

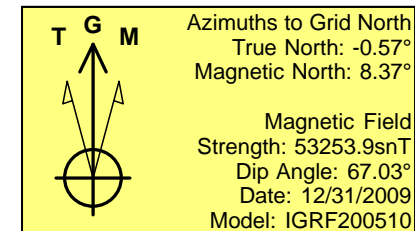
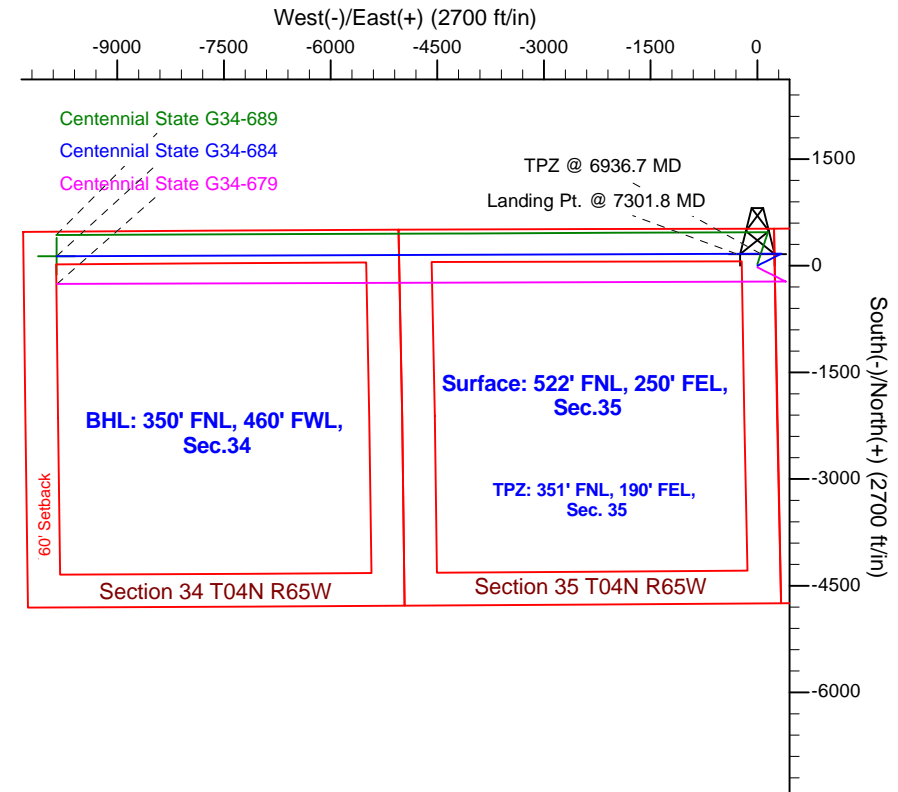
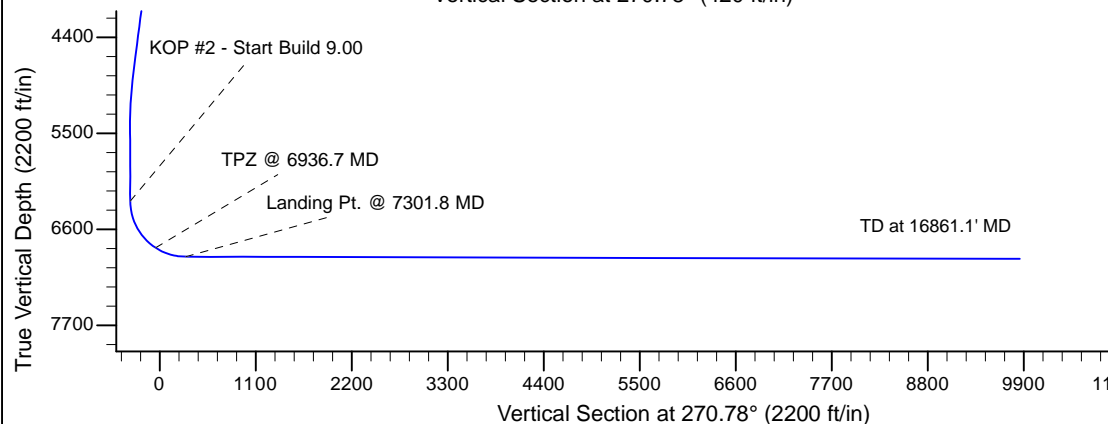
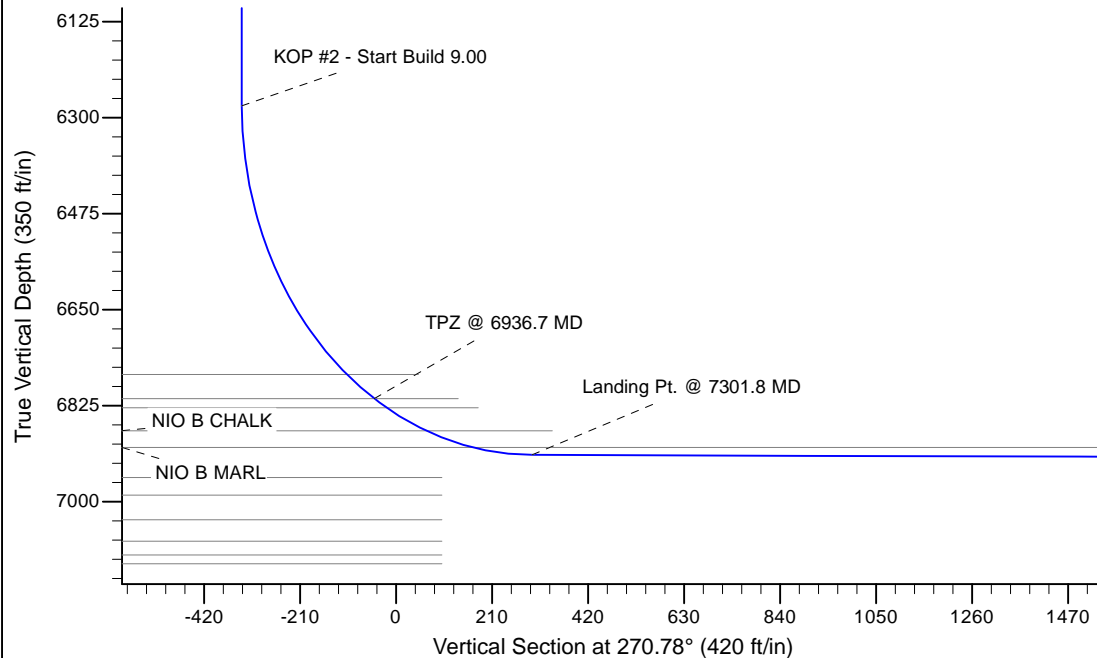
Project: Bronco  
 Site: G Section 35-T4N-R65W Weld County, CO  
 Well: Centennial State G34-684  
 Wellbore: Original Drilling  
 Design: APD - Rev 2

