

Northern Region - DJ Basin

Mustang

D Section 19

Independence D18-732

Independence D18-732

Plan #2

Anticollision Summary Report

12 February, 2020

Noble Energy, Inc.
Anticollision Summary Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------|
| Company: | Northern Region - DJ Basin | Local Co-ordinate Reference: | Well Independence D18-732 |
| Project: | Mustang | TVD Reference: | Well @ 4800.00ft |
| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
| Site Error: | 0.00 ft | North Reference: | Grid |
| Reference Well: | Independence D18-732 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Independence D18-732 | Database: | EDMP |
| Reference Design: | Plan #2 | Offset TVD Reference: | Reference Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | Plan #2 | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | Stations | Error Model: | ISCWSA |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 200.00 ft | Error Surface: | Pedal Curve |
| Warning Levels Evaluated at: | 2.00 Sigma | Casing Method: | Not applied |

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|----------------------------|----------------|--------------------------------|------------------|--|
| Survey Tool Program | Date | 2/12/2020 | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| 0.00 | 17,428.40 | Plan #2 (Independence D18-732) | 2_MWD+IFR1+MS | A008Mb: IFR dec & multi-station analysis |

| 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 | | | | | | |
| C Section 30 | | | | | | |
| Johnson D06-730 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Johnson D06-734 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Johnson D06-744 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Johnson D06-756 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Johnson D06-761 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Johnson D06-766 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Johnson D06-777 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Johnson D06-785 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| D Section 05 | | | | | | |
| BECKER #12-10I(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| BECKER #15-9I(PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| BECKER #5-12(PA) - Wellbore #1 - Gyro | | | | | | Out of range |
| BECKER #5-13(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| BECKER #5-14(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| BECKER #5-16(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| BECKER #5-2(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| BECKER #5-3(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| BECKER #5-4(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| BECKER #5-5(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| BECKER #5-8(PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| BECKER #6(SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| BECKER #7(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Becker 05-1(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Becker 05-15(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Becker Ranch #5E-323 (PR) - Wellbore #1 - As Drilled | | | | | | Out of range |
| Becker Ranch #5E-403 (PR) - As Drilled - As Drilled | | | | | | Out of range |
| Becker Ranch #5J-103 (PA) - Wellbore #1 - As Drilled | | | | | | Out of range |
| Becker Ranch #5J-203 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5J-303 (PR) - Wellbore #1 - As Drilled | | | | | | Out of range |
| Becker Ranch #5J-323 (PA) - Wellbore #1 - As Drilled | | | | | | Out of range |
| Becker Ranch #5J-323R (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5J-343 (PR) - Wellbore #1 - As Drilled | | | | | | Out of range |
| Becker Ranch #5M-203 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5M-243 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5M-303 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5M-323 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |

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

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| Company: | Northern Region - DJ Basin | Local Co-ordinate Reference: | Well Independence D18-732 |
| Project: | Mustang | TVD Reference: | Well @ 4800.00ft |
| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
| Site Error: | 0.00 ft | North Reference: | Grid |
| Reference Well: | Independence D18-732 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Independence D18-732 | Database: | EDMP |
| Reference Design: | Plan #2 | Offset TVD Reference: | Reference Datum |

| 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 | | | | | | |
| D Section 05 | | | | | | |
| Becker Ranch #5M-423 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5R-203 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5R-243 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5R-303 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5R-323 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5R-443 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5U-243 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5U-303 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker Ranch #5U-443 (PR) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| LDS #D08-18D(SI) - Wellbore #1 - MWD Surveys | | | | | | Out of range |
| LDS #D08-29 (PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| LDS D08-28D (SI) - Wellbore #1 - MWD Surveys | | | | | | Out of range |
| LDS D08-30D (PR) - Wellbore #1 - MWD Surveys | | | | | | Out of range |
| D Section 06 | | | | | | |
| AMEN PC D #06-18D(PR) - Wellbore #1 - MWD Surveys | | | | | | Out of range |
| Amen PC D06-29 - Wellbore #1 - Wellbore #1 - As Drille | | | | | | Out of range |
| FARAMIER FARMS #6-1(PA) - Wellbore #1 - Gyro Surve | | | | | | Out of range |
| FARAMIR FARMS #6-2(PA) - Wellbore #1 - No Surveys | | | | | | Out of range |
| FARAMIR FARMS #6-21(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| FARAMIR FARMS #6-22(PA) - Wellbore #1 - No Surveys | | | | | | Out of range |
| FARAMIR FARMS #6-3(PA) - Wellbore #1 - Gyro Survey | | | | | | Out of range |
| FARAMIR FARMS #6-32(PA) - Wellbore #1 - Gyro Surve | | | | | | Out of range |
| FARAMIR FARMS #6-34(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| FARAMIR FARMS #6-4(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| HILL #6-35(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| HOFF #6-15(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| HOFF PC D #06-21(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Hoff PC D #06-27(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Hoff PC D06-28D - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| HORST #6-25(PA) - Wellbore #1 - No Surveys | | | | | | Out of range |
| MCKENNEY #5(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| MCKENNEY #6-1(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| MCKENNEY #6-12(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| MCKENNEY #6-13(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| MCKENNEY #6-14(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| MCKENNEY #6-2(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| MCKENNEY #6-42(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| MCKENNEY #6-43(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| McKenney 06-01 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| MCKENNEY 6-3(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Shelton PC D06-32D(PR) - Wellbore #1 - MWD Surveys | | | | | | Out of range |
| SMITH PC D #06-20D(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |

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| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
| Site Error: | 0.00 ft | North Reference: | Grid |
| Reference Well: | Independence D18-732 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Independence D18-732 | Database: | EDMP |
| Reference Design: | Plan #2 | Offset TVD Reference: | Reference Datum |

| Summary | | | | | | |
|--|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|-----------------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| D Section 07 | | | | | | |
| Dechant 07-01-17 - Dechant 07-01-17 - Dechant 07-01-1 | | | | | | Out of range |
| Dechant 07-11 - Dechant 07-11 - Dechant 07-11 - As Dril | | | | | | Out of range |
| Dechant 07-13 - Dechant 07-13 - Dechant 07-13 - As Dri | | | | | | Out of range |
| Dechant 07-14 - Dechant 07-14 - Dechant 07-14 - As Dri | | | | | | Out of range |
| Dechant 07-15 - Dechant 07-15 - Dechant 07-15 - As Dri | | | | | | Out of range |
| Dechant 18-07 - Dechant 18-07 - Dechant 18-07 - As Dri | | | | | | Out of range |
| Dechant D07-09 - Dechant D07-09 - Dechant D07-09 - A | | | | | | Out of range |
| Dechant D07-10 - Dechant D07-10 - Dechant D07-10 - A | | | | | | Out of range |
| Dechant D07-11 - Dechant D07-11 - Dechant D07-11 - A | | | | | | Out of range |
| Dechant D07-12 - Dechant D07-12 - Dechant D07-12 - A | | | | | | Out of range |
| Dechant D07-13 - Dechant D07-13 - Dechant D07-13 - A | | | | | | Out of range |
| Dechant D07-14 - Dechant D07-14 - Dechant D07-14 - A | | | | | | Out of range |
| Dechant D07-15 - Dechant D07-15 - Dechant D07-15 - A | | | | | | Out of range |
| Dechant D07-16 - Dechant D07-16 - Dechant D07-16 - A | | | | | | Out of range |
| Dechant D07-20 - Dechant D07-20 - Dechant D07-20 - A | | | | | | Out of range |
| Dechant D07-21 - Dechant D07-21 - Dechant D07-21 - A | | | | | | Out of range |
| Dechant D07-22 - Dechant D07-22 - Dechant D07-22 - A | 14,849.81 | 6,833.40 | 177.95 | 82.56 | 1.865 | CC, ES, SF |
| Dechant D07-23 - Dechant D07-23 - Dechant D07-23 - A | 13,387.84 | 6,832.74 | 29.99 | -53.93 | 0.357 | Level 1, CC |
| Dechant D07-23 - Dechant D07-23 - Dechant D07-23 - A | 13,388.31 | 6,832.75 | 30.00 | -53.99 | 0.357 | Level 1, ES, SF |
| Dechant D07-24 - Dechant D07-24 - Dechant D07-24 - A | | | | | | Out of range |
| Dechant D07-25 - Dechant D07-25 - Dechant D07-25 - A | | | | | | Out of range |
| Dechant D07-32 - Dechant D07-32 - Dechant D07-32 - A | | | | | | Out of range |
| Dechant D07-33 - Dechant D07-33 - Dechant D07-33 - A | | | | | | Out of range |
| Dechant D18-27D - Dechant D18-27D - Dechant D18-27 | 12,254.49 | 7,289.37 | 158.83 | 68.63 | 1.761 | CC |
| Dechant D18-27D - Dechant D18-27D - Dechant D18-27 | 12,300.00 | 7,290.09 | 165.22 | 57.10 | 1.528 | ES |
| Dechant D18-27D - Dechant D18-27D - Dechant D18-27 | 12,312.90 | 7,290.29 | 169.23 | 57.10 | 1.509 | SF |
| Dechant D18-30D - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| HSR Barbour 04-07 - HSR Barbour 04-07 - HSR Barbour | | | | | | Out of range |
| HSR Parkman 06-07 - HSR Parkman 06-07 - HSR Parkm | | | | | | Out of range |
| HSR Petrie 03-07 - HSR Petrie 03-07 - HSR Petrie 03-07 | | | | | | Out of range |
| HSR Safran 05-07 - HSR Safran 05-07 - HSR Safran 05- | | | | | | Out of range |
| Two E Ranch 07-01 - Two E Ranch 07-01 - Two E Ranch | | | | | | Out of range |
| Two E Ranches 1 - Two E Ranches 1 - Two E Ranches 1 | | | | | | Out of range |

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| Project: | Mustang | TVD Reference: | Well @ 4800.00ft |
| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
| Site Error: | 0.00 ft | North Reference: | Grid |
| Reference Well: | Independence D18-732 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Independence D18-732 | Database: | EDMP |
| Reference Design: | Plan #2 | Offset TVD Reference: | Reference Datum |

| Summary | | | | | | |
|---|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|--------------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| D Section 08 | | | | | | |
| Becker D17-730 (KILLED) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker D17-750 (KILLED) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Becker D17-770 (KILLED) - Wellbore #1 - Plan #1 | | | | | | Out of range |
| HSR-ALVIN DECHANT #12-8 (SI) - Wellbore #1 - As-Dri | | | | | | Out of range |
| HSR-ALVIN DECHANT #13-8 (SI) - Wellbore #1 - As-Dri | | | | | | Out of range |
| HSR-LDS #14-8(SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| HSR-LDS #15-8(SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| HSR-LDS #16-8(SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| HSR-LDS #3-8(SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| HSR-LDS #4-8(SI) - Wellbore 1 - As-Drilled | | | | | | Out of range |
| HSR-LDS #5-8(SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| HSR-LDS #6-8(SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| HSR-LDS #9-8(SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| HSR-LDS A #10-8(SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| HSR-LDS A #11-8(SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| LDS #18-8(SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| LDS #20-8(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| LDS D #09-30(SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| LDS D #09-31D(SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| RUBY RED #D #8-1D(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| RUBY RED #D 8-7(PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| RUBY RED #D 8-8(PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| RUBY RED D8-2(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| TWO E RANCHES #1(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |

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| Project: | Mustang | TVD Reference: | Well @ 4800.00ft |
| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
| Site Error: | 0.00 ft | North Reference: | Grid |
| Reference Well: | Independence D18-732 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Independence D18-732 | Database: | EDMP |
| Reference Design: | Plan #2 | Offset TVD Reference: | Reference Datum |

| 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 | | | | | | |
| D Section 17 | | | | | | |
| Butterball D19-27D - Gyros - Gyro Surveys | 7,100.00 | 7,034.06 | 124.01 | 58.20 | 1.884 | SF |
| Butterball D19-27D - Gyros - Gyro Surveys | 7,150.00 | 7,039.45 | 103.35 | 49.96 | 1.936 | ES |
| Butterball D19-27D - Gyros - Gyro Surveys | 7,171.35 | 7,040.57 | 101.07 | 50.73 | 2.008 | CC |
| Guttersen State D16-33 (SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| HSR LDS 6-17 (PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| HSR LDS B5-17 (SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| HSR Mike Guttersen 16-17X (SI) - Wellbore #1 - As-Dri | | | | | | Out of range |
| HSR Mike Guttersen 16-17 (DA) - Wellbore #1 - As-Drille | | | | | | Out of range |
| HSR Weeks 10-17 (TA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| HSR Weeks 15-17 (PA) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| HSR Weeks 9-17 (TA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| HSR-LDS 3-17 (PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| HSR-LDS 4-17 (SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| LDS 18-17 (PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| LDS D17-13 (PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| LDS D17-18 (SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| LDS D17-20 (PA) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| LDS D17-21 (PA) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| LDS D17-22 (TA) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| LDS D17-24D (PA) - LDS D17-24D Gyros - As-Drilled | | | | | | Out of range |
| LDS D17-24D (PA) - LDS D17-24D OH - As-Drilled | | | | | | Out of range |
| LDS D17-25D (PA) - LDS D17-25D Gyros - As-Drilled | | | | | | Out of range |
| LDS D17-25D (PA) - LDS D17-25D OH - LDS D17-25D - | | | | | | Out of range |
| LDS D17-31D (PR) - Gyros - As-Drilled | | | | | | Out of range |
| LDS D17-32D (PA) - Gyros - As-Drilled | | | | | | Out of range |
| LDS D17-33 (PA) - LDS D17-33 - As-Drilled | | | | | | Out of range |
| LDS D17-7 (PA) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| LDS D20-29D (PA) - Gyros - As-Drilled | | | | | | Out of range |
| LDS D20-30D (TA) - Gyros - As-Drilled | | | | | | Out of range |
| LDS RED D17-11 (SI) - Wellbore #1 - As Drilled | | | | | | Out of range |
| LDS Red D17-12 (PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| LDS Red D17-14 (DA) - LDS Red D17-14 - No Surveys | | | | | | Out of range |
| LDS Red D17-14X (PA) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| LDS Red D17-3J (PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| LDS White D17-1 (PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| LDS White D17-2 (SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| LDS White D17-8 (SI) - Wellbore #1 - As-Drilled | | | | | | Out of range |
| Thomson D20-31D (TA) - Gyros - Gyro Surveys | | | | | | Out of range |
| Weeks 20-17 (PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |

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Anticollision Summary Report

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| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
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| Summary | | | | | | |
|--|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------------------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| D Section 18 | | | | | | |
| Horton D18-20D (PR) - Gyros - Gyro Surveys | | | | | | Out of range |
| Horton D18-22D (PR) - Gyros - Gyro Surveys | 9,519.63 | 6,928.83 | 51.34 | -10.69 | 0.828 | Level 1, CC, ES, SF |
| LSWD 1 (IJ) - LSWD 1 - LSWD 1 - As Drilled | | | | | | Out of range |
| Mick D18-03 (PR) - Mick D18-03 - Mick D18-03 - As Drill | | | | | | Out of range |
| Mick D18-04 (SI) - Wellbore #1 - Wellbore #1- As Drilled | | | | | | Out of range |
| Mick D18-05 (SI) - Wellbore #1 - Wellbore #1- As Drilled | | | | | | Out of range |
| Mick D18-06 (PR) - Mick D18-06 - Mick D18-06 - As Drill | | | | | | Out of range |
| Mick D18-11 (PA) - Mick D18-11 - Mick D18-11 - As Drille | | | | | | Out of range |
| Mick D18-12 (PA) - Wellbore #1 - Wellbore #1- As Drilled | | | | | | Out of range |
| Mick D18-13 (PA) - Wellbore #1 - Wellbore #1- As Drilled | | | | | | Out of range |
| Mick D18-14 (PA) - Mick D18-14 - Mick D18-14 - As Drille | | | | | | Out of range |
| Mick D18-19 (PR) - Mick D18-19 - Mick D18-19 - As Drill | | | | | | Out of range |
| Mick D18-25 (SI) - Mick D18-25 - Mick D18-25 - As Drille | | | | | | Out of range |
| Scooter 18-02 (PR) - Scooter 18-02 - Scooter 18-02 - As | | | | | | Out of range |
| Scooter D18-07 (PR) - Scooter D18-07 - Scooter D18-07 | | | | | | Out of range |
| Scooter D18-10 (PA) - Scooter D18-10 - Scooter D18-10 | | | | | | Out of range |
| Scooter D18-15 (PA) - Scooter D18-15 - Scooter D18-15 | | | | | | Out of range |
| Scooter D18-16 (PA) - Scooter D18-16 - Scooter D18-16 | | | | | | Out of range |
| Scooter D18-17 JI (PA) - Gyros - Gyro Surveys | 10,870.09 | 6,884.50 | 47.23 | -19.55 | 0.707 | Level 1, CC, ES, SF |
| Scooter D18-1JI (PR) - Gyros - Gyro Surveys | | | | | | Out of range |
| Scooter D18-4J (PA) - Scooter D18-4J - Scooter D18-4J | | | | | | Out of range |
| Scooter D18-78-1HN - Original Drilling - Original Drilling - | | | | | | Out of range |
| Scooter D18-78-1HN - Original Drilling - ST01 - Original D | | | | | | Out of range |
| Scooter D18-79-1HN - Original Drilling - Original Drilling - | | | | | | Out of range |
| Scooter D18-79HN - Original Drilling - Original Drilling - A | | | | | | Out of range |
| Scooter D18-8JI (PA) - Gyros - Gyro Surveys | | | | | | Out of range |
| Scooter D18-9JI (PA) - Gyros - Gyro Surveys | | | | | | Out of range |
| Shianne D18-29D (SI) - Gyros - Gyro Surveys | | | | | | Out of range |

Noble Energy, Inc.
Anticollision Summary Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------|
| Company: | Northern Region - DJ Basin | Local Co-ordinate Reference: | Well Independence D18-732 |
| Project: | Mustang | TVD Reference: | Well @ 4800.00ft |
| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
| Site Error: | 0.00 ft | North Reference: | Grid |
| Reference Well: | Independence D18-732 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Independence D18-732 | Database: | EDMP |
| Reference Design: | Plan #2 | Offset TVD Reference: | Reference Datum |

Summary

| Site Name Offset Well - Wellbore - Design | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Between Ellipses (ft) | Separation Factor | Warning |
|---|--|-------------------------------------|--|-----------------------------|----------------------|---------------------|
| D Section 19 | | | | | | |
| Butterball 13-19 - Butterball 13-19 - Butterball 13-19 - As | | | | | | Out of range |
| Butterball 14-19 - Butterball 14-19 - Butterball 14-19 - As | | | | | | Out of range |
| Butterball 23-19 - Butterball 23-19 - Butterball 23-19 - As | | | | | | Out of range |
| Butterball B04-19 - Butterball B04-19 - Butterball B04-19 | | | | | | Out of range |
| Butterball D18-75HN - Original Drilling - Original Drilling - | | | | | | Out of range |
| Butterball D19-17D - Butterball D19-17D - Butterball D19 | | | | | | Out of range |
| Butterball D19-18D - Butterball D19-18D - Butterball D19 | | | | | | Out of range |
| Butterball D19-19D - Butterball D19-19D - Butterball D19 | | | | | | Out of range |
| Butterball D19-20D - Butterball D19-20D - Butterball D19 | | | | | | Out of range |
| Butterball D19-22D - Wellbore #1 - Wellbore #1 - As Drill | | | | | | Out of range |
| Butterball D19-75HN - Original Drilling - Original Drilling - | | | | | | Out of range |
| Butterball D24-19 - Butterball D24-19 - Butterball D24-19 | | | | | | Out of range |
| Butterball H24-69HN - Original Drilling - Original Drilling - | | | | | | Out of range |
| Champlin 366 Amoco F 1 - Wellbore #1 - Wellbore #1 - A | | | | | | Out of range |
| Dechant D19-32D - Dechant D19-32D - Dechant D19-32 | | | | | | Out of range |
| Graznak 01-19 - Graznak 01-19 - Graznak 01-19 - As Dr | | | | | | Out of range |
| Higgins D19-720 - Original Drilling - Original Drilling - As | | | | | | Out of range |
| Higgins D19-720 - Sidetrack Curve/Horizontal - ST01 - A | | | | | | Out of range |
| Independence D18-717 - Independence D18-717 - Plan # | 2,200.00 | 2,200.00 | 45.00 | 29.70 | 2.940 | CC, ES |
| Independence D18-717 - Independence D18-717 - Plan # | 2,300.00 | 2,298.42 | 46.72 | 30.72 | 2.920 | SF |
| Independence D18-725 - Independence D18-725 - Plan # | 2,200.00 | 2,200.00 | 23.00 | 7.70 | 1.503 | CC, ES, SF |
| Independence D18-739 - Independence D18-739 - Plan # | 2,200.00 | 2,199.00 | 22.00 | 6.70 | 1.438 | Level 3, CC, ES, SF |
| Independence D18-744 - Independence D18-744 - Plan # | 2,200.00 | 2,198.00 | 44.00 | 28.70 | 2.876 | CC, ES |
| Independence D18-744 - Independence D18-744 - Plan # | 2,300.00 | 2,296.48 | 45.65 | 29.66 | 2.854 | SF |
| Independence D18-759 - Independence D18-759 - Plan # | | | | | | Out of range |
| Independence D18-767 - Independence D18-767 - Plan # | | | | | | Out of range |
| Independence D30-711 - Independence D30-711 OH - As | 0.00 | 0.00 | 165.48 | | | |
| Independence D30-711 - Independence D30-711 OH - As | 2,200.00 | 2,196.90 | 168.43 | 154.07 | 11.725 | ES |
| Independence D30-711 - Independence D30-711 OH - As | 2,300.00 | 2,291.99 | 170.57 | 155.81 | 11.551 | SF |
| Independence D30-718 - Independence D30-718 OH - A | 0.00 | 0.00 | 157.44 | | | |
| Independence D30-718 - Independence D30-718 OH - A | 2,400.00 | 2,395.37 | 167.39 | 151.93 | 10.827 | ES |
| Independence D30-718 - Independence D30-718 OH - A | 2,500.00 | 2,490.37 | 169.81 | 153.93 | 10.696 | SF |
| Independence D30-724 - Independence D30-724 OH - A | 2,187.24 | 2,183.40 | 150.05 | 135.64 | 10.409 | CC, ES |
| Independence D30-724 - Independence D30-724 OH - A | 2,300.00 | 2,290.71 | 152.06 | 137.20 | 10.233 | SF |
| Independence D30-731 - Independence D30-731 OH - A | 7,129.31 | 7,119.82 | 43.40 | 1.46 | 1.035 | Level 2, CC, ES, SF |
| Independence D30-737 - Independence D30-737 OH - A | 2,064.17 | 2,063.19 | 149.36 | 135.37 | 10.675 | CC |
| Independence D30-737 - Independence D30-737 OH - A | 2,200.00 | 2,197.97 | 149.60 | 135.07 | 10.294 | ES |
| Independence D30-737 - Independence D30-737 OH - A | 2,300.00 | 2,293.99 | 151.47 | 136.55 | 10.149 | SF |
| Independence D30-743 - Independence D30-743 OH - A | 0.00 | 1.00 | 156.10 | | | |
| Independence D30-743 - Independence D30-743 OH - A | 2,199.35 | 2,200.40 | 157.37 | 142.70 | 10.726 | ES |
| Independence D30-743 - Independence D30-743 OH - A | 2,300.00 | 2,295.13 | 159.62 | 144.60 | 10.627 | SF |
| Independence D30-758 - Independence D30-758 OH - A | | | | | | Out of range |
| Independence D30-765 - Independence D30-765 OH - A | | | | | | Out of range |
| Independence D30-770 - Independence D30-770 OH - A | | | | | | Out of range |
| Independence D30-777 - Independence D30-777 - As-Dr | | | | | | Out of range |
| Independence State D30-784 - Independence State D30 | | | | | | Out of range |
| LDS White D19-10 - LDS White D19-10 - LDS White D19 | | | | | | Out of range |
| LDS White D19-15 - LDS White D19-15 - LDS White D19 | | | | | | Out of range |
| LDS White D19-16 - Wellbore #1 - Wellbore #1 - As Drill | | | | | | Out of range |
| Mile High 02-19 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Sean D19-09 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Turk Blue D19-02J - Turk Blue D19-02J - Turk Blue D19- | | | | | | Out of range |
| Turk Blue D19-04 - Turk Blue D19-04 - Turk Blue D19-04 | | | | | | Out of range |

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

Noble Energy, Inc.
Anticollision Summary Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------|
| Company: | Northern Region - DJ Basin | Local Co-ordinate Reference: | Well Independence D18-732 |
| Project: | Mustang | TVD Reference: | Well @ 4800.00ft |
| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
| Site Error: | 0.00 ft | North Reference: | Grid |
| Reference Well: | Independence D18-732 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Independence D18-732 | Database: | EDMP |
| Reference Design: | Plan #2 | Offset TVD Reference: | Reference Datum |

| 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 | | | | | | |
| D Section 19 | | | | | | |
| Turk Blue D19-05 - Turk Blue D19-05 - Turk Blue D19-05 | | | | | | Out of range |
| Turk Blue D19-06 - Turk Blue D19-06 - Turk Blue D19-06 | | | | | | Out of range |
| Turk White D19-01 - Wellbore #1 - Wellbore #1 - As Drill | | | | | | Out of range |
| Turk White D19-02 - Wellbore #1 - Wellbore #1 - As Drill | | | | | | Out of range |
| Turk White D19-08 - Wellbore #1 - Wellbore #1 - As Drill | | | | | | Out of range |
| D Section 20 | | | | | | |
| Bohlender D20-2J - Wellbore #1 - No Surveys | | | | | | Out of range |
| Bohlender D20-3 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Bohlender D20-4 (P&A) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Bohlender D20-6 - Wellbore#1 - Gyro Surveys | | | | | | Out of range |
| Butterball D19-27D - Butterball D19-27D - Butterball D19 | 7,100.00 | 7,034.06 | 124.02 | 58.21 | 1.884 | SF |
| Butterball D19-27D - Butterball D19-27D - Butterball D19 | 7,150.00 | 7,039.45 | 103.35 | 49.96 | 1.936 | ES |
| Butterball D19-27D - Butterball D19-27D - Butterball D19 | 7,171.35 | 7,040.57 | 101.07 | 50.73 | 2.008 | CC |
| Duncan D20-1 (P&A) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Duncan D20-10 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Duncan D20-11 (SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Duncan D20-12 (SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Duncan D20-13 (SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Duncan D20-14 (SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Duncan D20-15 (P&A) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Duncan D20-16 (SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Duncan D20-2 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Duncan D20-7 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Duncan D20-8 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Duncan D20-9 (P&A) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| E Ranches (P&A) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Guttersen 10-20 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| LDS D20-30D - LDS D20-30D - LDS D20-30D - As Drille | | | | | | Out of range |

Noble Energy, Inc.
Anticollision Summary Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------|
| Company: | Northern Region - DJ Basin | Local Co-ordinate Reference: | Well Independence D18-732 |
| Project: | Mustang | TVD Reference: | Well @ 4800.00ft |
| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
| Site Error: | 0.00 ft | North Reference: | Grid |
| Reference Well: | Independence D18-732 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Independence D18-732 | Database: | EDMP |
| Reference Design: | Plan #2 | Offset TVD Reference: | Reference Datum |

| Summary | | | | | | |
|---|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|--------------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| D Section 29 | | | | | | |
| Guttersen D29-31D - Wellbore #1 - Guttersen D29-31D | | | | | | Out of range |
| Guttersen D29-33D - Wellbore #1 - Guttersen D29-33D - | | | | | | Out of range |
| Guttersen D29-65HN - Guttersen D29-65HN OH - As-Dri | | | | | | Out of range |
| Guttersen D29-67HN - Original Drilling - Original Drilling | | | | | | Out of range |
| Guttersen D29-69HN - Original Drilling - Original Drilling | | | | | | Out of range |
| Guttersen D29-722 - Guttersen D29-722 OH - As-Drilled | | | | | | Out of range |
| Guttersen D29-730 - Guttersen D29-730 OH - As-Drilled | | | | | | Out of range |
| Guttersen D29-738 - Guttersen D29-738 OH - As-Drilled | | | | | | Out of range |
| Guttersen D29-746 - Guttersen D29-746 OH - As-Drilled | | | | | | Out of range |
| Guttersen D29-754 - Guttersen D29-754 OH - As-Drilled | | | | | | Out of range |
| Guttersen D29-770 - Guttersen D29-770 OH - As-Drilled | | | | | | Out of range |
| Guttersen D29-778 - Guttersen D29-778 OH - As-Drilled | | | | | | Out of range |
| Guttersen D29-786 - Guttersen D29-786 OH - As-Drilled | | | | | | Out of range |
| Guttersen D29-99HZ - Guttersen D29-99HZ OH - As-Dril | | | | | | Out of range |
| Guttersen D30-68-1HN - Original Drilling - Original Drillin | | | | | | Out of range |
| Guttersen D30-69-1HN - Original Drilling - Original Drillin | | | | | | Out of range |
| Guttersen State D29-714 - Guttersen State D29-714 OH | | | | | | Out of range |
| Guttersen State Y05-719 - Guttersen State Y05-719 - Pla | | | | | | Out of range |
| Guttersen Y05-726 - Guttersen Y05-726 - Plan #4 | | | | | | Out of range |
| Guttersen Y05-734 - Guttersen Y05-734 - As-Drilled | | | | | | Out of range |
| Guttersen Y05-749 - Guttersen Y05-749 OH - As-Drilled | | | | | | Out of range |
| Guttersen Y05-756 - Guttersen Y05-756 - As-Drilled | | | | | | Out of range |
| Guttersen Y05-771 - Guttersen Y05-771 - As-Drilled | | | | | | Out of range |
| Guttersen Y05-779 - Guttersen Y05- 779 - As-Drilled | | | | | | Out of range |
| Guttersen Y05-786 - Guttersen Y05-786 - As-Drilled | | | | | | Out of range |
| Jessie D29-1J (PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Jessie D29-4J (PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Kate Red D29-03J - Kate Red D29-03J - Kate Red D29-0 | | | | | | Out of range |
| Kate Red D29-11 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Kate Red D29-13 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Kate Red D29-14 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Kate Red D29-2J - Wellbore #1 - Kate Red D29-2J | | | | | | Out of range |
| Kate Red D29-3 - Wellbore #1 - Kate Red D29-3 | | | | | | Out of range |
| Kate Red D29-5 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Kate Red D29-6 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Kate White D29-01 (PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Kate White D29-07 (PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Kate White D29-08 (PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Kate White D29-15 (SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Kate White D29-16 - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Kate White D29-9 (SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |

Noble Energy, Inc.
Anticollision Summary Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------|
| Company: | Northern Region - DJ Basin | Local Co-ordinate Reference: | Well Independence D18-732 |
| Project: | Mustang | TVD Reference: | Well @ 4800.00ft |
| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
| Site Error: | 0.00 ft | North Reference: | Grid |
| Reference Well: | Independence D18-732 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Independence D18-732 | Database: | EDMP |
| Reference Design: | Plan #2 | Offset TVD Reference: | Reference Datum |

| Summary | | | | | | |
|--|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|--------------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| D Section 30 | | | | | | |
| Adams D30-27D - Adams D30-27D - Adams D30-27D - A | | | | | | Out of range |
| Adams D30-29D - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Adams D30-30D - Adams D30-30D Gyros - Gyros | | | | | | Out of range |
| Adams D30-30D - Adams D30-30D OH - As Drilled | | | | | | Out of range |
| Adams D30-31D - Adams D30-31D Gyros - Gyros | | | | | | Out of range |
| Adams D30-31D - Adams D30-31D OH - As-drilled | | | | | | Out of range |
| Corbin D30-23D - Corbin D30-23D - Corbin D30-23D - As | | | | | | Out of range |
| Corbin Red D30-04J - Corbin Red D30-04J - Corbin Red | | | | | | Out of range |
| Corbin Red D30-09 - Corbin Red D30-09 - Corbin Red D | | | | | | Out of range |
| Corbin Red D30-15 - Corbin Red D30-15 - Corbin Red D | | | | | | Out of range |
| Corbin Red D30-16 - Corbin Red D30-16 - Corbin Red D | | | | | | Out of range |
| Dechant D30-17D - Dechant D30-17D - Dechant D30-17 | | | | | | Out of range |
| Dechant D30-20D - Dechant D30-20D - Dechant D30-20 | | | | | | Out of range |
| Dechant D30-24D - Dechant D30-24D - Dechant D30-24 | | | | | | Out of range |
| Dechant D30-25D - Dechant D30-25D - Dechant D30-25 | | | | | | Out of range |
| Dechant D31-27D - Dechant D31-27D - Dechant D31-27 | | | | | | Out of range |
| Dechant D31-28D - Dechant D31-28D - Dechant D31-28 | | | | | | Out of range |
| Dechant D31-29D - Dechant D31-29D - Dechant D31-29 | | | | | | Out of range |
| Dechant D31-77HN - Original Drilling - Original Drilling - A | | | | | | Out of range |
| Hanson D30-11 - Hanson D30-11 - Hanson D30-11 - As D | | | | | | Out of range |
| Hanson D30-12 - Hanson D30-12 - Hanson D30-12 - As | | | | | | Out of range |
| Hanson D30-13 - Hanson D30-13 - Hanson D30-13 - As | | | | | | Out of range |
| Hanson D30-14 - Hanson D30-14 - Hanson D30-14 - As | | | | | | Out of range |
| Hettinger C Unit 1 - Hettinger C Unit 1 - Hettinger C Unit | | | | | | Out of range |
| Hettinger D30-02 - Hettinger D30-02 - Hettinger D30-02 - | | | | | | Out of range |
| Hettinger D30-03 - Hettinger D30-03 - Hettinger D30-03 - | | | | | | Out of range |
| Hettinger D30-04 - Hettinger D30-04 - Hettinger D30-04 - | | | | | | Out of range |
| Hettinger D30-05 - Hettinger D30-05 - Hettinger D30-05 - | | | | | | Out of range |
| Hettinger D30-06 - Hettinger D30-06 - Hettinger D30-06 - | | | | | | Out of range |
| Hettinger D30-08 - Hettinger D30-08 - Hettinger D30-08 - | | | | | | Out of range |
| Leslie E Hanson Gas Unit 1 - Leslie E Hanson Gas Unit | | | | | | Out of range |
| McWilliams D29-32 - McWilliams D29-32 - McWilliams D | | | | | | Out of range |
| McWilliams D30-07 - McWilliams D30-07 - McWilliams D | | | | | | Out of range |
| McWilliams D30-18 - McWilliams D30-18 - McWilliams D | | | | | | Out of range |
| McWilliams D30-19 - McWilliams D30-19 - McWilliams D | | | | | | Out of range |
| McWilliams D30-21 - McWilliams D30-21 - McWilliams D | | | | | | Out of range |
| McWilliams D30-22 - McWilliams D30-22 - McWilliams D | | | | | | Out of range |

Noble Energy, Inc.
Anticollision Summary Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------|
| Company: | Northern Region - DJ Basin | Local Co-ordinate Reference: | Well Independence D18-732 |
| Project: | Mustang | TVD Reference: | Well @ 4800.00ft |
| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
| Site Error: | 0.00 ft | North Reference: | Grid |
| Reference Well: | Independence D18-732 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Independence D18-732 | Database: | EDMP |
| Reference Design: | Plan #2 | Offset TVD Reference: | Reference Datum |

| 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 | | | | | | |
| H Section 01 | | | | | | |
| Collins 1-1 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Houndskeeper 1-13 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Houndskeeper H01-17 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Houndskeeper H01-22 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Houndskeeper H01-27 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Houndskeeper H01-28 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Houndskeeper PC H01-21D - Wellbore #1 - Wellbore #1 | | | | | | Out of range |
| HSR-HARTMAN #4-1(PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| HSR-KOSKELA #5-1(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| HSR-LAURICE #6-1(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| LJS R H01-02 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| LJS R H01-08 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Shelton 22-1(PR) - Wellbore #1 - Wellbore #1 | | | | | | Out of range |
| Shelton 31-01(PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Shelton D07-30 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Shelton H #12-29(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Shelton H 1-12X(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Shelton H01-23 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Shelton H01-24 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Shelton H01-759 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Shelton H01-766 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Shelton H01-780 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Shelton H01-783 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Shelton H13-715 - Shelton H13-715 - Plan #1 | | | | | | Out of range |
| Shelton H13-724 - Shelton H13-724 - Plan #1 | | | | | | Out of range |
| Shelton H13-730 - Shelton H13-730 - Plan #1 | | | | | | Out of range |
| Shelton H13-734 - Shelton H13-734 - Plan #1 | | | | | | Out of range |
| Shelton H13-744 - Shelton H13-744 - Plan #1 | | | | | | Out of range |
| Shelton H13-753 - Shelton H13-753 - Plan #1 | | | | | | Out of range |
| Shelton H13-763 - Shelton H13-763 - Plan #1 | | | | | | Out of range |
| Shelton H13-768 - Shelton H13-768 - Plan #1 | | | | | | Out of range |
| Shelton H13-773 - Shelton H13-773 - Plan #1 | | | | | | Out of range |
| Shelton H13-782 - Shelton H13-782 - Plan #1 | | | | | | Out of range |
| Shelton H3-615 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Shelton H3-625 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Shelton H3-635 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Shelton H3-645 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Shelton H3-655 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Shelton H3-665 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Shelton H3-675 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| Shelton H3-683 - Wellbore #1 - Plan #1 | | | | | | Out of range |
| UPRC #1-12J(PA) - Wellbore #1 - No Surveys | | | | | | Out of range |
| UPRC #1-13J(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| UPRC 1-09J - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| UPRC 1-10J - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| UPRC 1-15J - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| UPRC 1-16J - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| UPRR 39 PAN AM G #1(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |

Noble Energy, Inc.
Anticollision Summary Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|---------------------------|
| Company: | Northern Region - DJ Basin | Local Co-ordinate Reference: | Well Independence D18-732 |
| Project: | Mustang | TVD Reference: | Well @ 4800.00ft |
| Reference Site: | D Section 19 | MD Reference: | Well @ 4800.00ft |
| Site Error: | 0.00 ft | North Reference: | Grid |
| Reference Well: | Independence D18-732 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Independence D18-732 | Database: | EDMP |
| Reference Design: | Plan #2 | Offset TVD Reference: | Reference Datum |

| 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 | | | | | | |
| H Section 12 | | | | | | |
| Helms H 12-14D(SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| JOHNSON H #13-27D(PR) - Wellbore #1 - MWD Survey | | | | | | Out of range |
| Ray H 12-24D(SI) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| SHELTON H #01-25D(SI) - Wellbore #1 - MWD Surveys | | | | | | Out of range |
| Shelton H01-33D(SI) - Wellbore #1 - MWD Surveys | | | | | | Out of range |
| STROH #H 12-03(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Stroh #H12-16(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Stroh #H12-18(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Stroh #H12-22(PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| Stroh #H12-32(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Stroh 12-01 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| STROH D #07-31(PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| STROH H #12-05(PA) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |
| STROH H #12-06(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| STROH H #12-08(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| STROH H #12-10(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| STROH H #12-11(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| STROH H #12-12(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| STROH H #12-13(SI) - Wellbore #1 - No Surveys | | | | | | Out of range |
| STROH H #12-14(PA) - Wellbore #1 - No Surveys | | | | | | Out of range |
| STROH H #12-20(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| STROH H #12-21(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| STROH H #12-28D(PR) - Wellbore #1 - MWD Surveys | | | | | | Out of range |
| STROH H #12-4J(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| STROH H #12-9(PR) - Wellbore #1 - No Surveys | | | | | | Out of range |
| Stroh H 12-04(PR) - Wellbore #1 - Wellbore #1 | | | | | | Out of range |
| Stroh H12-02 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| Stroh H12-27 - Wellbore #1 - Wellbore #1 - As Drilled | | | | | | Out of range |
| STROH H12-99HZ(PR) - Wellbore #1 - MWD Surveys | | | | | | Out of range |
| STROH PC H #12-30D(SI) - Wellbore #1 - MWD Surveys | | | | | | Out of range |
| STROH PC H #12-31D(SI) - Wellbore #1 - MWD Surveys | | | | | | Out of range |
| Stroh/12-7(PR) - Wellbore #1 - Gyro Surveys | | | | | | Out of range |