      | 142.8                         | 138.7                          | 35.191            | SF                  |
| Daisy 31E-302 - Wellbore #1 - Plan #1 (2-28-17)          | 200.0                         | 198.0                      | 120.2                         | 119.4                          | 146.522           | CC, ES              |
| Daisy 31E-302 - Wellbore #1 - Plan #1 (2-28-17)          | 900.0                         | 865.9                      | 206.9                         | 202.2                          | 44.272            | SF                  |
| Daisy 31E-332 - Wellbore #1 - Plan #1 (2-28-17)          | 400.0                         | 399.0                      | 91.1                          | 89.2                           | 47.322            | CC, ES              |
| Daisy 31E-332 - Wellbore #1 - Plan #1 (2-28-17)          | 800.0                         | 793.7                      | 114.4                         | 110.4                          | 28.329            | SF                  |
| Daisy 31F-202 - Wellbore #1 - Plan #1 (2-28-17)          | 400.0                         | 400.0                      | 47.4                          | 45.4                           | 24.572            | CC, ES              |
| Daisy 31F-202 - Wellbore #1 - Plan #1 (2-28-17)          | 800.0                         | 799.3                      | 66.9                          | 62.9                           | 16.550            | SF                  |
| Daisy 31F-212 - Wellbore #1 - Plan #1 (2-28-17)          | 400.0                         | 399.0                      | 76.5                          | 74.6                           | 39.749            | CC, ES              |
| Daisy 31F-212 - Wellbore #1 - Plan #1 (2-28-17)          | 900.0                         | 896.1                      | 107.7                         | 103.1                          | 23.478            | SF                  |
| Daisy 31F-232 - Wellbore #1 - Plan #1 (2-28-17)          | 400.0                         | 400.0                      | 14.6                          | 12.6                           | 7.561             | CC                  |
| Daisy 31F-232 - Wellbore #1 - Plan #1 (2-28-17)          | 14,545.9                      | 14,413.4                   | 331.7                         | -179.1                         | 0.649             | Level 1, ES, SF     |
| Daisy 31F-302 - Wellbore #1 - Plan #1 (2-28-17)          | 400.0                         | 399.0                      | 61.9                          | 60.0                           | 32.179            | CC, ES              |
| Daisy 31F-302 - Wellbore #1 - Plan #1 (2-28-17)          | 800.0                         | 798.3                      | 81.4                          | 77.4                           | 20.139            | SF                  |
| Daisy 31F-332 - Wellbore #1 - Plan #1 (2-28-17)          | 400.0                         | 400.0                      | 32.8                          | 30.9                           | 17.012            | CC, ES              |
| Daisy 31F-332 - Wellbore #1 - Plan #1 (2-28-17)          | 14,545.9                      | 14,473.4                   | 594.2                         | 71.9                           | 1.138             | Level 2, SF         |
| Daisy 31G-202 - Wellbore #1 - Plan #1 (2-28-17)          | 200.0                         | 200.0                      | 14.6                          | 13.7                           | 17.642            | CC                  |
| Daisy 31G-202 - Wellbore #1 - Plan #1 (2-28-17)          | 12,800.0                      | 12,762.2                   | 278.4                         | -111.8                         | 0.713             | Level 1, ES, SF     |
| Existing Wells Sec.31-T5N-R64W (GRID)                    |                               |                            |                               |                                |                   |                     |
| CPC Boulter 31-1 (Noble-Exist) - Wellbore #1 - Wellbore  | 10,012.6                      | 6,889.4                    | 263.5                         | -11.7                          | 0.957             | Level 1, CC, ES, SF |
| Gemini-UPRR B31-5 (Noble-Exist) - Wellbore #1 - Wellb    | 7,352.8                       | 6,920.0                    | 243.4                         | 201.7                          | 5.830             | CC, ES              |
| Gemini-UPRR B31-5 (Noble-Exist) - Wellbore #1 - Wellb    | 7,400.0                       | 6,925.2                    | 247.9                         | 205.2                          | 5.805             | SF                  |
| Gemini-UPRR B31-6 (Noble-Exist) - Wellbore #1 - Wellb    | 8,688.5                       | 6,911.3                    | 254.7                         | 176.7                          | 3.265             | CC                  |
| Gemini-UPRR B31-6 (Noble-Exist) - Wellbore #1 - Wellb    | 8,700.0                       | 6,911.2                    | 254.9                         | 176.6                          | 3.253             | ES, SF              |