# Northern Region - DJ Basin

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Northern Zone  
 System Datum: Mean Sea Level

## 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   | 2200.0  | 0.00  | 0.00   | 2200.0 | 0.0   | 0.0     | 0.00 | 0.00   | 0.0    |   |
| 3   | 2600.9  | 8.02  | 63.43  | 2599.6 | 12.5  | 25.1    | 2.00 | 63.43  | -24.9  |   |
| 4   | 4924.4  | 8.02  | 63.43  | 4900.4 | 157.5 | 314.9   | 0.00 | 0.00   | -312.8 |   |
| 5   | 5325.3  | 0.00  | 0.00   | 5300.0 | 170.0 | 340.0   | 2.00 | 180.00 | -337.7 |   |
| 6   | 6303.5  | 0.00  | 0.00   | 6278.2 | 170.0 | 340.0   | 0.00 | 0.00   | -337.7 |   |
| 7   | 7301.8  | 89.85 | 269.80 | 6914.8 | 167.8 | -294.9  | 9.00 | 269.80 | 297.2  |   |
| 8   | 16861.1 | 89.85 | 269.80 | 6939.8 | 133.9 | -9854.1 | 0.00 | 0.00   | 9855.0 | Centennial State G34-684 BHL 350'FNL, 460'FWL |



| WELL DETAILS: Centennial State G34-684                         |     |                        |                               |                        |                           |
|--|-----|------------------------|-------------------------------|------------------------|---------------------------|
| Ground Level: 4771.0   |     |                        |                               |                        |                           |
| 0.0  | 0.0 | Northing<br>1344069.16 | Easting<br>3244986.20         | Latitude<br>40.2745399 | Longitude<br>-104.6219800 |
| Plan: APD - Rev 2 (Centennial State G34-684/Original Drilling) |     |                        |                               |                        |                           |
| Created By: Shailey Jewell                                     |     |                        | Date: 15:20, February 27 2017 |                        |                           |
| OK to submit with 2A as per Noble Drilling<br>2/27/2014 7 3:25 |     |                        |                               |                        |                           |

# **Northern Region - DJ Basin**

**Bronco**

**G Section 35**

**Centennial State G34-684**

**Original Drilling**

**APD - Rev 2**

## **Anticollision Summary Report**

**27 February, 2017**

# Anticollision Summary Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | Northern Region - DJ Basin | <b>Local Co-ordinate Reference:</b> | Well Centennial State G34-684        |
| <b>Project:</b>           | Bronco                     | <b>TVD Reference:</b>               | WELL @ 4801.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | G Section 35               | <b>MD Reference:</b>                | WELL @ 4801.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 ft                     | <b>North Reference:</b>             | Grid                                 |
| <b>Reference Well:</b>    | Centennial State G34-684   | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0 ft                     | <b>Output errors are at</b>         | 2.79 sigma                           |
| <b>Reference Wellbore</b> | Original Drilling          | <b>Database:</b>                    | EDM Production                       |
| <b>Reference Design:</b>  | APD - Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                         |

|                                     |   |                       |                     |
|-------------------------------------|---|-----------------------|---------------------|
| <b>Reference</b>                    | APD - Rev 2   |                       |                     |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                       |                     |
| <b>Interpolation Method:</b>        | MD Interval 100.0ft   | <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 1,880.8 ft                        | <b>Error Surface:</b> | Pedal Curve         |
| <b>Warning Levels Evaluated at:</b> | 2.79 Sigma  | <b>Casing Method:</b> | Not applied         |

|                            |                |                                 |                  |   |
|----------------------------|----------------|---------------------------------|------------------|---|
| <b>Survey Tool Program</b> | <b>Date</b>    | 2/27/2017                       |                  |   |
| <b>From (ft)</b>           | <b>To (ft)</b> | <b>Survey (Wellbore)</b>        | <b>Tool Name</b> | <b>Description</b>                                |
| 0.0                        | 16,860.2       | APD - Rev 2 (Original Drilling) | MWD+IFR1+MS_WY   | Fixed:v2:Rockies, crustal dec + 3-axis correction |

| 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                             |                               |                            |                               |                                |                   |                     |
| G Section 34  |                               |                            |                               |                                |                   |                     |
| Aristocrat Angus Ranches #1 - Wellbore #1 - Wellbore #      |                               |                            |                               |                                |                   | Out of range        |
| Beaman G34-17 - Wellbore #1 - Wellbore #1 - As Drilled      | 13,458.2                      | 6,871.8                    | 1,103.0                       | 959.6                          | 7.692             | CC, ES              |
| Beaman G34-17 - Wellbore #1 - Wellbore #1 - As Drilled      | 13,500.0                      | 6,872.3                    | 1,103.8                       | 959.8                          | 7.663             | SF                  |
| Beaman G34-18 - Wellbore #1 - Wellbore #1 - As Drilled      | 14,533.8                      | 6,875.4                    | 516.1                         | 352.2                          | 3.148             | CC, ES, SF          |
| Beaman G34-99HZ - Original Drilling - Original Drilling - A | 13,052.2                      | 7,436.4                    | 759.1                         | 595.8                          | 4.647             | CC                  |
| Beaman G34-99HZ - Original Drilling - Original Drilling - A | 16,803.7                      | 11,195.0                   | 801.4                         | 392.3                          | 1.959             | ES, SF              |
| Beaman G35-31 - Wellbore #1 - Wellbore #1 - As Drilled      | 12,214.5                      | 6,859.3                    | 871.8                         | 751.5                          | 7.248             | CC, ES              |
| Beaman G35-31 - Wellbore #1 - Wellbore #1 - As Drilled      | 12,300.0                      | 6,859.0                    | 875.9                         | 754.7                          | 7.224             | SF                  |
| Beebe 10-34 - Wellbore #1 - Wellbore #1 - As Drilled        |                               |                            |                               |                                |                   | Out of range        |
| Bochius Pooling Unit 1 - Wellbore #1 - Wellbore #1 - As     | 12,714.0                      | 6,861.7                    | 309.6                         | 179.7                          | 2.384             | CC, ES, SF          |
| Bockius 34-1G - Wellbore #1 - Wellbore #1 - As Drilled      | 12,631.7                      | 6,862.6                    | 170.3                         | 42.3                           | 1.331             | Level 3, CC, ES, SF |
| Bockius 34-2G - Wellbore #1 - Wellbore #1 - As Drilled      | 13,934.6                      | 6,877.1                    | 145.4                         | -6.9                           | 0.955             | Level 1, CC, ES, SF |
| Bockius 34-8G - Wellbore #1 - Wellbore #1 - As Drilled      | 12,638.7                      | 6,868.8                    | 1,454.0                       | 1,325.9                        | 11.351            | CC, ES              |
| Bockius 34-8G - Wellbore #1 - Wellbore #1 - As Drilled      | 12,800.0                      | 6,872.0                    | 1,462.9                       | 1,332.6                        | 11.226            | SF                  |
| Bockius 37-07G - Wellbore #1 - Wellbore #1 - As Drilled     | 14,298.0                      | 6,866.7                    | 1,439.9                       | 1,280.9                        | 9.056             | CC                  |
| Bockius 37-07G - Wellbore #1 - Wellbore #1 - As Drilled     | 14,300.0                      | 6,866.7                    | 1,439.9                       | 1,280.8                        | 9.054             | ES                  |
| Bockius 37-07G - Wellbore #1 - Wellbore #1 - As Drilled     | 14,400.0                      | 6,866.7                    | 1,443.5                       | 1,283.0                        | 8.995             | SF                  |
| Champ G34-06X - Wellbore #1 - Wellbore #1 - As Drilled      | 15,299.3                      | 6,875.1                    | 1,747.3                       | 1,569.2                        | 9.814             | CC                  |
| Champ G34-06X - Wellbore #1 - Wellbore #1 - As Drilled      | 15,300.0                      | 6,875.1                    | 1,747.3                       | 1,569.2                        | 9.814             | ES                  |
| Champ G34-06X - Wellbore #1 - Wellbore #1 - As Drilled      | 15,500.0                      | 6,876.2                    | 1,758.7                       | 1,578.2                        | 9.739             | SF                  |
| Cornelius 23-34 - Wellbore #1 - Wellbore #1 - As Drilled    |                               |                            |                               |                                |                   | Out of range        |
| HSR - Aristocrat 12-34A - Wellbore #1 - Wellbore #1 - As    |                               |                            |                               |                                |                   | Out of range        |
| HSR - Carney 15-34 - Wellbore #1 - Wellbore #1 - As Dri     |                               |                            |                               |                                |                   | Out of range        |
| HSR - Gun Club 09-34 - Wellbore #1 - Wellbore #1 - As D     |                               |                            |                               |                                |                   | Out of range        |
| HSR - Gun Club 16-34 - Wellbore #1 - Wellbore #1 - As D     |                               |                            |                               |                                |                   | Out of range        |
| HSR - Houston 13-34A - Wellbore #1 - Wellbore #1 - As       |                               |                            |                               |                                |                   | Out of range        |
| HSR - Kemper 10-34 - Wellbore #1 - Wellbore #1 - As Dr      |                               |                            |                               |                                |                   | Out of range        |
| HSR - Merritt 11-34A - Wellbore #1 - Wellbore #1 - As Dr    |                               |                            |                               |                                |                   | Out of range        |
| HSR - Owens 14-34 - Wellbore #1 - Wellbore #1 - As Dri      |                               |                            |                               |                                |                   | Out of range        |
| Moser 34-3G - Wellbore #1 - Wellbore #1 - As Drilled        | 15,367.3                      | 6,882.4                    | 303.3                         | 124.1                          | 1.693             | CC, ES, SF          |
| Moser 34-4G - Wellbore #1 - Wellbore #1 - As Drilled        | 16,475.5                      | 6,902.6                    | 108.8                         | -91.4                          | 0.544             | Level 1, CC, ES, SF |
| Moser 34-5G - Wellbore #1 - Wellbore #1 - As Drilled        | 16,613.1                      | 6,836.3                    | 1,857.8                       | 1,655.4                        | 9.181             | CC, ES              |
| Moser 34-5G - Wellbore #1 - Wellbore #1 - As Drilled        | 16,800.0                      | 6,833.9                    | 1,867.1                       | 1,662.3                        | 9.117             | SF                  |
| Moser 34-6G - Wellbore #1 - Wellbore #1 - As Drilled        | 15,810.5                      | 6,850.5                    | 1,182.9                       | 995.6                          | 6.316             | CC, ES              |
| Moser 34-6G - Wellbore #1 - Wellbore #1 - As Drilled        | 15,900.0                      | 6,849.2                    | 1,186.2                       | 997.9                          | 6.297             | SF                  |
| Moser G34-30 - Wellbore #1 - Wellbore #1 - As Drilled       | 16,861.1                      | 6,912.7                    | 342.3                         | 218.3                          | 2.761             | CC, ES, SF          |
| Moser PC G34-65HN - Original Drilling - As Drilled          |                               |                            |                               |                                |                   | Out of range        |

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

# Anticollision Summary Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | Northern Region - DJ Basin | <b>Local Co-ordinate Reference:</b> | Well Centennial State G34-684        |
| <b>Project:</b>           | Bronco                     | <b>TVD Reference:</b>               | WELL @ 4801.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | G Section 35               | <b>MD Reference:</b>                | WELL @ 4801.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 ft                     | <b>North Reference:</b>             | Grid                                 |
| <b>Reference Well:</b>    | Centennial State G34-684   | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0 ft                     | <b>Output errors are at</b>         | 2.79 sigma                           |
| <b>Reference Wellbore</b> | Original Drilling          | <b>Database:</b>                    | EDM Production                       |
| <b>Reference Design:</b>  | APD - Rev 2                | <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>                          |                               |                            |                               |                                |                   |                 |
| G Section 35  |                               |                            |                               |                                |                   |                 |
| Centennial State G34-612 - Original Drilling - APD - Rev        |                               |                            |                               |                                |                   | Out of range    |
| Centennial State G34-618 - Original Drilling - APD - Rev        |                               |                            |                               |                                |                   | Out of range    |
| Centennial State G34-626 - Original Drilling - APD - Rev        |                               |                            |                               |                                |                   | Out of range    |
| Centennial State G34-635 - Original Drilling - APD - Rev        |                               |                            |                               |                                |                   | Out of range    |
| Centennial State G34-645 - Original Drilling - APD - Rev        |                               |                            |                               |                                |                   | Out of range    |
| Centennial State G34-660 - Original Drilling - APD - Rev        | 1,812.1                       | 1,824.1                    | 1,071.4                       | 1,060.4                        | 97.451            | CC              |
| Centennial State G34-660 - Original Drilling - APD - Rev        | 1,900.0                       | 1,910.1                    | 1,071.4                       | 1,059.8                        | 92.873            | ES              |
| Centennial State G34-660 - Original Drilling - APD - Rev        | 16,861.1                      | 17,252.8                   | 1,643.9                       | 1,268.3                        | 4.377             | SF              |
| Centennial State G34-666 - Original Drilling - APD - Rev        | 2,275.7                       | 2,301.5                    | 1,048.8                       | 1,034.9                        | 75.491            | CC              |
| Centennial State G34-666 - Original Drilling - APD - Rev        | 16,861.1                      | 17,016.5                   | 1,153.9                       | 772.8                          | 3.028             | ES, SF          |
| Centennial State G34-675 - Original Drilling - APD - Rev        | 12,143.7                      | 12,305.6                   | 798.4                         | 592.0                          | 3.869             | CC, ES, SF      |
| Centennial State G34-679 - Original Drilling - APD - Rev        | 2,000.0                       | 2,000.0                    | 21.9                          | 9.7                            | 1.802             | CC, ES          |
| Centennial State G34-679 - Original Drilling - APD - Rev        | 16,858.2                      | 17,024.2                   | 402.9                         | 29.4                           | 1.079             | Level 2, SF     |
| Centennial State G34-689 - Original Drilling - APD - Rev        | 2,000.0                       | 2,001.0                    | 21.9                          | 9.7                            | 1.801             | CC              |
| Centennial State G34-689 - Original Drilling - APD - Rev        | 16,861.1                      | 16,777.7                   | 322.6                         | -34.0                          | 0.905             | Level 1, ES, SF |
| CPC Mark 35-01 - Wellbore #1 - Wellbore #1 - As Drilled         | 8,602.0                       | 6,871.6                    | 456.6                         | 400.7                          | 8.159             | CC, ES, SF      |
| CPC Mark 35-02 - Wellbore #1 - Wellbore #1 - As Drilled         | 0.0                           | 0.0                        | 1,512.3                       |                                |                   |                 |
| CPC Mark 35-02 - Wellbore #1 - Wellbore #1 - As Drilled         | 1,100.0                       | 1,082.1                    | 1,517.1                       | 1,511.2                        | 259.141           | ES              |
| CPC Mark 35-02 - Wellbore #1 - Wellbore #1 - As Drilled         | 8,000.0                       | 6,935.8                    | 1,762.0                       | 1,716.0                        | 38.252            | SF              |
| Mark 11-35 - Wellbore #1 - 150' Drift                           |                               |                            |                               |                                |                   | Out of range    |
| Mark 11-35 - Wellbore #1 - Wellbore #1 - As Drilled             |                               |                            |                               |                                |                   | Out of range    |
| Mark 12-35 - Wellbore #1 - Wellbore #1 - As Drilled             |                               |                            |                               |                                |                   | Out of range    |
| Mark 14-35 - Wellbore #1 - Wellbore #1 - As Drilled             |                               |                            |                               |                                |                   | Out of range    |
| Mark 35-11 - Original Drilling - Original Drilling - As Drilled | 7,316.3                       | 6,875.4                    | 185.6                         | 145.9                          | 4.672             | CC, ES, SF      |
| Mark 35-13 - Wellbore #1 - Wellbore #1 - As Drilled             | 8,660.5                       | 6,884.1                    | 1,503.7                       | 1,446.4                        | 26.225            | CC              |
| Mark 35-13 - Wellbore #1 - Wellbore #1 - As Drilled             | 8,700.0                       | 6,883.4                    | 1,504.2                       | 1,446.3                        | 25.971            | ES              |
| Mark 35-13 - Wellbore #1 - Wellbore #1 - As Drilled             | 9,000.0                       | 6,878.5                    | 1,541.5                       | 1,479.9                        | 25.003            | SF              |
| Mark 35-15 - Wellbore #1 - Wellbore #1 - As Drilled             | 8,082.4                       | 6,880.1                    | 690.7                         | 642.5                          | 14.335            | CC, ES          |
| Mark 35-15 - Wellbore #1 - Wellbore #1 - As Drilled             | 8,200.0                       | 6,880.6                    | 700.6                         | 651.2                          | 14.180            | SF              |
| Mark E Unit 1 - Wellbore #1 - Wellbore #1 - As Drilled          |                               |                            |                               |                                |                   | Out of range    |
| Ocoma G35-03 - Wellbore #1 - Wellbore #1 - As Drilled           | 10,184.7                      | 6,856.5                    | 197.0                         | 114.0                          | 2.372             | CC, ES, SF      |
| Ocoma G35-04 - Wellbore #1 - Wellbore #1 - As Drilled           | 11,418.2                      | 6,857.0                    | 531.2                         | 425.7                          | 5.035             | CC, ES, SF      |
| Ocoma G35-05 - Wellbore #1 - Wellbore #1 - As Drilled           | 11,436.2                      | 6,881.5                    | 1,544.7                       | 1,438.8                        | 14.582            | CC, ES          |
| Ocoma G35-05 - Wellbore #1 - Wellbore #1 - As Drilled           | 11,700.0                      | 6,877.5                    | 1,567.1                       | 1,457.8                        | 14.336            | SF              |
| Ocoma G35-06 - Wellbore #1 - Wellbore #1 - As Drilled           | 10,155.0                      | 6,856.9                    | 1,614.1                       | 1,531.6                        | 19.558            | CC              |
| Ocoma G35-06 - Wellbore #1 - Wellbore #1 - As Drilled           | 10,200.0                      | 6,857.1                    | 1,614.7                       | 1,531.4                        | 19.389            | ES              |
| Ocoma G35-06 - Wellbore #1 - Wellbore #1 - As Drilled           | 10,500.0                      | 6,857.9                    | 1,650.5                       | 1,563.4                        | 18.948            | SF              |
| Ocoma G35-09 - Wellbore #1 - 150' Drift                         |                               |                            |                               |                                |                   | Out of range    |
| Ocoma G35-09 - Wellbore #1 - Wellbore #1 - As Drilled           |                               |                            |                               |                                |                   | Out of range    |
| Ocoma G35-10 - Wellbore #1 - Wellbore #1 - As Drilled           |                               |                            |                               |                                |                   | Out of range    |
| Ocoma G35-15 - Wellbore #1 - Wellbore #1 - As Drilled           |                               |                            |                               |                                |                   | Out of range    |
| Ocoma G35-16 - Wellbore #1 - Wellbore #1 - As Drilled           |                               |                            |                               |                                |                   | Out of range    |
| Ocoma G35-23 - Wellbore #1 - Wellbore #1 - As Drilled           |                               |                            |                               |                                |                   | Out of range    |
| Staind G35-19 - Wellbore #1 - Wellbore #1 - As Drilled          | 10,717.0                      | 6,968.7                    | 976.0                         | 881.8                          | 10.355            | CC, ES          |
| Staind G35-19 - Wellbore #1 - Wellbore #1 - As Drilled          | 10,800.0                      | 6,968.8                    | 979.5                         | 884.2                          | 10.273            | SF              |

## Anticollision Summary Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | Northern Region - DJ Basin | <b>Local Co-ordinate Reference:</b> | Well Centennial State G34-684        |
| <b>Project:</b>           | Bronco                     | <b>TVD Reference:</b>               | WELL @ 4801.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | G Section 35               | <b>MD Reference:</b>                | WELL @ 4801.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 ft                     | <b>North Reference:</b>             | Grid                                 |
| <b>Reference Well:</b>    | Centennial State G34-684   | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0 ft                     | <b>Output errors are at</b>         | 2.79 sigma                           |
| <b>Reference Wellbore</b> | Original Drilling          | <b>Database:</b>                    | EDM Producction                      |
| <b>Reference Design:</b>  | APD - Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                         |

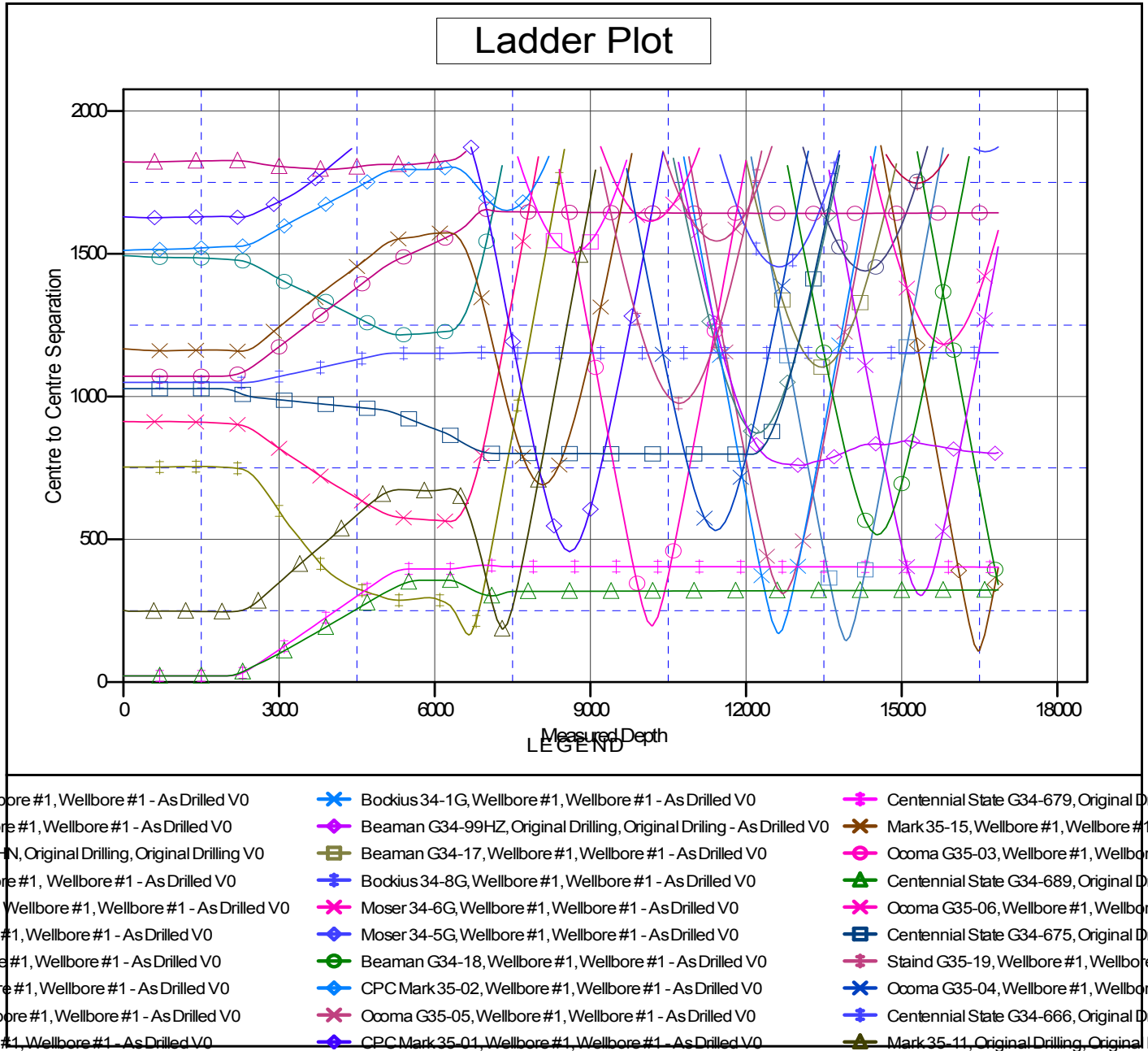
| Summary   |  |                                     |  |   |                      |              |
|---|--|-------------------------------------|--|---|----------------------|--------------|
| Site Name   | Reference<br>Measured<br>Depth<br>(ft) | Offset<br>Measured<br>Depth<br>(ft) | Distance<br>Between<br>Centres<br>(ft) | Distance<br>Between<br>Ellipses<br>(ft) | Separation<br>Factor | Warning      |
| Offset Well - Wellbore - Design                           |  |                                     |  |   |                      |              |
| G Section 36  |  |                                     |  |   |                      |              |
| Gerrity State G36-01 - Wellbore #1 - Wellbore #1 - As Dr  |  |                                     |  |   |                      | Out of range |
| Gerrity State G36-02 - Wellbore #1 - Wellbore #1 - As Dr  |  |                                     |  |   |                      | Out of range |
| Gerrity State G36-07 - Wellbore #1 - Wellbore #1 - As Dr  |  |                                     |  |   |                      | Out of range |
| Gerrity State G36-08 - Wellbore #1 - Wellbore #1 - As Dr  |  |                                     |  |   |                      | Out of range |
| Gerrity State G36-09 - Wellbore #1 - Wellbore #1 - As Dr  |  |                                     |  |   |                      | Out of range |
| Gerrity State G36-10 - Wellbore #1 - Wellbore #1 - As Dr  |  |                                     |  |   |                      | Out of range |
| Gerrity State G36-15 - Wellbore #1 - Wellbore #1 - As Dr  |  |                                     |  |   |                      | Out of range |
| Gerrity State G36-16 - Wellbore #1 - Wellbore #1 - As Dr  |  |                                     |  |   |                      | Out of range |
| Gerrity State G36-17 - Wellbore #1 - Wellbore #1 - As Dr  |  |                                     |  |   |                      | Out of range |
| Gerrity State G36-23 - Wellbore #1 - Wellbore #1 - As Dr  |  |                                     |  |   |                      | Out of range |
| Mark State PC G36-79HN - Original Drilling - Original Dri | 6,657.6                                | 6,768.5                             | 165.3                                  | 146.6                                   | 8.845                | CC, ES       |
| Mark State PC G36-79HN - Original Drilling - Original Dri | 6,700.0                                | 6,794.7                             | 169.9                                  | 150.7                                   | 8.833                | SF           |
| Otis State G36-19 - Wellbore #1 - Wellbore #1 - As Drille | 5,329.3                                | 5,294.5                             | 1,216.0                                | 1,186.6                                 | 41.407               | CC, ES       |
| Otis State G36-19 - Wellbore #1 - Wellbore #1 - As Drille | 6,400.0                                | 6,336.7                             | 1,238.0                                | 1,203.0                                 | 35.410               | SF           |
| Pedro State C31-79HN - Wellbore #1 - Original Drilling    |  |                                     |  |   |                      | Out of range |
| Pedro State G36-18 - Wellbore #1 - Wellbore #1 - As Dri   |  |                                     |  |   |                      | Out of range |
| Pedro State G36-20 - Wellbore #1 - Wellbore #1 - As Dri   |  |                                     |  |   |                      | Out of range |
| Pedro State G36-21 - Wellbore #1 - Wellbore #1 - As Dri   |  |                                     |  |   |                      | Out of range |
| Pedro State G36-22 - Wellbore #1 - Wellbore #1 - As Dri   |  |                                     |  |   |                      | Out of range |
| Pedro State G36-24 - Wellbore #1 - Wellbore #1 - As Dri   |  |                                     |  |   |                      | Out of range |
| Pedro State H01-30D - Wellbore #1 - Wellbore #1 - As D    |  |                                     |  |   |                      | Out of range |
| Shelton G36-27 - Wellbore #1 - Wellbore #1 - As Drilled   |  |                                     |  |   |                      | Out of range |
| State 04 - Wellbore #1 - Wellbore #1 - As Drilled         |  |                                     |  |   |                      | Out of range |
| State R G36-03 - Wellbore #1 - Wellbore #1 - As Drilled   |  |                                     |  |   |                      | Out of range |
| State R G36-04 - Wellbore #1 - Wellbore #1 - As Drilled   | 6,314.6                                | 6,283.6                             | 562.6                                  | 527.6                                   | 16.082               | CC, ES       |
| State R G36-04 - Wellbore #1 - Wellbore #1 - As Drilled   | 6,400.0                                | 6,366.3                             | 567.3                                  | 531.9                                   | 16.017               | SF           |
| State R G36-05 - Wellbore #1 - Wellbore #1 - As Drilled   | 3,949.2                                | 3,935.0                             | 1,795.9                                | 1,774.1                                 | 82.523               | CC           |
| State R G36-05 - Wellbore #1 - Wellbore #1 - As Drilled   | 4,000.0                                | 3,975.5                             | 1,796.1                                | 1,774.0                                 | 81.517               | ES           |
| State R G36-05 - Wellbore #1 - Wellbore #1 - As Drilled   | 6,600.0                                | 6,502.7                             | 1,858.5                                | 1,822.5                                 | 51.655               | SF           |
| State R G36-06 - Wellbore #1 - Wellbore #1 - As Drilled   |  |                                     |  |   |                      | Out of range |
| State R G36-11 - Wellbore #1 - Wellbore #1 - As Drilled   |  |                                     |  |   |                      | Out of range |
| State R G36-12 - Wellbore #1 - Wellbore #1 - As Drilled   |  |                                     |  |   |                      | Out of range |
| State R G36-13 - Wellbore #1 - Wellbore #1 - As Drilled   |  |                                     |  |   |                      | Out of range |
| State R G36-14 - Wellbore #1 - Wellbore #1 - As Drilled   |  |                                     |  |   |                      | Out of range |

## Anticollision Summary Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | Northern Region - DJ Basin | <b>Local Co-ordinate Reference:</b> | Well Centennial State G34-684        |
| <b>Project:</b>           | Bronco                     | <b>TVD Reference:</b>               | WELL @ 4801.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | G Section 35               | <b>MD Reference:</b>                | WELL @ 4801.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 ft                     | <b>North Reference:</b>             | Grid                                 |
| <b>Reference Well:</b>    | Centennial State G34-684   | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0 ft                     | <b>Output errors are at</b>         | 2.79 sigma                           |
| <b>Reference Wellbore</b> | Original Drilling          | <b>Database:</b>                    | EDM Production                       |
| <b>Reference Design:</b>  | APD - Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                         |

Reference Depths are relative to WELL @ 4801.0ft (Original Well Elev)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.5000000

Coordinates are relative to: Centennial State G34-684  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.57°



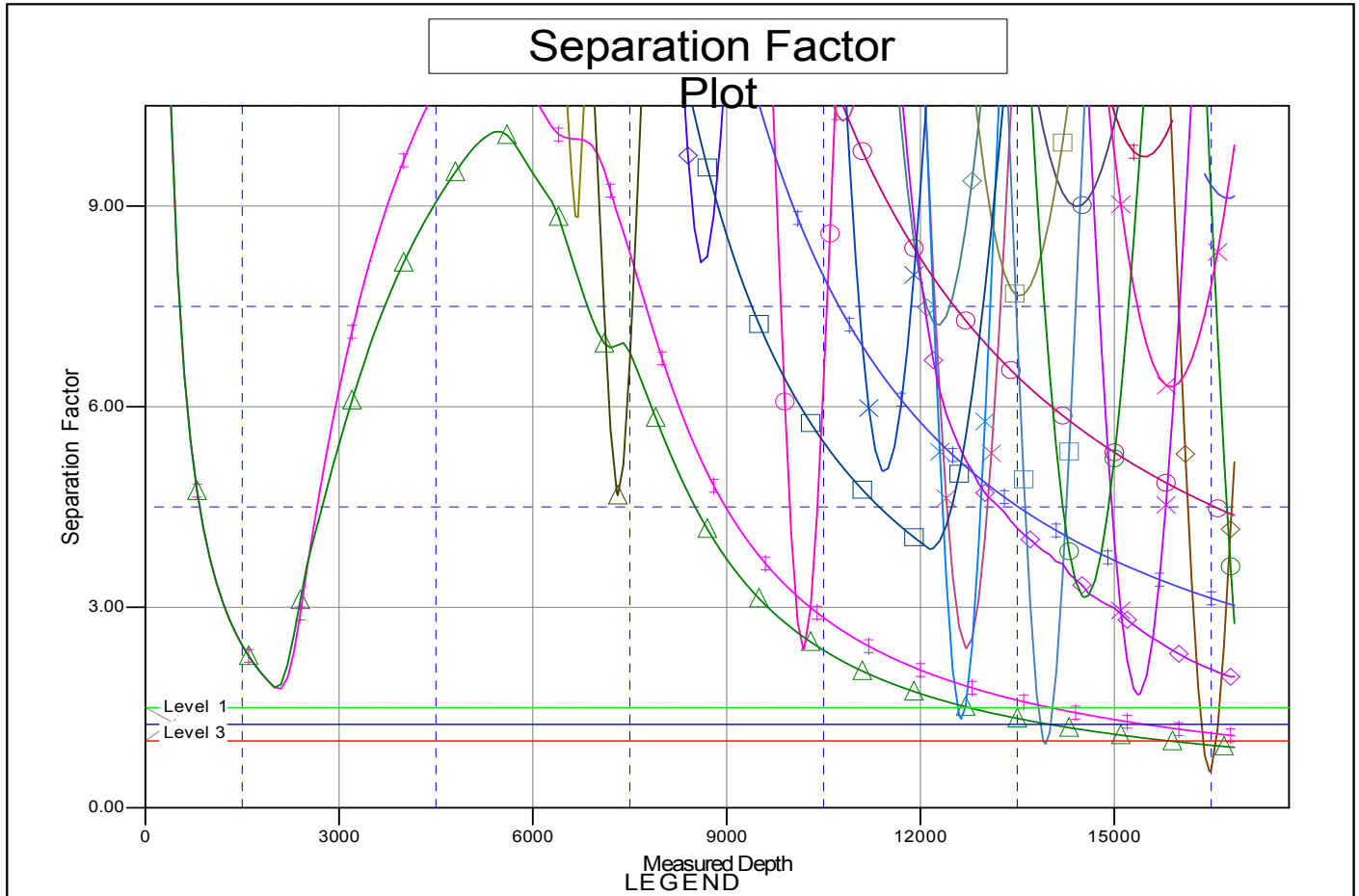
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Summary Report

|                           |                            |                                     |                                      |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>           | Northern Region - DJ Basin | <b>Local Co-ordinate Reference:</b> | Well Centennial State G34-684        |
| <b>Project:</b>           | Bronco                     | <b>TVD Reference:</b>               | WELL @ 4801.0ft (Original Well Elev) |
| <b>Reference Site:</b>    | G Section 35               | <b>MD Reference:</b>                | WELL @ 4801.0ft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 ft                     | <b>North Reference:</b>             | Grid                                 |
| <b>Reference Well:</b>    | Centennial State G34-684   | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Well Error:</b>        | 0.0 ft                     | <b>Output errors are at</b>         | 2.79 sigma                           |
| <b>Reference Wellbore</b> | Original Drilling          | <b>Database:</b>                    | EDM Production                       |
| <b>Reference Design:</b>  | APD - Rev 2                | <b>Offset TVD Reference:</b>        | Offset Datum                         |

Reference Depths are relative to WELL @ 4801.0ft (Original Well Elev)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.5000000

Coordinates are relative to: Centennial State G34-684  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.57°



|  |   |   |
|--|---|---|
| Wellbore #1, Wellbore #1 - As Drilled V0             | ✕ Bockius 34-1G, Wellbore #1, Wellbore #1 - As Drilled V0               | ✕ Centennial State G34-679, Original Drill  |
| Wellbore #1, Wellbore #1 - As Drilled V0             | ✕ Beaman G34-99HZ, Original Drilling, Original Drilling - As Drilled V0 | ✕ Mark 35-15, Wellbore #1, Wellbore #1 -    |
| Wellbore #1, Original Drilling, Original Drilling V0 | ✕ Beaman G34-17, Wellbore #1, Wellbore #1 - As Drilled V0               | ✕ Ocoma G35-03, Wellbore #1, Wellbore       |
| Wellbore #1, Wellbore #1 - As Drilled V0             | ✕ Bockius 34-8G, Wellbore #1, Wellbore #1 - As Drilled V0               | ✕ Centennial State G34-689, Original Drill  |
| Wellbore #1, Wellbore #1 - As Drilled V0             | ✕ Moser 34-6G, Wellbore #1, Wellbore #1 - As Drilled V0                 | ✕ Ocoma G35-06, Wellbore #1, Wellbore       |
| Wellbore #1, Wellbore #1 - As Drilled V0             | ✕ Moser 34-5G, Wellbore #1, Wellbore #1 - As Drilled V0                 | ✕ Centennial State G34-675, Original Drill  |
| Wellbore #1, Wellbore #1 - As Drilled V0             | ✕ Beaman G34-18, Wellbore #1, Wellbore #1 - As Drilled V0               | ✕ Staind G35-19, Wellbore #1, Wellbore      |
| Wellbore #1, Wellbore #1 - As Drilled V0             | ✕ CPCMark 35-02, Wellbore #1, Wellbore #1 - As Drilled V0               | ✕ Ocoma G35-04, Wellbore #1, Wellbore       |
| Wellbore #1, Wellbore #1 - As Drilled V0             | ✕ Ocoma G35-05, Wellbore #1, Wellbore #1 - As Drilled V0                | ✕ Centennial State G34-666, Original Drill  |
| Wellbore #1, Wellbore #1 - As Drilled V0             | ✕ CPCMark 35-01, Wellbore #1, Wellbore #1 - As Drilled V0               | ✕ Mark 35-11, Original Drilling, Original D |