| Sun Soil-PM B 31-08 (Noble-Exist) - Wellbore #1 - Wellb  | 11,483.0                      | 6,885.5                    | 112.1                         | -60.1                          | 0.651             | Level 1, CC, ES, SF |
| Thistle Down B 31-21 (Noble-Exist) - Wellbore #1 - Wellb | 9,309.4                       | 6,911.9                    | 221.2                         | 123.6                          | 2.266             | CC, ES, SF          |
| Existing Wells Sec.32-T5N-R64W                           |                               |                            |                               |                                |                   |                     |
| Miller B 32-6 (Noble-Exist) - Wellbore #1 - Wellbore #1  | 13,970.1                      | 6,828.9                    | 228.8                         | -180.0                         | 0.560             | Level 1, CC, ES, SF |
| Existing Wells Sec.32-T5N-R64W (GRID)                    |                               |                            |                               |                                |                   |                     |
| Schmier 32-5A (Noble-Exist) - Wellbore #1 - Wellbore #1  | 12,624.8                      | 6,850.7                    | 242.0                         | 31.1                           | 1.148             | Level 2, CC, ES, SF |
| Schmier B 32-32 (Noble-Exist) - Wellbore #1 - Wellbore # | 12,084.9                      | 6,871.4                    | 342.9                         | 149.0                          | 1.768             | CC                  |
| Schmier B 32-32 (Noble-Exist) - Wellbore #1 - Wellbore # | 12,100.0                      | 6,871.5                    | 343.3                         | 148.8                          | 1.765             | ES, SF              |

|                           |                                    |                                     |                                      |
|---------------------------|------------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | PDC Energy Inc. DJ Basin           | <b>Local Co-ordinate Reference:</b> | Well Daisy 31G-312                   |
| <b>Project:</b>           | SEC.31-T5N-R64W                    | <b>TVD Reference:</b>               | WELL @ 4798.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | Daisy 5N64W31F Pad Sec.31-T5N-R64W | <b>MD Reference:</b>                | WELL @ 4798.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 ft                             | <b>North Reference:</b>             | True                                 |
| <b>Reference Well:</b>    | Daisy 31G-312                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0 ft                             | <b>Output errors are at</b>         | 2.45 sigma                           |
| <b>Reference Wellbore</b> | Wellbore #1                        | <b>Database:</b>                    | US_EDM                               |
| <b>Reference Design:</b>  | Plan #1 (2-28-17)                  | <b>Offset TVD Reference:</b>        | Offset Datum                         |

| Summary   |                               |                            |                               |                                |                   |                     |
|---|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------------------|
| Site Name   | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning             |
| <b>Offset Well - Wellbore - Design</b>                  |                               |                            |                               |                                |                   |                     |
| Ottenhoff 5N64W29CR Pad Sec.29-T5N-R64W                 |                               |                            |                               |                                |                   |                     |
| Ottenhoff 29M-203 - Wellbore #1 - Plan #2 (1-25-17)     | 14,545.9                      | 14,104.7                   | 167.6                         | 26.7                           | 1.189             | Level 2, CC, ES, SF |
| Ottenhoff 29M-423 - Wellbore #1 - Plan #2 (1-25-17)     | 14,545.9                      | 14,199.9                   | 379.5                         | 239.6                          | 2.712             | CC, ES, SF          |
| Thistle Down B31-22D Pad Sec.31-T5N-R64W                |                               |                            |                               |                                |                   |                     |
| Thistle Down B31-20D (Noble-Exist) - Wellbore #1 - Well | 8,046.3                       | 7,115.3                    | 365.0                         | 288.4                          | 4.763             | CC, ES              |
| Thistle Down B31-20D (Noble-Exist) - Wellbore #1 - Well | 8,100.0                       | 7,115.4                    | 368.9                         | 290.7                          | 4.716             | SF                  |
| Thistle Down B31-22D (Noble-Exist) - Wellbore #1 - Well | 10,700.4                      | 7,098.6                    | 325.5                         | 161.4                          | 1.983             | CC, ES, SF          |
| Thistle Down PC F36-63HN Pad Sec.36-T5N-R65W            |                               |                            |                               |                                |                   |                     |
| Thistle Down State PC F36-65HN (Noble-Exist) - Wellbo   | 5,902.7                       | 5,802.7                    | 240.2                         | 207.5                          | 7.357             | CC                  |
| Thistle Down State PC F36-65HN (Noble-Exist) - Wellbo   | 6,000.0                       | 5,899.2                    | 240.3                         | 197.4                          | 5.597             | ES                  |
| Thistle Down State PC F36-65HN (Noble-Exist) - Wellbo   | 6,300.0                       | 6,195.0                    | 243.3                         | 199.3                          | 5.525             | SF                  |
| Thistle Down State PC F36-67HN (Noble-Exist) - Wellbo   | 4,298.4                       | 4,253.5                    | 346.0                         | 311.6                          | 10.066            | CC                  |
| Thistle Down State PC F36-67HN (Noble-Exist) - Wellbo   | 4,300.0                       | 4,255.0                    | 346.0                         | 311.6                          | 10.060            | ES                  |
| Thistle Down State PC F36-67HN (Noble-Exist) - Wellbo   | 4,400.0                       | 4,343.7                    | 349.2                         | 313.8                          | 9.852             | SF                  |
| Thistle Down Wells (Noble) Sec.31-T5N-R64W              |                               |                            |                               |                                |                   |                     |
| Thistle Down B 31-32D (Noble-Exist) - Thistle Down B 31 | 6,326.9                       | 6,293.7                    | 513.3                         | 467.5                          | 11.199            | SF                  |
| Thistle Down B 31-32D (Noble-Exist) - Thistle Down B 31 | 6,749.7                       | 6,691.7                    | 499.3                         | 459.1                          | 12.422            | CC, ES              |
| Thistle Down B31-31D (Noble-Exist) - Wellbore #1 - Well | 4,233.2                       | 4,362.0                    | 705.1                         | 677.4                          | 25.467            | CC, ES              |
| Thistle Down B31-31D (Noble-Exist) - Wellbore #1 - Well | 4,600.0                       | 4,649.4                    | 725.1                         | 695.4                          | 24.440            | SF                  |

| Offset Design   |                |                |                |                 |        |                   |                        |            |                 |                  |                    |                   | Daisy 5N64W31F Pad Sec.31-T5N-R64W - Daisy 31E-232 - Wellbore #1 - Plan #1 (2-28-17) |  | Offset Site Error: |  | 0.0 ft |
|-----------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--|--|--------------------|--|--------|
| Survey Program: |                |                |                | 0-MWD           |        |                   |                        |            |                 |                  |                    |                   | Offset Well Error:   |  | 0.0 ft             |  |        |
| Reference       |                | Offset         |                | Semi Major Axis |        |                   | Distance               |            |                 |                  |                    |                   |  |  |                    |  |        |
| Measured Depth  | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning  |  |                    |  |        |
| Depth (ft)      | Depth (ft)     | Depth (ft)     | Depth (ft)     | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | (ft)               |                   |  |  |                    |  |        |
| 0.0             | 0.0            | 0.0            | 0.0            | 0.0             | 0.0    | 0.01              | 105.6                  | 0.0        | 105.7           |                  |                    |                   |  |  |                    |  |        |
| 100.0           | 100.0          | 99.0           | 99.0           | 0.1             | 0.1    | 0.01              | 105.6                  | 0.0        | 105.6           | 105.4            | 0.27               | 385.634           |  |  |                    |  |        |
| 200.0           | 200.0          | 199.0          | 199.0          | 0.4             | 0.4    | 0.01              | 105.6                  | 0.0        | 105.6           | 104.8            | 0.82               | 128.331           |  |  |                    |  |        |
| 300.0           | 300.0          | 299.0          | 299.0          | 0.7             | 0.7    | 0.01              | 105.6                  | 0.0        | 105.6           | 104.3            | 1.37               | 76.896            |  |  |                    |  |        |
| 400.0           | 400.0          | 399.0          | 399.0          | 1.0             | 1.0    | 0.01              | 105.6                  | 0.0        | 105.6           | 103.7            | 1.92               | 54.894            | CC, ES   |  |                    |  |        |
| 500.0           | 500.0          | 496.5          | 496.5          | 1.2             | 1.2    | 155.24            | 106.7                  | -0.5       | 108.0           | 105.5            | 2.44               | 44.178            |  |  |                    |  |        |
| 600.0           | 599.9          | 593.7          | 593.7          | 1.4             | 1.5    | 155.19            | 110.1                  | -2.1       | 114.9           | 112.0            | 2.96               | 38.815            |  |  |                    |  |        |
| 700.0           | 699.7          | 690.3          | 690.0          | 1.7             | 1.8    | 155.10            | 115.6                  | -4.8       | 126.6           | 123.1            | 3.50               | 36.150            |  |  |                    |  |        |
| 800.0           | 799.3          | 786.0          | 785.3          | 2.0             | 2.1    | 155.00            | 123.2                  | -8.5       | 142.8           | 138.7            | 4.06               | 35.191            | SF   |  |                    |  |        |
| 900.0           | 898.6          | 880.4          | 879.1          | 2.3             | 2.4    | 154.88            | 132.8                  | -13.2      | 163.5           | 158.9            | 4.63               | 35.336            |  |  |                    |  |        |
| 1,000.0         | 997.5          | 973.3          | 971.2          | 2.7             | 2.7    | 154.74            | 144.3                  | -18.8      | 188.7           | 183.5            | 5.21               | 36.210            |  |  |                    |  |        |
| 1,100.0         | 1,096.1        | 1,064.5        | 1,061.1        | 3.1             | 3.1    | 154.59            | 157.5                  | -25.2      | 218.3           | 212.4            | 5.81               | 37.569            |  |  |                    |  |        |
| 1,200.0         | 1,194.2        | 1,153.8        | 1,148.9        | 3.6             | 3.4    | 154.43            | 172.3                  | -32.4      | 252.1           | 245.6            | 6.43               | 39.229            |  |  |                    |  |        |
| 1,226.2         | 1,219.8        | 1,178.3        | 1,172.9        | 3.7             | 3.6    | 154.40            | 176.6                  | -34.5      | 261.5           | 255.0            | 6.59               | 39.685            |  |  |                    |  |        |
| 1,300.0         | 1,291.9        | 1,247.0        | 1,240.3        | 4.1             | 3.9    | 154.50            | 188.7                  | -40.3      | 288.4           | 281.4            | 7.05               | 40.900            |  |  |                    |  |        |
| 1,400.0         | 1,389.5        | 1,340.1        | 1,331.6        | 4.6             | 4.3    | 154.61            | 205.1                  | -48.3      | 324.8           | 317.1            | 7.68               | 42.279            |  |  |                    |  |        |
| 1,500.0         | 1,487.2        | 1,433.2        | 1,423.0        | 5.1             | 4.8    | 154.70            | 221.4                  | -56.2      | 361.2           | 352.9            | 8.34               | 43.326            |  |  |                    |  |        |
| 1,600.0         | 1,584.9        | 1,526.4        | 1,514.3        | 5.7             | 5.2    | 154.77            | 237.8                  | -64.2      | 397.7           | 388.7            | 8.99               | 44.216            |  |  |                    |  |        |
| 1,700.0         | 1,682.5        | 1,619.5        | 1,605.6        | 6.2             | 5.7    | 154.83            | 254.2                  | -72.1      | 434.1           | 424.4            | 9.66               | 44.943            |  |  |                    |  |        |
| 1,800.0         | 1,780.2        | 1,712.6        | 1,697.0        | 6.8             | 6.2    | 154.88            | 270.5                  | -80.1      | 470.5           | 460.2            | 10.33              | 45.547            |  |  |                    |  |        |
| 1,900.0         | 1,877.9        | 1,805.8        | 1,788.3        | 7.4             | 6.6    | 154.93            | 286.9                  | -88.0      | 506.9           | 495.9            | 11.01              | 46.056            |  |  |                    |  |        |
| 2,000.0         | 1,975.5        | 1,898.9        | 1,879.7        | 7.9             | 7.1    | 154.97            | 303.2                  | -96.0      | 543.3           | 531.7            | 11.69              | 46.490            |  |  |                    |  |        |
| 2,100.0         | 2,073.2        | 1,992.0        | 1,971.0        | 8.5             | 7.6    | 155.00            | 319.6                  | -103.9     | 579.8           | 567.4            | 12.37              | 46.862            |  |  |                    |  |        |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation