

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.  
NMNM97151

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

## 1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

## 2. Name of Operator

DEVON ENERGY PRODUCTION COMPANY

Contact: REBECCA DEAL

Email: Rebecca.Deal@devn.com

## 3a. Address

333 WEST SHERIDAN AVENUE  
OKLAHOMA CITY, OK 73102

## 3b. Phone No. (include area code)

Ph: 405-228-8429

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 8 T25S R33E SESW 380FSL 2510FWL  
32.138901 N Lat, 103.594727 W Lon8. Well Name and No.  
FLAGLER 8 FED 38H

## 9. API Well No.

30-025-45260-00-X1

## 10. Field and Pool or Exploratory Area

RED HILLS-UP BONE SPRING SHALE

## 11. County or Parish, State

LEA COUNTY, NM

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                |                                               |                                                    |                                           |
|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------|-------------------------------------------|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen               | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction     | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |
|                                                      | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       | Change to Original APD                    |
|                                                      | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back            | <input type="checkbox"/> Water Disposal            |                                           |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Devon Energy Production Company, L.P. respectfully requests the following changes to the original APD:

BHL move from 330' FNL & 2180' FWL to 20' FNL & 1605' FWL, both Sec. 8-25S-33E

Target change from 9375' TVD/13,854' MD to 9575' TVD/14,477' MD.

Please see attached revised C-102, Drilling Plan, Directional Plan & AC Plan.

For the Field Office  
OCD Hobbs

## 14. I hereby certify that the foregoing is true and correct.

Electronic Submission #442368 verified by the BLM Well Information System  
For DEVON ENERGY PRODUCTION COMPANY, sent to the Hobbs  
Committed to AFMSS for processing by PRISCILLA PEREZ on 11/02/2018 (19PP0281SE)

Name (Printed/Typed) REBECCA DEAL

Title REGULATORY COMPLIANCE PROFESSI

Signature (Electronic Submission)

Date 11/01/2018

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MUSTAFA HAQUE

Title PETROLEUM ENGINEER

Date 11/27/2018

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

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# **WCDSC Permian NM**

**Lea County (NAD83 New Mexico East)**

**Sec 08-T25S-R33E**

**Flagler 8 Fed 38H**

**Wellbore #1**

**Permit Plan 2**

## **Anticollision Report**

**16 October, 2018**

# Anticollision Report

|                           |                                    |                                     |                        |
|---------------------------|------------------------------------|-------------------------------------|------------------------|
| <b>Company:</b>           | WCDSC Permian NM                   | <b>Local Co-ordinate Reference:</b> | Well Flagler 8 Fed 38H |
| <b>Project:</b>           | Lea County (NAD83 New Mexico East) | <b>TVD Reference:</b>               | RKB @ 3472.50ft        |
| <b>Reference Site:</b>    | Sec 08-T25S-R33E                   | <b>MD Reference:</b>                | RKB @ 3472.50ft        |
| <b>Site Error:</b>        | 0.00 ft                            | <b>North Reference:</b>             | Grid                   |
| <b>Reference Well:</b>    | Flagler 8 Fed 38H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature      |
| <b>Well Error:</b>        | 0.50 ft                            | <b>Output errors are at</b>         | 2.00 sigma             |
| <b>Reference Wellbore</b> | Wellbore #1                        | <b>Database:</b>                    | EDM r5000.141_Prod US  |
| <b>Reference Design:</b>  | Permit Plan 2                      | <b>Offset TVD Reference:</b>        | Offset Datum           |

|                                     |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| <b>Reference</b>                    | Permit Plan 2                                                       |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |
| <b>Interpolation Method:</b>        | MD Interval 50.00ft                                                 |
| <b>Depth Range:</b>                 | Unlimited                                                           |
| <b>Results Limited by:</b>          | Maximum center-center distance of 1,500.00 ft                       |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          |
| <b>Error Model:</b>                 | ISCWSA                                                              |
| <b>Scan Method:</b>                 | Closest Approach 3D                                                 |
| <b>Error Surface:</b>               | Pedal Curve                                                         |
| <b>Casing Method:</b>               | Not applied                                                         |

|                            |                |                             |                  |                        |
|----------------------------|----------------|-----------------------------|------------------|------------------------|
| <b>Survey Tool Program</b> | <b>Date</b>    | 10/16/2018                  |                  |                        |
| <b>From (ft)</b>           | <b>To (ft)</b> | <b>Survey (Wellbore)</b>    | <b>Tool Name</b> | <b>Description</b>     |
| 0.00                       | 14,477.32      | Permit Plan 2 (Wellbore #1) | MWD+IGRF         | OWSG MWD + IGRF or WMM |

| 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                     |                               |                            |                               |                                |                   |                    |
| Sec 08-T25S-R33E                                    |                               |                            |                               |                                |                   |                    |
| Flagler 8 Fed 12H - Wellbore #1 - Permit Plan 3     | 2,400.00                      | 2,389.70                   | 1,088.31                      | 1,071.56                       | 64.968            | CC                 |
| Flagler 8 Fed 12H - Wellbore #1 - Permit Plan 3     | 2,450.00                      | 2,439.70                   | 1,088.51                      | 1,071.41                       | 63.642            | ES                 |
| Flagler 8 Fed 12H - Wellbore #1 - Permit Plan 3     | 4,550.00                      | 4,400.04                   | 1,493.72                      | 1,462.56                       | 47.943            | SF                 |
| Flagler 8 Fed 17H - Wellbore #1 - Permit Plan 1     |                               |                            |                               |                                |                   | Out of range       |
| Flagler 8 Fed 25H - Wellbore #1 - Permit Plan 2     | 2,400.00                      | 2,401.00                   | 89.98                         | 73.19                          | 5.359             | CC                 |
| Flagler 8 Fed 25H - Wellbore #1 - Permit Plan 2     | 2,450.00                      | 2,449.00                   | 90.20                         | 73.06                          | 5.263             | ES                 |
| Flagler 8 Fed 25H - Wellbore #1 - Permit Plan 2     | 2,600.00                      | 2,601.04                   | 93.40                         | 75.21                          | 5.134             | SF                 |
| Flagler 8 Fed 32H - Wellbore #1 - Permit Plan 2     | 2,400.00                      | 2,400.30                   | 29.99                         | 13.20                          | 1.786             | Minor Risk, CC     |
| Flagler 8 Fed 32H - Wellbore #1 - Permit Plan 2     | 2,450.00                      | 2,449.70                   | 30.20                         | 13.06                          | 1.762             | Minor Risk, ES, SF |
| Flagler 8 Fed 35H - Wellbore #1 - Permit Plan 1     |                               |                            |                               |                                |                   | Out of range       |
| Flagler 8 Fed 39H - Wellbore #1 - Permit Plan 2     | 2,400.00                      | 2,399.30                   | 59.99                         | 43.21                          | 3.574             | Alert, CC          |
| Flagler 8 Fed 39H - Wellbore #1 - Permit Plan 2     | 2,500.00                      | 2,500.00                   | 60.26                         | 42.79                          | 3.448             | Alert, ES          |
| Flagler 8 Fed 39H - Wellbore #1 - Permit Plan 2     | 2,650.00                      | 2,650.60                   | 61.92                         | 43.45                          | 3.352             | Alert, SF          |
| Flagler 8 Fed 3H - Wellbore #1 - Permit Plan 1      | 2,778.93                      | 2,785.05                   | 201.82                        | 182.37                         | 10.376            | CC                 |
| Flagler 8 Fed 3H - Wellbore #1 - Permit Plan 1      | 2,950.00                      | 2,955.56                   | 202.30                        | 181.64                         | 9.794             | ES                 |
| Flagler 8 Fed 3H - Wellbore #1 - Permit Plan 1      | 3,450.00                      | 3,450.64                   | 218.15                        | 193.90                         | 8.995             | SF                 |
| Flagler 8 Fed 41H - Wellbore #1 - Permit Plan 1     |                               |                            |                               |                                |                   | Out of range       |
| Flagler 8 Fed 4H - Wellbore #1 - Permit Plan 2      | 2,400.00                      | 2,410.00                   | 1,058.85                      | 1,042.02                       | 62.936            | CC                 |
| Flagler 8 Fed 4H - Wellbore #1 - Permit Plan 2      | 2,450.00                      | 2,440.00                   | 1,059.05                      | 1,041.94                       | 61.915            | ES                 |
| Flagler 8 Fed 4H - Wellbore #1 - Permit Plan 2      | 5,550.00                      | 5,507.74                   | 1,493.24                      | 1,454.48                       | 38.528            | SF                 |
| Flagler 8 Fed 7H - Wellbore #1 - Permit Plan 1      | 9,172.46                      | 9,206.59                   | 179.38                        | 109.20                         | 2.556             | Alert, CC, ES      |
| Flagler 8 Fed 7H - Wellbore #1 - Permit Plan 1      | 9,200.00                      | 9,232.87                   | 180.05                        | 109.39                         | 2.548             | Alert, SF          |
| Flagler 8 Fed 8H - Wellbore #1 - Permit Plan 1      | 2,400.00                      | 2,409.70                   | 1,029.41                      | 1,012.59                       | 61.190            | CC                 |
| Flagler 8 Fed 8H - Wellbore #1 - Permit Plan 1      | 2,450.00                      | 2,440.30                   | 1,029.61                      | 1,012.51                       | 60.190            | ES                 |
| Flagler 8 Fed 8H - Wellbore #1 - Permit Plan 1      | 7,750.00                      | 7,786.38                   | 1,499.58                      | 1,444.23                       | 27.092            | SF                 |
| Flagler 8 Fed Com 14H - Wellbore #1 - Permit Plan 1 | 8,559.66                      | 8,464.47                   | 1,142.02                      | 1,081.51                       | 18.873            | CC                 |
| Flagler 8 Fed Com 14H - Wellbore #1 - Permit Plan 1 | 9,250.00                      | 9,201.08                   | 1,144.78                      | 1,079.55                       | 17.550            | ES                 |
| Flagler 8 Fed Com 14H - Wellbore #1 - Permit Plan 1 | 9,550.00                      | 9,451.65                   | 1,157.26                      | 1,090.44                       | 17.320            | SF                 |
| Flagler 8 Fed Com 2H - Wellbore #1 - Permit Plan 2  | 9,393.01                      | 9,470.46                   | 863.84                        | 797.80                         | 13.082            | CC                 |
| Flagler 8 Fed Com 2H - Wellbore #1 - Permit Plan 2  | 9,400.00                      | 9,476.22                   | 863.86                        | 797.77                         | 13.072            | ES                 |
| Flagler 8 Fed Com 2H - Wellbore #1 - Permit Plan 2  | 9,500.00                      | 9,552.98                   | 868.95                        | 802.09                         | 12.997            | SF                 |
| Flagler 8 Fed Com 30H - Wellbore #1 - Permit Plan 1 | 8,747.98                      | 8,704.61                   | 828.48                        | 766.55                         | 13.378            | CC                 |
| Flagler 8 Fed Com 30H - Wellbore #1 - Permit Plan 1 | 14,200.00                     | 14,091.29                  | 830.59                        | 641.09                         | 4.383             | Alert, ES          |
| Flagler 8 Fed Com 30H - Wellbore #1 - Permit Plan 1 | 14,250.00                     | 14,091.29                  | 834.02                        | 643.63                         | 4.380             | Alert, SF          |
| Flagler 8 Fed Com 36H - Wellbore #1 - Permit Plan 1 | 8,747.98                      | 8,704.96                   | 1,015.01                      | 953.20                         | 16.419            | CC                 |
| Flagler 8 Fed Com 36H - Wellbore #1 - Permit Plan 1 | 8,850.00                      | 8,797.06                   | 1,015.09                      | 952.62                         | 16.248            | ES                 |
| Flagler 8 Fed Com 36H - Wellbore #1 - Permit Plan 1 | 14,300.00                     | 13,896.34                  | 1,271.02                      | 1,080.02                       | 6.655             | SF                 |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset 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                    |                               |                            |                               |                                |                   |                   |
| Sec 08-T25S-R33E                                   |                               |                            |                               |                                |                   |                   |
| Flagler 8 Fed Com 6H - Wellbore #1 - Permit Plan 1 | 8,747.98                      | 8,703.68                   | 1,283.76                      | 1,222.17                       | 20.844            | CC                |
| Flagler 8 Fed Com 6H - Wellbore #1 - Permit Plan 1 | 9,100.00                      | 9,055.70                   | 1,283.89                      | 1,219.87                       | 20.054            | ES                |
| Flagler 8 Fed Com 6H - Wellbore #1 - Permit Plan 1 | 9,450.00                      | 9,379.81                   | 1,301.51                      | 1,235.31                       | 19.658            | SF                |
| Flagler Fed #1 - Wellbore #1 - Wellbore #1         | 13,829.31                     | 9,571.55                   | 361.60                        | 223.23                         | 2.613             | Alert, CC, ES, SF |

| Offset Design              |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: 0.00 ft |                   |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|----------------------------|-------------------|
| Survey Program: 0-MWD+HDGM |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: 0.50 ft |                   |
| Reference                  |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         | Warning                    |                   |
| Measured Depth (ft)        | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) |                            | Separation Factor |
| 0.00                       | 0.00                | 0.00                | 0.00                | 0.50            | 0.50        | 100.21                | -193.00                           | 1,071.06   | 1,088.36             |                       |                         |                            |                   |
| 50.00                      | 50.00               | 39.70               | 39.70               | 0.50            | 0.50        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,087.31              | 1.00                    | 1,083.066                  |                   |
| 100.00                     | 100.00              | 89.70               | 89.70               | 0.52            | 0.51        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,087.28              | 1.03                    | 1,054.474                  |                   |
| 150.00                     | 150.00              | 139.70              | 139.70              | 0.59            | 0.57        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,087.15              | 1.16                    | 936.813                    |                   |
| 200.00                     | 200.00              | 189.70              | 189.70              | 0.70            | 0.68        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,086.93              | 1.38                    | 789.320                    |                   |
| 250.00                     | 250.00              | 239.70              | 239.70              | 0.84            | 0.81        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,086.67              | 1.65                    | 661.144                    |                   |
| 300.00                     | 300.00              | 289.70              | 289.70              | 0.99            | 0.96        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,086.37              | 1.94                    | 560.115                    |                   |
| 350.00                     | 350.00              | 339.70              | 339.70              | 1.15            | 1.11        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,086.05              | 2.26                    | 482.007                    |                   |
| 400.00                     | 400.00              | 389.70              | 389.70              | 1.31            | 1.28        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,085.73              | 2.58                    | 421.151                    |                   |
| 450.00                     | 450.00              | 439.70              | 439.70              | 1.48            | 1.44        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,085.39              | 2.92                    | 372.970                    |                   |
| 500.00                     | 500.00              | 489.70              | 489.70              | 1.65            | 1.61        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,085.06              | 3.26                    | 334.142                    |                   |
| 550.00                     | 550.00              | 539.70              | 539.70              | 1.82            | 1.78        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,084.71              | 3.60                    | 302.320                    |                   |
| 600.00                     | 600.00              | 589.70              | 589.70              | 1.99            | 1.95        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,084.37              | 3.95                    | 275.837                    |                   |
| 650.00                     | 650.00              | 639.70              | 639.70              | 2.16            | 2.13        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,084.02              | 4.29                    | 253.496                    |                   |
| 700.00                     | 700.00              | 689.70              | 689.70              | 2.34            | 2.30        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,083.67              | 4.64                    | 234.420                    |                   |
| 750.00                     | 750.00              | 739.70              | 739.70              | 2.51            | 2.48        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,083.32              | 4.99                    | 217.958                    |                   |
| 800.00                     | 800.00              | 789.70              | 789.70              | 2.69            | 2.65        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,082.97              | 5.34                    | 203.616                    |                   |
| 850.00                     | 850.00              | 839.70              | 839.70              | 2.87            | 2.83        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,082.61              | 5.70                    | 191.017                    |                   |
| 900.00                     | 900.00              | 889.70              | 889.70              | 3.04            | 3.01        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,082.26              | 6.05                    | 179.866                    |                   |
| 950.00                     | 950.00              | 939.70              | 939.70              | 3.22            | 3.18        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,081.91              | 6.40                    | 169.929                    |                   |
| 1,000.00                   | 1,000.00            | 989.70              | 989.70              | 3.40            | 3.36        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,081.55              | 6.76                    | 161.021                    |                   |
| 1,050.00                   | 1,050.00            | 1,039.70            | 1,039.70            | 3.58            | 3.54        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,081.20              | 7.11                    | 152.992                    |                   |
| 1,100.00                   | 1,100.00            | 1,089.70            | 1,089.70            | 3.75            | 3.72        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,080.84              | 7.47                    | 145.718                    |                   |
| 1,150.00                   | 1,150.00            | 1,139.70            | 1,139.70            | 3.93            | 3.89        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,080.49              | 7.82                    | 139.099                    |                   |
| 1,200.00                   | 1,200.00            | 1,189.70            | 1,189.70            | 4.11            | 4.07        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,080.13              | 8.18                    | 133.051                    |                   |
| 1,250.00                   | 1,250.00            | 1,239.70            | 1,239.70            | 4.29            | 4.25        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,079.78              | 8.54                    | 127.503                    |                   |
| 1,300.00                   | 1,300.00            | 1,289.70            | 1,289.70            | 4.46            | 4.43        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,079.42              | 8.89                    | 122.397                    |                   |
| 1,350.00                   | 1,350.00            | 1,339.70            | 1,339.70            | 4.64            | 4.61        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,079.06              | 9.25                    | 117.682                    |                   |
| 1,400.00                   | 1,400.00            | 1,389.70            | 1,389.70            | 4.82            | 4.78        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,078.71              | 9.60                    | 113.314                    |                   |
| 1,450.00                   | 1,450.00            | 1,439.70            | 1,439.70            | 5.00            | 4.96        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,078.35              | 9.96                    | 109.257                    |                   |
| 1,500.00                   | 1,500.00            | 1,489.70            | 1,489.70            | 5.18            | 5.14        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,077.99              | 10.32                   | 105.480                    |                   |
| 1,550.00                   | 1,550.00            | 1,539.70            | 1,539.70            | 5.36            | 5.32        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,077.64              | 10.67                   | 101.954                    |                   |
| 1,600.00                   | 1,600.00            | 1,589.70            | 1,589.70            | 5.53            | 5.50        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,077.28              | 11.03                   | 98.655                     |                   |
| 1,650.00                   | 1,650.00            | 1,639.70            | 1,639.70            | 5.71            | 5.68        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,076.92              | 11.39                   | 95.562                     |                   |
| 1,700.00                   | 1,700.00            | 1,689.70            | 1,689.70            | 5.89            | 5.85        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,076.57              | 11.75                   | 92.656                     |                   |
| 1,750.00                   | 1,750.00            | 1,739.70            | 1,739.70            | 6.07            | 6.03        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,076.21              | 12.10                   | 89.922                     |                   |
| 1,800.00                   | 1,800.00            | 1,789.70            | 1,789.70            | 6.25            | 6.21        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,075.85              | 12.46                   | 87.343                     |                   |
| 1,850.00                   | 1,850.00            | 1,839.70            | 1,839.70            | 6.43            | 6.39        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,075.49              | 12.82                   | 84.908                     |                   |
| 1,900.00                   | 1,900.00            | 1,889.70            | 1,889.70            | 6.61            | 6.57        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,075.14              | 13.17                   | 82.605                     |                   |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 12H - Wellbore #1 - Permit Plan 3 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+HDGM                                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   |            |                      |                       |                         |                   |                            |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning                    |
| 1,950.00                                                                         | 1,950.00            | 1,939.70            | 1,939.70            | 6.78            | 6.75        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,074.78              | 13.53                   | 80.423            |                            |
| 2,000.00                                                                         | 2,000.00            | 1,989.70            | 1,989.70            | 6.96            | 6.93        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,074.42              | 13.89                   | 78.353            |                            |
| 2,050.00                                                                         | 2,050.00            | 2,039.70            | 2,039.70            | 7.14            | 7.11        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,074.06              | 14.25                   | 76.386            |                            |
| 2,100.00                                                                         | 2,100.00            | 2,089.70            | 2,089.70            | 7.32            | 7.28        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,073.71              | 14.61                   | 74.516            |                            |
| 2,150.00                                                                         | 2,150.00            | 2,139.70            | 2,139.70            | 7.50            | 7.46        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,073.35              | 14.96                   | 72.735            |                            |
| 2,200.00                                                                         | 2,200.00            | 2,189.70            | 2,189.70            | 7.68            | 7.64        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,072.99              | 15.32                   | 71.037            |                            |
| 2,250.00                                                                         | 2,250.00            | 2,239.70            | 2,239.70            | 7.86            | 7.82        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,072.63              | 15.68                   | 69.416            |                            |
| 2,300.00                                                                         | 2,300.00            | 2,289.70            | 2,289.70            | 8.04            | 8.00        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,072.28              | 16.04                   | 67.867            |                            |
| 2,350.00                                                                         | 2,350.00            | 2,339.70            | 2,339.70            | 8.22            | 8.18        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,071.92              | 16.39                   | 66.386            |                            |
| 2,400.00                                                                         | 2,400.00            | 2,389.70            | 2,389.70            | 8.39            | 8.36        | 100.21                | -193.00                           | 1,071.06   | 1,088.31             | 1,071.56              | 16.75                   | 64.968 CC         |                            |
| 2,450.00                                                                         | 2,450.00            | 2,439.70            | 2,439.70            | 8.57            | 8.54        | -157.33               | -193.00                           | 1,071.06   | 1,088.51             | 1,071.41              | 17.10                   | 63.642 ES         |                            |
| 2,500.00                                                                         | 2,499.99            | 2,489.69            | 2,489.69            | 8.74            | 8.72        | -157.34               | -193.00                           | 1,071.06   | 1,089.12             | 1,071.66              | 17.46                   | 62.392            |                            |
| 2,550.00                                                                         | 2,549.98            | 2,533.34            | 2,533.34            | 8.91            | 8.87        | -157.35               | -193.02                           | 1,071.16   | 1,090.24             | 1,072.46              | 17.78                   | 61.328            |                            |
| 2,600.00                                                                         | 2,599.96            | 2,575.31            | 2,575.31            | 9.08            | 9.01        | -157.37               | -193.09                           | 1,071.55   | 1,092.12             | 1,074.03              | 18.09                   | 60.370            |                            |
| 2,650.00                                                                         | 2,649.92            | 2,617.23            | 2,617.22            | 9.25            | 9.16        | -157.39               | -193.21                           | 1,072.24   | 1,094.77             | 1,076.37              | 18.40                   | 59.493            |                            |
| 2,700.00                                                                         | 2,699.86            | 2,659.09            | 2,659.07            | 9.42            | 9.30        | -157.42               | -193.38                           | 1,073.24   | 1,098.19             | 1,079.48              | 18.71                   | 58.697            |                            |
| 2,750.00                                                                         | 2,749.78            | 2,700.88            | 2,700.84            | 9.59            | 9.44        | -157.45               | -193.61                           | 1,074.53   | 1,102.38             | 1,083.36              | 19.02                   | 57.968            |                            |
| 2,800.00                                                                         | 2,799.68            | 2,742.58            | 2,742.51            | 9.76            | 9.58        | -157.49               | -193.89                           | 1,076.12   | 1,107.33             | 1,088.01              | 19.32                   | 57.304            |                            |
| 2,850.00                                                                         | 2,849.54            | 2,784.17            | 2,784.06            | 9.94            | 9.72        | -157.53               | -194.22                           | 1,078.00   | 1,113.04             | 1,093.42              | 19.63                   | 56.703            |                            |
| 2,900.00                                                                         | 2,899.37            | 2,825.65            | 2,825.47            | 10.11           | 9.87        | -157.57               | -194.60                           | 1,080.17   | 1,119.52             | 1,099.59              | 19.93                   | 56.162            |                            |
| 2,950.00                                                                         | 2,949.16            | 2,866.99            | 2,866.74            | 10.29           | 10.01       | -157.62               | -195.03                           | 1,082.63   | 1,126.76             | 1,106.52              | 20.24                   | 55.677            |                            |
| 3,000.00                                                                         | 2,998.90            | 2,908.18            | 2,907.83            | 10.46           | 10.15       | -157.67               | -195.52                           | 1,085.38   | 1,134.75             | 1,114.21              | 20.54                   | 55.246            |                            |
| 3,050.00                                                                         | 3,048.61            | 2,949.21            | 2,948.75            | 10.64           | 10.29       | -157.72               | -196.05                           | 1,088.40   | 1,143.50             | 1,122.66              | 20.84                   | 54.867            |                            |
| 3,100.00                                                                         | 3,098.26            | 3,007.19            | 2,992.21            | 10.82           | 10.49       | -157.78               | -196.66                           | 1,091.90   | 1,152.98             | 1,131.77              | 21.20                   | 54.378            |                            |
| 3,150.00                                                                         | 3,147.86            | 3,041.76            | 3,040.98            | 11.00           | 10.61       | -157.86               | -197.37                           | 1,095.90   | 1,162.94             | 1,141.44              | 21.49                   | 54.109            |                            |
| 3,200.00                                                                         | 3,197.40            | 3,109.39            | 3,089.67            | 11.18           | 10.85       | -157.94               | -198.07                           | 1,099.90   | 1,173.29             | 1,151.40              | 21.90                   | 53.586            |                            |
| 3,250.00                                                                         | 3,246.89            | 3,139.37            | 3,138.26            | 11.37           | 10.95       | -158.03               | -198.77                           | 1,103.89   | 1,184.05             | 1,161.88              | 22.17                   | 53.407            |                            |
| 3,300.00                                                                         | 3,296.30            | 3,188.04            | 3,186.76            | 11.56           | 11.12       | -158.12               | -199.47                           | 1,107.87   | 1,195.21             | 1,172.70              | 22.51                   | 53.098            |                            |
| 3,350.00                                                                         | 3,345.65            | 3,236.60            | 3,235.15            | 11.75           | 11.29       | -158.21               | -200.17                           | 1,111.84   | 1,206.77             | 1,183.92              | 22.85                   | 52.814            |                            |
| 3,400.00                                                                         | 3,394.95            | 3,285.08            | 3,283.46            | 11.94           | 11.46       | -158.34               | -200.87                           | 1,115.81   | 1,218.64             | 1,195.45              | 23.19                   | 52.552            |                            |
| 3,450.00                                                                         | 3,444.24            | 3,333.56            | 3,331.77            | 12.13           | 11.63       | -158.48               | -201.56                           | 1,119.77   | 1,230.54             | 1,207.01              | 23.53                   | 52.298            |                            |
| 3,500.00                                                                         | 3,493.53            | 3,382.03            | 3,380.08            | 12.33           | 11.80       | -158.62               | -202.26                           | 1,123.74   | 1,242.44             | 1,218.57              | 23.87                   | 52.051            |                            |
| 3,550.00                                                                         | 3,542.82            | 3,430.51            | 3,428.39            | 12.53           | 11.98       | -158.75               | -202.96                           | 1,127.70   | 1,254.36             | 1,230.14              | 24.21                   | 51.808            |                            |
| 3,600.00                                                                         | 3,592.11            | 3,478.99            | 3,476.70            | 12.72           | 12.15       | -158.88               | -203.66                           | 1,131.67   | 1,266.27             | 1,241.72              | 24.55                   | 51.572            |                            |
| 3,650.00                                                                         | 3,641.40            | 3,527.46            | 3,525.01            | 12.92           | 12.32       | -159.01               | -204.35                           | 1,135.63   | 1,278.20             | 1,253.30              | 24.90                   | 51.340            |                            |
| 3,700.00                                                                         | 3,690.69            | 3,575.94            | 3,573.32            | 13.12           | 12.49       | -159.14               | -205.05                           | 1,139.60   | 1,290.13             | 1,264.89              | 25.24                   | 51.114            |                            |
| 3,750.00                                                                         | 3,739.99            | 3,624.42            | 3,621.63            | 13.33           | 12.66       | -159.26               | -205.75                           | 1,143.56   | 1,302.06             | 1,276.48              | 25.58                   | 50.893            |                            |
| 3,800.00                                                                         | 3,789.28            | 3,672.89            | 3,669.94            | 13.53           | 12.84       | -159.39               | -206.44                           | 1,147.53   | 1,314.00             | 1,288.07              | 25.93                   | 50.677            |                            |
| 3,850.00                                                                         | 3,838.57            | 3,721.37            | 3,718.25            | 13.74           | 13.01       | -159.51               | -207.14                           | 1,151.49   | 1,325.95             | 1,299.67              | 26.27                   | 50.466            |                            |
| 3,900.00                                                                         | 3,887.86            | 3,769.85            | 3,766.56            | 13.94           | 13.18       | -159.63               | -207.84                           | 1,155.46   | 1,337.90             | 1,311.28              | 26.62                   | 50.259            |                            |
| 3,950.00                                                                         | 3,937.15            | 3,818.32            | 3,814.87            | 14.15           | 13.36       | -159.74               | -208.54                           | 1,159.42   | 1,349.86             | 1,322.89              | 26.97                   | 50.057            |                            |
| 4,000.00                                                                         | 3,986.44            | 3,866.80            | 3,863.18            | 14.36           | 13.53       | -159.86               | -209.23                           | 1,163.39   | 1,361.82             | 1,334.51              | 27.31                   | 49.859            |                            |
| 4,050.00                                                                         | 4,035.73            | 3,915.28            | 3,911.48            | 14.57           | 13.70       | -159.97               | -209.93                           | 1,167.36   | 1,373.79             | 1,346.13              | 27.66                   | 49.666            |                            |
| 4,100.00                                                                         | 4,085.02            | 3,963.75            | 3,959.79            | 14.78           | 13.88       | -160.08               | -210.63                           | 1,171.32   | 1,385.76             | 1,357.75              | 28.01                   | 49.477            |                            |
| 4,150.00                                                                         | 4,134.31            | 4,012.23            | 4,008.10            | 14.99           | 14.05       | -160.19               | -211.32                           | 1,175.29   | 1,397.74             | 1,369.38              | 28.36                   | 49.291            |                            |
| 4,200.00                                                                         | 4,183.60            | 4,060.71            | 4,056.41            | 15.20           | 14.23       | -160.29               | -212.02                           | 1,179.25   | 1,409.72             | 1,381.02              | 28.71                   | 49.110            |                            |
| 4,250.00                                                                         | 4,232.90            | 4,109.18            | 4,104.72            | 15.41           | 14.40       | -160.40               | -212.72                           | 1,183.22   | 1,421.71             | 1,392.65              | 29.05                   | 48.933            |                            |
| 4,300.00                                                                         | 4,282.19            | 4,157.66            | 4,153.03            | 15.63           | 14.58       | -160.50               | -213.42                           | 1,187.18   | 1,433.70             | 1,404.30              | 29.40                   | 48.759            |                            |
| 4,350.00                                                                         | 4,331.48            | 4,206.14            | 4,201.34            | 15.84           | 14.75       | -160.60               | -214.11                           | 1,191.15   | 1,445.69             | 1,415.94              | 29.75                   | 48.589            |                            |
| 4,400.00                                                                         | 4,380.77            | 4,254.61            | 4,249.65            | 16.06           | 14.93       | -160.70               | -214.81                           | 1,195.11   | 1,457.69             | 1,427.59              | 30.10                   | 48.423            |                            |
| 4,450.00                                                                         | 4,430.06            | 4,303.09            | 4,297.96            | 16.27           | 15.10       | -160.80               | -215.51                           | 1,199.08   | 1,469.70             | 1,439.24              | 30.45                   | 48.260            |                            |
| 4,500.00                                                                         | 4,479.35            | 4,351.57            | 4,346.27            | 16.49           | 15.28       | -160.90               | -216.20                           | 1,203.04   | 1,481.70             | 1,450.90              | 30.80                   | 48.100            |                            |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design                                                      |                     |                     |                     |                 |             |                       |                                   |                                   |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|--------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Sec 08-T25S-R33E - Flagler 8 Fed 12H - Wellbore #1 - Permit Plan 3 |                     |                     |                     |                 |             |                       |                                   |                                   |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Survey Program: 0-MWD+HDGM                                         |                     |                     |                     |                 |             |                       |                                   |                                   |                      |                       |                         |                   |                    |         |
| Reference                                                          |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |                                   |                      |                       |                         |                   |                    |         |
| Measured Depth (ft)                                                | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning            |         |
| 4,550.00                                                           | 4,528.64            | 4,400.04            | 4,394.58            | 16.71           | 15.46       | -160.99               | -216.90                           | 1,207.01                          | 1,493.72             | 1,462.56              | 31.16                   | 47.943 SF         |                    |         |

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 25H - Wellbore #1 - Permit Plan 2 |                           |                           |                           |                   |                |                             |                        |               |                            |                             |                               |                      | Offset Site Error: | 0.00 ft |
|----------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                       |                           |                           |                           |                   |                |                             |                        |               |                            |                             |                               |                      | Offset Well Error: | 0.50 ft |
| Reference                                                                        |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |               | Distance                   |                             |                               |                      | Warning            |         |
| Measured<br>Depth<br>(ft)                                                        | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | +N/-S<br>(ft)          | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |         |
| 0.00                                                                             | 0.00                      | 1.00                      | -1.00                     | 0.50              | 0.50           | 89.64                       | 0.57                   | 89.98         | 89.98                      |                             |                               |                      |                    |         |
| 50.00                                                                            | 50.00                     | 49.00                     | 49.00                     | 0.50              | 0.50           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 88.98                       | 1.01                          | 89.417               |                    |         |
| 100.00                                                                           | 100.00                    | 101.00                    | 99.00                     | 0.52              | 0.52           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 88.95                       | 1.04                          | 86.817               |                    |         |
| 150.00                                                                           | 150.00                    | 149.00                    | 149.00                    | 0.59              | 0.59           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 88.80                       | 1.18                          | 76.347               |                    |         |
| 200.00                                                                           | 200.00                    | 201.00                    | 199.00                    | 0.70              | 0.70           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 88.58                       | 1.41                          | 63.965               |                    |         |
| 250.00                                                                           | 250.00                    | 249.00                    | 249.00                    | 0.84              | 0.83           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 88.31                       | 1.67                          | 53.799               |                    |         |
| 300.00                                                                           | 300.00                    | 301.00                    | 299.00                    | 0.99              | 0.99           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 88.00                       | 1.98                          | 45.497               |                    |         |
| 350.00                                                                           | 350.00                    | 349.00                    | 349.00                    | 1.15              | 1.14           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 87.69                       | 2.29                          | 39.332               |                    |         |
| 400.00                                                                           | 400.00                    | 401.00                    | 399.00                    | 1.31              | 1.31           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 87.36                       | 2.62                          | 34.325               |                    |         |
| 450.00                                                                           | 450.00                    | 449.00                    | 449.00                    | 1.48              | 1.47           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 87.03                       | 2.95                          | 30.510               |                    |         |
| 500.00                                                                           | 500.00                    | 501.00                    | 499.00                    | 1.65              | 1.65           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 86.69                       | 3.30                          | 27.304               |                    |         |
| 550.00                                                                           | 550.00                    | 549.00                    | 549.00                    | 1.82              | 1.81           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 86.35                       | 3.63                          | 24.775               |                    |         |
| 600.00                                                                           | 600.00                    | 601.00                    | 599.00                    | 1.99              | 1.99           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 86.00                       | 3.98                          | 22.582               |                    |         |
| 650.00                                                                           | 650.00                    | 649.00                    | 649.00                    | 2.16              | 2.16           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 85.66                       | 4.33                          | 20.802               |                    |         |
| 700.00                                                                           | 700.00                    | 701.00                    | 699.00                    | 2.34              | 2.34           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 85.30                       | 4.68                          | 19.218               |                    |         |
| 750.00                                                                           | 750.00                    | 749.00                    | 749.00                    | 2.51              | 2.51           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 84.96                       | 5.03                          | 17.904               |                    |         |
| 800.00                                                                           | 800.00                    | 801.00                    | 799.00                    | 2.69              | 2.69           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 84.60                       | 5.38                          | 16.711               |                    |         |
| 850.00                                                                           | 850.00                    | 849.00                    | 849.00                    | 2.87              | 2.86           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 84.25                       | 5.73                          | 15.703               |                    |         |
| 900.00                                                                           | 900.00                    | 901.00                    | 899.00                    | 3.04              | 3.05           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 83.89                       | 6.09                          | 14.774               |                    |         |
| 950.00                                                                           | 950.00                    | 949.00                    | 949.00                    | 3.22              | 3.22           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 83.54                       | 6.44                          | 13.978               |                    |         |
| 1,000.00                                                                         | 1,000.00                  | 1,001.00                  | 999.00                    | 3.40              | 3.40           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 83.18                       | 6.80                          | 13.235               |                    |         |
| 1,050.00                                                                         | 1,050.00                  | 1,049.00                  | 1,049.00                  | 3.58              | 3.57           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 82.84                       | 7.15                          | 12.591               |                    |         |
| 1,100.00                                                                         | 1,100.00                  | 1,101.00                  | 1,099.00                  | 3.75              | 3.76           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 82.47                       | 7.51                          | 11.984               |                    |         |
| 1,150.00                                                                         | 1,150.00                  | 1,149.00                  | 1,149.00                  | 3.93              | 3.93           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 82.12                       | 7.86                          | 11.452               |                    |         |
| 1,200.00                                                                         | 1,200.00                  | 1,201.00                  | 1,199.00                  | 4.11              | 4.11           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 81.76                       | 8.22                          | 10.947               |                    |         |
| 1,250.00                                                                         | 1,250.00                  | 1,249.00                  | 1,249.00                  | 4.29              | 4.28           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 81.41                       | 8.57                          | 10.501               |                    |         |
| 1,300.00                                                                         | 1,300.00                  | 1,301.00                  | 1,299.00                  | 4.46              | 4.47           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 81.05                       | 8.93                          | 10.074               |                    |         |
| 1,350.00                                                                         | 1,350.00                  | 1,349.00                  | 1,349.00                  | 4.64              | 4.64           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 80.70                       | 9.28                          | 9.695                |                    |         |
| 1,400.00                                                                         | 1,400.00                  | 1,401.00                  | 1,399.00                  | 4.82              | 4.82           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 80.34                       | 9.64                          | 9.330                |                    |         |
| 1,450.00                                                                         | 1,450.00                  | 1,449.00                  | 1,449.00                  | 5.00              | 5.00           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 79.99                       | 9.99                          | 9.003                |                    |         |
| 1,500.00                                                                         | 1,500.00                  | 1,501.00                  | 1,499.00                  | 5.18              | 5.18           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 79.62                       | 10.36                         | 8.687                |                    |         |
| 1,550.00                                                                         | 1,550.00                  | 1,549.00                  | 1,549.00                  | 5.36              | 5.35           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 79.27                       | 10.71                         | 8.403                |                    |         |
| 1,600.00                                                                         | 1,600.00                  | 1,601.00                  | 1,599.00                  | 5.53              | 5.54           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 78.91                       | 11.07                         | 8.127                |                    |         |
| 1,650.00                                                                         | 1,650.00                  | 1,649.00                  | 1,649.00                  | 5.71              | 5.71           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 78.56                       | 11.42                         | 7.878                |                    |         |
| 1,700.00                                                                         | 1,700.00                  | 1,701.00                  | 1,699.00                  | 5.89              | 5.89           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 78.20                       | 11.79                         | 7.635                |                    |         |
| 1,750.00                                                                         | 1,750.00                  | 1,749.00                  | 1,749.00                  | 6.07              | 6.07           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 77.85                       | 12.14                         | 7.414                |                    |         |
| 1,800.00                                                                         | 1,800.00                  | 1,801.00                  | 1,799.00                  | 6.25              | 6.25           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 77.48                       | 12.50                         | 7.198                |                    |         |
| 1,850.00                                                                         | 1,850.00                  | 1,849.00                  | 1,849.00                  | 6.43              | 6.42           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 77.13                       | 12.85                         | 7.002                |                    |         |
| 1,900.00                                                                         | 1,900.00                  | 1,901.00                  | 1,899.00                  | 6.61              | 6.61           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 76.77                       | 13.22                         | 6.809                |                    |         |
| 1,950.00                                                                         | 1,950.00                  | 1,949.00                  | 1,949.00                  | 6.78              | 6.78           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 76.42                       | 13.57                         | 6.633                |                    |         |
| 2,000.00                                                                         | 2,000.00                  | 2,001.00                  | 1,999.00                  | 6.96              | 6.97           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 76.05                       | 13.93                         | 6.459                |                    |         |
| 2,050.00                                                                         | 2,050.00                  | 2,049.00                  | 2,049.00                  | 7.14              | 7.14           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 75.70                       | 14.28                         | 6.301                |                    |         |
| 2,100.00                                                                         | 2,100.00                  | 2,101.00                  | 2,099.00                  | 7.32              | 7.32           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 75.34                       | 14.65                         | 6.144                |                    |         |
| 2,150.00                                                                         | 2,150.00                  | 2,149.00                  | 2,149.00                  | 7.50              | 7.50           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 74.99                       | 15.00                         | 6.000                |                    |         |
| 2,200.00                                                                         | 2,200.00                  | 2,201.00                  | 2,199.00                  | 7.68              | 7.68           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 74.62                       | 15.36                         | 5.858                |                    |         |
| 2,250.00                                                                         | 2,250.00                  | 2,249.00                  | 2,249.00                  | 7.85              | 7.85           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 74.27                       | 15.71                         | 5.727                |                    |         |
| 2,300.00                                                                         | 2,300.00                  | 2,301.00                  | 2,299.00                  | 8.04              | 8.04           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 73.91                       | 16.08                         | 5.597                |                    |         |
| 2,350.00                                                                         | 2,350.00                  | 2,349.00                  | 2,349.00                  | 8.22              | 8.21           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 73.55                       | 16.43                         | 5.478                |                    |         |
| 2,400.00                                                                         | 2,400.00                  | 2,401.00                  | 2,399.00                  | 8.39              | 8.40           | 89.64                       | 0.57                   | 89.98         | 89.98                      | 73.19                       | 16.79                         | 5.359 CC             |                    |         |
| 2,450.00                                                                         | 2,450.00                  | 2,449.00                  | 2,449.00                  | 8.57              | 8.57           | -167.93                     | 0.57                   | 89.98         | 90.20                      | 73.06                       | 17.14                         | 5.263 ES             |                    |         |
| 2,500.00                                                                         | 2,499.99                  | 2,501.01                  | 2,498.99                  | 8.74              | 8.76           | -168.01                     | 0.57                   | 89.98         | 90.84                      | 73.34                       | 17.50                         | 5.192                |                    |         |
| 2,550.00                                                                         | 2,549.98                  | 2,548.98                  | 2,548.98                  | 8.91              | 8.93           | -168.15                     | 0.57                   | 89.98         | 91.90                      | 74.07                       | 17.84                         | 5.152                |                    |         |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 25H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   |         | Offset Site Error: | 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   |         | Offset Well Error: | 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            | Minimum              |                       | Separation              |                   | Warning |                    |         |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |         |                    |         |
| 2,600.00                                                                         | 2,599.96            | 2,601.04            | 2,598.96            | 9.08            | 9.11        | -168.34               | 0.57                              | 89.98      | 93.40                | 75.21                 | 18.19                   | 5.134 SF          |         |                    |         |
| 2,650.00                                                                         | 2,649.92            | 2,648.92            | 2,648.92            | 9.25            | 9.29        | -168.58               | 0.57                              | 89.98      | 95.32                | 76.79                 | 18.53                   | 5.143             |         |                    |         |
| 2,700.00                                                                         | 2,699.86            | 2,698.86            | 2,698.86            | 9.42            | 9.46        | -168.85               | 0.57                              | 89.98      | 97.67                | 78.79                 | 18.88                   | 5.173             |         |                    |         |
| 2,750.00                                                                         | 2,749.78            | 2,748.07            | 2,748.06            | 9.59            | 9.63        | -169.09               | 0.47                              | 90.15      | 100.63               | 81.41                 | 19.22                   | 5.236             |         |                    |         |
| 2,800.00                                                                         | 2,799.68            | 2,797.18            | 2,797.17            | 9.76            | 9.80        | -169.24               | 0.16                              | 90.69      | 104.38               | 84.82                 | 19.56                   | 5.337             |         |                    |         |
| 2,850.00                                                                         | 2,849.54            | 2,846.20            | 2,846.18            | 9.94            | 9.97        | -169.30               | -0.37                             | 91.59      | 108.92               | 89.03                 | 19.89                   | 5.477             |         |                    |         |
| 2,900.00                                                                         | 2,899.37            | 2,895.10            | 2,895.07            | 10.11           | 10.13       | -169.28               | -1.10                             | 92.85      | 114.25               | 94.03                 | 20.22                   | 5.651             |         |                    |         |
| 2,950.00                                                                         | 2,949.16            | 2,943.88            | 2,943.81            | 10.29           | 10.29       | -169.19               | -2.04                             | 94.47      | 120.36               | 99.81                 | 20.55                   | 5.858             |         |                    |         |
| 3,000.00                                                                         | 2,998.90            | 2,992.51            | 2,992.38            | 10.46           | 10.46       | -169.05               | -3.18                             | 96.43      | 127.25               | 106.38                | 20.87                   | 6.086             |         |                    |         |
| 3,050.00                                                                         | 3,048.61            | 3,041.57            | 3,041.38            | 10.64           | 10.62       | -168.87               | -4.50                             | 98.71      | 134.86               | 113.65                | 21.21                   | 6.359             |         |                    |         |
| 3,100.00                                                                         | 3,098.26            | 3,109.08            | 3,090.65            | 10.82           | 10.85       | -168.74               | -5.85                             | 101.02     | 142.92               | 121.31                | 21.60                   | 6.615             |         |                    |         |
| 3,150.00                                                                         | 3,147.86            | 3,140.19            | 3,139.85            | 11.00           | 10.95       | -168.66               | -7.19                             | 103.33     | 151.40               | 129.52                | 21.88                   | 6.920             |         |                    |         |
| 3,200.00                                                                         | 3,197.40            | 3,189.39            | 3,188.98            | 11.18           | 11.12       | -168.61               | -8.54                             | 105.64     | 160.30               | 138.08                | 22.22                   | 7.215             |         |                    |         |
| 3,250.00                                                                         | 3,246.89            | 3,238.52            | 3,238.03            | 11.37           | 11.29       | -168.59               | -9.88                             | 107.95     | 169.62               | 147.07                | 22.55                   | 7.521             |         |                    |         |
| 3,300.00                                                                         | 3,296.30            | 3,287.56            | 3,287.00            | 11.56           | 11.46       | -168.60               | -11.21                            | 110.25     | 179.36               | 156.47                | 22.89                   | 7.835             |         |                    |         |
| 3,350.00                                                                         | 3,345.65            | 3,336.52            | 3,335.88            | 11.75           | 11.63       | -168.63               | -12.55                            | 112.54     | 189.52               | 166.29                | 23.23                   | 8.158             |         |                    |         |
| 3,400.00                                                                         | 3,394.95            | 3,385.40            | 3,384.70            | 11.94           | 11.79       | -168.69               | -13.88                            | 114.84     | 200.01               | 176.44                | 23.57                   | 8.486             |         |                    |         |
| 3,450.00                                                                         | 3,444.24            | 3,434.29            | 3,433.51            | 12.13           | 11.96       | -168.76               | -15.21                            | 117.13     | 210.51               | 186.60                | 23.91                   | 8.805             |         |                    |         |
| 3,500.00                                                                         | 3,493.53            | 3,483.17            | 3,482.32            | 12.33           | 12.13       | -168.81               | -16.55                            | 119.42     | 221.02               | 196.77                | 24.25                   | 9.115             |         |                    |         |
| 3,550.00                                                                         | 3,542.82            | 3,532.05            | 3,531.13            | 12.53           | 12.30       | -168.86               | -17.88                            | 121.71     | 231.52               | 206.93                | 24.59                   | 9.417             |         |                    |         |
| 3,600.00                                                                         | 3,592.11            | 3,580.94            | 3,579.95            | 12.72           | 12.47       | -168.91               | -19.21                            | 124.01     | 242.03               | 217.10                | 24.93                   | 9.709             |         |                    |         |
| 3,650.00                                                                         | 3,641.40            | 3,629.82            | 3,628.76            | 12.92           | 12.64       | -168.95               | -20.55                            | 126.30     | 252.53               | 227.26                | 25.27                   | 9.994             |         |                    |         |
| 3,700.00                                                                         | 3,690.69            | 3,678.71            | 3,677.57            | 13.12           | 12.81       | -168.99               | -21.88                            | 128.59     | 263.04               | 237.43                | 25.61                   | 10.271            |         |                    |         |
| 3,750.00                                                                         | 3,739.99            | 3,727.59            | 3,726.38            | 13.33           | 12.98       | -169.03               | -23.21                            | 130.88     | 273.54               | 247.59                | 25.95                   | 10.540            |         |                    |         |
| 3,800.00                                                                         | 3,789.28            | 3,776.47            | 3,775.19            | 13.53           | 13.15       | -169.06               | -24.54                            | 133.18     | 284.05               | 257.75                | 26.30                   | 10.802            |         |                    |         |
| 3,850.00                                                                         | 3,838.57            | 3,825.36            | 3,824.00            | 13.74           | 13.32       | -169.09               | -25.88                            | 135.47     | 294.55               | 267.91                | 26.64                   | 11.056            |         |                    |         |
| 3,900.00                                                                         | 3,887.86            | 3,874.24            | 3,872.82            | 13.94           | 13.50       | -169.12               | -27.21                            | 137.76     | 305.06               | 278.07                | 26.99                   | 11.305            |         |                    |         |
| 3,950.00                                                                         | 3,937.15            | 3,923.12            | 3,921.63            | 14.15           | 13.67       | -169.15               | -28.54                            | 140.06     | 315.57               | 288.24                | 27.33                   | 11.546            |         |                    |         |
| 4,000.00                                                                         | 3,986.44            | 3,972.01            | 3,970.44            | 14.36           | 13.84       | -169.17               | -29.88                            | 142.35     | 326.07               | 298.40                | 27.68                   | 11.782            |         |                    |         |
| 4,050.00                                                                         | 4,035.73            | 4,020.89            | 4,019.25            | 14.57           | 14.01       | -169.20               | -31.21                            | 144.64     | 336.58               | 308.56                | 28.02                   | 12.011            |         |                    |         |
| 4,100.00                                                                         | 4,085.02            | 4,069.77            | 4,068.06            | 14.78           | 14.18       | -169.22               | -32.54                            | 146.93     | 347.08               | 318.72                | 28.37                   | 12.234            |         |                    |         |
| 4,150.00                                                                         | 4,134.31            | 4,118.66            | 4,116.87            | 14.99           | 14.36       | -169.24               | -33.88                            | 149.23     | 357.59               | 328.87                | 28.72                   | 12.452            |         |                    |         |
| 4,200.00                                                                         | 4,183.60            | 4,167.54            | 4,165.69            | 15.20           | 14.53       | -169.26               | -35.21                            | 151.52     | 368.10               | 339.03                | 29.06                   | 12.665            |         |                    |         |
| 4,250.00                                                                         | 4,232.90            | 4,216.42            | 4,214.50            | 15.41           | 14.70       | -169.28               | -36.54                            | 153.81     | 378.60               | 349.19                | 29.41                   | 12.872            |         |                    |         |
| 4,300.00                                                                         | 4,282.19            | 4,265.31            | 4,263.31            | 15.63           | 14.88       | -169.29               | -37.87                            | 156.10     | 389.11               | 359.35                | 29.76                   | 13.074            |         |                    |         |
| 4,350.00                                                                         | 4,331.48            | 4,314.19            | 4,312.12            | 15.84           | 15.05       | -169.31               | -39.21                            | 158.40     | 399.62               | 369.51                | 30.11                   | 13.272            |         |                    |         |
| 4,400.00                                                                         | 4,380.77            | 4,363.08            | 4,360.93            | 16.06           | 15.23       | -169.33               | -40.54                            | 160.69     | 410.12               | 379.66                | 30.46                   | 13.465            |         |                    |         |
| 4,450.00                                                                         | 4,430.06            | 4,411.96            | 4,409.74            | 16.27           | 15.40       | -169.34               | -41.87                            | 162.98     | 420.63               | 389.82                | 30.81                   | 13.653            |         |                    |         |
| 4,500.00                                                                         | 4,479.35            | 4,460.84            | 4,458.55            | 16.49           | 15.57       | -169.36               | -43.21                            | 165.28     | 431.14               | 399.98                | 31.16                   | 13.836            |         |                    |         |
| 4,550.00                                                                         | 4,528.64            | 4,509.73            | 4,507.37            | 16.71           | 15.75       | -169.37               | -44.54                            | 167.57     | 441.64               | 410.13                | 31.51                   | 14.016            |         |                    |         |
| 4,600.00                                                                         | 4,577.93            | 4,558.61            | 4,556.18            | 16.92           | 15.92       | -169.38               | -45.87                            | 169.86     | 452.15               | 420.29                | 31.86                   | 14.191            |         |                    |         |
| 4,650.00                                                                         | 4,627.22            | 4,607.49            | 4,604.99            | 17.14           | 16.10       | -169.40               | -47.21                            | 172.15     | 462.65               | 430.44                | 32.21                   | 14.363            |         |                    |         |
| 4,700.00                                                                         | 4,676.52            | 4,656.38            | 4,653.80            | 17.36           | 16.27       | -169.41               | -48.54                            | 174.45     | 473.16               | 440.60                | 32.56                   | 14.530            |         |                    |         |
| 4,750.00                                                                         | 4,725.81            | 4,705.26            | 4,702.61            | 17.58           | 16.45       | -169.42               | -49.87                            | 176.74     | 483.67               | 450.75                | 32.92                   | 14.694            |         |                    |         |
| 4,800.00                                                                         | 4,775.10            | 4,754.14            | 4,751.42            | 17.80           | 16.62       | -169.43               | -51.20                            | 179.03     | 494.17               | 460.91                | 33.27                   | 14.854            |         |                    |         |
| 4,850.00                                                                         | 4,824.39            | 4,803.03            | 4,800.24            | 18.02           | 16.80       | -169.44               | -52.54                            | 181.32     | 504.68               | 471.06                | 33.62                   | 15.011            |         |                    |         |
| 4,900.00                                                                         | 4,873.68            | 4,851.91            | 4,849.05            | 18.24           | 16.98       | -169.45               | -53.87                            | 183.62     | 515.19               | 481.21                | 33.97                   | 15.165            |         |                    |         |
| 4,950.00                                                                         | 4,922.97            | 4,900.79            | 4,897.86            | 18.47           | 17.15       | -169.46               | -55.20                            | 185.91     | 525.69               | 491.37                | 34.33                   | 15.315            |         |                    |         |
| 5,000.00                                                                         | 4,972.26            | 4,949.68            | 4,946.67            | 18.69           | 17.33       | -169.47               | -56.54                            | 188.20     | 536.20               | 501.52                | 34.68                   | 15.462            |         |                    |         |
| 5,050.00                                                                         | 5,021.55            | 5,001.44            | 4,995.48            | 18.91           | 17.51       | -169.48               | -57.87                            | 190.50     | 546.71               | 511.66                | 35.04                   | 15.601            |         |                    |         |
| 5,100.00                                                                         | 5,070.84            | 5,047.45            | 5,044.29            | 19.13           | 17.68       | -169.49               | -59.20                            | 192.79     | 557.21               | 521.83                | 35.39                   | 15.746            |         |                    |         |
| 5,150.00                                                                         | 5,120.13            | 5,103.67            | 5,093.11            | 19.36           | 17.88       | -169.49               | -60.53                            | 195.08     | 567.72               | 531.95                | 35.77                   | 15.873            |         |                    |         |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 25H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   |            |                      |                       |                         |                   |                            |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning                    |
| 5,200.00                                                                         | 5,169.43            | 5,145.21            | 5,141.92            | 19.58           | 18.03       | -169.50               | -61.87                            | 197.37     | 578.23               | 542.13                | 36.10                   | 16.019            |                            |
| 5,250.00                                                                         | 5,218.72            | 5,205.90            | 5,190.73            | 19.80           | 18.25       | -169.51               | -63.20                            | 199.67     | 588.73               | 552.24                | 36.49                   | 16.133            |                            |
| 5,300.00                                                                         | 5,268.01            | 5,242.98            | 5,239.54            | 20.03           | 18.39       | -169.52               | -64.53                            | 201.96     | 599.24               | 562.44                | 36.81                   | 16.281            |                            |
| 5,350.00                                                                         | 5,317.30            | 5,308.14            | 5,288.35            | 20.25           | 18.62       | -169.52               | -65.87                            | 204.25     | 609.75               | 572.53                | 37.22                   | 16.383            |                            |
| 5,400.00                                                                         | 5,366.59            | 5,340.75            | 5,337.16            | 20.48           | 18.74       | -169.53               | -67.20                            | 206.54     | 620.25               | 582.74                | 37.52                   | 16.533            |                            |
| 5,450.00                                                                         | 5,415.88            | 5,389.63            | 5,385.97            | 20.70           | 18.92       | -169.54               | -68.53                            | 208.84     | 630.76               | 592.89                | 37.87                   | 16.655            |                            |
| 5,500.00                                                                         | 5,465.17            | 5,438.51            | 5,434.79            | 20.93           | 19.09       | -169.54               | -69.87                            | 211.13     | 641.27               | 603.04                | 38.23                   | 16.775            |                            |
| 5,550.00                                                                         | 5,514.46            | 5,487.40            | 5,483.60            | 21.16           | 19.27       | -169.55               | -71.20                            | 213.42     | 651.77               | 613.19                | 38.58                   | 16.893            |                            |
| 5,600.00                                                                         | 5,563.75            | 5,536.28            | 5,532.41            | 21.38           | 19.45       | -169.56               | -72.53                            | 215.72     | 662.28               | 623.34                | 38.94                   | 17.008            |                            |
| 5,650.00                                                                         | 5,613.04            | 5,585.16            | 5,581.22            | 21.61           | 19.62       | -169.56               | -73.86                            | 218.01     | 672.79               | 633.49                | 39.30                   | 17.121            |                            |
| 5,700.00                                                                         | 5,662.34            | 5,634.05            | 5,630.03            | 21.84           | 19.80       | -169.57               | -75.20                            | 220.30     | 683.29               | 643.64                | 39.65                   | 17.232            |                            |
| 5,750.00                                                                         | 5,711.63            | 5,682.93            | 5,678.84            | 22.06           | 19.98       | -169.57               | -76.53                            | 222.59     | 693.80               | 653.79                | 40.01                   | 17.341            |                            |
| 5,800.00                                                                         | 5,760.92            | 5,731.82            | 5,727.66            | 22.29           | 20.16       | -169.58               | -77.86                            | 224.89     | 704.31               | 663.94                | 40.37                   | 17.448            |                            |
| 5,850.00                                                                         | 5,810.21            | 5,780.70            | 5,776.47            | 22.52           | 20.34       | -169.58               | -79.20                            | 227.18     | 714.81               | 674.09                | 40.72                   | 17.553            |                            |
| 5,900.00                                                                         | 5,859.50            | 5,829.58            | 5,825.28            | 22.75           | 20.51       | -169.59               | -80.53                            | 229.47     | 725.32               | 684.24                | 41.08                   | 17.656            |                            |
| 5,950.00                                                                         | 5,908.79            | 5,878.47            | 5,874.09            | 22.97           | 20.69       | -169.59               | -81.86                            | 231.76     | 735.83               | 694.39                | 41.44                   | 17.757            |                            |
| 6,000.00                                                                         | 5,958.08            | 5,927.35            | 5,922.90            | 23.20           | 20.87       | -169.60               | -83.20                            | 234.06     | 746.33               | 704.54                | 41.80                   | 17.857            |                            |
| 6,050.00                                                                         | 6,007.37            | 5,976.23            | 5,971.71            | 23.43           | 21.05       | -169.60               | -84.53                            | 236.35     | 756.84               | 714.69                | 42.15                   | 17.954            |                            |
| 6,100.00                                                                         | 6,056.66            | 6,025.12            | 6,020.53            | 23.66           | 21.22       | -169.61               | -85.86                            | 238.64     | 767.35               | 724.84                | 42.51                   | 18.050            |                            |
| 6,150.00                                                                         | 6,105.96            | 6,074.00            | 6,069.34            | 23.89           | 21.40       | -169.61               | -87.19                            | 240.93     | 777.86               | 734.99                | 42.87                   | 18.145            |                            |
| 6,200.00                                                                         | 6,155.25            | 6,122.88            | 6,118.15            | 24.12           | 21.58       | -169.62               | -88.53                            | 243.23     | 788.36               | 745.13                | 43.23                   | 18.237            |                            |
| 6,250.00                                                                         | 6,204.54            | 6,171.77            | 6,166.96            | 24.35           | 21.76       | -169.62               | -89.86                            | 245.52     | 798.87               | 755.28                | 43.59                   | 18.329            |                            |
| 6,300.00                                                                         | 6,253.83            | 6,220.65            | 6,215.77            | 24.58           | 21.94       | -169.62               | -91.19                            | 247.81     | 809.38               | 765.43                | 43.94                   | 18.418            |                            |
| 6,350.00                                                                         | 6,303.12            | 6,269.53            | 6,264.58            | 24.81           | 22.12       | -169.63               | -92.53                            | 250.11     | 819.88               | 775.58                | 44.30                   | 18.506            |                            |
| 6,400.00                                                                         | 6,352.41            | 6,318.42            | 6,313.39            | 25.04           | 22.29       | -169.63               | -93.86                            | 252.40     | 830.39               | 785.73                | 44.66                   | 18.593            |                            |
| 6,450.00                                                                         | 6,401.70            | 6,367.30            | 6,362.21            | 25.27           | 22.47       | -169.64               | -95.19                            | 254.69     | 840.90               | 795.88                | 45.02                   | 18.678            |                            |
| 6,500.00                                                                         | 6,450.99            | 6,416.19            | 6,411.02            | 25.50           | 22.65       | -169.64               | -96.53                            | 256.98     | 851.40               | 806.02                | 45.38                   | 18.762            |                            |
| 6,550.00                                                                         | 6,500.28            | 6,465.07            | 6,459.83            | 25.73           | 22.83       | -169.64               | -97.86                            | 259.28     | 861.91               | 816.17                | 45.74                   | 18.844            |                            |
| 6,600.00                                                                         | 6,549.57            | 6,513.95            | 6,508.64            | 25.96           | 23.01       | -169.65               | -99.19                            | 261.57     | 872.42               | 826.32                | 46.10                   | 18.925            |                            |
| 6,650.00                                                                         | 6,598.87            | 6,562.84            | 6,557.45            | 26.19           | 23.19       | -169.65               | -100.52                           | 263.86     | 882.92               | 836.47                | 46.46                   | 19.005            |                            |
| 6,700.00                                                                         | 6,648.16            | 6,611.72            | 6,606.26            | 26.42           | 23.37       | -169.65               | -101.86                           | 266.15     | 893.43               | 846.61                | 46.82                   | 19.083            |                            |
| 6,750.00                                                                         | 6,697.45            | 6,660.80            | 6,655.08            | 26.66           | 23.55       | -169.66               | -103.19                           | 268.45     | 903.94               | 856.76                | 47.18                   | 19.160            |                            |
| 6,800.00                                                                         | 6,746.74            | 6,709.49            | 6,703.89            | 26.89           | 23.73       | -169.66               | -104.52                           | 270.74     | 914.44               | 866.91                | 47.54                   | 19.236            |                            |
| 6,850.00                                                                         | 6,796.03            | 6,758.37            | 6,752.70            | 27.12           | 23.90       | -169.66               | -105.86                           | 273.03     | 924.95               | 877.05                | 47.90                   | 19.311            |                            |
| 6,900.00                                                                         | 6,845.32            | 6,807.25            | 6,801.51            | 27.35           | 24.08       | -169.67               | -107.19                           | 275.33     | 935.46               | 887.20                | 48.26                   | 19.385            |                            |
| 6,950.00                                                                         | 6,894.61            | 6,856.14            | 6,850.32            | 27.58           | 24.26       | -169.67               | -108.52                           | 277.62     | 945.96               | 897.35                | 48.62                   | 19.457            |                            |
| 7,000.00                                                                         | 6,943.90            | 6,905.02            | 6,899.13            | 27.82           | 24.44       | -169.67               | -109.86                           | 279.91     | 956.47               | 907.49                | 48.98                   | 19.529            |                            |
| 7,050.00                                                                         | 6,993.19            | 6,953.90            | 6,947.95            | 28.05           | 24.62       | -169.67               | -111.19                           | 282.20     | 966.98               | 917.64                | 49.34                   | 19.599            |                            |
| 7,100.00                                                                         | 7,042.48            | 7,002.79            | 6,996.76            | 28.28           | 24.80       | -169.68               | -112.52                           | 284.50     | 977.49               | 927.79                | 49.70                   | 19.668            |                            |
| 7,150.00                                                                         | 7,091.78            | 7,051.67            | 7,045.57            | 28.51           | 24.98       | -169.68               | -113.85                           | 286.79     | 987.99               | 937.93                | 50.06                   | 19.737            |                            |
| 7,200.00                                                                         | 7,141.07            | 7,100.56            | 7,094.38            | 28.75           | 25.16       | -169.68               | -115.19                           | 289.08     | 998.50               | 948.08                | 50.42                   | 19.804            |                            |
| 7,250.00                                                                         | 7,190.36            | 7,149.44            | 7,143.19            | 28.98           | 25.34       | -169.68               | -116.52                           | 291.37     | 1,009.01             | 958.23                | 50.78                   | 19.870            |                            |
| 7,300.00                                                                         | 7,239.65            | 7,201.68            | 7,192.00            | 29.21           | 25.53       | -169.69               | -117.85                           | 293.67     | 1,019.51             | 968.36                | 51.15                   | 19.931            |                            |
| 7,350.00                                                                         | 7,288.94            | 7,247.21            | 7,240.81            | 29.44           | 25.70       | -169.69               | -119.19                           | 295.96     | 1,030.02             | 978.52                | 51.50                   | 20.000            |                            |
| 7,400.00                                                                         | 7,338.23            | 7,303.91            | 7,289.63            | 29.68           | 25.91       | -169.69               | -120.52                           | 298.25     | 1,040.53             | 988.63                | 51.89                   | 20.052            |                            |
| 7,450.00                                                                         | 7,387.52            | 7,344.97            | 7,338.44            | 29.91           | 26.06       | -169.69               | -121.85                           | 300.55     | 1,051.03             | 998.81                | 52.22                   | 20.125            |                            |
| 7,500.00                                                                         | 7,436.81            | 7,393.86            | 7,387.25            | 30.14           | 26.24       | -169.70               | -123.18                           | 302.84     | 1,061.54             | 1,008.95              | 52.59                   | 20.187            |                            |
| 7,550.00                                                                         | 7,486.10            | 7,442.74            | 7,436.06            | 30.38           | 26.42       | -169.70               | -124.52                           | 305.13     | 1,072.05             | 1,019.10              | 52.95                   | 20.248            |                            |
| 7,600.00                                                                         | 7,535.40            | 7,508.38            | 7,484.87            | 30.61           | 26.66       | -169.70               | -125.85                           | 307.42     | 1,082.55             | 1,029.18              | 53.37                   | 20.284            |                            |
| 7,650.00                                                                         | 7,584.69            | 7,540.51            | 7,533.68            | 30.85           | 26.77       | -169.70               | -127.18                           | 309.72     | 1,093.06             | 1,039.39              | 53.67                   | 20.366            |                            |
| 7,700.00                                                                         | 7,633.98            | 7,589.39            | 7,582.50            | 31.08           | 26.95       | -169.71               | -128.52                           | 312.01     | 1,103.57             | 1,049.54              | 54.03                   | 20.425            |                            |
| 7,750.00                                                                         | 7,683.27            | 7,638.28            | 7,631.31            | 31.31           | 27.13       | -169.71               | -129.85                           | 314.30     | 1,114.07             | 1,059.68              | 54.39                   | 20.482            |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 25H - Wellbore #1 - Permit Plan 2 |                           |                           |                           |                   |                |                             |                                        |              |                            |                             |                               |                      | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|----------------------------------------|--------------|----------------------------|-----------------------------|-------------------------------|----------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                       |                           |                           |                           |                   |                |                             |                                        |              |                            |                             |                               |                      | Offset Well Error: 0.50 ft |
| Reference                                                                        |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Toolface<br>(°) | Distance                               |              | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor | Warning                    |
| Measured<br>Depth<br>(ft)                                                        | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | Offset Wellbore Centre<br>+N/S<br>(ft) | +E/W<br>(ft) |                            |                             |                               |                      |                            |
| 7,800.00                                                                         | 7,732.56                  | 7,687.16                  | 7,680.12                  | 31.55             | 27.31          | -169.71                     | -131.18                                | 316.59       | 1,124.58                   | 1,069.83                    | 54.75                         | 20.538               |                            |
| 7,850.00                                                                         | 7,781.85                  | 7,736.04                  | 7,728.93                  | 31.78             | 27.49          | -169.71                     | -132.52                                | 318.89       | 1,135.09                   | 1,079.97                    | 55.12                         | 20.594               |                            |
| 7,900.00                                                                         | 7,831.14                  | 7,784.93                  | 7,777.74                  | 32.02             | 27.67          | -169.71                     | -133.85                                | 321.18       | 1,145.59                   | 1,090.12                    | 55.48                         | 20.649               |                            |
| 7,950.00                                                                         | 7,880.43                  | 7,833.81                  | 7,826.55                  | 32.25             | 27.85          | -169.72                     | -135.18                                | 323.47       | 1,156.10                   | 1,100.26                    | 55.84                         | 20.704               |                            |
| 8,000.00                                                                         | 7,929.72                  | 7,882.69                  | 7,875.37                  | 32.48             | 28.03          | -169.72                     | -136.51                                | 325.77       | 1,166.61                   | 1,110.41                    | 56.20                         | 20.757               |                            |
| 8,050.00                                                                         | 7,979.01                  | 7,931.58                  | 7,924.18                  | 32.72             | 28.21          | -169.72                     | -137.85                                | 328.06       | 1,177.12                   | 1,120.55                    | 56.57                         | 20.810               |                            |
| 8,100.00                                                                         | 8,028.31                  | 7,980.47                  | 7,973.00                  | 32.95             | 28.39          | -169.73                     | -139.18                                | 330.35       | 1,187.58                   | 1,130.66                    | 56.93                         | 20.861               |                            |
| 8,150.00                                                                         | 8,077.69                  | 8,029.46                  | 8,021.92                  | 33.18             | 28.57          | -169.75                     | -140.52                                | 332.65       | 1,197.55                   | 1,140.27                    | 57.29                         | 20.904               |                            |
| 8,200.00                                                                         | 8,127.17                  | 8,078.58                  | 8,070.97                  | 33.40             | 28.75          | -169.77                     | -141.86                                | 334.95       | 1,206.89                   | 1,149.24                    | 57.65                         | 20.934               |                            |
| 8,250.00                                                                         | 8,176.74                  | 8,127.82                  | 8,120.13                  | 33.62             | 28.94          | -169.78                     | -143.20                                | 337.26       | 1,215.60                   | 1,157.59                    | 58.01                         | 20.954               |                            |
| 8,300.00                                                                         | 8,226.39                  | 8,177.16                  | 8,169.40                  | 33.83             | 29.12          | -169.78                     | -144.54                                | 339.58       | 1,223.67                   | 1,165.30                    | 58.37                         | 20.963               |                            |
| 8,350.00                                                                         | 8,276.12                  | 8,226.60                  | 8,218.77                  | 34.03             | 29.30          | -169.78                     | -145.89                                | 341.90       | 1,231.10                   | 1,172.37                    | 58.73                         | 20.961               |                            |
| 8,400.00                                                                         | 8,325.90                  | 8,284.98                  | 8,277.06                  | 34.23             | 29.51          | -169.77                     | -147.42                                | 344.52       | 1,237.82                   | 1,178.66                    | 59.15                         | 20.926               |                            |
| 8,450.00                                                                         | 8,375.75                  | 8,353.45                  | 8,345.49                  | 34.42             | 29.76          | -169.76                     | -148.68                                | 346.70       | 1,243.25                   | 1,183.62                    | 59.63                         | 20.850               |                            |
| 8,500.00                                                                         | 8,425.64                  | 8,422.20                  | 8,414.23                  | 34.61             | 30.01          | -169.78                     | -149.34                                | 347.82       | 1,247.28                   | 1,187.19                    | 60.08                         | 20.757               |                            |
| 8,550.00                                                                         | 8,475.57                  | 8,482.54                  | 8,474.57                  | 34.78             | 30.21          | -169.81                     | -149.43                                | 347.98       | 1,249.99                   | 1,189.50                    | 60.49                         | 20.664               |                            |
| 8,600.00                                                                         | 8,525.53                  | 8,532.50                  | 8,524.53                  | 34.96             | 30.38          | -169.83                     | -149.43                                | 347.98       | 1,251.94                   | 1,191.10                    | 60.84                         | 20.577               |                            |
| 8,650.00                                                                         | 8,575.51                  | 8,582.49                  | 8,574.51                  | 35.12             | 30.55          | -169.84                     | -149.43                                | 347.98       | 1,253.25                   | 1,192.06                    | 61.19                         | 20.483               |                            |
| 8,700.00                                                                         | 8,625.51                  | 8,632.48                  | 8,624.51                  | 35.28             | 30.72          | -169.85                     | -149.43                                | 347.98       | 1,253.91                   | 1,192.38                    | 61.53                         | 20.378               |                            |
| 8,750.00                                                                         | 8,675.51                  | 8,682.48                  | 8,674.51                  | 35.44             | 30.89          | 87.69                       | -149.43                                | 347.98       | 1,254.00                   | 1,192.13                    | 61.87                         | 20.268               |                            |
| 8,800.00                                                                         | 8,725.51                  | 8,732.48                  | 8,724.51                  | 35.59             | 31.06          | 87.69                       | -149.43                                | 347.98       | 1,254.00                   | 1,191.79                    | 62.21                         | 20.157               |                            |
| 8,850.00                                                                         | 8,775.51                  | 8,782.48                  | 8,774.51                  | 35.74             | 31.23          | 87.69                       | -149.43                                | 347.98       | 1,254.00                   | 1,191.45                    | 62.55                         | 20.048               |                            |
| 8,854.82                                                                         | 8,780.33                  | 8,787.30                  | 8,779.33                  | 35.75             | 31.25          | 87.69                       | -149.43                                | 347.98       | 1,254.00                   | 1,191.42                    | 62.58                         | 20.038               |                            |
| 8,900.00                                                                         | 8,825.51                  | 8,830.65                  | 8,822.67                  | 35.89             | 31.40          | 87.67                       | -149.06                                | 347.98       | 1,254.02                   | 1,191.14                    | 62.88                         | 19.943               |                            |
| 8,950.00                                                                         | 8,875.51                  | 8,876.31                  | 8,868.18                  | 36.04             | 31.55          | 87.51                       | -145.60                                | 347.98       | 1,254.18                   | 1,190.99                    | 63.19                         | 19.849               |                            |
| 9,000.00                                                                         | 8,925.51                  | 8,921.13                  | 8,912.47                  | 36.19             | 31.69          | 87.20                       | -138.69                                | 347.98       | 1,254.54                   | 1,191.06                    | 63.48                         | 19.763               |                            |
| 9,050.00                                                                         | 8,975.51                  | 8,964.63                  | 8,954.78                  | 36.34             | 31.82          | 86.74                       | -128.69                                | 347.98       | 1,255.16                   | 1,191.41                    | 63.76                         | 19.687               |                            |
| 9,100.00                                                                         | 9,025.50                  | 9,006.51                  | 8,994.70                  | 36.49             | 31.94          | 86.51                       | -116.07                                | 347.98       | 1,256.11                   | 1,192.10                    | 64.01                         | 19.622               |                            |
| 9,150.00                                                                         | 9,075.31                  | 9,047.50                  | 9,032.78                  | 36.64             | 32.05          | 85.85                       | -100.91                                | 347.98       | 1,257.25                   | 1,192.99                    | 64.25                         | 19.567               |                            |
| 9,200.00                                                                         | 9,124.55                  | 9,087.83                  | 9,069.10                  | 36.78             | 32.15          | 85.23                       | -83.38                                 | 347.98       | 1,258.50                   | 1,194.03                    | 64.47                         | 19.520               |                            |
| 9,250.00                                                                         | 9,172.87                  | 9,127.59                  | 9,103.60                  | 36.90             | 32.24          | 84.63                       | -63.65                                 | 347.98       | 1,259.84                   | 1,195.17                    | 64.68                         | 19.479               |                            |
| 9,300.00                                                                         | 9,219.88                  | 9,166.83                  | 9,136.23                  | 37.02             | 32.33          | 84.06                       | -41.87                                 | 347.98       | 1,261.24                   | 1,196.38                    | 64.86                         | 19.444               |                            |
| 9,350.00                                                                         | 9,265.24                  | 9,205.62                  | 9,166.95                  | 37.12             | 32.40          | 83.53                       | -18.20                                 | 347.98       | 1,262.67                   | 1,197.63                    | 65.04                         | 19.414               |                            |
| 9,400.00                                                                         | 9,308.60                  | 9,244.01                  | 9,195.71                  | 37.21             | 32.47          | 83.05                       | 7.23                                   | 347.98       | 1,264.09                   | 1,198.88                    | 65.21                         | 19.386               |                            |
| 9,450.00                                                                         | 9,349.62                  | 9,282.06                  | 9,222.47                  | 37.29             | 32.53          | 82.60                       | 34.27                                  | 347.98       | 1,265.47                   | 1,200.11                    | 65.37                         | 19.360               |                            |
| 9,500.00                                                                         | 9,387.99                  | 9,319.81                  | 9,247.18                  | 37.36             | 32.58          | 82.20                       | 62.79                                  | 347.98       | 1,266.79                   | 1,201.27                    | 65.52                         | 19.333               |                            |
| 9,550.00                                                                         | 9,423.43                  | 9,357.31                  | 9,269.82                  | 37.42             | 32.63          | 81.84                       | 92.68                                  | 347.98       | 1,268.03                   | 1,202.34                    | 65.69                         | 19.304               |                            |
| 9,600.00                                                                         | 9,455.66                  | 9,394.60                  | 9,290.35                  | 37.48             | 32.71          | 81.54                       | 123.80                                 | 347.98       | 1,269.15                   | 1,203.29                    | 65.86                         | 19.271               |                            |
| 9,650.00                                                                         | 9,484.44                  | 9,431.72                  | 9,308.73                  | 37.53             | 32.84          | 81.28                       | 156.04                                 | 347.98       | 1,270.14                   | 1,204.10                    | 66.04                         | 19.232               |                            |
| 9,700.00                                                                         | 9,509.55                  | 9,468.70                  | 9,324.93                  | 37.58             | 32.98          | 81.08                       | 189.29                                 | 347.98       | 1,270.99                   | 1,204.74                    | 66.24                         | 19.186               |                            |
| 9,750.00                                                                         | 9,530.80                  | 9,505.60                  | 9,338.92                  | 37.63             | 33.12          | 80.93                       | 223.42                                 | 347.98       | 1,271.68                   | 1,205.21                    | 66.47                         | 19.133               |                            |
| 9,800.00                                                                         | 9,548.02                  | 9,542.43                  | 9,350.66                  | 37.69             | 33.27          | 80.84                       | 258.32                                 | 347.98       | 1,272.19                   | 1,205.48                    | 66.71                         | 19.069               |                            |
| 9,850.00                                                                         | 9,561.08                  | 9,579.24                  | 9,360.14                  | 37.77             | 33.42          | 80.80                       | 293.89                                 | 347.98       | 1,272.53                   | 1,205.54                    | 66.99                         | 18.996               |                            |
| 9,900.00                                                                         | 9,569.90                  | 9,616.06                  | 9,367.31                  | 37.86             | 33.58          | 80.82                       | 330.00                                 | 347.98       | 1,272.69                   | 1,205.40                    | 67.29                         | 18.912               |                            |
| 9,950.00                                                                         | 9,574.38                  | 9,652.93                  | 9,372.16                  | 37.97             | 33.75          | 80.89                       | 366.54                                 | 347.98       | 1,272.68                   | 1,205.05                    | 67.63                         | 18.819               |                            |
| 9,986.52                                                                         | 9,575.54                  | 9,687.32                  | 9,374.55                  | 38.10             | 33.92          | 80.96                       | 400.84                                 | 347.98       | 1,272.64                   | 1,204.68                    | 67.96                         | 18.726               |                            |
| 10,000.00                                                                        | 9,575.00                  | 9,689.90                  | 9,374.65                  | 38.11             | 33.93          | 80.99                       | 403.41                                 | 347.98       | 1,272.56                   | 1,204.57                    | 67.99                         | 18.717               |                            |
| 10,050.00                                                                        | 9,575.00                  | 9,732.90                  | 9,375.00                  | 38.28             | 34.15          | 81.00                       | 446.41                                 | 347.98       | 1,272.80                   | 1,204.38                    | 68.42                         | 18.602               |                            |
| 10,100.00                                                                        | 9,575.00                  | 9,782.90                  | 9,375.00                  | 38.47             | 34.42          | 81.01                       | 496.41                                 | 347.98       | 1,273.12                   | 1,204.21                    | 68.91                         | 18.475               |                            |
| 10,150.00                                                                        | 9,575.00                  | 9,832.90                  | 9,375.00                  | 38.69             | 34.71          | 81.01                       | 546.41                                 | 347.98       | 1,273.44                   | 1,203.97                    | 69.48                         | 18.329               |                            |
| 10,200.00                                                                        | 9,575.00                  | 9,882.89                  | 9,375.00                  | 38.94             | 35.03          | 81.01                       | 596.41                                 | 347.98       | 1,273.76                   | 1,203.70                    | 70.06                         | 18.181               |                            |
| 10,250.00                                                                        | 9,575.00                  | 9,932.89                  | 9,375.00                  | 39.21             | 35.37          | 81.01                       | 646.41                                 | 347.98       | 1,274.08                   | 1,203.36                    | 70.72                         | 18.017               |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 25H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                      |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                      |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             |                      | Distance                          |            |                      |                       |                         |                   | Warning                    |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toeface (") | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 10,300.00                                                                        | 9,575.00            | 9,982.89            | 9,375.00            | 39.51           | 35.72       | 81.02                | 696.41                            | 347.98     | 1,274.40             | 1,203.01              | 71.39                   | 17.851            |                            |
| 10,350.00                                                                        | 9,575.00            | 10,032.89           | 9,375.00            | 39.84           | 36.11       | 81.02                | 746.40                            | 347.98     | 1,274.72             | 1,202.58              | 72.13                   | 17.672            |                            |
| 10,400.00                                                                        | 9,575.00            | 10,082.89           | 9,375.00            | 40.18           | 36.51       | 81.02                | 796.40                            | 347.98     | 1,275.04             | 1,202.14              | 72.89                   | 17.492            |                            |
| 10,450.00                                                                        | 9,575.00            | 10,132.89           | 9,375.00            | 40.55           | 36.93       | 81.02                | 846.40                            | 347.98     | 1,275.35             | 1,201.63              | 73.72                   | 17.300            |                            |
| 10,500.00                                                                        | 9,575.00            | 10,182.89           | 9,375.00            | 40.94           | 37.37       | 81.03                | 896.40                            | 347.98     | 1,275.67             | 1,201.11              | 74.56                   | 17.109            |                            |
| 10,550.00                                                                        | 9,575.00            | 10,232.89           | 9,375.00            | 41.36           | 37.84       | 81.03                | 946.40                            | 347.98     | 1,275.99             | 1,200.53              | 75.47                   | 16.908            |                            |
| 10,600.00                                                                        | 9,575.00            | 10,282.89           | 9,375.00            | 41.78           | 38.31       | 81.03                | 996.40                            | 347.98     | 1,276.31             | 1,199.93              | 76.38                   | 16.710            |                            |
| 10,650.00                                                                        | 9,575.00            | 10,332.89           | 9,375.00            | 42.24           | 38.81       | 81.03                | 1,046.40                          | 347.98     | 1,276.63             | 1,199.27              | 77.36                   | 16.503            |                            |
| 10,700.00                                                                        | 9,575.00            | 10,382.88           | 9,375.00            | 42.70           | 39.32       | 81.03                | 1,096.40                          | 347.98     | 1,276.95             | 1,198.60              | 78.34                   | 16.296            |                            |
| 10,750.00                                                                        | 9,575.00            | 10,432.88           | 9,375.00            | 43.19           | 39.85       | 81.04                | 1,146.40                          | 347.98     | 1,277.27             | 1,197.88              | 79.39                   | 16.089            |                            |
| 10,800.00                                                                        | 9,575.00            | 10,482.88           | 9,375.00            | 43.69           | 40.40       | 81.04                | 1,196.40                          | 347.98     | 1,277.59             | 1,197.15              | 80.44                   | 15.883            |                            |
| 10,850.00                                                                        | 9,575.00            | 10,532.88           | 9,375.00            | 44.21           | 40.96       | 81.04                | 1,246.39                          | 347.98     | 1,277.90             | 1,196.36              | 81.54                   | 15.672            |                            |
| 10,900.00                                                                        | 9,575.00            | 10,582.88           | 9,375.00            | 44.74           | 41.53       | 81.04                | 1,296.39                          | 347.98     | 1,278.22             | 1,195.57              | 82.65                   | 15.465            |                            |
| 10,950.00                                                                        | 9,575.00            | 10,632.88           | 9,375.00            | 45.29           | 42.12       | 81.05                | 1,346.39                          | 347.98     | 1,278.54             | 1,194.73              | 83.81                   | 15.254            |                            |
| 11,000.00                                                                        | 9,575.00            | 10,682.88           | 9,375.00            | 45.85           | 42.72       | 81.05                | 1,396.39                          | 347.98     | 1,278.86             | 1,193.88              | 84.98                   | 15.048            |                            |
| 11,050.00                                                                        | 9,575.00            | 10,732.88           | 9,375.00            | 46.43           | 43.34       | 81.05                | 1,446.39                          | 347.98     | 1,279.18             | 1,192.98              | 86.19                   | 14.841            |                            |
| 11,100.00                                                                        | 9,575.00            | 10,782.88           | 9,375.00            | 47.01           | 43.96       | 81.05                | 1,496.39                          | 347.98     | 1,279.50             | 1,192.08              | 87.41                   | 14.637            |                            |
| 11,150.00                                                                        | 9,575.00            | 10,832.88           | 9,375.00            | 47.61           | 44.60       | 81.05                | 1,546.39                          | 347.98     | 1,279.82             | 1,191.14              | 88.67                   | 14.433            |                            |
| 11,200.00                                                                        | 9,575.00            | 10,882.87           | 9,375.00            | 48.22           | 45.25       | 81.06                | 1,596.39                          | 347.98     | 1,280.13             | 1,190.19              | 89.94                   | 14.233            |                            |
| 11,250.00                                                                        | 9,575.00            | 10,932.87           | 9,375.00            | 48.85           | 45.91       | 81.06                | 1,646.39                          | 347.98     | 1,280.45             | 1,189.21              | 91.24                   | 14.033            |                            |
| 11,300.00                                                                        | 9,575.00            | 10,982.87           | 9,375.00            | 49.48           | 46.58       | 81.06                | 1,696.38                          | 347.98     | 1,280.77             | 1,188.22              | 92.55                   | 13.838            |                            |
| 11,350.00                                                                        | 9,575.00            | 11,032.87           | 9,375.00            | 50.13           | 47.27       | 81.06                | 1,746.38                          | 347.98     | 1,281.09             | 1,187.19              | 93.90                   | 13.644            |                            |
| 11,400.00                                                                        | 9,575.00            | 11,082.87           | 9,375.00            | 50.78           | 47.95       | 81.07                | 1,796.38                          | 347.98     | 1,281.41             | 1,186.16              | 95.25                   | 13.454            |                            |
| 11,450.00                                                                        | 9,575.00            | 11,132.87           | 9,375.00            | 51.45           | 48.66       | 81.07                | 1,846.38                          | 347.98     | 1,281.73             | 1,185.10              | 96.63                   | 13.265            |                            |
| 11,500.00                                                                        | 9,575.00            | 11,182.87           | 9,375.00            | 52.12           | 49.36       | 81.07                | 1,896.38                          | 347.98     | 1,282.05             | 1,184.03              | 98.01                   | 13.080            |                            |
| 11,550.00                                                                        | 9,575.00            | 11,232.87           | 9,375.00            | 52.80           | 50.08       | 81.07                | 1,946.38                          | 347.98     | 1,282.37             | 1,182.94              | 99.43                   | 12.898            |                            |
| 11,600.00                                                                        | 9,575.00            | 11,282.87           | 9,375.00            | 53.49           | 50.80       | 81.07                | 1,996.38                          | 347.98     | 1,282.68             | 1,181.84              | 100.85                  | 12.719            |                            |
| 11,650.00                                                                        | 9,575.00            | 11,332.86           | 9,375.00            | 54.19           | 51.54       | 81.08                | 2,046.38                          | 347.98     | 1,283.00             | 1,180.71              | 102.29                  | 12.543            |                            |
| 11,700.00                                                                        | 9,575.00            | 11,382.86           | 9,375.00            | 54.89           | 52.27       | 81.08                | 2,096.38                          | 347.98     | 1,283.32             | 1,179.58              | 103.74                  | 12.370            |                            |
| 11,750.00                                                                        | 9,575.00            | 11,432.86           | 9,375.00            | 55.61           | 53.02       | 81.08                | 2,146.38                          | 347.98     | 1,283.64             | 1,178.42              | 105.22                  | 12.200            |                            |
| 11,800.00                                                                        | 9,575.00            | 11,482.86           | 9,375.00            | 56.33           | 53.77       | 81.08                | 2,196.37                          | 347.98     | 1,283.96             | 1,177.26              | 106.70                  | 12.034            |                            |
| 11,850.00                                                                        | 9,575.00            | 11,532.86           | 9,375.00            | 57.06           | 54.53       | 81.09                | 2,246.37                          | 347.98     | 1,284.28             | 1,176.08              | 108.20                  | 11.870            |                            |
| 11,900.00                                                                        | 9,575.00            | 11,582.86           | 9,375.00            | 57.80           | 55.30       | 81.09                | 2,296.37                          | 347.98     | 1,284.60             | 1,174.90              | 109.70                  | 11.710            |                            |
| 11,950.00                                                                        | 9,575.00            | 11,632.86           | 9,375.00            | 58.54           | 56.07       | 81.09                | 2,346.37                          | 347.98     | 1,284.92             | 1,173.69              | 111.22                  | 11.552            |                            |
| 12,000.00                                                                        | 9,575.00            | 11,682.86           | 9,375.00            | 59.29           | 56.85       | 81.09                | 2,396.37                          | 347.98     | 1,285.24             | 1,172.48              | 112.75                  | 11.399            |                            |
| 12,050.00                                                                        | 9,575.00            | 11,732.86           | 9,375.00            | 60.04           | 57.63       | 81.09                | 2,446.37                          | 347.98     | 1,285.55             | 1,171.25              | 114.30                  | 11.247            |                            |
| 12,100.00                                                                        | 9,575.00            | 11,782.86           | 9,375.00            | 60.80           | 58.42       | 81.10                | 2,496.37                          | 347.98     | 1,285.87             | 1,170.02              | 115.85                  | 11.099            |                            |
| 12,150.00                                                                        | 9,575.00            | 11,832.85           | 9,375.00            | 61.57           | 59.21       | 81.10                | 2,546.37                          | 347.98     | 1,286.19             | 1,168.77              | 117.42                  | 10.954            |                            |
| 12,200.00                                                                        | 9,575.00            | 11,882.85           | 9,375.00            | 62.34           | 60.01       | 81.10                | 2,596.37                          | 347.98     | 1,286.51             | 1,167.52              | 118.99                  | 10.812            |                            |
| 12,250.00                                                                        | 9,575.00            | 11,932.85           | 9,375.00            | 63.11           | 60.81       | 81.10                | 2,646.37                          | 347.98     | 1,286.83             | 1,166.25              | 120.57                  | 10.673            |                            |
| 12,300.00                                                                        | 9,575.00            | 11,982.85           | 9,375.00            | 63.89           | 61.62       | 81.11                | 2,696.36                          | 347.98     | 1,287.15             | 1,164.98              | 122.16                  | 10.536            |                            |
| 12,350.00                                                                        | 9,575.00            | 12,032.85           | 9,375.00            | 64.68           | 62.43       | 81.11                | 2,746.36                          | 347.98     | 1,287.47             | 1,163.70              | 123.77                  | 10.402            |                            |
| 12,400.00                                                                        | 9,575.00            | 12,082.85           | 9,375.00            | 65.47           | 63.25       | 81.11                | 2,796.36                          | 347.98     | 1,287.79             | 1,162.41              | 125.37                  | 10.272            |                            |
| 12,450.00                                                                        | 9,575.00            | 12,132.85           | 9,375.00            | 66.27           | 64.07       | 81.11                | 2,846.36                          | 347.98     | 1,288.10             | 1,161.11              | 126.99                  | 10.143            |                            |
| 12,500.00                                                                        | 9,575.00            | 12,182.85           | 9,375.00            | 67.06           | 64.89       | 81.11                | 2,896.36                          | 347.98     | 1,288.42             | 1,159.81              | 128.62                  | 10.018            |                            |
| 12,550.00                                                                        | 9,575.00            | 12,232.85           | 9,375.00            | 67.87           | 65.72       | 81.12                | 2,946.36                          | 347.98     | 1,288.74             | 1,158.49              | 130.25                  | 9.894             |                            |
| 12,600.00                                                                        | 9,575.00            | 12,282.84           | 9,375.00            | 68.68           | 66.55       | 81.12                | 2,996.36                          | 347.98     | 1,289.06             | 1,157.17              | 131.89                  | 9.774             |                            |
| 12,650.00                                                                        | 9,575.00            | 12,332.84           | 9,375.00            | 69.49           | 67.38       | 81.12                | 3,046.36                          | 347.98     | 1,289.38             | 1,155.84              | 133.54                  | 9.656             |                            |
| 12,700.00                                                                        | 9,575.00            | 12,382.84           | 9,375.00            | 70.30           | 68.22       | 81.12                | 3,096.36                          | 347.98     | 1,289.70             | 1,154.51              | 135.19                  | 9.540             |                            |
| 12,750.00                                                                        | 9,575.00            | 12,432.84           | 9,375.00            | 71.12           | 69.06       | 81.13                | 3,146.35                          | 347.98     | 1,290.02             | 1,153.17              | 136.85                  | 9.426             |                            |
| 12,800.00                                                                        | 9,575.00            | 12,482.84           | 9,375.00            | 71.94           | 69.90       | 81.13                | 3,196.35                          | 347.98     | 1,290.34             | 1,151.82              | 138.51                  | 9.316             |                            |
| 12,850.00                                                                        | 9,575.00            | 12,532.84           | 9,375.00            | 72.77           | 70.75       | 81.13                | 3,246.35                          | 347.98     | 1,290.65             | 1,150.47              | 140.19                  | 9.207             |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 25H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                    |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 12,900.00                                                                        | 9,575.00            | 12,582.84           | 9,375.00            | 73.60           | 71.59       | 81.13                 | 3,296.35                          | 347.98     | 1,290.97             | 1,149.11              | 141.86                  | 9.100             |                            |
| 12,950.00                                                                        | 9,575.00            | 12,632.84           | 9,375.00            | 74.43           | 72.45       | 81.13                 | 3,346.35                          | 347.98     | 1,291.29             | 1,147.74              | 143.55                  | 8.995             |                            |
| 13,000.00                                                                        | 9,575.00            | 12,682.84           | 9,375.00            | 75.26           | 73.30       | 81.14                 | 3,396.35                          | 347.98     | 1,291.61             | 1,146.37              | 145.24                  | 8.893             |                            |
| 13,050.00                                                                        | 9,575.00            | 12,732.84           | 9,375.00            | 76.10           | 74.16       | 81.14                 | 3,446.35                          | 347.98     | 1,291.93             | 1,145.00              | 146.93                  | 8.793             |                            |
| 13,100.00                                                                        | 9,575.00            | 12,782.83           | 9,375.00            | 76.94           | 75.02       | 81.14                 | 3,496.35                          | 347.98     | 1,292.25             | 1,143.62              | 148.63                  | 8.694             |                            |
| 13,150.00                                                                        | 9,575.00            | 12,832.83           | 9,375.00            | 77.79           | 75.88       | 81.14                 | 3,546.35                          | 347.98     | 1,292.57             | 1,142.23              | 150.33                  | 8.598             |                            |
| 13,200.00                                                                        | 9,575.00            | 12,882.83           | 9,375.00            | 78.63           | 76.74       | 81.15                 | 3,596.35                          | 347.98     | 1,292.89             | 1,140.84              | 152.04                  | 8.504             |                            |
| 13,250.00                                                                        | 9,575.00            | 12,932.83           | 9,375.00            | 79.48           | 77.61       | 81.15                 | 3,646.34                          | 347.98     | 1,293.20             | 1,139.45              | 153.76                  | 8.411             |                            |
| 13,300.00                                                                        | 9,575.00            | 12,982.83           | 9,375.00            | 80.33           | 78.48       | 81.15                 | 3,696.34                          | 347.98     | 1,293.52             | 1,138.05              | 155.47                  | 8.320             |                            |
| 13,350.00                                                                        | 9,575.00            | 13,032.83           | 9,375.00            | 81.19           | 79.35       | 81.15                 | 3,746.34                          | 347.98     | 1,293.84             | 1,136.65              | 157.19                  | 8.231             |                            |
| 13,400.00                                                                        | 9,575.00            | 13,082.83           | 9,375.00            | 82.04           | 80.22       | 81.15                 | 3,796.34                          | 347.98     | 1,294.16             | 1,135.24              | 158.92                  | 8.144             |                            |
| 13,450.00                                                                        | 9,575.00            | 13,132.83           | 9,375.00            | 82.90           | 81.10       | 81.16                 | 3,846.34                          | 347.98     | 1,294.48             | 1,133.83              | 160.65                  | 8.058             |                            |
| 13,500.00                                                                        | 9,575.00            | 13,182.83           | 9,375.00            | 83.76           | 81.97       | 81.16                 | 3,896.34                          | 347.98     | 1,294.80             | 1,132.42              | 162.38                  | 7.974             |                            |
| 13,550.00                                                                        | 9,575.00            | 13,232.83           | 9,375.00            | 84.62           | 82.85       | 81.16                 | 3,946.34                          | 347.98     | 1,295.12             | 1,131.00              | 164.12                  | 7.891             |                            |
| 13,600.00                                                                        | 9,575.00            | 13,282.82           | 9,375.00            | 85.49           | 83.73       | 81.16                 | 3,996.34                          | 347.98     | 1,295.44             | 1,129.58              | 165.86                  | 7.810             |                            |
| 13,650.00                                                                        | 9,575.00            | 13,332.82           | 9,375.00            | 86.35           | 84.61       | 81.17                 | 4,046.34                          | 347.98     | 1,295.76             | 1,128.15              | 167.60                  | 7.731             |                            |
| 13,700.00                                                                        | 9,575.00            | 13,382.82           | 9,375.00            | 87.22           | 85.49       | 81.17                 | 4,096.33                          | 347.98     | 1,296.07             | 1,126.72              | 169.35                  | 7.653             |                            |
| 13,750.00                                                                        | 9,575.00            | 13,432.82           | 9,375.00            | 88.09           | 86.38       | 81.17                 | 4,146.33                          | 347.98     | 1,296.39             | 1,125.29              | 171.10                  | 7.577             |                            |
| 13,800.00                                                                        | 9,575.00            | 13,482.82           | 9,375.00            | 88.96           | 87.27       | 81.17                 | 4,196.33                          | 347.98     | 1,296.71             | 1,123.86              | 172.86                  | 7.502             |                            |
| 13,850.00                                                                        | 9,575.00            | 13,532.82           | 9,375.00            | 89.84           | 88.15       | 81.17                 | 4,246.33                          | 347.98     | 1,297.03             | 1,122.42              | 174.61                  | 7.428             |                            |
| 13,900.00                                                                        | 9,575.00            | 13,582.82           | 9,375.00            | 90.71           | 89.04       | 81.18                 | 4,296.33                          | 347.98     | 1,297.35             | 1,120.98              | 176.37                  | 7.356             |                            |
| 13,950.00                                                                        | 9,575.00            | 13,632.82           | 9,375.00            | 91.59           | 89.93       | 81.18                 | 4,346.33                          | 347.98     | 1,297.67             | 1,119.53              | 178.14                  | 7.285             |                            |
| 14,000.00                                                                        | 9,575.00            | 13,682.82           | 9,375.00            | 92.47           | 90.83       | 81.18                 | 4,396.33                          | 347.98     | 1,297.99             | 1,118.08              | 179.90                  | 7.215             |                            |
| 14,050.00                                                                        | 9,575.00            | 13,732.81           | 9,375.00            | 93.35           | 91.72       | 81.18                 | 4,446.33                          | 347.98     | 1,298.31             | 1,116.63              | 181.67                  | 7.146             |                            |
| 14,100.00                                                                        | 9,575.00            | 13,782.81           | 9,375.00            | 94.23           | 92.61       | 81.19                 | 4,496.33                          | 347.98     | 1,298.63             | 1,115.18              | 183.44                  | 7.079             |                            |
| 14,150.00                                                                        | 9,575.00            | 13,832.81           | 9,375.00            | 95.12           | 93.51       | 81.19                 | 4,546.33                          | 347.98     | 1,298.94             | 1,113.73              | 185.22                  | 7.013             |                            |
| 14,200.00                                                                        | 9,575.00            | 13,885.15           | 9,375.00            | 96.00           | 93.91       | 81.19                 | 4,568.66                          | 347.98     | 1,299.56             | 1,113.31              | 186.25                  | 6.978             |                            |
| 14,250.00                                                                        | 9,575.00            | 13,855.15           | 9,375.00            | 96.89           | 93.91       | 81.19                 | 4,568.66                          | 347.98     | 1,301.90             | 1,115.40              | 186.50                  | 6.981             |                            |
| 14,300.00                                                                        | 9,575.00            | 13,855.15           | 9,375.00            | 97.78           | 93.91       | 81.19                 | 4,568.66                          | 347.98     | 1,306.15             | 1,119.64              | 186.51                  | 7.003             |                            |
| 14,350.00                                                                        | 9,575.00            | 13,855.15           | 9,375.00            | 98.67           | 93.91       | 81.19                 | 4,568.66                          | 347.98     | 1,312.30             | 1,126.01              | 186.30                  | 7.044             |                            |
| 14,400.00                                                                        | 9,575.00            | 13,855.15           | 9,375.00            | 99.56           | 93.91       | 81.19                 | 4,568.66                          | 347.98     | 1,320.31             | 1,134.46              | 185.85                  | 7.104             |                            |
| 14,450.00                                                                        | 9,575.00            | 13,855.15           | 9,375.00            | 100.45          | 93.91       | 81.19                 | 4,568.66                          | 347.98     | 1,330.16             | 1,144.96              | 185.20                  | 7.182             |                            |
| 14,477.32                                                                        | 9,575.00            | 13,855.15           | 9,375.00            | 100.94          | 93.91       | 81.19                 | 4,568.66                          | 347.98     | 1,336.30             | 1,151.54              | 184.75                  | 7.233             |                            |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design      Sec 08-T25S-R33E - Flagler 8 Fed 32H - Wellbore #1 - Permit Plan 2 |                           |                           |                           |                   |                |                             |                                         |               |                               |                      |                                   | Offset Site Error:         | 0.00 ft                     |
|---------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|-------------------------------|----------------------|-----------------------------------|----------------------------|-----------------------------|
| Survey Program:    0-MWD+IGRF                                                         |                           |                           |                           |                   |                |                             |                                         |               |                               |                      |                                   | Offset Well Error:         | 0.50 ft                     |
| Reference                                                                             |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Toolface<br>(°) | Distance                                |               | Minimum<br>Separation<br>(ft) | Separation<br>Factor | Warning                           |                            |                             |
| Measured<br>Depth<br>(ft)                                                             | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) |                               |                      |                                   | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) |
| 0.00                                                                                  | 0.00                      | 0.30                      | -0.30                     | 0.50              | 0.50           | 89.64                       | 0.19                                    | 29.99         | 29.99                         |                      |                                   |                            |                             |
| 50.00                                                                                 | 50.00                     | 49.70                     | 49.70                     | 0.50              | 0.50           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 28.98                | 1.01    29.799                    |                            |                             |
| 100.00                                                                                | 100.00                    | 100.30                    | 99.70                     | 0.52              | 0.52           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 28.95                | 1.04    28.954                    |                            |                             |
| 150.00                                                                                | 150.00                    | 149.70                    | 149.70                    | 0.59              | 0.59           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 28.81                | 1.18    25.418                    |                            |                             |
| 200.00                                                                                | 200.00                    | 200.30                    | 199.70                    | 0.70              | 0.70           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 28.59                | 1.40    21.346                    |                            |                             |
| 250.00                                                                                | 250.00                    | 249.70                    | 249.70                    | 0.84              | 0.84           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 28.32                | 1.67    17.910                    |                            |                             |
| 300.00                                                                                | 300.00                    | 300.30                    | 299.70                    | 0.99              | 0.99           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 28.02                | 1.98    15.181                    |                            |                             |
| 350.00                                                                                | 350.00                    | 349.70                    | 349.70                    | 1.15              | 1.14           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 27.70                | 2.29    13.096                    |                            |                             |
| 400.00                                                                                | 400.00                    | 400.30                    | 399.70                    | 1.31              | 1.31           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 27.37                | 2.62    11.450                    |                            |                             |
| 450.00                                                                                | 450.00                    | 449.70                    | 449.70                    | 1.48              | 1.48           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 27.04                | 2.95    10.161                    |                            |                             |
| 500.00                                                                                | 500.00                    | 500.30                    | 499.70                    | 1.65              | 1.65           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 26.70                | 3.29    9.107                     |                            |                             |
| 550.00                                                                                | 550.00                    | 549.70                    | 549.70                    | 1.82              | 1.82           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 26.36                | 3.63    8.252                     |                            |                             |
| 600.00                                                                                | 600.00                    | 600.30                    | 599.70                    | 1.99              | 1.99           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 26.01                | 3.98    7.531                     |                            |                             |
| 650.00                                                                                | 650.00                    | 649.70                    | 649.70                    | 2.16              | 2.16           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 25.66                | 4.33    6.929                     |                            |                             |
| 700.00                                                                                | 700.00                    | 700.30                    | 699.70                    | 2.34              | 2.34           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 25.31                | 4.68    6.409                     |                            |                             |
| 750.00                                                                                | 750.00                    | 749.70                    | 749.70                    | 2.51              | 2.51           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 24.96                | 5.03    5.964                     |                            |                             |
| 800.00                                                                                | 800.00                    | 800.30                    | 799.70                    | 2.69              | 2.69           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 24.61                | 5.38    5.572                     |                            |                             |
| 850.00                                                                                | 850.00                    | 849.70                    | 849.70                    | 2.87              | 2.87           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 24.26                | 5.73    5.231                     |                            |                             |
| 900.00                                                                                | 900.00                    | 900.30                    | 899.70                    | 3.04              | 3.04           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 23.90                | 6.09    4.926 Alert               |                            |                             |
| 950.00                                                                                | 950.00                    | 949.70                    | 949.70                    | 3.22              | 3.22           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 23.55                | 6.44    4.657 Alert               |                            |                             |
| 1,000.00                                                                              | 1,000.00                  | 1,000.30                  | 999.70                    | 3.40              | 3.40           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 23.19                | 6.80    4.413 Alert               |                            |                             |
| 1,050.00                                                                              | 1,050.00                  | 1,049.70                  | 1,049.70                  | 3.58              | 3.57           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 22.84                | 7.15    4.195 Alert               |                            |                             |
| 1,100.00                                                                              | 1,100.00                  | 1,100.30                  | 1,099.70                  | 3.75              | 3.75           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 22.48                | 7.51    3.995 Alert               |                            |                             |
| 1,150.00                                                                              | 1,150.00                  | 1,149.70                  | 1,149.70                  | 3.93              | 3.93           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 22.13                | 7.86    3.816 Alert               |                            |                             |
| 1,200.00                                                                              | 1,200.00                  | 1,200.30                  | 1,199.70                  | 4.11              | 4.11           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 21.77                | 8.22    3.650 Alert               |                            |                             |
| 1,250.00                                                                              | 1,250.00                  | 1,249.70                  | 1,249.70                  | 4.29              | 4.29           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 21.42                | 8.57    3.499 Alert               |                            |                             |
| 1,300.00                                                                              | 1,300.00                  | 1,300.30                  | 1,299.70                  | 4.46              | 4.47           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 21.06                | 8.93    3.359 Alert               |                            |                             |
| 1,350.00                                                                              | 1,350.00                  | 1,349.70                  | 1,349.70                  | 4.64              | 4.64           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 20.71                | 9.28    3.231 Alert               |                            |                             |
| 1,400.00                                                                              | 1,400.00                  | 1,400.30                  | 1,399.70                  | 4.82              | 4.82           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 20.35                | 9.64    3.110 Alert               |                            |                             |
| 1,450.00                                                                              | 1,450.00                  | 1,449.70                  | 1,449.70                  | 5.00              | 5.00           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 19.99                | 10.00    3.000 Alert              |                            |                             |
| 1,500.00                                                                              | 1,500.00                  | 1,500.30                  | 1,499.70                  | 5.18              | 5.18           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 19.64                | 10.36    2.896 Alert              |                            |                             |
| 1,550.00                                                                              | 1,550.00                  | 1,549.70                  | 1,549.70                  | 5.36              | 5.35           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 19.28                | 10.71    2.800 Alert              |                            |                             |
| 1,600.00                                                                              | 1,600.00                  | 1,600.30                  | 1,599.70                  | 5.53              | 5.54           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 18.92                | 11.07    2.709 Alert              |                            |                             |
| 1,650.00                                                                              | 1,650.00                  | 1,649.70                  | 1,649.70                  | 5.71              | 5.71           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 18.57                | 11.42    2.625 Alert              |                            |                             |
| 1,700.00                                                                              | 1,700.00                  | 1,700.30                  | 1,699.70                  | 5.89              | 5.89           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 18.21                | 11.78    2.545 Alert              |                            |                             |
| 1,750.00                                                                              | 1,750.00                  | 1,749.70                  | 1,749.70                  | 6.07              | 6.07           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 17.85                | 12.14    2.471 Minor Risk         |                            |                             |
| 1,800.00                                                                              | 1,800.00                  | 1,800.30                  | 1,799.70                  | 6.25              | 6.25           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 17.49                | 12.50    2.400 Minor Risk         |                            |                             |
| 1,850.00                                                                              | 1,850.00                  | 1,849.70                  | 1,849.70                  | 6.43              | 6.43           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 17.14                | 12.85    2.333 Minor Risk         |                            |                             |
| 1,900.00                                                                              | 1,900.00                  | 1,900.30                  | 1,899.70                  | 6.61              | 6.61           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 16.78                | 13.21    2.270 Minor Risk         |                            |                             |
| 1,950.00                                                                              | 1,950.00                  | 1,949.70                  | 1,949.70                  | 6.78              | 6.78           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 16.42                | 13.57    2.210 Minor Risk         |                            |                             |
| 2,000.00                                                                              | 2,000.00                  | 2,000.30                  | 1,999.70                  | 6.96              | 6.96           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 16.06                | 13.93    2.153 Minor Risk         |                            |                             |
| 2,050.00                                                                              | 2,050.00                  | 2,049.70                  | 2,049.70                  | 7.14              | 7.14           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 15.71                | 14.28    2.100 Minor Risk         |                            |                             |
| 2,100.00                                                                              | 2,100.00                  | 2,100.30                  | 2,099.70                  | 7.32              | 7.32           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 15.35                | 14.64    2.048 Minor Risk         |                            |                             |
| 2,150.00                                                                              | 2,150.00                  | 2,149.70                  | 2,149.70                  | 7.50              | 7.50           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 14.99                | 15.00    2.000 Minor Risk         |                            |                             |
| 2,200.00                                                                              | 2,200.00                  | 2,200.30                  | 2,199.70                  | 7.68              | 7.68           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 14.63                | 15.36    1.953 Minor Risk         |                            |                             |
| 2,250.00                                                                              | 2,250.00                  | 2,249.70                  | 2,249.70                  | 7.86              | 7.86           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 14.28                | 15.71    1.909 Minor Risk         |                            |                             |
| 2,300.00                                                                              | 2,300.00                  | 2,300.30                  | 2,299.70                  | 8.04              | 8.04           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 13.92                | 16.07    1.866 Minor Risk         |                            |                             |
| 2,350.00                                                                              | 2,350.00                  | 2,349.70                  | 2,349.70                  | 8.22              | 8.21           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 13.56                | 16.43    1.825 Minor Risk         |                            |                             |
| 2,400.00                                                                              | 2,400.00                  | 2,400.30                  | 2,399.70                  | 8.39              | 8.40           | 89.64                       | 0.19                                    | 29.99         | 29.99                         | 13.20                | 16.79    1.786 Minor Risk, CC     |                            |                             |
| 2,450.00                                                                              | 2,450.00                  | 2,449.70                  | 2,449.70                  | 8.57              | 8.57           | -167.99                     | 0.19                                    | 29.99         | 30.20                         | 13.06                | 17.14    1.762 Minor Risk, ES, SF |                            |                             |
| 2,500.00                                                                              | 2,499.99                  | 2,500.31                  | 2,499.69                  | 8.74              | 8.75           | -168.24                     | 0.19                                    | 29.99         | 30.84                         | 13.35                | 17.49    1.763 Minor Risk         |                            |                             |
| 2,550.00                                                                              | 2,549.98                  | 2,549.68                  | 2,549.68                  | 8.91              | 8.93           | -168.64                     | 0.19                                    | 29.99         | 31.91                         | 14.07                | 17.84    1.789 Minor Risk         |                            |                             |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 32H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                   |                    |                      |                       |                         |                   |            | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|--------------------|----------------------|-----------------------|-------------------------|-------------------|------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                       |                                   |                    |                      |                       |                         |                   |            | Offset Well Error: 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   | Minimum Separation |                      | Separation Factor     |                         | Warning           |            |                            |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft)         | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning    |                            |
| 2,600.00                                                                         | 2,599.96            | 2,600.34            | 2,599.66            | 9.08            | 9.11        | -169.15               | 0.19                              | 29.99              | 33.41                | 15.22                 | 18.19                   | 1.837             | Minor Risk |                            |
| 2,650.00                                                                         | 2,649.92            | 2,649.62            | 2,649.62            | 9.25            | 9.29        | -169.75               | 0.19                              | 29.99              | 35.34                | 16.81                 | 18.53                   | 1.907             | Minor Risk |                            |
| 2,700.00                                                                         | 2,699.86            | 2,700.44            | 2,699.56            | 9.42            | 9.47        | -170.39               | 0.19                              | 29.99              | 37.70                | 18.82                 | 18.89                   | 1.996             | Minor Risk |                            |
| 2,750.00                                                                         | 2,749.78            | 2,749.48            | 2,749.48            | 9.59            | 9.65        | -171.06               | 0.19                              | 29.99              | 40.50                | 21.27                 | 19.23                   | 2.106             | Minor Risk |                            |
| 2,800.00                                                                         | 2,799.68            | 2,800.62            | 2,799.38            | 9.76            | 9.83        | -171.72               | 0.19                              | 29.99              | 43.74                | 24.15                 | 19.58                   | 2.233             | Minor Risk |                            |
| 2,850.00                                                                         | 2,849.54            | 2,849.24            | 2,849.24            | 9.94            | 10.00       | -172.36               | 0.19                              | 29.99              | 47.41                | 27.48                 | 19.93                   | 2.379             | Minor Risk |                            |
| 2,900.00                                                                         | 2,899.37            | 2,900.93            | 2,899.07            | 10.11           | 10.19       | -172.96               | 0.19                              | 29.99              | 51.51                | 31.23                 | 20.28                   | 2.539             | Alert      |                            |
| 2,950.00                                                                         | 2,949.16            | 2,948.86            | 2,948.86            | 10.29           | 10.36       | -173.53               | 0.19                              | 29.99              | 56.06                | 35.43                 | 20.63                   | 2.718             | Alert      |                            |
| 3,000.00                                                                         | 2,998.90            | 2,998.60            | 2,998.60            | 10.46           | 10.54       | -174.06               | 0.19                              | 29.99              | 61.04                | 40.06                 | 20.98                   | 2.910             | Alert      |                            |
| 3,050.00                                                                         | 3,048.61            | 3,048.87            | 3,048.87            | 10.64           | 10.71       | -174.52               | 0.13                              | 29.79              | 66.25                | 44.93                 | 21.32                   | 3.107             | Alert      |                            |
| 3,100.00                                                                         | 3,098.26            | 3,099.19            | 3,099.18            | 10.82           | 10.89       | -174.89               | -0.04                             | 29.16              | 71.47                | 49.80                 | 21.67                   | 3.299             | Alert      |                            |
| 3,150.00                                                                         | 3,147.86            | 3,149.56            | 3,149.54            | 11.00           | 11.06       | -175.19               | -0.34                             | 28.11              | 76.69                | 54.68                 | 22.00                   | 3.485             | Alert      |                            |
| 3,200.00                                                                         | 3,197.40            | 3,199.98            | 3,199.94            | 11.18           | 11.23       | -175.43               | -0.75                             | 26.63              | 81.91                | 59.57                 | 22.34                   | 3.666             | Alert      |                            |
| 3,250.00                                                                         | 3,246.89            | 3,250.44            | 3,250.36            | 11.37           | 11.40       | -175.63               | -1.29                             | 24.72              | 87.13                | 64.45                 | 22.68                   | 3.842             | Alert      |                            |
| 3,300.00                                                                         | 3,296.30            | 3,300.95            | 3,300.81            | 11.56           | 11.57       | -175.80               | -1.95                             | 22.38              | 92.35                | 69.33                 | 23.01                   | 4.013             | Alert      |                            |
| 3,350.00                                                                         | 3,345.65            | 3,351.51            | 3,351.29            | 11.75           | 11.74       | -175.92               | -2.73                             | 19.61              | 97.57                | 74.22                 | 23.35                   | 4.178             | Alert      |                            |
| 3,400.00                                                                         | 3,394.95            | 3,402.12            | 3,401.79            | 11.94           | 11.91       | -176.02               | -3.63                             | 16.41              | 102.68               | 79.00                 | 23.69                   | 4.335             | Alert      |                            |
| 3,450.00                                                                         | 3,444.24            | 3,452.82            | 3,452.35            | 12.13           | 12.09       | -176.09               | -4.65                             | 12.77              | 107.38               | 83.36                 | 24.02                   | 4.471             | Alert      |                            |
| 3,500.00                                                                         | 3,493.53            | 3,503.60            | 3,502.96            | 12.33           | 12.26       | -176.12               | -5.80                             | 8.70               | 111.65               | 87.29                 | 24.35                   | 4.584             | Alert      |                            |
| 3,550.00                                                                         | 3,542.82            | 3,554.46            | 3,553.59            | 12.53           | 12.44       | -176.11               | -7.07                             | 4.18               | 115.47               | 90.79                 | 24.69                   | 4.677             | Alert      |                            |
| 3,600.00                                                                         | 3,592.11            | 3,604.96            | 3,603.84            | 12.72           | 12.62       | -176.09               | -8.44                             | -0.69              | 118.90               | 93.87                 | 25.03                   | 4.751             | Alert      |                            |
| 3,650.00                                                                         | 3,641.40            | 3,654.84            | 3,653.46            | 12.92           | 12.79       | -176.06               | -9.82                             | -5.59              | 122.24               | 96.87                 | 25.37                   | 4.818             | Alert      |                            |
| 3,700.00                                                                         | 3,690.69            | 3,704.73            | 3,703.09            | 13.12           | 12.97       | -176.03               | -11.19                            | -10.48             | 125.58               | 99.86                 | 25.72                   | 4.883             | Alert      |                            |
| 3,750.00                                                                         | 3,739.99            | 3,754.62            | 3,752.72            | 13.33           | 13.14       | -176.01               | -12.57                            | -15.38             | 128.92               | 102.86                | 26.07                   | 4.946             | Alert      |                            |
| 3,800.00                                                                         | 3,789.28            | 3,804.51            | 3,802.35            | 13.53           | 13.32       | -175.98               | -13.95                            | -20.27             | 132.27               | 105.85                | 26.41                   | 5.007             |            |                            |
| 3,850.00                                                                         | 3,838.57            | 3,854.40            | 3,851.98            | 13.74           | 13.50       | -175.96               | -15.32                            | -25.17             | 135.61               | 108.85                | 26.76                   | 5.067             |            |                            |
| 3,900.00                                                                         | 3,887.86            | 3,904.28            | 3,901.61            | 13.94           | 13.68       | -175.94               | -16.70                            | -30.06             | 138.95               | 111.84                | 27.11                   | 5.125             |            |                            |
| 3,950.00                                                                         | 3,937.15            | 3,954.17            | 3,951.23            | 14.15           | 13.86       | -175.92               | -18.08                            | -34.96             | 142.29               | 114.83                | 27.46                   | 5.181             |            |                            |
| 4,000.00                                                                         | 3,986.44            | 4,004.06            | 4,000.86            | 14.36           | 14.04       | -175.90               | -19.45                            | -39.85             | 145.64               | 117.82                | 27.81                   | 5.236             |            |                            |
| 4,050.00                                                                         | 4,035.73            | 4,053.95            | 4,050.49            | 14.57           | 14.22       | -175.88               | -20.83                            | -44.74             | 148.98               | 120.81                | 28.17                   | 5.289             |            |                            |
| 4,100.00                                                                         | 4,085.02            | 4,103.84            | 4,100.12            | 14.78           | 14.40       | -175.86               | -22.21                            | -49.64             | 152.32               | 123.81                | 28.52                   | 5.342             |            |                            |
| 4,150.00                                                                         | 4,134.31            | 4,153.73            | 4,149.75            | 14.99           | 14.58       | -175.84               | -23.58                            | -54.53             | 155.67               | 126.80                | 28.87                   | 5.392             |            |                            |
| 4,200.00                                                                         | 4,183.60            | 4,203.61            | 4,199.38            | 15.20           | 14.77       | -175.83               | -24.96                            | -59.43             | 159.01               | 129.79                | 29.22                   | 5.441             |            |                            |
| 4,250.00                                                                         | 4,232.90            | 4,253.50            | 4,249.00            | 15.41           | 14.95       | -175.81               | -26.34                            | -64.32             | 162.35               | 132.78                | 29.58                   | 5.489             |            |                            |
| 4,300.00                                                                         | 4,282.19            | 4,303.39            | 4,298.63            | 15.63           | 15.13       | -175.79               | -27.71                            | -69.22             | 165.69               | 135.77                | 29.93                   | 5.536             |            |                            |
| 4,350.00                                                                         | 4,331.48            | 4,353.28            | 4,348.26            | 15.84           | 15.32       | -175.78               | -29.09                            | -74.11             | 169.04               | 138.75                | 30.28                   | 5.582             |            |                            |
| 4,400.00                                                                         | 4,380.77            | 4,403.17            | 4,397.89            | 16.06           | 15.50       | -175.77               | -30.47                            | -79.01             | 172.38               | 141.74                | 30.64                   | 5.626             |            |                            |
| 4,450.00                                                                         | 4,430.06            | 4,453.05            | 4,447.52            | 16.27           | 15.89       | -175.75               | -31.84                            | -83.90             | 175.72               | 144.73                | 30.99                   | 5.670             |            |                            |
| 4,500.00                                                                         | 4,479.35            | 4,502.94            | 4,497.15            | 16.49           | 15.87       | -175.74               | -33.22                            | -88.80             | 179.07               | 147.72                | 31.35                   | 5.712             |            |                            |
| 4,550.00                                                                         | 4,528.64            | 4,552.83            | 4,546.77            | 16.71           | 16.06       | -175.73               | -34.60                            | -93.69             | 182.41               | 150.71                | 31.70                   | 5.754             |            |                            |
| 4,600.00                                                                         | 4,577.93            | 4,602.72            | 4,596.40            | 16.92           | 16.25       | -175.71               | -35.97                            | -98.59             | 185.75               | 153.69                | 32.06                   | 5.794             |            |                            |
| 4,650.00                                                                         | 4,627.22            | 4,652.61            | 4,646.03            | 17.14           | 16.43       | -175.70               | -37.35                            | -103.48            | 189.10               | 156.68                | 32.42                   | 5.833             |            |                            |
| 4,700.00                                                                         | 4,676.52            | 4,702.49            | 4,695.66            | 17.36           | 16.62       | -175.69               | -38.73                            | -108.38            | 192.44               | 159.67                | 32.77                   | 5.872             |            |                            |
| 4,750.00                                                                         | 4,725.81            | 4,752.38            | 4,745.29            | 17.58           | 16.81       | -175.68               | -40.10                            | -113.27            | 195.78               | 162.65                | 33.13                   | 5.909             |            |                            |
| 4,800.00                                                                         | 4,775.10            | 4,802.27            | 4,794.92            | 17.80           | 16.99       | -175.67               | -41.48                            | -118.16            | 199.12               | 165.64                | 33.49                   | 5.946             |            |                            |
| 4,850.00                                                                         | 4,824.39            | 4,852.16            | 4,844.54            | 18.02           | 17.18       | -175.66               | -42.86                            | -123.06            | 202.47               | 168.62                | 33.85                   | 5.982             |            |                            |
| 4,900.00                                                                         | 4,873.68            | 4,902.05            | 4,894.17            | 18.24           | 17.37       | -175.65               | -44.23                            | -127.95            | 205.81               | 171.61                | 34.20                   | 6.017             |            |                            |
| 4,950.00                                                                         | 4,922.97            | 4,951.93            | 4,943.80            | 18.47           | 17.56       | -175.64               | -45.61                            | -132.85            | 209.15               | 174.59                | 34.56                   | 6.052             |            |                            |
| 5,000.00                                                                         | 4,972.26            | 5,001.82            | 4,993.43            | 18.69           | 17.75       | -175.63               | -46.99                            | -137.74            | 212.50               | 177.58                | 34.92                   | 6.085             |            |                            |
| 5,050.00                                                                         | 5,021.55            | 5,051.71            | 5,043.06            | 18.91           | 17.94       | -175.62               | -48.36                            | -142.64            | 215.84               | 180.56                | 35.28                   | 6.118             |            |                            |
| 5,100.00                                                                         | 5,070.84            | 5,101.60            | 5,092.69            | 19.13           | 18.13       | -175.61               | -49.74                            | -147.53            | 219.18               | 183.54                | 35.64                   | 6.150             |            |                            |
| 5,150.00                                                                         | 5,120.13            | 5,151.49            | 5,142.31            | 19.36           | 18.32       | -175.60               | -51.11                            | -152.43            | 222.53               | 186.53                | 36.00                   | 6.182             |            |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
Project: Lea County (NAD83 New Mexico East)  
Reference Site: Sec 08-T25S-R33E  
Site Error: 0.00 ft  
Reference Well: Flagler 8 Fed 38H  
Well Error: 0.50 ft  
Reference Wellbore: Wellbore #1  
Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
TVD Reference: RKB @ 3472.50ft  
MD Reference: RKB @ 3472.50ft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM r5000.141\_Prod US  
Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 32H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                    |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 5,200.00                                                                         | 5,169.43            | 5,201.38            | 5,191.94            | 19.58           | 18.51       | -175.60               | -52.49                            | -157.32    | 225.87               | 189.51                | 36.36                   | 6.212             |                            |
| 5,250.00                                                                         | 5,218.72            | 5,251.26            | 5,241.57            | 19.80           | 18.70       | -175.59               | -53.87                            | -162.22    | 229.21               | 192.49                | 36.72                   | 6.242             |                            |
| 5,300.00                                                                         | 5,268.01            | 5,301.15            | 5,291.20            | 20.03           | 18.89       | -175.58               | -55.24                            | -167.11    | 232.55               | 195.48                | 37.08                   | 6.272             |                            |
| 5,350.00                                                                         | 5,317.30            | 5,351.04            | 5,340.83            | 20.25           | 19.08       | -175.57               | -56.62                            | -172.01    | 235.90               | 198.46                | 37.44                   | 6.301             |                            |
| 5,400.00                                                                         | 5,366.59            | 5,400.93            | 5,390.46            | 20.48           | 19.27       | -175.57               | -58.00                            | -176.90    | 239.24               | 201.44                | 37.80                   | 6.329             |                            |
| 5,450.00                                                                         | 5,415.88            | 5,450.82            | 5,440.08            | 20.70           | 19.46       | -175.56               | -59.37                            | -181.80    | 242.58               | 204.42                | 38.16                   | 6.357             |                            |
| 5,500.00                                                                         | 5,465.17            | 5,500.70            | 5,489.71            | 20.93           | 19.66       | -175.55               | -60.75                            | -186.69    | 245.93               | 207.40                | 38.52                   | 6.384             |                            |
| 5,550.00                                                                         | 5,514.46            | 5,550.59            | 5,539.34            | 21.16           | 19.85       | -175.54               | -62.13                            | -191.59    | 249.27               | 210.39                | 38.88                   | 6.411             |                            |
| 5,600.00                                                                         | 5,563.75            | 5,600.48            | 5,588.97            | 21.38           | 20.04       | -175.54               | -63.50                            | -196.48    | 252.61               | 213.37                | 39.25                   | 6.437             |                            |
| 5,650.00                                                                         | 5,613.04            | 5,650.37            | 5,638.60            | 21.61           | 20.23       | -175.53               | -64.88                            | -201.37    | 255.96               | 216.35                | 39.61                   | 6.462             |                            |
| 5,700.00                                                                         | 5,662.34            | 5,700.26            | 5,688.23            | 21.84           | 20.42       | -175.52               | -66.26                            | -206.27    | 259.30               | 219.33                | 39.97                   | 6.488             |                            |
| 5,750.00                                                                         | 5,711.63            | 5,750.14            | 5,737.85            | 22.06           | 20.62       | -175.52               | -67.63                            | -211.16    | 262.64               | 222.31                | 40.33                   | 6.512             |                            |
| 5,800.00                                                                         | 5,760.92            | 5,800.03            | 5,787.48            | 22.29           | 20.81       | -175.51               | -69.01                            | -216.06    | 265.99               | 225.29                | 40.69                   | 6.536             |                            |
| 5,850.00                                                                         | 5,810.21            | 5,849.92            | 5,837.11            | 22.52           | 21.00       | -175.51               | -70.39                            | -220.95    | 269.33               | 228.27                | 41.06                   | 6.560             |                            |
| 5,900.00                                                                         | 5,859.50            | 5,900.19            | 5,886.74            | 22.75           | 21.20       | -175.50               | -71.76                            | -225.85    | 272.67               | 231.25                | 41.42                   | 6.583             |                            |
| 5,950.00                                                                         | 5,908.79            | 5,949.70            | 5,936.37            | 22.97           | 21.39       | -175.50               | -73.14                            | -230.74    | 276.01               | 234.23                | 41.78                   | 6.606             |                            |
| 6,000.00                                                                         | 5,958.08            | 6,000.42            | 5,986.00            | 23.20           | 21.59       | -175.49               | -74.52                            | -235.64    | 279.36               | 237.21                | 42.15                   | 6.628             |                            |
| 6,050.00                                                                         | 6,007.37            | 6,049.47            | 6,035.62            | 23.43           | 21.78       | -175.49               | -75.89                            | -240.53    | 282.70               | 240.19                | 42.51                   | 6.651             |                            |
| 6,100.00                                                                         | 6,056.66            | 6,100.64            | 6,085.25            | 23.66           | 21.98       | -175.48               | -77.27                            | -245.43    | 286.04               | 243.17                | 42.88                   | 6.671             |                            |
| 6,150.00                                                                         | 6,105.96            | 6,149.25            | 6,134.88            | 23.89           | 22.17       | -175.48               | -78.65                            | -250.32    | 289.39               | 246.15                | 43.23                   | 6.693             |                            |
| 6,200.00                                                                         | 6,155.25            | 6,200.86            | 6,184.51            | 24.12           | 22.37       | -175.47               | -80.02                            | -255.22    | 292.73               | 249.13                | 43.60                   | 6.713             |                            |
| 6,250.00                                                                         | 6,204.54            | 6,249.03            | 6,234.14            | 24.35           | 22.56       | -175.47               | -81.40                            | -260.11    | 296.07               | 252.11                | 43.96                   | 6.735             |                            |
| 6,300.00                                                                         | 6,253.83            | 6,298.91            | 6,283.77            | 24.58           | 22.75       | -175.46               | -82.78                            | -265.01    | 299.42               | 255.09                | 44.33                   | 6.755             |                            |
| 6,350.00                                                                         | 6,303.12            | 6,348.80            | 6,333.39            | 24.81           | 22.95       | -175.46               | -84.15                            | -269.90    | 302.76               | 258.07                | 44.69                   | 6.775             |                            |
| 6,400.00                                                                         | 6,352.41            | 6,401.31            | 6,383.02            | 25.04           | 23.15       | -175.45               | -85.53                            | -274.79    | 306.10               | 261.04                | 45.06                   | 6.793             |                            |
| 6,450.00                                                                         | 6,401.70            | 6,448.58            | 6,432.65            | 25.27           | 23.34       | -175.45               | -86.91                            | -279.69    | 309.45               | 264.03                | 45.42                   | 6.813             |                            |
| 6,500.00                                                                         | 6,450.99            | 6,501.53            | 6,482.28            | 25.50           | 23.54       | -175.44               | -88.28                            | -284.58    | 312.79               | 266.99                | 45.79                   | 6.830             |                            |
| 6,550.00                                                                         | 6,500.28            | 6,548.35            | 6,531.91            | 25.73           | 23.73       | -175.44               | -89.66                            | -289.48    | 316.13               | 269.98                | 46.15                   | 6.850             |                            |
| 6,600.00                                                                         | 6,549.57            | 6,601.76            | 6,581.54            | 25.96           | 23.94       | -175.43               | -91.04                            | -294.37    | 319.48               | 272.95                | 46.53                   | 6.867             |                            |
| 6,650.00                                                                         | 6,598.87            | 6,648.13            | 6,631.16            | 26.19           | 24.12       | -175.43               | -92.41                            | -299.27    | 322.82               | 275.94                | 46.88                   | 6.886             |                            |
| 6,700.00                                                                         | 6,648.16            | 6,701.98            | 6,680.79            | 26.42           | 24.33       | -175.43               | -93.79                            | -304.16    | 326.16               | 278.90                | 47.26                   | 6.902             |                            |
| 6,750.00                                                                         | 6,697.45            | 6,747.91            | 6,730.42            | 26.66           | 24.51       | -175.42               | -95.17                            | -309.06    | 329.50               | 281.90                | 47.61                   | 6.921             |                            |
| 6,800.00                                                                         | 6,746.74            | 6,802.21            | 6,780.05            | 26.89           | 24.72       | -175.42               | -96.54                            | -313.95    | 332.85               | 284.86                | 47.99                   | 6.936             |                            |
| 6,850.00                                                                         | 6,796.03            | 6,847.68            | 6,829.68            | 27.12           | 24.90       | -175.42               | -97.92                            | -318.85    | 336.19               | 287.85                | 48.34                   | 6.955             |                            |
| 6,900.00                                                                         | 6,845.32            | 6,897.57            | 6,879.31            | 27.35           | 25.10       | -175.41               | -99.30                            | -323.74    | 339.53               | 290.83                | 48.70                   | 6.971             |                            |
| 6,950.00                                                                         | 6,894.61            | 6,947.46            | 6,928.93            | 27.58           | 25.29       | -175.41               | -100.67                           | -328.64    | 342.88               | 293.81                | 49.07                   | 6.988             |                            |
| 7,000.00                                                                         | 6,943.90            | 6,997.35            | 6,978.56            | 27.82           | 25.49       | -175.41               | -102.05                           | -333.53    | 346.22               | 296.79                | 49.43                   | 7.004             |                            |
| 7,050.00                                                                         | 6,993.19            | 7,047.24            | 7,028.19            | 28.05           | 25.69       | -175.40               | -103.43                           | -338.43    | 349.56               | 299.76                | 49.80                   | 7.019             |                            |
| 7,100.00                                                                         | 7,042.48            | 7,102.88            | 7,077.82            | 28.28           | 25.91       | -175.40               | -104.80                           | -343.32    | 352.91               | 302.72                | 50.19                   | 7.032             |                            |
| 7,150.00                                                                         | 7,091.78            | 7,147.01            | 7,127.45            | 28.51           | 26.08       | -175.39               | -106.18                           | -348.22    | 356.25               | 305.72                | 50.53                   | 7.050             |                            |
| 7,200.00                                                                         | 7,141.07            | 7,203.10            | 7,177.08            | 28.75           | 26.30       | -175.39               | -107.56                           | -353.11    | 359.59               | 308.67                | 50.92                   | 7.062             |                            |
| 7,250.00                                                                         | 7,190.36            | 7,246.79            | 7,226.70            | 28.98           | 26.47       | -175.39               | -108.93                           | -358.00    | 362.94               | 311.67                | 51.26                   | 7.080             |                            |
| 7,300.00                                                                         | 7,239.65            | 7,303.32            | 7,276.33            | 29.21           | 26.70       | -175.39               | -110.31                           | -362.90    | 366.28               | 314.62                | 51.65                   | 7.091             |                            |
| 7,350.00                                                                         | 7,288.94            | 7,346.56            | 7,325.96            | 29.44           | 26.87       | -175.38               | -111.69                           | -367.79    | 369.62               | 317.63                | 52.00                   | 7.109             |                            |
| 7,400.00                                                                         | 7,338.23            | 7,403.55            | 7,375.59            | 29.68           | 27.09       | -175.38               | -113.06                           | -372.69    | 372.97               | 320.58                | 52.39                   | 7.119             |                            |
| 7,450.00                                                                         | 7,387.52            | 7,446.34            | 7,425.22            | 29.91           | 27.26       | -175.38               | -114.44                           | -377.58    | 376.31               | 323.58                | 52.73                   | 7.137             |                            |
| 7,500.00                                                                         | 7,436.81            | 7,503.77            | 7,474.85            | 30.14           | 27.49       | -175.37               | -115.82                           | -382.48    | 379.65               | 326.53                | 53.12                   | 7.147             |                            |
| 7,550.00                                                                         | 7,486.10            | 7,546.12            | 7,524.47            | 30.38           | 27.66       | -175.37               | -117.19                           | -387.37    | 382.99               | 329.53                | 53.46                   | 7.164             |                            |
| 7,600.00                                                                         | 7,535.40            | 7,596.00            | 7,574.10            | 30.61           | 27.85       | -175.37               | -118.57                           | -392.27    | 386.34               | 332.51                | 53.83                   | 7.177             |                            |
| 7,650.00                                                                         | 7,584.69            | 7,645.89            | 7,623.73            | 30.85           | 28.05       | -175.37               | -119.95                           | -397.16    | 389.68               | 335.48                | 54.20                   | 7.190             |                            |
| 7,700.00                                                                         | 7,633.98            | 7,704.22            | 7,673.36            | 31.08           | 28.28       | -175.36               | -121.32                           | -402.06    | 393.02               | 338.43                | 54.59                   | 7.199             |                            |
| 7,750.00                                                                         | 7,683.27            | 7,745.67            | 7,722.99            | 31.31           | 28.45       | -175.36               | -122.70                           | -406.95    | 396.37               | 341.44                | 54.93                   | 7.216             |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 32H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   |            |                      |                       |                         |                   |                            |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning                    |
| 7,800.00                                                                         | 7,732.56            | 7,804.44            | 7,772.61            | 31.55           | 28.68       | -175.36               | -124.08                           | -411.85    | 399.71               | 344.38                | 55.33                   | 7.224             |                            |
| 7,850.00                                                                         | 7,781.85            | 7,845.45            | 7,822.24            | 31.78           | 28.84       | -175.35               | -125.45                           | -416.74    | 403.05               | 347.39                | 55.66                   | 7.241             |                            |
| 7,900.00                                                                         | 7,831.14            | 7,904.67            | 7,871.87            | 32.02           | 29.08       | -175.35               | -126.83                           | -421.64    | 406.40               | 350.33                | 56.07                   | 7.249             |                            |
| 7,950.00                                                                         | 7,880.43            | 7,945.22            | 7,921.50            | 32.25           | 29.24       | -175.35               | -128.21                           | -426.53    | 409.74               | 353.34                | 56.40                   | 7.265             |                            |
| 8,000.00                                                                         | 7,929.72            | 8,004.89            | 7,971.13            | 32.48           | 29.48       | -175.35               | -129.58                           | -431.43    | 413.08               | 356.28                | 56.80                   | 7.272             |                            |
| 8,050.00                                                                         | 7,979.01            | 8,045.00            | 8,020.76            | 32.72           | 29.63       | -175.34               | -130.96                           | -436.32    | 416.43               | 359.29                | 57.13                   | 7.289             |                            |
| 8,100.00                                                                         | 8,028.31            | 8,105.11            | 8,070.39            | 32.95           | 29.87       | -175.34               | -132.34                           | -441.21    | 419.73               | 362.19                | 57.54                   | 7.295             |                            |
| 8,150.00                                                                         | 8,077.69            | 8,144.81            | 8,120.05            | 33.18           | 30.03       | -175.34               | -133.71                           | -446.11    | 422.52               | 364.85                | 57.87                   | 7.302             |                            |
| 8,200.00                                                                         | 8,127.17            | 8,205.24            | 8,169.74            | 33.40           | 30.27       | -175.33               | -135.09                           | -451.01    | 424.66               | 366.38                | 58.27                   | 7.307             |                            |
| 8,250.00                                                                         | 8,176.74            | 8,244.74            | 8,219.46            | 33.62           | 30.43       | -175.30               | -136.47                           | -455.92    | 426.14               | 367.54                | 58.60                   | 7.272             |                            |
| 8,300.00                                                                         | 8,226.39            | 8,305.27            | 8,269.19            | 33.83           | 30.67       | -175.28               | -137.85                           | -460.82    | 426.98               | 367.97                | 59.00                   | 7.237             |                            |
| 8,350.00                                                                         | 8,276.12            | 8,344.73            | 8,318.93            | 34.03           | 30.83       | -175.24               | -139.23                           | -465.73    | 427.16               | 367.83                | 59.33                   | 7.200             |                            |
| 8,400.00                                                                         | 8,325.90            | 8,405.27            | 8,368.67            | 34.23           | 31.07       | -175.19               | -140.61                           | -470.63    | 426.69               | 366.96                | 59.73                   | 7.143             |                            |
| 8,450.00                                                                         | 8,375.75            | 8,444.71            | 8,418.39            | 34.42           | 31.22       | -175.14               | -141.99                           | -475.54    | 425.57               | 365.51                | 60.06                   | 7.086             |                            |
| 8,500.00                                                                         | 8,425.64            | 8,505.32            | 8,468.10            | 34.61           | 31.47       | -175.08               | -143.37                           | -480.44    | 423.79               | 363.34                | 60.46                   | 7.010             |                            |
| 8,550.00                                                                         | 8,475.57            | 8,544.62            | 8,517.78            | 34.78           | 31.62       | -175.01               | -144.75                           | -485.34    | 421.37               | 360.59                | 60.78                   | 6.933             |                            |
| 8,600.00                                                                         | 8,525.53            | 8,605.48            | 8,567.42            | 34.96           | 31.86       | -174.93               | -146.12                           | -490.24    | 418.30               | 357.12                | 61.18                   | 6.837             |                            |
| 8,650.00                                                                         | 8,575.51            | 8,644.38            | 8,617.01            | 35.12           | 32.02       | -174.84               | -147.50                           | -495.13    | 414.57               | 353.08                | 61.49                   | 6.742             |                            |
| 8,700.00                                                                         | 8,625.51            | 8,694.18            | 8,666.56            | 35.28           | 32.22       | -174.74               | -148.87                           | -500.01    | 410.20               | 348.35                | 61.85                   | 6.632             |                            |
| 8,750.00                                                                         | 8,675.51            | 8,743.93            | 8,716.05            | 35.44           | 32.42       | 82.91                 | -150.25                           | -504.89    | 405.25               | 343.05                | 62.20                   | 6.515             |                            |
| 8,800.00                                                                         | 8,725.51            | 8,806.33            | 8,765.53            | 35.59           | 32.67       | 83.02                 | -151.62                           | -509.77    | 400.21               | 337.61                | 62.60                   | 6.393             |                            |
| 8,850.00                                                                         | 8,775.51            | 8,843.41            | 8,815.01            | 35.74           | 32.81       | 83.13                 | -152.99                           | -514.65    | 395.18               | 332.27                | 62.91                   | 6.282             |                            |
| 8,900.00                                                                         | 8,825.51            | 8,906.85            | 8,864.49            | 35.89           | 33.07       | 83.25                 | -154.36                           | -519.53    | 390.14               | 326.83                | 63.31                   | 6.163             |                            |
| 8,950.00                                                                         | 8,875.51            | 8,942.89            | 8,913.97            | 36.04           | 33.21       | 83.37                 | -155.74                           | -524.41    | 385.11               | 321.50                | 63.61                   | 6.054             |                            |
| 9,000.00                                                                         | 8,925.51            | 8,992.63            | 8,963.45            | 36.19           | 33.41       | 83.49                 | -157.11                           | -529.29    | 380.07               | 316.11                | 63.96                   | 5.942             |                            |
| 9,050.00                                                                         | 8,975.51            | 9,042.37            | 9,012.93            | 36.34           | 33.61       | 83.61                 | -158.48                           | -534.18    | 375.04               | 310.73                | 64.31                   | 5.832             |                            |
| 9,100.00                                                                         | 9,025.50            | 9,107.91            | 9,062.39            | 36.49           | 33.87       | 84.42                 | -159.85                           | -539.05    | 369.97               | 305.24                | 64.72                   | 5.716             |                            |
| 9,150.00                                                                         | 9,075.31            | 9,141.52            | 9,111.57            | 36.64           | 34.00       | 85.76                 | -161.22                           | -543.90    | 364.57               | 299.54                | 65.03                   | 5.606             |                            |
| 9,200.00                                                                         | 9,124.55            | 9,190.28            | 9,160.08            | 36.78           | 34.20       | 87.80                 | -162.56                           | -548.69    | 359.01               | 293.59                | 65.42                   | 5.488             |                            |
| 9,250.00                                                                         | 9,172.87            | 9,238.00            | 9,207.55            | 36.90           | 34.39       | 90.49                 | -163.88                           | -553.37    | 353.88               | 287.85                | 65.82                   | 5.373             |                            |
| 9,300.00                                                                         | 9,219.88            | 9,284.31            | 9,253.62            | 37.02           | 34.57       | 93.72                 | -165.16                           | -557.91    | 349.12               | 282.86                | 66.27                   | 5.269             |                            |
| 9,350.00                                                                         | 9,265.24            | 9,328.87            | 9,297.94            | 37.12           | 34.75       | 97.34                 | -166.39                           | -562.28    | 346.05               | 279.30                | 66.75                   | 5.184             |                            |
| 9,389.44                                                                         | 9,299.63            | 9,362.55            | 9,331.45            | 37.19           | 34.89       | 100.32                | -167.32                           | -565.59    | 345.20               | 278.03                | 67.17                   | 5.139             |                            |
| 9,400.00                                                                         | 9,308.60            | 9,371.32            | 9,340.18            | 37.21           | 34.92       | 101.12                | -167.56                           | -566.45    | 345.27               | 277.98                | 67.29                   | 5.131             |                            |
| 9,450.00                                                                         | 9,349.62            | 9,411.36            | 9,380.01            | 37.29           | 35.08       | 104.86                | -168.66                           | -570.38    | 347.62               | 279.75                | 67.87                   | 5.122             |                            |
| 9,500.00                                                                         | 9,387.99            | 9,448.67            | 9,417.12            | 37.36           | 35.23       | 108.30                | -169.69                           | -574.04    | 353.90               | 285.40                | 68.50                   | 5.167             |                            |
| 9,550.00                                                                         | 9,423.43            | 9,482.98            | 9,451.25            | 37.42           | 35.37       | 111.24                | -170.64                           | -577.40    | 364.74               | 295.61                | 69.13                   | 5.276             |                            |
| 9,600.00                                                                         | 9,455.66            | 9,514.01            | 9,482.12            | 37.48           | 35.49       | 113.51                | -171.50                           | -580.45    | 380.51               | 310.77                | 69.75                   | 5.456             |                            |
| 9,650.00                                                                         | 9,484.44            | 9,541.54            | 9,509.51            | 37.53           | 35.60       | 114.95                | -172.26                           | -583.15    | 401.32               | 331.01                | 70.31                   | 5.708             |                            |
| 9,700.00                                                                         | 9,509.55            | 9,565.35            | 9,533.19            | 37.58           | 35.70       | 115.44                | -172.91                           | -585.49    | 426.97               | 356.18                | 70.79                   | 6.032             |                            |
| 9,750.00                                                                         | 9,530.80            | 9,585.27            | 9,553.00            | 37.63           | 35.78       | 114.83                | -173.46                           | -587.44    | 457.06               | 385.88                | 71.18                   | 6.421             |                            |
| 9,800.00                                                                         | 9,548.02            | 9,601.13            | 9,568.79            | 37.69           | 35.84       | 112.94                | -173.90                           | -589.00    | 491.06               | 419.57                | 71.48                   | 6.869             |                            |
| 9,850.00                                                                         | 9,561.08            | 9,612.83            | 9,580.43            | 37.77           | 35.89       | 109.57                | -174.22                           | -590.15    | 528.34               | 456.64                | 71.71                   | 7.368             |                            |
| 9,900.00                                                                         | 9,569.90            | 9,620.27            | 9,587.83            | 37.86           | 35.92       | 104.47                | -174.43                           | -590.88    | 568.28               | 496.42                | 71.86                   | 7.908             |                            |
| 9,950.00                                                                         | 9,574.38            | 9,623.26            | 9,590.80            | 37.97           | 35.93       | 97.42                 | -174.51                           | -591.17    | 610.22               | 538.27                | 71.95                   | 8.481             |                            |
| 10,000.00                                                                        | 9,575.00            | 9,622.56            | 9,590.10            | 38.11           | 35.93       | 92.81                 | -174.49                           | -591.10    | 653.55               | 581.56                | 71.99                   | 9.078             |                            |
| 10,050.00                                                                        | 9,575.00            | 9,621.31            | 9,588.86            | 38.28           | 35.92       | 92.58                 | -174.46                           | -590.98    | 697.80               | 625.77                | 72.03                   | 9.688             |                            |
| 10,100.00                                                                        | 9,575.00            | 9,619.96            | 9,587.52            | 38.47           | 35.92       | 92.34                 | -174.42                           | -590.84    | 742.77               | 670.74                | 72.03                   | 10.311            |                            |
| 10,150.00                                                                        | 9,575.00            | 9,618.61            | 9,586.18            | 38.69           | 35.91       | 92.09                 | -174.38                           | -590.71    | 788.35               | 716.31                | 72.05                   | 10.942            |                            |
| 10,200.00                                                                        | 9,575.00            | 9,617.26            | 9,584.84            | 38.94           | 35.91       | 91.85                 | -174.35                           | -590.58    | 834.43               | 762.39                | 72.04                   | 11.582            |                            |
| 10,250.00                                                                        | 9,575.00            | 9,615.92            | 9,583.50            | 39.21           | 35.90       | 91.60                 | -174.31                           | -590.45    | 880.94               | 808.90                | 72.05                   | 12.228            |                            |
| 10,300.00                                                                        | 9,575.00            | 9,614.57            | 9,582.15            | 39.51           | 35.90       | 91.36                 | -174.27                           | -590.32    | 927.81               | 855.78                | 72.04                   | 12.880            |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
Project: Lea County (NAD83 New Mexico East)  
Reference Site: Sec 08-T25S-R33E  
Site Error: 0.00 ft  
Reference Well: Flagler 8 Fed 38H  
Well Error: 0.50 ft  
Reference Wellbore: Wellbore #1  
Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
TVD Reference: RKB @ 3472.50ft  
MD Reference: RKB @ 3472.50ft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM r5000.141\_Prod US  
Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 32H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                   |            |                        |                       |                         |                   | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|------------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                       |                                   |            |                        |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   |            |                        |                       |                         |                   |                            |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centroids (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning                    |
| 10,350.00                                                                        | 9,575.00            | 9,613.22            | 9,580.81            | 39.84           | 35.89       | 91.11                 | -174.23                           | -590.18    | 974.99                 | 902.96                | 72.03                   | 13.535            |                            |
| 10,400.00                                                                        | 9,575.00            | 9,611.87            | 9,579.47            | 40.18           | 35.89       | 90.87                 | -174.20                           | -590.05    | 1,022.43               | 950.41                | 72.02                   | 14.196            |                            |
| 10,450.00                                                                        | 9,575.00            | 9,610.52            | 9,578.13            | 40.55           | 35.88       | 90.62                 | -174.16                           | -589.92    | 1,070.11               | 998.09                | 72.02                   | 14.859            |                            |
| 10,500.00                                                                        | 9,575.00            | 9,609.18            | 9,576.79            | 40.94           | 35.87       | 90.38                 | -174.12                           | -589.79    | 1,117.99               | 1,045.98              | 72.00                   | 15.527            |                            |
| 10,550.00                                                                        | 9,575.00            | 9,607.83            | 9,575.45            | 41.36           | 35.87       | 90.14                 | -174.09                           | -589.65    | 1,166.04               | 1,094.04              | 72.00                   | 16.196            |                            |
| 10,600.00                                                                        | 9,575.00            | 9,606.48            | 9,574.11            | 41.78           | 35.86       | 89.89                 | -174.05                           | -589.52    | 1,214.25               | 1,142.27              | 71.98                   | 16.868            |                            |
| 10,650.00                                                                        | 9,575.00            | 9,605.13            | 9,572.77            | 42.24           | 35.86       | 89.65                 | -174.01                           | -589.39    | 1,262.60               | 1,190.62              | 71.98                   | 17.542            |                            |
| 10,700.00                                                                        | 9,575.00            | 9,603.78            | 9,571.43            | 42.70           | 35.85       | 89.41                 | -173.97                           | -589.26    | 1,311.07               | 1,239.10              | 71.97                   | 18.218            |                            |
| 10,750.00                                                                        | 9,575.00            | 12,016.58           | 10,900.00           | 43.19           | 45.54       | 167.68                | 1,149.50                          | -624.24    | 1,356.54               | 1,306.90              | 49.65                   | 27.323            |                            |
| 10,800.00                                                                        | 9,575.00            | 12,066.58           | 10,900.00           | 43.69           | 46.03       | 167.69                | 1,199.49                          | -624.78    | 1,356.50               | 1,306.42              | 50.08                   | 27.087            |                            |
| 10,850.00                                                                        | 9,575.00            | 12,116.58           | 10,900.00           | 44.21           | 46.53       | 167.70                | 1,249.49                          | -625.31    | 1,356.45               | 1,305.93              | 50.53                   | 26.846            |                            |
| 10,900.00                                                                        | 9,575.00            | 12,166.58           | 10,900.00           | 44.74           | 47.04       | 167.71                | 1,299.49                          | -625.85    | 1,356.41               | 1,305.43              | 50.98                   | 26.606            |                            |
| 10,950.00                                                                        | 9,575.00            | 12,216.58           | 10,900.00           | 45.29           | 47.57       | 167.71                | 1,349.48                          | -626.38    | 1,356.36               | 1,304.91              | 51.45                   | 26.363            |                            |
| 11,000.00                                                                        | 9,575.00            | 12,266.58           | 10,900.00           | 45.85           | 48.11       | 167.72                | 1,399.48                          | -626.92    | 1,356.32               | 1,304.39              | 51.92                   | 26.121            |                            |
| 11,050.00                                                                        | 9,575.00            | 12,316.58           | 10,900.00           | 46.43           | 48.66       | 167.73                | 1,449.48                          | -627.45    | 1,356.27               | 1,303.86              | 52.41                   | 25.877            |                            |
| 11,100.00                                                                        | 9,575.00            | 12,366.58           | 10,900.00           | 47.01           | 49.23       | 167.74                | 1,499.47                          | -627.99    | 1,356.23               | 1,303.32              | 52.91                   | 25.635            |                            |
| 11,150.00                                                                        | 9,575.00            | 12,416.58           | 10,900.00           | 47.61           | 49.80       | 167.75                | 1,549.47                          | -628.52    | 1,356.18               | 1,302.77              | 53.41                   | 25.391            |                            |
| 11,200.00                                                                        | 9,575.00            | 12,466.58           | 10,900.00           | 48.22           | 50.39       | 167.76                | 1,599.47                          | -629.06    | 1,356.14               | 1,302.21              | 53.92                   | 25.149            |                            |
| 11,250.00                                                                        | 9,575.00            | 12,516.58           | 10,900.00           | 48.85           | 50.99       | 167.77                | 1,649.46                          | -629.59    | 1,356.09               | 1,301.64              | 54.45                   | 24.907            |                            |
| 11,300.00                                                                        | 9,575.00            | 12,566.58           | 10,900.00           | 49.48           | 51.60       | 167.78                | 1,699.46                          | -630.13    | 1,356.05               | 1,301.07              | 54.98                   | 24.666            |                            |
| 11,350.00                                                                        | 9,575.00            | 12,616.58           | 10,900.00           | 50.13           | 52.22       | 167.78                | 1,749.46                          | -630.66    | 1,356.00               | 1,300.48              | 55.52                   | 24.425            |                            |
| 11,400.00                                                                        | 9,575.00            | 12,666.58           | 10,900.00           | 50.78           | 52.86       | 167.79                | 1,799.45                          | -631.20    | 1,355.96               | 1,299.89              | 56.06                   | 24.186            |                            |
| 11,450.00                                                                        | 9,575.00            | 12,716.58           | 10,900.00           | 51.45           | 53.50       | 167.80                | 1,849.45                          | -631.74    | 1,355.91               | 1,299.29              | 56.62                   | 23.948            |                            |
| 11,500.00                                                                        | 9,575.00            | 12,766.58           | 10,900.00           | 52.12           | 54.15       | 167.81                | 1,899.45                          | -632.27    | 1,355.87               | 1,298.69              | 57.18                   | 23.713            |                            |
| 11,550.00                                                                        | 9,575.00            | 12,816.58           | 10,900.00           | 52.80           | 54.81       | 167.82                | 1,949.44                          | -632.81    | 1,355.82               | 1,298.07              | 57.75                   | 23.478            |                            |
| 11,600.00                                                                        | 9,575.00            | 12,866.58           | 10,900.00           | 53.49           | 55.48       | 167.83                | 1,999.44                          | -633.34    | 1,355.78               | 1,297.45              | 58.32                   | 23.245            |                            |
| 11,650.00                                                                        | 9,575.00            | 12,916.58           | 10,900.00           | 54.19           | 56.15       | 167.84                | 2,049.44                          | -633.88    | 1,355.73               | 1,296.82              | 58.91                   | 23.014            |                            |
| 11,700.00                                                                        | 9,575.00            | 12,966.58           | 10,900.00           | 54.89           | 56.84       | 167.85                | 2,099.43                          | -634.41    | 1,355.69               | 1,296.19              | 59.50                   | 22.786            |                            |
| 11,750.00                                                                        | 9,575.00            | 13,016.58           | 10,900.00           | 55.61           | 57.53       | 167.85                | 2,149.43                          | -634.95    | 1,355.64               | 1,295.55              | 60.09                   | 22.559            |                            |
| 11,800.00                                                                        | 9,575.00            | 13,066.58           | 10,900.00           | 56.33           | 58.23       | 167.86                | 2,199.43                          | -635.48    | 1,355.60               | 1,294.90              | 60.70                   | 22.335            |                            |
| 11,850.00                                                                        | 9,575.00            | 13,116.57           | 10,900.00           | 57.06           | 58.94       | 167.87                | 2,249.42                          | -636.02    | 1,355.55               | 1,294.25              | 61.30                   | 22.112            |                            |
| 11,900.00                                                                        | 9,575.00            | 13,166.57           | 10,900.00           | 57.80           | 59.66       | 167.88                | 2,299.42                          | -636.55    | 1,355.51               | 1,293.59              | 61.92                   | 21.892            |                            |
| 11,950.00                                                                        | 9,575.00            | 13,216.57           | 10,900.00           | 58.54           | 60.38       | 167.89                | 2,349.42                          | -637.09    | 1,355.46               | 1,292.93              | 62.54                   | 21.674            |                            |
| 12,000.00                                                                        | 9,575.00            | 13,266.57           | 10,900.00           | 59.29           | 61.10       | 167.90                | 2,399.41                          | -637.62    | 1,355.42               | 1,292.26              | 63.16                   | 21.460            |                            |
| 12,050.00                                                                        | 9,575.00            | 13,316.57           | 10,900.00           | 60.04           | 61.84       | 167.91                | 2,449.41                          | -638.16    | 1,355.37               | 1,291.58              | 63.79                   | 21.247            |                            |
| 12,100.00                                                                        | 9,575.00            | 13,366.57           | 10,900.00           | 60.80           | 62.58       | 167.92                | 2,499.41                          | -638.69    | 1,355.33               | 1,290.90              | 64.43                   | 21.037            |                            |
| 12,150.00                                                                        | 9,575.00            | 13,416.57           | 10,900.00           | 61.57           | 63.32       | 167.93                | 2,549.40                          | -639.23    | 1,355.29               | 1,290.22              | 65.07                   | 20.829            |                            |
| 12,200.00                                                                        | 9,575.00            | 13,466.57           | 10,900.00           | 62.34           | 64.06       | 167.93                | 2,599.40                          | -639.76    | 1,355.24               | 1,289.53              | 65.71                   | 20.624            |                            |
| 12,250.00                                                                        | 9,575.00            | 13,516.57           | 10,900.00           | 63.11           | 64.83       | 167.94                | 2,649.40                          | -640.30    | 1,355.20               | 1,288.83              | 66.36                   | 20.421            |                            |
| 12,300.00                                                                        | 9,575.00            | 13,566.57           | 10,900.00           | 63.89           | 65.60       | 167.95                | 2,699.39                          | -640.83    | 1,355.15               | 1,288.13              | 67.02                   | 20.221            |                            |
| 12,350.00                                                                        | 9,575.00            | 13,616.57           | 10,900.00           | 64.68           | 66.37       | 167.96                | 2,749.39                          | -641.37    | 1,355.11               | 1,287.43              | 67.68                   | 20.023            |                            |
| 12,400.00                                                                        | 9,575.00            | 13,666.57           | 10,900.00           | 65.47           | 67.14       | 167.97                | 2,799.39                          | -641.91    | 1,355.06               | 1,286.72              | 68.34                   | 19.829            |                            |
| 12,450.00                                                                        | 9,575.00            | 13,716.57           | 10,900.00           | 66.27           | 67.92       | 167.98                | 2,849.38                          | -642.44    | 1,355.02               | 1,286.01              | 69.01                   | 19.636            |                            |
| 12,500.00                                                                        | 9,575.00            | 13,766.57           | 10,900.00           | 67.06           | 68.70       | 167.99                | 2,899.38                          | -642.98    | 1,354.97               | 1,285.30              | 69.68                   | 19.446            |                            |
| 12,550.00                                                                        | 9,575.00            | 13,816.57           | 10,900.00           | 67.87           | 69.48       | 168.00                | 2,949.38                          | -643.51    | 1,354.93               | 1,284.58              | 70.35                   | 19.259            |                            |
| 12,600.00                                                                        | 9,575.00            | 13,866.57           | 10,900.00           | 68.68           | 70.28       | 168.00                | 2,999.37                          | -644.05    | 1,354.89               | 1,283.86              | 71.03                   | 19.075            |                            |
| 12,650.00                                                                        | 9,575.00            | 13,916.57           | 10,900.00           | 69.49           | 71.07       | 168.01                | 3,049.37                          | -644.58    | 1,354.84               | 1,283.13              | 71.71                   | 18.892            |                            |
| 12,700.00                                                                        | 9,575.00            | 13,966.57           | 10,900.00           | 70.30           | 71.87       | 168.02                | 3,099.37                          | -645.12    | 1,354.80               | 1,282.40              | 72.40                   | 18.713            |                            |
| 12,750.00                                                                        | 9,575.00            | 14,016.57           | 10,900.00           | 71.12           | 72.67       | 168.03                | 3,149.36                          | -645.65    | 1,354.75               | 1,281.67              | 73.09                   | 18.536            |                            |
| 12,800.00                                                                        | 9,575.00            | 14,066.57           | 10,900.00           | 71.94           | 73.48       | 168.04                | 3,199.36                          | -646.19    | 1,354.71               | 1,280.93              | 73.78                   | 18.361            |                            |
| 12,850.00                                                                        | 9,575.00            | 14,116.57           | 10,900.00           | 72.77           | 74.29       | 168.05                | 3,249.36                          | -646.72    | 1,354.67               | 1,280.19              | 74.48                   | 18.189            |                            |
| 12,900.00                                                                        | 9,575.00            | 14,166.57           | 10,900.00           | 73.60           | 75.11       | 168.06                | 3,299.35                          | -647.26    | 1,354.62               | 1,279.45              | 75.18                   | 18.019            |                            |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 32H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRE                                                       |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 12,950.00                                                                        | 9,575.00            | 14,216.57           | 10,900.00           | 74.43           | 75.92       | 168.07                | 3,349.35                          | -647.79    | 1,354.58             | 1,278.70              | 75.88                   | 17.852            |                    |         |
| 13,000.00                                                                        | 9,575.00            | 14,266.56           | 10,900.00           | 75.26           | 76.74       | 168.07                | 3,399.35                          | -648.33    | 1,354.53             | 1,277.95              | 76.58                   | 17.687            |                    |         |
| 13,050.00                                                                        | 9,575.00            | 14,316.56           | 10,900.00           | 76.10           | 77.57       | 168.08                | 3,449.34                          | -648.86    | 1,354.49             | 1,277.20              | 77.29                   | 17.525            |                    |         |
| 13,100.00                                                                        | 9,575.00            | 14,366.56           | 10,900.00           | 76.94           | 78.39       | 168.09                | 3,499.34                          | -649.40    | 1,354.45             | 1,276.44              | 78.00                   | 17.364            |                    |         |
| 13,150.00                                                                        | 9,575.00            | 14,416.56           | 10,900.00           | 77.79           | 79.22       | 168.10                | 3,549.34                          | -649.93    | 1,354.40             | 1,275.69              | 78.71                   | 17.206            |                    |         |
| 13,200.00                                                                        | 9,575.00            | 14,466.56           | 10,900.00           | 78.63           | 80.06       | 168.11                | 3,599.33                          | -650.47    | 1,354.36             | 1,274.93              | 79.43                   | 17.051            |                    |         |
| 13,250.00                                                                        | 9,575.00            | 14,516.56           | 10,900.00           | 79.48           | 80.89       | 168.12                | 3,649.33                          | -651.01    | 1,354.31             | 1,274.17              | 80.15                   | 16.897            |                    |         |
| 13,300.00                                                                        | 9,575.00            | 14,566.56           | 10,900.00           | 80.33           | 81.73       | 168.13                | 3,699.33                          | -651.54    | 1,354.27             | 1,273.40              | 80.87                   | 16.746            |                    |         |
| 13,350.00                                                                        | 9,575.00            | 14,616.56           | 10,900.00           | 81.19           | 82.57       | 168.14                | 3,749.32                          | -652.08    | 1,354.23             | 1,272.63              | 81.59                   | 16.597            |                    |         |
| 13,400.00                                                                        | 9,575.00            | 14,666.56           | 10,900.00           | 82.04           | 83.42       | 168.15                | 3,799.32                          | -652.61    | 1,354.18             | 1,271.87              | 82.32                   | 16.451            |                    |         |
| 13,450.00                                                                        | 9,575.00            | 14,716.56           | 10,900.00           | 82.90           | 84.26       | 168.15                | 3,849.32                          | -653.15    | 1,354.14             | 1,271.09              | 83.05                   | 16.306            |                    |         |
| 13,500.00                                                                        | 9,575.00            | 14,766.56           | 10,900.00           | 83.76           | 85.11       | 168.16                | 3,899.31                          | -653.68    | 1,354.10             | 1,270.32              | 83.78                   | 16.163            |                    |         |
| 13,550.00                                                                        | 9,575.00            | 14,816.56           | 10,900.00           | 84.62           | 85.96       | 168.17                | 3,949.31                          | -654.22    | 1,354.05             | 1,269.54              | 84.51                   | 16.023            |                    |         |
| 13,600.00                                                                        | 9,575.00            | 14,866.56           | 10,900.00           | 85.49           | 86.82       | 168.18                | 3,999.31                          | -654.75    | 1,354.01             | 1,268.77              | 85.24                   | 15.884            |                    |         |
| 13,650.00                                                                        | 9,575.00            | 14,916.56           | 10,900.00           | 86.35           | 87.67       | 168.19                | 4,049.30                          | -655.29    | 1,353.97             | 1,267.99              | 85.98                   | 15.748            |                    |         |
| 13,700.00                                                                        | 9,575.00            | 14,966.56           | 10,900.00           | 87.22           | 88.53       | 168.20                | 4,099.30                          | -655.82    | 1,353.92             | 1,267.21              | 86.72                   | 15.613            |                    |         |
| 13,750.00                                                                        | 9,575.00            | 15,016.56           | 10,900.00           | 88.09           | 89.39       | 168.21                | 4,149.30                          | -656.36    | 1,353.88             | 1,266.42              | 87.46                   | 15.481            |                    |         |
| 13,800.00                                                                        | 9,575.00            | 15,066.56           | 10,900.00           | 88.96           | 90.25       | 168.22                | 4,199.29                          | -656.89    | 1,353.83             | 1,265.64              | 88.20                   | 15.350            |                    |         |
| 13,850.00                                                                        | 9,575.00            | 15,116.56           | 10,900.00           | 89.84           | 91.11       | 168.22                | 4,249.29                          | -657.43    | 1,353.79             | 1,264.85              | 88.94                   | 15.221            |                    |         |
| 13,900.00                                                                        | 9,575.00            | 15,166.56           | 10,900.00           | 90.71           | 91.98       | 168.23                | 4,299.29                          | -657.96    | 1,353.75             | 1,264.06              | 89.69                   | 15.094            |                    |         |
| 13,950.00                                                                        | 9,575.00            | 15,216.56           | 10,900.00           | 91.59           | 92.85       | 168.24                | 4,349.28                          | -658.50    | 1,353.70             | 1,263.27              | 90.43                   | 14.969            |                    |         |
| 14,000.00                                                                        | 9,575.00            | 15,266.56           | 10,900.00           | 92.47           | 93.72       | 168.25                | 4,399.28                          | -659.03    | 1,353.66             | 1,262.48              | 91.18                   | 14.845            |                    |         |
| 14,050.00                                                                        | 9,575.00            | 15,316.56           | 10,900.00           | 93.35           | 94.59       | 168.26                | 4,449.28                          | -659.57    | 1,353.62             | 1,261.68              | 91.93                   | 14.724            |                    |         |
| 14,100.00                                                                        | 9,575.00            | 15,366.55           | 10,900.00           | 94.23           | 95.46       | 168.27                | 4,499.27                          | -660.10    | 1,353.57             | 1,260.89              | 92.69                   | 14.604            |                    |         |
| 14,150.00                                                                        | 9,575.00            | 15,416.55           | 10,900.00           | 95.12           | 96.34       | 168.28                | 4,549.27                          | -660.64    | 1,353.53             | 1,260.09              | 93.44                   | 14.486            |                    |         |
| 14,169.26                                                                        | 9,575.00            | 15,435.81           | 10,900.00           | 95.46           | 96.67       | 168.28                | 4,568.52                          | -660.85    | 1,353.52             | 1,259.79              | 93.73                   | 14.441            |                    |         |
| 14,200.00                                                                        | 9,575.00            | 15,432.57           | 10,900.00           | 96.00           | 96.62       | 168.28                | 4,565.29                          | -660.81    | 1,353.92             | 1,260.35              | 93.57                   | 14.470            |                    |         |
| 14,250.00                                                                        | 9,575.00            | 15,432.57           | 10,900.00           | 96.89           | 96.62       | 168.28                | 4,565.29                          | -660.81    | 1,356.05             | 1,262.68              | 93.37                   | 14.524            |                    |         |
| 14,300.00                                                                        | 9,575.00            | 15,432.57           | 10,900.00           | 97.78           | 96.62       | 168.28                | 4,565.29                          | -660.81    | 1,360.02             | 1,266.89              | 93.13                   | 14.603            |                    |         |
| 14,350.00                                                                        | 9,575.00            | 15,432.57           | 10,900.00           | 98.67           | 96.62       | 168.28                | 4,565.29                          | -660.81    | 1,365.81             | 1,272.94              | 92.86                   | 14.708            |                    |         |
| 14,400.00                                                                        | 9,575.00            | 15,432.57           | 10,900.00           | 99.56           | 96.62       | 168.28                | 4,565.29                          | -660.81    | 1,373.39             | 1,280.83              | 92.56                   | 14.837            |                    |         |
| 14,450.00                                                                        | 9,575.00            | 15,432.57           | 10,900.00           | 100.45          | 96.62       | 168.28                | 4,565.29                          | -660.81    | 1,382.75             | 1,290.51              | 92.24                   | 14.991            |                    |         |
| 14,477.32                                                                        | 9,575.00            | 15,432.57           | 10,900.00           | 100.94          | 96.62       | 168.28                | 4,565.29                          | -660.81    | 1,388.59             | 1,296.55              | 92.05                   | 15.086            |                    |         |

# Anticollision Report

Company: WCDSC Permian NM  
Project: Lea County (NAD83 New Mexico East)  
Reference Site: Sec 08-T25S-R33E  
Site Error: 0.00 ft  
Reference Well: Flagler 8 Fed 38H  
Well Error: 0.50 ft  
Reference Wellbore: Wellbore #1  
Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
TVD Reference: RKB @ 3472.50ft  
MD Reference: RKB @ 3472.50ft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM r5000.141\_Prod US  
Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 39H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                        |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|------------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                        |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             | Distance               |                                   |            |                      |                       |                         |                   |                            |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Footface (ft) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning                    |
| 0.00                                                                             | 0.00                | 0.70                | -0.70               | 0.50            | 0.50        | 89.64                  | 0.38                              | 59.99      | 59.99                |                       |                         |                   |                            |
| 50.00                                                                            | 50.00               | 49.30               | 49.30               | 0.50            | 0.50        | 89.64                  | 0.38                              | 59.99      | 59.99                | 58.98                 | 1.01                    | 59.611            |                            |
| 100.00                                                                           | 100.00              | 100.70              | 99.30               | 0.52            | 0.52        | 89.64                  | 0.38                              | 59.99      | 59.99                | 58.98                 | 1.04                    | 57.897            |                            |
| 150.00                                                                           | 150.00              | 149.30              | 149.30              | 0.59            | 0.59        | 89.64                  | 0.38                              | 59.99      | 59.99                | 58.81                 | 1.18                    | 50.877            |                            |
| 200.00                                                                           | 200.00              | 200.70              | 199.30              | 0.70            | 0.70        | 89.64                  | 0.38                              | 59.99      | 59.99                | 58.59                 | 1.41                    | 42.669            |                            |
| 250.00                                                                           | 250.00              | 249.30              | 249.30              | 0.84            | 0.84        | 89.64                  | 0.38                              | 59.99      | 59.99                | 58.32                 | 1.67                    | 35.850            |                            |
| 300.00                                                                           | 300.00              | 300.70              | 299.30              | 0.99            | 0.99        | 89.64                  | 0.38                              | 59.99      | 59.99                | 58.01                 | 1.98                    | 30.347            |                            |
| 350.00                                                                           | 350.00              | 349.30              | 349.30              | 1.15            | 1.14        | 89.64                  | 0.38                              | 59.99      | 59.99                | 57.70                 | 2.29                    | 26.212            |                            |
| 400.00                                                                           | 400.00              | 400.70              | 399.30              | 1.31            | 1.31        | 89.64                  | 0.38                              | 59.99      | 59.99                | 57.37                 | 2.62                    | 22.893            |                            |
| 450.00                                                                           | 450.00              | 449.30              | 449.30              | 1.48            | 1.47        | 89.64                  | 0.38                              | 59.99      | 59.99                | 57.04                 | 2.95                    | 20.334            |                            |
| 500.00                                                                           | 500.00              | 500.70              | 499.30              | 1.65            | 1.65        | 89.64                  | 0.38                              | 59.99      | 59.99                | 56.70                 | 3.29                    | 18.209            |                            |
| 550.00                                                                           | 550.00              | 549.30              | 549.30              | 1.82            | 1.82        | 89.64                  | 0.38                              | 59.99      | 59.99                | 56.36                 | 3.63                    | 16.513            |                            |
| 600.00                                                                           | 600.00              | 600.70              | 599.30              | 1.99            | 1.99        | 89.64                  | 0.38                              | 59.99      | 59.99                | 56.01                 | 3.98                    | 15.059            |                            |
| 650.00                                                                           | 650.00              | 649.30              | 649.30              | 2.16            | 2.16        | 89.64                  | 0.38                              | 59.99      | 59.99                | 55.66                 | 4.33                    | 13.865            |                            |
| 700.00                                                                           | 700.00              | 700.70              | 699.30              | 2.34            | 2.34        | 89.64                  | 0.38                              | 59.99      | 59.99                | 55.31                 | 4.68                    | 12.816            |                            |
| 750.00                                                                           | 750.00              | 749.30              | 749.30              | 2.51            | 2.51        | 89.64                  | 0.38                              | 59.99      | 59.99                | 54.96                 | 5.03                    | 11.934            |                            |
| 800.00                                                                           | 800.00              | 800.70              | 799.30              | 2.69            | 2.69        | 89.64                  | 0.38                              | 59.99      | 59.99                | 54.61                 | 5.38                    | 11.143            |                            |
| 850.00                                                                           | 850.00              | 849.30              | 849.30              | 2.87            | 2.86        | 89.64                  | 0.38                              | 59.99      | 59.99                | 54.26                 | 5.73                    | 10.467            |                            |
| 900.00                                                                           | 900.00              | 900.70              | 899.30              | 3.04            | 3.05        | 89.64                  | 0.38                              | 59.99      | 59.99                | 53.90                 | 6.09                    | 9.851             |                            |
| 950.00                                                                           | 950.00              | 949.30              | 949.30              | 3.22            | 3.22        | 89.64                  | 0.38                              | 59.99      | 59.99                | 53.55                 | 6.44                    | 9.318             |                            |
| 1,000.00                                                                         | 1,000.00            | 1,000.70            | 999.30              | 3.40            | 3.40        | 89.64                  | 0.38                              | 59.99      | 59.99                | 53.19                 | 6.80                    | 8.825             |                            |
| 1,050.00                                                                         | 1,050.00            | 1,049.30            | 1,049.30            | 3.58            | 3.57        | 89.64                  | 0.38                              | 59.99      | 59.99                | 52.84                 | 7.15                    | 8.393             |                            |
| 1,100.00                                                                         | 1,100.00            | 1,100.70            | 1,099.30            | 3.75            | 3.76        | 89.64                  | 0.38                              | 59.99      | 59.99                | 52.48                 | 7.51                    | 7.991             |                            |
| 1,150.00                                                                         | 1,150.00            | 1,149.30            | 1,149.30            | 3.93            | 3.93        | 89.64                  | 0.38                              | 59.99      | 59.99                | 52.13                 | 7.86                    | 7.634             |                            |
| 1,200.00                                                                         | 1,200.00            | 1,200.70            | 1,199.30            | 4.11            | 4.11        | 89.64                  | 0.38                              | 59.99      | 59.99                | 51.77                 | 8.22                    | 7.299             |                            |
| 1,250.00                                                                         | 1,250.00            | 1,249.30            | 1,249.30            | 4.29            | 4.28        | 89.64                  | 0.38                              | 59.99      | 59.99                | 51.42                 | 8.57                    | 7.000             |                            |
| 1,300.00                                                                         | 1,300.00            | 1,300.70            | 1,299.30            | 4.46            | 4.47        | 89.64                  | 0.38                              | 59.99      | 59.99                | 51.06                 | 8.93                    | 6.717             |                            |
| 1,350.00                                                                         | 1,350.00            | 1,349.30            | 1,349.30            | 4.64            | 4.64        | 89.64                  | 0.38                              | 59.99      | 59.99                | 50.71                 | 9.28                    | 6.463             |                            |
| 1,400.00                                                                         | 1,400.00            | 1,400.70            | 1,399.30            | 4.82            | 4.82        | 89.64                  | 0.38                              | 59.99      | 59.99                | 50.35                 | 9.64                    | 6.221             |                            |
| 1,450.00                                                                         | 1,450.00            | 1,449.30            | 1,449.30            | 5.00            | 5.00        | 89.64                  | 0.38                              | 59.99      | 59.99                | 50.00                 | 10.00                   | 6.002             |                            |
| 1,500.00                                                                         | 1,500.00            | 1,500.70            | 1,499.30            | 5.18            | 5.18        | 89.64                  | 0.38                              | 59.99      | 59.99                | 49.63                 | 10.36                   | 5.792             |                            |
| 1,550.00                                                                         | 1,550.00            | 1,549.30            | 1,549.30            | 5.36            | 5.35        | 89.64                  | 0.38                              | 59.99      | 59.99                | 49.28                 | 10.71                   | 5.602             |                            |
| 1,600.00                                                                         | 1,600.00            | 1,600.70            | 1,599.30            | 5.53            | 5.54        | 89.64                  | 0.38                              | 59.99      | 59.99                | 48.92                 | 11.07                   | 5.419             |                            |
| 1,650.00                                                                         | 1,650.00            | 1,649.30            | 1,649.30            | 5.71            | 5.71        | 89.64                  | 0.38                              | 59.99      | 59.99                | 48.57                 | 11.42                   | 5.252             |                            |
| 1,700.00                                                                         | 1,700.00            | 1,700.70            | 1,699.30            | 5.89            | 5.89        | 89.64                  | 0.38                              | 59.99      | 59.99                | 48.21                 | 11.78                   | 5.091             |                            |
| 1,750.00                                                                         | 1,750.00            | 1,749.30            | 1,749.30            | 6.07            | 6.07        | 89.64                  | 0.38                              | 59.99      | 59.99                | 47.85                 | 12.14                   | 4.943             | Alert                      |
| 1,800.00                                                                         | 1,800.00            | 1,800.70            | 1,799.30            | 6.25            | 6.25        | 89.64                  | 0.38                              | 59.99      | 59.99                | 47.49                 | 12.50                   | 4.800             | Alert                      |
| 1,850.00                                                                         | 1,850.00            | 1,849.30            | 1,849.30            | 6.43            | 6.42        | 89.64                  | 0.38                              | 59.99      | 59.99                | 47.14                 | 12.85                   | 4.668             | Alert                      |
| 1,900.00                                                                         | 1,900.00            | 1,900.70            | 1,899.30            | 6.61            | 6.61        | 89.64                  | 0.38                              | 59.99      | 59.99                | 46.78                 | 13.21                   | 4.540             | Alert                      |
| 1,950.00                                                                         | 1,950.00            | 1,949.30            | 1,949.30            | 6.78            | 6.78        | 89.64                  | 0.38                              | 59.99      | 59.99                | 46.42                 | 13.57                   | 4.422             | Alert                      |
| 2,000.00                                                                         | 2,000.00            | 2,000.70            | 1,999.30            | 6.96            | 6.97        | 89.64                  | 0.38                              | 59.99      | 59.99                | 46.06                 | 13.93                   | 4.307             | Alert                      |
| 2,050.00                                                                         | 2,050.00            | 2,049.30            | 2,049.30            | 7.14            | 7.14        | 89.64                  | 0.38                              | 59.99      | 59.99                | 45.71                 | 14.28                   | 4.201             | Alert                      |
| 2,100.00                                                                         | 2,100.00            | 2,100.70            | 2,099.30            | 7.32            | 7.32        | 89.64                  | 0.38                              | 59.99      | 59.99                | 45.35                 | 14.64                   | 4.097             | Alert                      |
| 2,150.00                                                                         | 2,150.00            | 2,149.30            | 2,149.30            | 7.50            | 7.50        | 89.64                  | 0.38                              | 59.99      | 59.99                | 44.99                 | 15.00                   | 4.000             | Alert                      |
| 2,200.00                                                                         | 2,200.00            | 2,200.70            | 2,199.30            | 7.68            | 7.68        | 89.64                  | 0.38                              | 59.99      | 59.99                | 44.63                 | 15.36                   | 3.906             | Alert                      |
| 2,250.00                                                                         | 2,250.00            | 2,249.30            | 2,249.30            | 7.86            | 7.85        | 89.64                  | 0.38                              | 59.99      | 59.99                | 44.28                 | 15.71                   | 3.818             | Alert                      |
| 2,300.00                                                                         | 2,300.00            | 2,300.70            | 2,299.30            | 8.04            | 8.04        | 89.64                  | 0.38                              | 59.99      | 59.99                | 43.92                 | 16.08                   | 3.732             | Alert                      |
| 2,350.00                                                                         | 2,350.00            | 2,349.30            | 2,349.30            | 8.22            | 8.21        | 89.64                  | 0.38                              | 59.99      | 59.99                | 43.56                 | 16.43                   | 3.652             | Alert                      |
| 2,400.00                                                                         | 2,400.00            | 2,399.30            | 2,399.30            | 8.39            | 8.39        | 89.64                  | 0.38                              | 59.99      | 59.99                | 43.21                 | 16.79                   | 3.574             | Alert, CC                  |
| 2,450.00                                                                         | 2,450.00            | 2,449.65            | 2,449.65            | 8.57            | 8.56        | -167.79                | 0.22                              | 59.85      | 60.06                | 42.93                 | 17.13                   | 3.506             | Alert                      |
| 2,500.00                                                                         | 2,499.99            | 2,500.00            | 2,500.00            | 8.74            | 8.74        | -167.46                | -0.27                             | 59.41      | 60.26                | 42.79                 | 17.48                   | 3.448             | Alert, ES                  |
| 2,550.00                                                                         | 2,549.98            | 2,550.35            | 2,550.33            | 8.91            | 8.90        | -166.91                | -1.09                             | 58.67      | 60.60                | 42.79                 | 17.81                   | 3.403             | Alert                      |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 39H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                        |                                   |                    |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|------------------------|-----------------------------------|--------------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                        |                                   |                    |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             | Distance               |                                   | Minimum Separation |                      | Warning               |                         |                   |                            |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Footface (ft) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft)         | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 2,600.00                                                                         | 2,599.96            | 2,600.62            | 2,600.58            | 9.08            | 9.07        | -166.16                | -2.22                             | 57.65              | 61.09                | 42.95                 | 18.14                   | 3.368             | Alert                      |
| 2,650.00                                                                         | 2,649.92            | 2,650.60            | 2,650.54            | 9.25            | 9.23        | -165.43                | -3.45                             | 56.54              | 61.92                | 43.45                 | 18.47                   | 3.352             | Alert, SF                  |
| 2,700.00                                                                         | 2,699.86            | 2,700.58            | 2,700.49            | 9.42            | 9.40        | -164.82                | -4.68                             | 55.43              | 63.19                | 44.38                 | 18.81                   | 3.359             | Alert                      |
| 2,750.00                                                                         | 2,749.78            | 2,750.55            | 2,750.43            | 9.59            | 9.56        | -164.34                | -5.91                             | 54.33              | 64.88                | 45.73                 | 19.14                   | 3.389             | Alert                      |
| 2,800.00                                                                         | 2,799.68            | 2,800.50            | 2,800.35            | 9.76            | 9.73        | -163.99                | -7.14                             | 53.22              | 66.99                | 47.51                 | 19.48                   | 3.439             | Alert                      |
| 2,850.00                                                                         | 2,849.54            | 2,850.44            | 2,850.26            | 9.94            | 9.90        | -163.76                | -8.37                             | 52.12              | 69.53                | 49.71                 | 19.82                   | 3.508             | Alert                      |
| 2,900.00                                                                         | 2,899.37            | 2,900.35            | 2,900.15            | 10.11           | 10.06       | -163.64                | -9.60                             | 51.01              | 72.48                | 52.32                 | 20.16                   | 3.596             | Alert                      |
| 2,950.00                                                                         | 2,949.16            | 2,950.24            | 2,950.01            | 10.29           | 10.23       | -163.62                | -10.82                            | 49.91              | 75.85                | 55.36                 | 20.50                   | 3.701             | Alert                      |
| 3,000.00                                                                         | 2,998.90            | 3,000.09            | 2,999.83            | 10.46           | 10.40       | -163.69                | -12.05                            | 48.80              | 79.64                | 58.81                 | 20.83                   | 3.823             | Alert                      |
| 3,050.00                                                                         | 3,048.61            | 3,049.92            | 3,049.63            | 10.64           | 10.57       | -163.83                | -13.28                            | 47.70              | 83.85                | 62.67                 | 21.17                   | 3.960             | Alert                      |
| 3,100.00                                                                         | 3,098.26            | 3,100.30            | 3,099.39            | 10.82           | 10.74       | -164.04                | -14.50                            | 46.60              | 88.48                | 66.96                 | 21.52                   | 4.112             | Alert                      |
| 3,150.00                                                                         | 3,147.86            | 3,149.44            | 3,149.10            | 11.00           | 10.91       | -164.30                | -15.72                            | 45.50              | 93.52                | 71.66                 | 21.86                   | 4.279             | Alert                      |
| 3,200.00                                                                         | 3,197.40            | 3,200.86            | 3,198.77            | 11.18           | 11.08       | -164.59                | -16.95                            | 44.40              | 98.99                | 76.78                 | 22.20                   | 4.458             | Alert                      |
| 3,250.00                                                                         | 3,246.89            | 3,248.79            | 3,248.39            | 11.37           | 11.25       | -164.92                | -18.17                            | 43.30              | 104.87               | 82.33                 | 22.54                   | 4.653             | Alert                      |
| 3,300.00                                                                         | 3,296.30            | 3,301.62            | 3,297.96            | 11.56           | 11.43       | -165.26                | -19.39                            | 42.20              | 111.18               | 88.29                 | 22.89                   | 4.857             | Alert                      |
| 3,350.00                                                                         | 3,345.65            | 3,347.92            | 3,347.47            | 11.75           | 11.59       | -165.62                | -20.61                            | 41.10              | 117.91               | 94.69                 | 23.22                   | 5.077             |                            |
| 3,400.00                                                                         | 3,394.95            | 3,402.58            | 3,396.94            | 11.94           | 11.77       | -165.99                | -21.82                            | 40.01              | 124.97               | 101.38                | 23.59                   | 5.299             |                            |
| 3,450.00                                                                         | 3,444.24            | 3,446.91            | 3,446.40            | 12.13           | 11.93       | -166.33                | -23.04                            | 38.91              | 132.05               | 108.14                | 23.91                   | 5.523             |                            |
| 3,500.00                                                                         | 3,493.53            | 3,503.60            | 3,495.87            | 12.33           | 12.12       | -166.63                | -24.26                            | 37.81              | 139.14               | 114.86                | 24.28                   | 5.731             |                            |
| 3,550.00                                                                         | 3,542.82            | 3,545.89            | 3,545.33            | 12.53           | 12.27       | -166.90                | -25.48                            | 36.72              | 146.23               | 121.63                | 24.60                   | 5.944             |                            |
| 3,600.00                                                                         | 3,592.11            | 3,604.62            | 3,594.79            | 12.72           | 12.47       | -167.15                | -26.69                            | 35.62              | 153.33               | 128.35                | 24.98                   | 6.139             |                            |
| 3,650.00                                                                         | 3,641.40            | 3,644.87            | 3,644.25            | 12.92           | 12.61       | -167.38                | -27.91                            | 34.53              | 160.43               | 135.13                | 25.29                   | 6.343             |                            |
| 3,700.00                                                                         | 3,690.69            | 3,705.64            | 3,693.72            | 13.12           | 12.82       | -167.58                | -29.13                            | 33.43              | 167.53               | 141.85                | 25.68                   | 6.524             |                            |
| 3,750.00                                                                         | 3,739.99            | 3,743.85            | 3,743.18            | 13.33           | 12.96       | -167.77                | -30.35                            | 32.34              | 174.63               | 148.64                | 25.99                   | 6.720             |                            |
| 3,800.00                                                                         | 3,789.28            | 3,806.66            | 3,792.64            | 13.53           | 13.17       | -167.95                | -31.56                            | 31.24              | 181.73               | 155.35                | 26.38                   | 6.889             |                            |
| 3,850.00                                                                         | 3,838.57            | 3,842.83            | 3,842.11            | 13.74           | 13.30       | -168.11                | -32.78                            | 30.14              | 188.83               | 162.15                | 26.68                   | 7.077             |                            |
| 3,900.00                                                                         | 3,887.86            | 3,907.68            | 3,891.57            | 13.94           | 13.53       | -168.26                | -34.00                            | 29.05              | 195.94               | 168.86                | 27.08                   | 7.235             |                            |
| 3,950.00                                                                         | 3,937.15            | 3,941.81            | 3,941.03            | 14.15           | 13.65       | -168.40                | -35.22                            | 27.95              | 203.05               | 175.87                | 27.38                   | 7.416             |                            |
| 4,000.00                                                                         | 3,986.44            | 4,008.70            | 3,990.49            | 14.36           | 13.88       | -168.53                | -36.43                            | 26.86              | 210.16               | 182.37                | 27.79                   | 7.562             |                            |
| 4,050.00                                                                         | 4,035.73            | 4,040.79            | 4,039.96            | 14.57           | 13.99       | -168.65                | -37.65                            | 25.76              | 217.27               | 189.19                | 28.08                   | 7.737             |                            |
| 4,100.00                                                                         | 4,085.02            | 4,109.72            | 4,089.42            | 14.78           | 14.23       | -168.76                | -38.87                            | 24.67              | 224.38               | 195.88                | 28.50                   | 7.873             |                            |
| 4,150.00                                                                         | 4,134.31            | 4,139.77            | 4,138.88            | 14.99           | 14.34       | -168.87                | -40.09                            | 23.57              | 231.49               | 202.70                | 28.78                   | 8.043             |                            |
| 4,200.00                                                                         | 4,183.60            | 4,189.26            | 4,188.35            | 15.20           | 14.51       | -168.97                | -41.30                            | 22.47              | 238.60               | 209.46                | 29.13                   | 8.190             |                            |
| 4,250.00                                                                         | 4,232.90            | 4,238.75            | 4,237.81            | 15.41           | 14.69       | -169.07                | -42.52                            | 21.38              | 245.71               | 216.23                | 29.49                   | 8.333             |                            |
| 4,300.00                                                                         | 4,282.19            | 4,288.24            | 4,287.27            | 15.63           | 14.86       | -169.15                | -43.74                            | 20.28              | 252.82               | 222.99                | 29.84                   | 8.473             |                            |
| 4,350.00                                                                         | 4,331.48            | 4,337.73            | 4,336.73            | 15.84           | 15.03       | -169.24                | -44.96                            | 19.19              | 259.94               | 229.75                | 30.19                   | 8.610             |                            |
| 4,400.00                                                                         | 4,380.77            | 4,387.22            | 4,386.20            | 16.06           | 15.21       | -169.32                | -46.18                            | 18.09              | 267.05               | 236.51                | 30.54                   | 8.743             |                            |
| 4,450.00                                                                         | 4,430.06            | 4,436.71            | 4,435.66            | 16.27           | 15.38       | -169.40                | -47.39                            | 16.99              | 274.17               | 243.27                | 30.90                   | 8.874             |                            |
| 4,500.00                                                                         | 4,479.35            | 4,486.20            | 4,485.12            | 16.49           | 15.56       | -169.47                | -48.61                            | 15.90              | 281.28               | 250.03                | 31.25                   | 9.001             |                            |
| 4,550.00                                                                         | 4,528.64            | 4,535.69            | 4,534.59            | 16.71           | 15.73       | -169.54                | -49.83                            | 14.80              | 288.40               | 256.79                | 31.61                   | 9.125             |                            |
| 4,600.00                                                                         | 4,577.93            | 4,585.18            | 4,584.05            | 16.92           | 15.91       | -169.60                | -51.05                            | 13.71              | 295.51               | 263.55                | 31.96                   | 9.247             |                            |
| 4,650.00                                                                         | 4,627.22            | 4,634.67            | 4,633.51            | 17.14           | 16.08       | -169.66                | -52.26                            | 12.61              | 302.63               | 270.31                | 32.31                   | 9.365             |                            |
| 4,700.00                                                                         | 4,676.52            | 4,684.16            | 4,682.97            | 17.36           | 16.26       | -169.72                | -53.48                            | 11.52              | 309.75               | 277.08                | 32.67                   | 9.481             |                            |
| 4,750.00                                                                         | 4,725.81            | 4,733.65            | 4,732.44            | 17.58           | 16.43       | -169.78                | -54.70                            | 10.42              | 316.86               | 283.84                | 33.02                   | 9.595             |                            |
| 4,800.00                                                                         | 4,775.10            | 4,783.14            | 4,781.90            | 17.80           | 16.61       | -169.83                | -55.92                            | 9.32               | 323.98               | 290.60                | 33.38                   | 9.706             |                            |
| 4,850.00                                                                         | 4,824.39            | 4,832.63            | 4,831.36            | 18.02           | 16.78       | -169.88                | -57.13                            | 8.23               | 331.10               | 297.36                | 33.74                   | 9.814             |                            |
| 4,900.00                                                                         | 4,873.68            | 4,882.12            | 4,880.83            | 18.24           | 16.96       | -169.93                | -58.35                            | 7.13               | 338.21               | 304.12                | 34.09                   | 9.921             |                            |
| 4,950.00                                                                         | 4,922.97            | 4,931.61            | 4,930.29            | 18.47           | 17.13       | -169.98                | -59.57                            | 6.04               | 345.33               | 310.88                | 34.45                   | 10.025            |                            |
| 5,000.00                                                                         | 4,972.26            | 4,981.10            | 4,979.75            | 18.69           | 17.31       | -170.03                | -60.79                            | 4.94               | 352.45               | 317.55                | 34.81                   | 10.126            |                            |
| 5,050.00                                                                         | 5,021.55            | 5,030.59            | 5,029.21            | 18.91           | 17.49       | -170.07                | -62.00                            | 3.85               | 359.57               | 324.41                | 35.16                   | 10.226            |                            |
| 5,100.00                                                                         | 5,070.84            | 5,080.08            | 5,078.68            | 19.13           | 17.66       | -170.11                | -63.22                            | 2.75               | 366.69               | 331.17                | 35.52                   | 10.324            |                            |
| 5,150.00                                                                         | 5,120.13            | 5,129.57            | 5,128.14            | 19.36           | 17.84       | -170.15                | -64.44                            | 1.65               | 373.81               | 337.93                | 35.88                   | 10.419            |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design      Sec 08-T25S-R33E - Flagler 8 Fed 39H - Wellbore #1 - Permit Plan 2 |                           |                                 |                           |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Site Error:      0.00 ft |
|---------------------------------------------------------------------------------------|---------------------------|---------------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|---------------------------------|
| Survey Program:      0-MWD+IGRF                                                       |                           |                                 |                           |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Well Error:      0.50 ft |
| Reference                                                                             |                           | Offset                          |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                      |                                 |
| Measured Depth<br>Depth<br>(ft)                                                       | Vertical<br>Depth<br>(ft) | Measured Depth<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor | Warning                         |
| 5,200.00                                                                              | 5,169.43                  | 5,179.06                        | 5,177.60                  | 19.58             | 18.01          | -170.19                     | -65.66                                  | 0.56          | 380.93                     | 344.69                      | 36.23                         | 10.513               |                                 |
| 5,250.00                                                                              | 5,218.72                  | 5,228.55                        | 5,227.07                  | 19.80             | 18.19          | -170.23                     | -66.87                                  | -0.54         | 388.04                     | 351.45                      | 36.59                         | 10.605               |                                 |
| 5,300.00                                                                              | 5,268.01                  | 5,278.04                        | 5,276.53                  | 20.03             | 18.37          | -170.27                     | -68.09                                  | -1.63         | 395.16                     | 358.21                      | 36.95                         | 10.695               |                                 |
| 5,350.00                                                                              | 5,317.30                  | 5,327.53                        | 5,325.99                  | 20.25             | 18.54          | -170.30                     | -69.31                                  | -2.73         | 402.28                     | 364.98                      | 37.31                         | 10.783               |                                 |
| 5,400.00                                                                              | 5,366.59                  | 5,377.02                        | 5,375.45                  | 20.48             | 18.72          | -170.33                     | -70.53                                  | -3.82         | 409.40                     | 371.74                      | 37.67                         | 10.869               |                                 |
| 5,450.00                                                                              | 5,415.88                  | 5,426.51                        | 5,424.92                  | 20.70             | 18.90          | -170.37                     | -71.74                                  | -4.92         | 416.52                     | 378.50                      | 38.02                         | 10.954               |                                 |
| 5,500.00                                                                              | 5,465.17                  | 5,476.00                        | 5,474.38                  | 20.93             | 19.07          | -170.40                     | -72.96                                  | -6.02         | 423.64                     | 385.26                      | 38.38                         | 11.037               |                                 |
| 5,550.00                                                                              | 5,514.46                  | 5,525.49                        | 5,523.84                  | 21.16             | 19.25          | -170.43                     | -74.18                                  | -7.11         | 430.76                     | 392.02                      | 38.74                         | 11.119               |                                 |
| 5,600.00                                                                              | 5,563.75                  | 5,574.98                        | 5,573.30                  | 21.38             | 19.43          | -170.46                     | -75.40                                  | -8.21         | 437.88                     | 398.78                      | 39.10                         | 11.199               |                                 |
| 5,650.00                                                                              | 5,613.04                  | 5,624.47                        | 5,622.77                  | 21.61             | 19.60          | -170.49                     | -76.61                                  | -9.30         | 445.00                     | 405.54                      | 39.46                         | 11.277               |                                 |
| 5,700.00                                                                              | 5,662.34                  | 5,673.96                        | 5,672.23                  | 21.84             | 19.78          | -170.51                     | -77.83                                  | -10.40        | 452.12                     | 412.30                      | 39.82                         | 11.354               |                                 |
| 5,750.00                                                                              | 5,711.63                  | 5,723.45                        | 5,721.69                  | 22.06             | 19.96          | -170.54                     | -79.05                                  | -11.49        | 459.24                     | 419.06                      | 40.18                         | 11.430               |                                 |
| 5,800.00                                                                              | 5,760.92                  | 5,772.94                        | 5,771.16                  | 22.29             | 20.13          | -170.57                     | -80.27                                  | -12.59        | 466.36                     | 425.82                      | 40.54                         | 11.504               |                                 |
| 5,850.00                                                                              | 5,810.21                  | 5,822.42                        | 5,820.62                  | 22.52             | 20.31          | -170.59                     | -81.48                                  | -13.69        | 473.48                     | 432.58                      | 40.90                         | 11.577               |                                 |
| 5,900.00                                                                              | 5,859.50                  | 5,871.91                        | 5,870.08                  | 22.75             | 20.49          | -170.62                     | -82.70                                  | -14.78        | 480.60                     | 439.35                      | 41.26                         | 11.648               |                                 |
| 5,950.00                                                                              | 5,908.79                  | 5,921.40                        | 5,919.54                  | 22.97             | 20.66          | -170.64                     | -83.92                                  | -15.88        | 487.72                     | 446.11                      | 41.62                         | 11.719               |                                 |
| 6,000.00                                                                              | 5,958.08                  | 5,970.89                        | 5,969.01                  | 23.20             | 20.84          | -170.66                     | -85.14                                  | -16.97        | 494.85                     | 452.87                      | 41.98                         | 11.788               |                                 |
| 6,050.00                                                                              | 6,007.37                  | 6,020.38                        | 6,018.47                  | 23.43             | 21.02          | -170.69                     | -86.35                                  | -18.07        | 501.97                     | 459.63                      | 42.34                         | 11.856               |                                 |
| 6,100.00                                                                              | 6,056.66                  | 6,069.87                        | 6,067.93                  | 23.66             | 21.20          | -170.71                     | -87.57                                  | -19.17        | 509.09                     | 466.39                      | 42.70                         | 11.922               |                                 |
| 6,150.00                                                                              | 6,105.96                  | 6,119.36                        | 6,117.40                  | 23.89             | 21.37          | -170.73                     | -88.79                                  | -20.26        | 516.21                     | 473.15                      | 43.06                         | 11.988               |                                 |
| 6,200.00                                                                              | 6,155.25                  | 6,168.85                        | 6,166.86                  | 24.12             | 21.55          | -170.75                     | -90.01                                  | -21.36        | 523.33                     | 479.91                      | 43.42                         | 12.052               |                                 |
| 6,250.00                                                                              | 6,204.54                  | 6,218.34                        | 6,216.32                  | 24.35             | 21.73          | -170.77                     | -91.22                                  | -22.45        | 530.45                     | 486.67                      | 43.78                         | 12.115               |                                 |
| 6,300.00                                                                              | 6,253.83                  | 6,267.83                        | 6,265.78                  | 24.58             | 21.91          | -170.79                     | -92.44                                  | -23.55        | 537.57                     | 493.43                      | 44.14                         | 12.178               |                                 |
| 6,350.00                                                                              | 6,303.12                  | 6,317.32                        | 6,315.25                  | 24.81             | 22.08          | -170.81                     | -93.66                                  | -24.64        | 544.69                     | 500.19                      | 44.51                         | 12.239               |                                 |
| 6,400.00                                                                              | 6,352.41                  | 6,366.81                        | 6,364.71                  | 25.04             | 22.26          | -170.83                     | -94.88                                  | -25.74        | 551.81                     | 506.95                      | 44.87                         | 12.299               |                                 |
| 6,450.00                                                                              | 6,401.70                  | 6,416.30                        | 6,414.17                  | 25.27             | 22.44          | -170.84                     | -96.09                                  | -26.84        | 558.94                     | 513.71                      | 45.23                         | 12.358               |                                 |
| 6,500.00                                                                              | 6,450.99                  | 6,465.79                        | 6,463.64                  | 25.50             | 22.62          | -170.86                     | -97.31                                  | -27.93        | 566.06                     | 520.47                      | 45.59                         | 12.416               |                                 |
| 6,550.00                                                                              | 6,500.28                  | 6,515.28                        | 6,513.10                  | 25.73             | 22.79          | -170.88                     | -98.53                                  | -29.03        | 573.18                     | 527.23                      | 45.95                         | 12.474               |                                 |
| 6,600.00                                                                              | 6,549.57                  | 6,564.77                        | 6,562.56                  | 25.96             | 22.97          | -170.89                     | -99.75                                  | -30.12        | 580.30                     | 533.99                      | 46.31                         | 12.530               |                                 |
| 6,650.00                                                                              | 6,598.87                  | 6,614.26                        | 6,612.02                  | 26.19             | 23.15          | -170.91                     | -100.96                                 | -31.22        | 587.42                     | 540.75                      | 46.68                         | 12.585               |                                 |
| 6,700.00                                                                              | 6,648.16                  | 6,663.75                        | 6,661.49                  | 26.42             | 23.33          | -170.93                     | -102.18                                 | -32.31        | 594.54                     | 547.51                      | 47.04                         | 12.640               |                                 |
| 6,750.00                                                                              | 6,697.45                  | 6,713.24                        | 6,710.95                  | 26.66             | 23.51          | -170.94                     | -103.40                                 | -33.41        | 601.67                     | 554.27                      | 47.40                         | 12.694               |                                 |
| 6,800.00                                                                              | 6,746.74                  | 6,762.73                        | 6,760.41                  | 26.89             | 23.68          | -170.96                     | -104.62                                 | -34.51        | 608.79                     | 561.03                      | 47.76                         | 12.746               |                                 |
| 6,850.00                                                                              | 6,796.03                  | 6,812.22                        | 6,809.88                  | 27.12             | 23.86          | -170.97                     | -105.83                                 | -35.60        | 615.91                     | 567.79                      | 48.12                         | 12.799               |                                 |
| 6,900.00                                                                              | 6,845.32                  | 6,861.71                        | 6,859.34                  | 27.35             | 24.04          | -170.99                     | -107.05                                 | -36.70        | 623.03                     | 574.54                      | 48.49                         | 12.850               |                                 |
| 6,950.00                                                                              | 6,894.61                  | 6,911.20                        | 6,908.80                  | 27.58             | 24.22          | -171.00                     | -108.27                                 | -37.79        | 630.15                     | 581.30                      | 48.85                         | 12.900               |                                 |
| 7,000.00                                                                              | 6,943.90                  | 6,960.69                        | 6,958.26                  | 27.82             | 24.40          | -171.01                     | -109.49                                 | -38.89        | 637.27                     | 588.06                      | 49.21                         | 12.950               |                                 |
| 7,050.00                                                                              | 6,993.19                  | 7,010.18                        | 7,007.73                  | 28.05             | 24.57          | -171.03                     | -110.70                                 | -39.98        | 644.40                     | 594.82                      | 49.57                         | 12.999               |                                 |
| 7,100.00                                                                              | 7,042.48                  | 7,059.67                        | 7,057.19                  | 28.28             | 24.75          | -171.04                     | -111.92                                 | -41.08        | 651.52                     | 601.58                      | 49.94                         | 13.047               |                                 |
| 7,150.00                                                                              | 7,091.78                  | 7,109.16                        | 7,106.65                  | 28.51             | 24.93          | -171.05                     | -113.14                                 | -42.18        | 658.64                     | 608.34                      | 50.30                         | 13.095               |                                 |
| 7,200.00                                                                              | 7,141.07                  | 7,158.65                        | 7,156.12                  | 28.75             | 25.11          | -171.07                     | -114.36                                 | -43.27        | 665.76                     | 615.10                      | 50.66                         | 13.141               |                                 |
| 7,250.00                                                                              | 7,190.36                  | 7,208.14                        | 7,205.58                  | 28.98             | 25.29          | -171.08                     | -115.57                                 | -44.37        | 672.88                     | 621.86                      | 51.02                         | 13.187               |                                 |
| 7,300.00                                                                              | 7,239.65                  | 7,257.63                        | 7,255.04                  | 29.21             | 25.46          | -171.09                     | -116.79                                 | -45.46        | 680.01                     | 628.62                      | 51.39                         | 13.233               |                                 |
| 7,350.00                                                                              | 7,288.94                  | 7,307.12                        | 7,304.50                  | 29.44             | 25.64          | -171.10                     | -118.01                                 | -46.56        | 687.13                     | 635.38                      | 51.75                         | 13.278               |                                 |
| 7,400.00                                                                              | 7,338.23                  | 7,356.61                        | 7,353.97                  | 29.68             | 25.82          | -171.12                     | -119.23                                 | -47.66        | 694.25                     | 642.14                      | 52.11                         | 13.322               |                                 |
| 7,450.00                                                                              | 7,387.52                  | 7,406.10                        | 7,403.43                  | 29.91             | 26.00          | -171.13                     | -120.44                                 | -48.75        | 701.37                     | 648.89                      | 52.48                         | 13.365               |                                 |
| 7,500.00                                                                              | 7,436.81                  | 7,455.59                        | 7,452.89                  | 30.14             | 26.18          | -171.14                     | -121.66                                 | -49.85        | 708.49                     | 655.65                      | 52.84                         | 13.408               |                                 |
| 7,550.00                                                                              | 7,486.10                  | 7,505.08                        | 7,502.36                  | 30.38             | 26.36          | -171.15                     | -122.88                                 | -50.94        | 715.62                     | 662.41                      | 53.20                         | 13.450               |                                 |
| 7,600.00                                                                              | 7,535.40                  | 7,554.57                        | 7,551.82                  | 30.61             | 26.53          | -171.16                     | -124.10                                 | -52.04        | 722.74                     | 669.17                      | 53.57                         | 13.492               |                                 |
| 7,650.00                                                                              | 7,584.69                  | 7,604.06                        | 7,601.28                  | 30.85             | 26.71          | -171.17                     | -125.31                                 | -53.13        | 729.86                     | 675.93                      | 53.93                         | 13.533               |                                 |
| 7,700.00                                                                              | 7,633.98                  | 7,653.55                        | 7,650.74                  | 31.08             | 26.89          | -171.18                     | -126.53                                 | -54.23        | 736.98                     | 682.69                      | 54.29                         | 13.574               |                                 |
| 7,750.00                                                                              | 7,683.27                  | 7,703.04                        | 7,700.21                  | 31.31             | 27.07          | -171.19                     | -127.75                                 | -55.33        | 744.11                     | 689.45                      | 54.66                         | 13.614               |                                 |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 39H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|----------------------------------|-----------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                  |           |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N-S (ft) | +E-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 7,800.00                                                                         | 7,732.56            | 7,752.53            | 7,749.67            | 31.55           | 27.25       | -171.20               | -128.97                          | -56.42    | 751.23               | 696.21                | 55.02                   | 13.653            |                    |         |
| 7,850.00                                                                         | 7,781.85            | 7,802.02            | 7,799.13            | 31.78           | 27.43       | -171.21               | -130.18                          | -57.52    | 758.35               | 702.96                | 55.39                   | 13.692            |                    |         |
| 7,900.00                                                                         | 7,831.14            | 7,851.51            | 7,848.60            | 32.02           | 27.61       | -171.22               | -131.40                          | -58.61    | 765.47               | 709.72                | 55.75                   | 13.730            |                    |         |
| 7,950.00                                                                         | 7,880.43            | 7,901.00            | 7,898.06            | 32.25           | 27.78       | -171.23               | -132.62                          | -59.71    | 772.59               | 716.48                | 56.11                   | 13.768            |                    |         |
| 8,000.00                                                                         | 7,929.72            | 7,950.49            | 7,947.52            | 32.48           | 27.96       | -171.24               | -133.84                          | -60.80    | 779.72               | 723.24                | 56.48                   | 13.806            |                    |         |
| 8,050.00                                                                         | 7,979.01            | 8,000.02            | 7,996.98            | 32.72           | 28.14       | -171.25               | -135.05                          | -61.90    | 786.84               | 730.00                | 56.84                   | 13.843            |                    |         |
| 8,100.00                                                                         | 8,028.31            | 8,049.48            | 8,046.45            | 32.95           | 28.32       | -171.26               | -136.27                          | -63.00    | 793.92               | 736.72                | 57.21                   | 13.878            |                    |         |
| 8,150.00                                                                         | 8,077.69            | 8,100.96            | 8,095.99            | 33.18           | 28.51       | -171.28               | -137.49                          | -64.09    | 800.50               | 742.92                | 57.58                   | 13.903            |                    |         |
| 8,200.00                                                                         | 8,127.17            | 8,148.69            | 8,145.61            | 33.40           | 28.68       | -171.29               | -138.71                          | -65.19    | 806.44               | 748.50                | 57.93                   | 13.920            |                    |         |
| 8,250.00                                                                         | 8,176.74            | 8,201.59            | 8,195.30            | 33.62           | 28.87       | -171.29               | -139.93                          | -66.29    | 811.73               | 753.42                | 58.31                   | 13.922            |                    |         |
| 8,300.00                                                                         | 8,226.39            | 8,248.19            | 8,245.06            | 33.83           | 29.04       | -171.28               | -141.16                          | -67.40    | 816.38               | 757.72                | 58.66                   | 13.917            |                    |         |
| 8,350.00                                                                         | 8,276.12            | 8,301.97            | 8,294.87            | 34.03           | 29.23       | -171.26               | -142.39                          | -68.50    | 820.38               | 761.35                | 59.03                   | 13.897            |                    |         |
| 8,400.00                                                                         | 8,325.90            | 8,347.91            | 8,344.72            | 34.23           | 29.40       | -171.24               | -143.61                          | -69.60    | 823.74               | 764.36                | 59.38                   | 13.872            |                    |         |
| 8,450.00                                                                         | 8,375.75            | 8,402.16            | 8,394.62            | 34.42           | 29.59       | -171.21               | -144.84                          | -70.71    | 826.46               | 766.70                | 59.76                   | 13.830            |                    |         |
| 8,500.00                                                                         | 8,425.64            | 8,447.79            | 8,444.54            | 34.61           | 29.76       | -171.17               | -146.07                          | -71.81    | 828.53               | 768.42                | 60.10                   | 13.785            |                    |         |
| 8,550.00                                                                         | 8,475.57            | 8,497.76            | 8,494.49            | 34.78           | 29.94       | -171.12               | -147.30                          | -72.92    | 829.95               | 769.49                | 60.46                   | 13.727            |                    |         |
| 8,600.00                                                                         | 8,525.53            | 8,545.21            | 8,541.92            | 34.96           | 30.11       | -171.07               | -148.44                          | -73.95    | 830.76               | 769.95                | 60.80                   | 13.663            |                    |         |
| 8,650.00                                                                         | 8,575.51            | 8,588.49            | 8,585.18            | 35.12           | 30.27       | -171.03               | -149.19                          | -74.62    | 831.24               | 770.12                | 61.12                   | 13.601            |                    |         |
| 8,700.00                                                                         | 8,625.51            | 8,631.77            | 8,628.46            | 35.28           | 30.42       | -171.01               | -149.57                          | -74.96    | 831.49               | 770.06                | 61.43                   | 13.537            |                    |         |
| 8,750.00                                                                         | 8,675.51            | 8,678.12            | 8,674.81            | 35.44           | 30.58       | 86.53                 | -149.62                          | -75.01    | 831.52               | 769.78                | 61.74                   | 13.468            |                    |         |
| 8,800.00                                                                         | 8,725.51            | 8,728.12            | 8,724.81            | 35.59           | 30.75       | 86.53                 | -149.62                          | -75.01    | 831.52               | 769.44                | 62.08                   | 13.395            |                    |         |
| 8,850.00                                                                         | 8,775.51            | 8,778.12            | 8,774.81            | 35.74           | 30.92       | 86.53                 | -149.62                          | -75.01    | 831.52               | 769.10                | 62.42                   | 13.322            |                    |         |
| 8,900.00                                                                         | 8,825.51            | 8,828.12            | 8,824.81            | 35.89           | 31.09       | 86.53                 | -149.62                          | -75.01    | 831.52               | 768.76                | 62.75                   | 13.251            |                    |         |
| 8,950.00                                                                         | 8,875.51            | 8,878.12            | 8,874.81            | 36.04           | 31.25       | 86.53                 | -149.62                          | -75.01    | 831.52               | 768.43                | 63.09                   | 13.180            |                    |         |
| 9,000.00                                                                         | 8,925.51            | 8,928.12            | 8,924.81            | 36.19           | 31.42       | 86.53                 | -149.62                          | -75.01    | 831.52               | 768.09                | 63.43                   | 13.109            |                    |         |
| 9,050.00                                                                         | 8,975.51            | 8,978.12            | 8,974.81            | 36.34           | 31.59       | 86.53                 | -149.62                          | -75.01    | 831.52               | 767.75                | 63.77                   | 13.040            |                    |         |
| 9,100.00                                                                         | 9,025.50            | 9,026.45            | 9,023.13            | 36.49           | 31.76       | 86.90                 | -149.23                          | -75.01    | 831.51               | 767.42                | 64.09                   | 12.974            |                    |         |
| 9,150.00                                                                         | 9,075.31            | 9,072.80            | 9,069.33            | 36.64           | 31.91       | 86.93                 | -145.65                          | -75.03    | 831.50               | 767.10                | 64.40                   | 12.912            |                    |         |
| 9,200.00                                                                         | 9,124.55            | 9,119.19            | 9,115.13            | 36.78           | 32.06       | 86.97                 | -138.35                          | -75.08    | 831.46               | 766.78                | 64.68                   | 12.854            |                    |         |
| 9,250.00                                                                         | 9,172.87            | 9,165.63            | 9,160.24            | 36.90           | 32.20       | 87.04                 | -127.35                          | -75.15    | 831.41               | 766.45                | 64.96                   | 12.798            |                    |         |
| 9,300.00                                                                         | 9,219.88            | 9,212.16            | 9,204.38            | 37.02           | 32.33       | 87.13                 | -112.70                          | -75.23    | 831.35               | 766.12                | 65.23                   | 12.745            |                    |         |
| 9,350.00                                                                         | 9,265.24            | 9,258.78            | 9,247.29            | 37.12           | 32.46       | 87.24                 | -94.48                           | -75.35    | 831.28               | 765.80                | 65.49                   | 12.694            |                    |         |
| 9,400.00                                                                         | 9,308.60            | 9,305.53            | 9,288.68            | 37.21           | 32.58       | 87.37                 | -72.77                           | -75.48    | 831.20               | 765.46                | 65.74                   | 12.644            |                    |         |
| 9,450.00                                                                         | 9,349.62            | 9,352.43            | 9,328.28            | 37.29           | 32.69       | 87.52                 | -47.67                           | -75.63    | 831.11               | 765.13                | 65.99                   | 12.594            |                    |         |
| 9,500.00                                                                         | 9,387.99            | 9,399.49            | 9,365.82            | 37.36           | 32.80       | 87.69                 | -19.32                           | -75.80    | 831.02               | 764.79                | 66.23                   | 12.547            |                    |         |
| 9,550.00                                                                         | 9,423.43            | 9,446.74            | 9,401.05            | 37.42           | 32.90       | 87.87                 | 12.15                            | -76.00    | 830.93               | 764.44                | 66.49                   | 12.498            |                    |         |
| 9,600.00                                                                         | 9,455.66            | 9,494.20            | 9,433.70            | 37.48           | 33.02       | 88.07                 | 46.57                            | -76.21    | 830.84               | 764.09                | 66.75                   | 12.447            |                    |         |
| 9,650.00                                                                         | 9,484.44            | 9,541.88            | 9,463.52            | 37.53           | 33.16       | 88.28                 | 83.75                            | -76.43    | 830.76               | 763.73                | 67.03                   | 12.395            |                    |         |
| 9,700.00                                                                         | 9,509.55            | 9,589.81            | 9,490.28            | 37.58           | 33.31       | 88.51                 | 123.50                           | -76.68    | 830.68               | 763.36                | 67.32                   | 12.339            |                    |         |
| 9,750.00                                                                         | 9,530.80            | 9,638.00            | 9,513.74            | 37.63           | 33.47       | 88.75                 | 165.57                           | -76.93    | 830.61               | 762.98                | 67.63                   | 12.281            |                    |         |
| 9,800.00                                                                         | 9,548.02            | 9,686.47            | 9,533.70            | 37.69           | 33.64       | 89.00                 | 209.73                           | -77.20    | 830.55               | 762.58                | 67.97                   | 12.219            |                    |         |
| 9,850.00                                                                         | 9,561.08            | 9,735.24            | 9,549.93            | 37.77           | 33.83       | 89.25                 | 255.70                           | -77.48    | 830.51               | 762.18                | 68.34                   | 12.153            |                    |         |
| 9,900.00                                                                         | 9,569.90            | 9,784.32            | 9,562.26            | 37.86           | 34.03       | 89.52                 | 303.19                           | -77.77    | 830.49               | 761.76                | 68.73                   | 12.083            |                    |         |
| 9,942.71                                                                         | 9,574.00            | 9,826.49            | 9,569.58            | 37.96           | 34.22       | 89.74                 | 344.72                           | -78.02    | 830.48               | 761.39                | 69.09                   | 12.021            |                    |         |
| 9,950.00                                                                         | 9,574.38            | 9,833.72            | 9,570.53            | 37.97           | 34.25       | 89.78                 | 351.88                           | -78.07    | 830.48               | 761.33                | 69.15                   | 12.010            |                    |         |
| 10,000.00                                                                        | 9,575.00            | 9,883.48            | 9,574.58            | 38.11           | 34.48       | 90.02                 | 401.46                           | -78.37    | 830.49               | 760.90                | 69.60                   | 11.933            |                    |         |
| 10,050.00                                                                        | 9,575.00            | 9,933.50            | 9,575.00            | 38.28           | 34.73       | 90.05                 | 451.47                           | -78.68    | 830.51               | 760.42                | 70.09                   | 11.849            |                    |         |
| 10,100.00                                                                        | 9,575.00            | 9,983.50            | 9,575.00            | 38.47           | 35.00       | 90.05                 | 501.47                           | -78.98    | 830.53               | 759.93                | 70.60                   | 11.764            |                    |         |
| 10,150.00                                                                        | 9,575.00            | 10,033.50           | 9,575.00            | 38.69           | 35.30       | 90.05                 | 551.47                           | -79.28    | 830.55               | 759.37                | 71.18                   | 11.668            |                    |         |
| 10,200.00                                                                        | 9,575.00            | 10,083.50           | 9,575.00            | 38.94           | 35.61       | 90.05                 | 601.47                           | -79.59    | 830.57               | 758.78                | 71.78                   | 11.571            |                    |         |
| 10,250.00                                                                        | 9,575.00            | 10,133.50           | 9,575.00            | 39.21           | 35.95       | 90.05                 | 651.47                           | -79.89    | 830.58               | 758.13                | 72.46                   | 11.463            |                    |         |
| 10,300.00                                                                        | 9,575.00            | 10,183.50           | 9,575.00            | 39.51           | 36.31       | 90.05                 | 701.47                           | -80.20    | 830.60               | 757.46                | 73.15                   | 11.355            |                    |         |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 39H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                        |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|----------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|------------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                       |                     |                     |                     |                 |             |                        |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                        |                     | Offset              |                     | Semi Major Axis |             | Distance               |                                   |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                                                              | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Footface (ft) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 10,350.00                                                                        | 9,575.00            | 10,233.50           | 9,575.00            | 39.84           | 36.69       | 90.05                  | 751.47                            | -80.50     | 830.62               | 756.71                | 73.91                   | 11.239            |                    |         |
| 10,400.00                                                                        | 9,575.00            | 10,283.50           | 9,575.00            | 40.18           | 37.09       | 90.05                  | 801.47                            | -80.81     | 830.64               | 755.95                | 74.68                   | 11.122            |                    |         |
| 10,450.00                                                                        | 9,575.00            | 10,333.50           | 9,575.00            | 40.55           | 37.52       | 90.05                  | 851.47                            | -81.11     | 830.65               | 755.13                | 75.53                   | 10.998            |                    |         |
| 10,500.00                                                                        | 9,575.00            | 10,383.50           | 9,575.00            | 40.94           | 37.96       | 90.05                  | 901.47                            | -81.42     | 830.67               | 754.29                | 76.38                   | 10.875            |                    |         |
| 10,550.00                                                                        | 9,575.00            | 10,433.50           | 9,575.00            | 41.36           | 38.42       | 90.05                  | 951.47                            | -81.72     | 830.69               | 753.39                | 77.30                   | 10.746            |                    |         |
| 10,600.00                                                                        | 9,575.00            | 10,483.50           | 9,575.00            | 41.78           | 38.90       | 90.05                  | 1,001.46                          | -82.03     | 830.71               | 752.47                | 78.24                   | 10.618            |                    |         |
| 10,650.00                                                                        | 9,575.00            | 10,533.50           | 9,575.00            | 42.24           | 39.40       | 90.05                  | 1,051.46                          | -82.33     | 830.73               | 751.50                | 79.23                   | 10.485            |                    |         |
| 10,700.00                                                                        | 9,575.00            | 10,583.50           | 9,575.00            | 42.70           | 39.91       | 90.05                  | 1,101.46                          | -82.64     | 830.74               | 750.51                | 80.23                   | 10.355            |                    |         |
| 10,750.00                                                                        | 9,575.00            | 10,633.50           | 9,575.00            | 43.19           | 40.44       | 90.05                  | 1,151.46                          | -82.94     | 830.76               | 749.48                | 81.28                   | 10.220            |                    |         |
| 10,800.00                                                                        | 9,575.00            | 10,683.50           | 9,575.00            | 43.69           | 40.99       | 90.05                  | 1,201.46                          | -83.25     | 830.78               | 748.43                | 82.35                   | 10.088            |                    |         |
| 10,850.00                                                                        | 9,575.00            | 10,733.50           | 9,575.00            | 44.21           | 41.55       | 90.05                  | 1,251.46                          | -83.55     | 830.80               | 747.33                | 83.47                   | 9.953             |                    |         |
| 10,900.00                                                                        | 9,575.00            | 10,783.50           | 9,575.00            | 44.74           | 42.12       | 90.05                  | 1,301.46                          | -83.86     | 830.81               | 746.22                | 84.60                   | 9.821             |                    |         |
| 10,950.00                                                                        | 9,575.00            | 10,833.50           | 9,575.00            | 45.29           | 42.71       | 90.05                  | 1,351.46                          | -84.16     | 830.83               | 745.06                | 85.77                   | 9.687             |                    |         |
| 11,000.00                                                                        | 9,575.00            | 10,883.50           | 9,575.00            | 45.85           | 43.31       | 90.05                  | 1,401.46                          | -84.47     | 830.85               | 743.90                | 86.95                   | 9.555             |                    |         |
| 11,050.00                                                                        | 9,575.00            | 10,933.50           | 9,575.00            | 46.43           | 43.93       | 90.05                  | 1,451.46                          | -84.77     | 830.87               | 742.69                | 88.18                   | 9.423             |                    |         |
| 11,100.00                                                                        | 9,575.00            | 10,983.50           | 9,575.00            | 47.01           | 44.55       | 90.05                  | 1,501.46                          | -85.08     | 830.89               | 741.47                | 89.41                   | 9.293             |                    |         |
| 11,150.00                                                                        | 9,575.00            | 11,033.50           | 9,575.00            | 47.61           | 45.19       | 90.05                  | 1,551.45                          | -85.38     | 830.90               | 740.22                | 90.69                   | 9.162             |                    |         |
| 11,200.00                                                                        | 9,575.00            | 11,083.50           | 9,575.00            | 48.22           | 45.84       | 90.05                  | 1,601.45                          | -85.69     | 830.92               | 738.95                | 91.97                   | 9.035             |                    |         |
| 11,250.00                                                                        | 9,575.00            | 11,133.50           | 9,575.00            | 48.85           | 46.50       | 90.05                  | 1,651.45                          | -85.99     | 830.94               | 737.66                | 93.28                   | 8.908             |                    |         |
| 11,300.00                                                                        | 9,575.00            | 11,183.50           | 9,575.00            | 49.48           | 47.17       | 90.05                  | 1,701.45                          | -86.30     | 830.96               | 736.35                | 94.61                   | 8.783             |                    |         |
| 11,350.00                                                                        | 9,575.00            | 11,233.50           | 9,575.00            | 50.13           | 47.86       | 90.05                  | 1,751.45                          | -86.60     | 830.97               | 735.01                | 95.96                   | 8.659             |                    |         |
| 11,400.00                                                                        | 9,575.00            | 11,283.50           | 9,575.00            | 50.78           | 48.54       | 90.05                  | 1,801.45                          | -86.91     | 830.99               | 733.66                | 97.33                   | 8.538             |                    |         |
| 11,450.00                                                                        | 9,575.00            | 11,333.50           | 9,575.00            | 51.45           | 49.24       | 90.05                  | 1,851.45                          | -87.21     | 831.01               | 732.29                | 98.72                   | 8.418             |                    |         |
| 11,500.00                                                                        | 9,575.00            | 11,383.50           | 9,575.00            | 52.12           | 49.95       | 90.05                  | 1,901.45                          | -87.52     | 831.03               | 730.91                | 100.12                  | 8.300             |                    |         |
| 11,550.00                                                                        | 9,575.00            | 11,433.50           | 9,575.00            | 52.80           | 50.67       | 90.05                  | 1,951.45                          | -87.82     | 831.05               | 729.50                | 101.55                  | 8.184             |                    |         |
| 11,600.00                                                                        | 9,575.00            | 11,483.50           | 9,575.00            | 53.49           | 51.39       | 90.05                  | 2,001.45                          | -88.13     | 831.06               | 728.08                | 102.98                  | 8.070             |                    |         |
| 11,650.00                                                                        | 9,575.00            | 11,533.50           | 9,575.00            | 54.19           | 52.12       | 90.05                  | 2,051.45                          | -88.43     | 831.08               | 726.64                | 104.44                  | 7.957             |                    |         |
| 11,700.00                                                                        | 9,575.00            | 11,583.50           | 9,575.00            | 54.89           | 52.86       | 90.05                  | 2,101.44                          | -88.74     | 831.10               | 725.19                | 105.91                  | 7.848             |                    |         |
| 11,750.00                                                                        | 9,575.00            | 11,633.50           | 9,575.00            | 55.61           | 53.61       | 90.05                  | 2,151.44                          | -89.04     | 831.12               | 723.72                | 107.39                  | 7.739             |                    |         |
| 11,800.00                                                                        | 9,575.00            | 11,683.50           | 9,575.00            | 56.33           | 54.36       | 90.05                  | 2,201.44                          | -89.35     | 831.13               | 722.25                | 108.89                  | 7.633             |                    |         |
| 11,850.00                                                                        | 9,575.00            | 11,733.50           | 9,575.00            | 57.06           | 55.12       | 90.05                  | 2,251.44                          | -89.65     | 831.15               | 720.75                | 110.40                  | 7.529             |                    |         |
| 11,900.00                                                                        | 9,575.00            | 11,783.50           | 9,575.00            | 57.80           | 55.88       | 90.05                  | 2,301.44                          | -89.96     | 831.17               | 719.25                | 111.92                  | 7.427             |                    |         |
| 11,950.00                                                                        | 9,575.00            | 11,833.50           | 9,575.00            | 58.54           | 56.66       | 90.05                  | 2,351.44                          | -90.26     | 831.19               | 717.73                | 113.46                  | 7.326             |                    |         |
| 12,000.00                                                                        | 9,575.00            | 11,883.50           | 9,575.00            | 59.29           | 57.43       | 90.05                  | 2,401.44                          | -90.57     | 831.21               | 716.21                | 115.00                  | 7.228             |                    |         |
| 12,050.00                                                                        | 9,575.00            | 11,933.50           | 9,575.00            | 60.04           | 58.21       | 90.05                  | 2,451.44                          | -90.87     | 831.22               | 714.66                | 116.56                  | 7.131             |                    |         |
| 12,100.00                                                                        | 9,575.00            | 11,983.50           | 9,575.00            | 60.80           | 59.00       | 90.05                  | 2,501.44                          | -91.18     | 831.24               | 713.12                | 118.12                  | 7.037             |                    |         |
| 12,150.00                                                                        | 9,575.00            | 12,033.50           | 9,575.00            | 61.57           | 59.80       | 90.05                  | 2,551.44                          | -91.48     | 831.26               | 711.55                | 119.71                  | 6.944             |                    |         |
| 12,200.00                                                                        | 9,575.00            | 12,083.50           | 9,575.00            | 62.34           | 60.59       | 90.05                  | 2,601.43                          | -91.78     | 831.28               | 709.99                | 121.29                  | 6.854             |                    |         |
| 12,250.00                                                                        | 9,575.00            | 12,133.50           | 9,575.00            | 63.11           | 61.39       | 90.05                  | 2,651.43                          | -92.09     | 831.29               | 708.40                | 122.89                  | 6.764             |                    |         |
| 12,300.00                                                                        | 9,575.00            | 12,183.50           | 9,575.00            | 63.89           | 62.20       | 90.05                  | 2,701.43                          | -92.39     | 831.31               | 706.82                | 124.50                  | 6.677             |                    |         |
| 12,350.00                                                                        | 9,575.00            | 12,233.50           | 9,575.00            | 64.68           | 63.01       | 90.05                  | 2,751.43                          | -92.70     | 831.33               | 705.22                | 126.11                  | 6.592             |                    |         |
| 12,400.00                                                                        | 9,575.00            | 12,283.50           | 9,575.00            | 65.47           | 63.83       | 90.05                  | 2,801.43                          | -93.00     | 831.35               | 703.61                | 127.73                  | 6.508             |                    |         |
| 12,450.00                                                                        | 9,575.00            | 12,333.50           | 9,575.00            | 66.27           | 64.65       | 90.05                  | 2,851.43                          | -93.31     | 831.37               | 702.00                | 129.37                  | 6.426             |                    |         |
| 12,500.00                                                                        | 9,575.00            | 12,383.50           | 9,575.00            | 67.06           | 65.47       | 90.05                  | 2,901.43                          | -93.61     | 831.38               | 700.38                | 131.01                  | 6.346             |                    |         |
| 12,550.00                                                                        | 9,575.00            | 12,433.50           | 9,575.00            | 67.87           | 66.29       | 90.05                  | 2,951.43                          | -93.92     | 831.40               | 698.75                | 132.66                  | 6.267             |                    |         |
| 12,600.00                                                                        | 9,575.00            | 12,483.50           | 9,575.00            | 68.68           | 67.12       | 90.05                  | 3,001.43                          | -94.22     | 831.42               | 697.11                | 134.31                  | 6.190             |                    |         |
| 12,650.00                                                                        | 9,575.00            | 12,533.50           | 9,575.00            | 69.49           | 67.96       | 90.05                  | 3,051.43                          | -94.53     | 831.44               | 695.47                | 135.97                  | 6.115             |                    |         |
| 12,700.00                                                                        | 9,575.00            | 12,583.50           | 9,575.00            | 70.30           | 68.79       | 90.05                  | 3,101.43                          | -94.83     | 831.45               | 693.82                | 137.64                  | 6.041             |                    |         |
| 12,750.00                                                                        | 9,575.00            | 12,633.50           | 9,575.00            | 71.12           | 69.63       | 90.05                  | 3,151.42                          | -95.14     | 831.47               | 692.16                | 139.31                  | 5.968             |                    |         |
| 12,800.00                                                                        | 9,575.00            | 12,683.50           | 9,575.00            | 71.94           | 70.48       | 90.05                  | 3,201.42                          | -95.44     | 831.49               | 690.50                | 140.99                  | 5.897             |                    |         |
| 12,850.00                                                                        | 9,575.00            | 12,733.50           | 9,575.00            | 72.77           | 71.32       | 90.05                  | 3,251.42                          | -95.75     | 831.51               | 688.83                | 142.68                  | 5.828             |                    |         |
| 12,900.00                                                                        | 9,575.00            | 12,783.50           | 9,575.00            | 73.60           | 72.17       | 90.05                  | 3,301.42                          | -96.05     | 831.53               | 687.15                | 144.37                  | 5.760             |                    |         |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 39H - Wellbore #1 - Permit Plan 2 |                           |                           |                           |                   |                |                             |                        |               |                            |                             |                               |                      |         | Offset Site Error: | 0.00 ft |
|----------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|---------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                       |                           |                           |                           |                   |                |                             |                        |               |                            |                             |                               |                      |         | Offset Well Error: | 0.50 ft |
| Reference                                                                        |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |               | Distance                   |                             | Minimum<br>Separation<br>(ft) | Separation<br>Factor | Warning |                    |         |
| Measured<br>Depth<br>(ft)                                                        | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | +N/-S<br>(ft)          | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) |                               |                      |         |                    |         |
| 12,950.00                                                                        | 9,575.00                  | 12,833.50                 | 9,575.00                  | 74.43             | 73.02          | 90.05                       | 3,351.42               | -96.36        | 831.54                     | 685.47                      | 146.07                        | 5.693                |         |                    |         |
| 13,000.00                                                                        | 9,575.00                  | 12,883.50                 | 9,575.00                  | 75.26             | 73.88          | 90.05                       | 3,401.42               | -96.66        | 831.56                     | 683.79                      | 147.77                        | 5.627                |         |                    |         |
| 13,050.00                                                                        | 9,575.00                  | 12,933.50                 | 9,575.00                  | 76.10             | 74.73          | 90.05                       | 3,451.42               | -96.97        | 831.58                     | 682.09                      | 149.49                        | 5.563                |         |                    |         |
| 13,100.00                                                                        | 9,575.00                  | 12,983.50                 | 9,575.00                  | 76.94             | 75.59          | 90.05                       | 3,501.42               | -97.27        | 831.60                     | 680.40                      | 151.20                        | 5.500                |         |                    |         |
| 13,150.00                                                                        | 9,575.00                  | 13,033.50                 | 9,575.00                  | 77.79             | 76.46          | 90.05                       | 3,551.42               | -97.58        | 831.61                     | 678.70                      | 152.92                        | 5.438                |         |                    |         |
| 13,200.00                                                                        | 9,575.00                  | 13,083.50                 | 9,575.00                  | 78.63             | 77.32          | 90.05                       | 3,601.42               | -97.88        | 831.63                     | 676.99                      | 154.64                        | 5.378                |         |                    |         |
| 13,250.00                                                                        | 9,575.00                  | 13,133.50                 | 9,575.00                  | 79.48             | 78.19          | 90.05                       | 3,651.42               | -98.19        | 831.65                     | 675.28                      | 156.37                        | 5.318                |         |                    |         |
| 13,300.00                                                                        | 9,575.00                  | 13,183.50                 | 9,575.00                  | 80.33             | 79.05          | 90.05                       | 3,701.41               | -98.49        | 831.67                     | 673.57                      | 158.10                        | 5.260                |         |                    |         |
| 13,350.00                                                                        | 9,575.00                  | 13,233.50                 | 9,575.00                  | 81.19             | 79.92          | 90.05                       | 3,751.41               | -98.80        | 831.69                     | 671.85                      | 159.84                        | 5.203                |         |                    |         |
| 13,400.00                                                                        | 9,575.00                  | 13,283.50                 | 9,575.00                  | 82.04             | 80.80          | 90.05                       | 3,801.41               | -99.10        | 831.70                     | 670.12                      | 161.58                        | 5.147                |         |                    |         |
| 13,450.00                                                                        | 9,575.00                  | 13,333.50                 | 9,575.00                  | 82.90             | 81.67          | 90.05                       | 3,851.41               | -99.41        | 831.72                     | 668.40                      | 163.33                        | 5.092                |         |                    |         |
| 13,500.00                                                                        | 9,575.00                  | 13,383.50                 | 9,575.00                  | 83.76             | 82.55          | 90.05                       | 3,901.41               | -99.71        | 831.74                     | 666.67                      | 165.07                        | 5.039                |         |                    |         |
| 13,550.00                                                                        | 9,575.00                  | 13,433.50                 | 9,575.00                  | 84.62             | 83.43          | 90.05                       | 3,951.41               | -100.02       | 831.76                     | 664.93                      | 166.83                        | 4.986 Alert          |         |                    |         |
| 13,600.00                                                                        | 9,575.00                  | 13,483.50                 | 9,575.00                  | 85.49             | 84.30          | 90.05                       | 4,001.41               | -100.32       | 831.77                     | 663.19                      | 168.58                        | 4.934 Alert          |         |                    |         |
| 13,650.00                                                                        | 9,575.00                  | 13,533.50                 | 9,575.00                  | 86.35             | 85.19          | 90.05                       | 4,051.41               | -100.63       | 831.79                     | 661.45                      | 170.34                        | 4.883 Alert          |         |                    |         |
| 13,700.00                                                                        | 9,575.00                  | 13,583.50                 | 9,575.00                  | 87.22             | 86.07          | 90.05                       | 4,101.41               | -100.93       | 831.81                     | 659.70                      | 172.11                        | 4.833 Alert          |         |                    |         |
| 13,750.00                                                                        | 9,575.00                  | 13,633.50                 | 9,575.00                  | 88.09             | 86.96          | 90.05                       | 4,151.41               | -101.24       | 831.83                     | 657.95                      | 173.87                        | 4.784 Alert          |         |                    |         |
| 13,800.00                                                                        | 9,575.00                  | 13,683.50                 | 9,575.00                  | 88.96             | 87.84          | 90.05                       | 4,201.40               | -101.54       | 831.85                     | 656.20                      | 175.64                        | 4.736 Alert          |         |                    |         |
| 13,850.00                                                                        | 9,575.00                  | 13,733.50                 | 9,575.00                  | 89.84             | 88.73          | 90.05                       | 4,251.40               | -101.85       | 831.86                     | 654.45                      | 177.42                        | 4.689 Alert          |         |                    |         |
| 13,900.00                                                                        | 9,575.00                  | 13,783.50                 | 9,575.00                  | 90.71             | 89.62          | 90.05                       | 4,301.40               | -102.15       | 831.88                     | 652.69                      | 179.19                        | 4.642 Alert          |         |                    |         |
| 13,950.00                                                                        | 9,575.00                  | 13,833.50                 | 9,575.00                  | 91.59             | 90.51          | 90.05                       | 4,351.40               | -102.46       | 831.90                     | 650.93                      | 180.97                        | 4.597 Alert          |         |                    |         |
| 14,000.00                                                                        | 9,575.00                  | 13,883.50                 | 9,575.00                  | 92.47             | 91.40          | 90.05                       | 4,401.40               | -102.76       | 831.92                     | 649.16                      | 182.75                        | 4.552 Alert          |         |                    |         |
| 14,050.00                                                                        | 9,575.00                  | 13,933.50                 | 9,575.00                  | 93.35             | 92.30          | 90.05                       | 4,451.40               | -103.07       | 831.93                     | 647.40                      | 184.54                        | 4.508 Alert          |         |                    |         |
| 14,100.00                                                                        | 9,575.00                  | 13,983.50                 | 9,575.00                  | 94.23             | 93.19          | 90.05                       | 4,501.40               | -103.37       | 831.95                     | 645.63                      | 186.32                        | 4.465 Alert          |         |                    |         |
| 14,150.00                                                                        | 9,575.00                  | 14,033.50                 | 9,575.00                  | 95.12             | 94.09          | 90.05                       | 4,551.40               | -103.67       | 831.97                     | 643.85                      | 188.11                        | 4.423 Alert          |         |                    |         |
| 14,200.00                                                                        | 9,575.00                  | 14,050.76                 | 9,575.00                  | 96.00             | 94.40          | 90.05                       | 4,568.66               | -103.78       | 832.63                     | 644.02                      | 188.61                        | 4.415 Alert          |         |                    |         |
| 14,250.00                                                                        | 9,575.00                  | 14,050.76                 | 9,575.00                  | 96.89             | 94.40          | 90.05                       | 4,568.66               | -103.78       | 836.11                     | 648.17                      | 187.94                        | 4.449 Alert          |         |                    |         |
| 14,300.00                                                                        | 9,575.00                  | 14,050.76                 | 9,575.00                  | 97.78             | 94.40          | 90.05                       | 4,568.66               | -103.78       | 842.55                     | 655.83                      | 186.72                        | 4.512 Alert          |         |                    |         |
| 14,350.00                                                                        | 9,575.00                  | 14,050.76                 | 9,575.00                  | 98.67             | 94.40          | 90.05                       | 4,568.66               | -103.78       | 851.87                     | 666.90                      | 184.98                        | 4.605 Alert          |         |                    |         |
| 14,400.00                                                                        | 9,575.00                  | 14,050.76                 | 9,575.00                  | 99.56             | 94.40          | 90.05                       | 4,568.66               | -103.78       | 864.00                     | 681.23                      | 182.76                        | 4.727 Alert          |         |                    |         |
| 14,450.00                                                                        | 9,575.00                  | 14,050.76                 | 9,575.00                  | 100.45            | 94.40          | 90.05                       | 4,568.66               | -103.78       | 878.80                     | 698.65                      | 180.15                        | 4.878 Alert          |         |                    |         |
| 14,477.32                                                                        | 9,575.00                  | 14,050.76                 | 9,575.00                  | 100.94            | 94.40          | 90.05                       | 4,568.66               | -103.78       | 887.98                     | 709.40                      | 178.58                        | 4.972 Alert          |         |                    |         |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 3H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         | Offset Site Error: | 0.00 ft |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|----------------------------------|-----------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                      |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                                                                       |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                  | Minimum   |                      | Separation            |                         | Warning            |         |
| Measured Depth (ft)                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N-S (ft) | +E-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |         |
| 0.00                                                                            | 0.00                | 6.40                | 6.40                | 0.50            | 0.50        | 171.09                | -199.77                          | 31.32     | 202.21               |                       |                         |                    |         |
| 50.00                                                                           | 50.00               | 56.40               | 56.40               | 0.50            | 0.50        | 171.09                | -199.77                          | 31.32     | 202.21               | 201.20                | 1.01                    | 200.883            |         |
| 100.00                                                                          | 100.00              | 106.40              | 106.40              | 0.52            | 0.52        | 171.09                | -199.77                          | 31.32     | 202.21               | 201.17                | 1.04                    | 194.750            |         |
| 150.00                                                                          | 150.00              | 156.40              | 156.40              | 0.59            | 0.60        | 171.09                | -199.77                          | 31.32     | 202.21               | 201.02                | 1.19                    | 170.488            |         |
| 200.00                                                                          | 200.00              | 206.40              | 206.40              | 0.70            | 0.71        | 171.09                | -199.77                          | 31.32     | 202.21               | 200.80                | 1.41                    | 143.255            |         |
| 250.00                                                                          | 250.00              | 256.40              | 256.40              | 0.84            | 0.85        | 171.09                | -199.77                          | 31.32     | 202.21               | 200.53                | 1.68                    | 120.092            |         |
| 300.00                                                                          | 300.00              | 306.40              | 306.40              | 0.99            | 1.00        | 171.09                | -199.77                          | 31.32     | 202.21               | 200.23                | 1.98                    | 101.939            |         |
| 350.00                                                                          | 350.00              | 356.40              | 356.40              | 1.15            | 1.15        | 171.09                | -199.77                          | 31.32     | 202.21               | 199.91                | 2.30                    | 87.905             |         |
| 400.00                                                                          | 400.00              | 406.40              | 406.40              | 1.31            | 1.32        | 171.09                | -199.77                          | 31.32     | 202.21               | 199.58                | 2.63                    | 76.951             |         |
| 450.00                                                                          | 450.00              | 456.40              | 456.40              | 1.48            | 1.49        | 171.09                | -199.77                          | 31.32     | 202.21               | 199.25                | 2.96                    | 68.258             |         |
| 500.00                                                                          | 500.00              | 506.40              | 506.40              | 1.65            | 1.66        | 171.09                | -199.77                          | 31.32     | 202.21               | 198.91                | 3.30                    | 61.237             |         |
| 550.00                                                                          | 550.00              | 556.40              | 556.40              | 1.82            | 1.83        | 171.09                | -199.77                          | 31.32     | 202.21               | 198.57                | 3.65                    | 55.471             |         |
| 600.00                                                                          | 600.00              | 606.40              | 606.40              | 1.99            | 2.00        | 171.09                | -199.77                          | 31.32     | 202.21               | 198.22                | 3.99                    | 50.663             |         |
| 650.00                                                                          | 650.00              | 656.40              | 656.40              | 2.16            | 2.17        | 171.09                | -199.77                          | 31.32     | 202.21               | 197.87                | 4.34                    | 46.601             |         |
| 700.00                                                                          | 700.00              | 706.40              | 706.40              | 2.34            | 2.35        | 171.09                | -199.77                          | 31.32     | 202.21               | 197.52                | 4.69                    | 43.126             |         |
| 750.00                                                                          | 750.00              | 756.40              | 756.40              | 2.51            | 2.52        | 171.09                | -199.77                          | 31.32     | 202.21               | 197.17                | 5.04                    | 40.124             |         |
| 800.00                                                                          | 800.00              | 806.40              | 806.40              | 2.69            | 2.70        | 171.09                | -199.77                          | 31.32     | 202.21               | 196.82                | 5.39                    | 37.506             |         |
| 850.00                                                                          | 850.00              | 856.40              | 856.40              | 2.87            | 2.88        | 171.09                | -199.77                          | 31.32     | 202.21               | 196.47                | 5.74                    | 35.204             |         |
| 900.00                                                                          | 900.00              | 906.40              | 906.40              | 3.04            | 3.05        | 171.09                | -199.77                          | 31.32     | 202.21               | 196.11                | 6.10                    | 33.164             |         |
| 950.00                                                                          | 950.00              | 956.40              | 956.40              | 3.22            | 3.23        | 171.09                | -199.77                          | 31.32     | 202.21               | 195.76                | 6.45                    | 31.344             |         |
| 1,000.00                                                                        | 1,000.00            | 1,006.40            | 1,006.40            | 3.40            | 3.41        | 171.09                | -199.77                          | 31.32     | 202.21               | 195.41                | 6.81                    | 29.712             |         |
| 1,050.00                                                                        | 1,050.00            | 1,056.40            | 1,056.40            | 3.58            | 3.59        | 171.09                | -199.77                          | 31.32     | 202.21               | 195.05                | 7.16                    | 28.240             |         |
| 1,100.00                                                                        | 1,100.00            | 1,106.40            | 1,106.40            | 3.75            | 3.76        | 171.09                | -199.77                          | 31.32     | 202.21               | 194.70                | 7.52                    | 26.906             |         |
| 1,150.00                                                                        | 1,150.00            | 1,156.40            | 1,156.40            | 3.93            | 3.94        | 171.09                | -199.77                          | 31.32     | 202.21               | 194.34                | 7.87                    | 25.691             |         |
| 1,200.00                                                                        | 1,200.00            | 1,206.40            | 1,206.40            | 4.11            | 4.12        | 171.09                | -199.77                          | 31.32     | 202.21               | 193.98                | 8.23                    | 24.580             |         |
| 1,250.00                                                                        | 1,250.00            | 1,256.40            | 1,256.40            | 4.29            | 4.30        | 171.09                | -199.77                          | 31.32     | 202.21               | 193.63                | 8.58                    | 23.561             |         |
| 1,300.00                                                                        | 1,300.00            | 1,306.40            | 1,306.40            | 4.46            | 4.47        | 171.09                | -199.77                          | 31.32     | 202.21               | 193.27                | 8.94                    | 22.622             |         |
| 1,350.00                                                                        | 1,350.00            | 1,356.40            | 1,356.40            | 4.64            | 4.65        | 171.09                | -199.77                          | 31.32     | 202.21               | 192.92                | 9.29                    | 21.755             |         |
| 1,400.00                                                                        | 1,400.00            | 1,406.40            | 1,406.40            | 4.82            | 4.83        | 171.09                | -199.77                          | 31.32     | 202.21               | 192.56                | 9.65                    | 20.951             |         |
| 1,450.00                                                                        | 1,450.00            | 1,456.40            | 1,456.40            | 5.00            | 5.01        | 171.09                | -199.77                          | 31.32     | 202.21               | 192.20                | 10.01                   | 20.205             |         |
| 1,500.00                                                                        | 1,500.00            | 1,506.40            | 1,506.40            | 5.18            | 5.19        | 171.09                | -199.77                          | 31.32     | 202.21               | 191.85                | 10.36                   | 19.509             |         |
| 1,550.00                                                                        | 1,550.00            | 1,556.40            | 1,556.40            | 5.36            | 5.37        | 171.09                | -199.77                          | 31.32     | 202.21               | 191.49                | 10.72                   | 18.860             |         |
| 1,600.00                                                                        | 1,600.00            | 1,606.40            | 1,606.40            | 5.53            | 5.54        | 171.09                | -199.77                          | 31.32     | 202.21               | 191.13                | 11.08                   | 18.252             |         |
| 1,650.00                                                                        | 1,650.00            | 1,656.40            | 1,656.40            | 5.71            | 5.72        | 171.09                | -199.77                          | 31.32     | 202.21               | 190.78                | 11.44                   | 17.682             |         |
| 1,700.00                                                                        | 1,700.00            | 1,706.40            | 1,706.40            | 5.89            | 5.90        | 171.09                | -199.77                          | 31.32     | 202.21               | 190.42                | 11.79                   | 17.147             |         |
| 1,750.00                                                                        | 1,750.00            | 1,756.40            | 1,756.40            | 6.07            | 6.08        | 171.09                | -199.77                          | 31.32     | 202.21               | 190.06                | 12.15                   | 16.643             |         |
| 1,800.00                                                                        | 1,800.00            | 1,806.40            | 1,806.40            | 6.25            | 6.26        | 171.09                | -199.77                          | 31.32     | 202.21               | 189.70                | 12.51                   | 16.167             |         |
| 1,850.00                                                                        | 1,850.00            | 1,856.40            | 1,856.40            | 6.43            | 6.44        | 171.09                | -199.77                          | 31.32     | 202.21               | 189.35                | 12.86                   | 15.718             |         |
| 1,900.00                                                                        | 1,900.00            | 1,906.40            | 1,906.40            | 6.61            | 6.62        | 171.09                | -199.77                          | 31.32     | 202.21               | 188.99                | 13.22                   | 15.293             |         |
| 1,950.00                                                                        | 1,950.00            | 1,956.40            | 1,956.40            | 6.78            | 6.79        | 171.09                | -199.77                          | 31.32     | 202.21               | 188.63                | 13.58                   | 14.891             |         |
| 2,000.00                                                                        | 2,000.00            | 2,006.40            | 2,006.40            | 6.96            | 6.97        | 171.09                | -199.77                          | 31.32     | 202.21               | 188.27                | 13.94                   | 14.509             |         |
| 2,050.00                                                                        | 2,050.00            | 2,056.40            | 2,056.40            | 7.14            | 7.15        | 171.09                | -199.77                          | 31.32     | 202.21               | 187.92                | 14.29                   | 14.146             |         |
| 2,100.00                                                                        | 2,100.00            | 2,106.40            | 2,106.40            | 7.32            | 7.33        | 171.09                | -199.77                          | 31.32     | 202.21               | 187.56                | 14.65                   | 13.801             |         |
| 2,150.00                                                                        | 2,150.00            | 2,156.40            | 2,156.40            | 7.50            | 7.51        | 171.09                | -199.77                          | 31.32     | 202.21               | 187.20                | 15.01                   | 13.472             |         |
| 2,200.00                                                                        | 2,200.00            | 2,206.40            | 2,206.40            | 7.68            | 7.69        | 171.09                | -199.77                          | 31.32     | 202.21               | 186.84                | 15.37                   | 13.158             |         |
| 2,250.00                                                                        | 2,250.00            | 2,256.40            | 2,256.40            | 7.86            | 7.87        | 171.09                | -199.77                          | 31.32     | 202.21               | 186.49                | 15.73                   | 12.859             |         |
| 2,300.00                                                                        | 2,300.00            | 2,306.40            | 2,306.40            | 8.04            | 8.05        | 171.09                | -199.77                          | 31.32     | 202.21               | 186.13                | 16.08                   | 12.573             |         |
| 2,350.00                                                                        | 2,350.00            | 2,356.40            | 2,356.40            | 8.22            | 8.23        | 171.09                | -199.77                          | 31.32     | 202.21               | 185.77                | 16.44                   | 12.299             |         |
| 2,400.00                                                                        | 2,400.00            | 2,406.40            | 2,406.40            | 8.39            | 8.40        | 171.09                | -199.77                          | 31.32     | 202.21               | 185.41                | 16.80                   | 12.037             |         |
| 2,450.00                                                                        | 2,450.00            | 2,456.40            | 2,456.40            | 8.57            | 8.58        | -86.51                | -199.77                          | 31.32     | 202.20               | 185.05                | 17.15                   | 11.789             |         |
| 2,500.00                                                                        | 2,499.99            | 2,506.39            | 2,506.39            | 8.74            | 8.76        | -86.70                | -199.77                          | 31.32     | 202.16               | 184.65                | 17.50                   | 11.550             |         |
| 2,550.00                                                                        | 2,549.98            | 2,556.38            | 2,556.38            | 8.91            | 8.94        | -87.01                | -199.77                          | 31.32     | 202.10               | 184.25                | 17.85                   | 11.321             |         |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design      Sec 08-T25S-R33E - Flagler 8 Fed 3H - Wellbore #1 - Permit Plan 1 |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Site Error: | 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program:    0-MWD+IGRF                                                        |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Well Error: | 0.50 ft |
| Reference                                                                            |                           | Offset                    |                           | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                      | Warning            |         |
| Measured Depth<br>Depth<br>(ft)                                                      | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |         |
| 2,600.00                                                                             | 2,599.96                  | 2,606.36                  | 2,606.36                  | 9.08              | 9.12           | -87.44                      | -199.77                                 | 31.32         | 202.02                     | 183.83                      | 18.20                         | 11.101               |                    |         |
| 2,650.00                                                                             | 2,649.92                  | 2,656.32                  | 2,656.32                  | 9.25              | 9.30           | -87.99                      | -199.77                                 | 31.32         | 201.95                     | 183.40                      | 18.55                         | 10.888               |                    |         |
| 2,700.00                                                                             | 2,699.86                  | 2,706.26                  | 2,706.26                  | 9.42              | 9.48           | -88.68                      | -199.77                                 | 31.32         | 201.88                     | 182.98                      | 18.90                         | 10.683               |                    |         |
| 2,750.00                                                                             | 2,749.78                  | 2,756.18                  | 2,756.18                  | 9.59              | 9.66           | -89.48                      | -199.77                                 | 31.32         | 201.83                     | 182.58                      | 19.25                         | 10.486               |                    |         |
| 2,778.93                                                                             | 2,778.65                  | 2,785.05                  | 2,785.05                  | 9.69              | 9.76           | -90.00                      | -199.77                                 | 31.32         | 201.82                     | 182.37                      | 19.45                         | 10.376 CC            |                    |         |
| 2,800.00                                                                             | 2,799.68                  | 2,806.08                  | 2,806.08                  | 9.76              | 9.84           | -90.41                      | -199.77                                 | 31.32         | 201.83                     | 182.23                      | 19.60                         | 10.298               |                    |         |
| 2,850.00                                                                             | 2,849.54                  | 2,855.94                  | 2,855.94                  | 9.94              | 10.01          | -91.45                      | -199.77                                 | 31.32         | 201.89                     | 181.94                      | 19.95                         | 10.120               |                    |         |
| 2,900.00                                                                             | 2,899.37                  | 2,905.77                  | 2,905.77                  | 10.11             | 10.19          | -92.62                      | -199.77                                 | 31.32         | 202.04                     | 181.73                      | 20.30                         | 9.952                |                    |         |
| 2,950.00                                                                             | 2,949.16                  | 2,955.56                  | 2,955.56                  | 10.29             | 10.37          | -93.91                      | -199.77                                 | 31.32         | 202.30                     | 181.64                      | 20.66                         | 9.794 ES             |                    |         |
| 3,000.00                                                                             | 2,998.90                  | 3,005.30                  | 3,005.30                  | 10.46             | 10.55          | -95.31                      | -199.77                                 | 31.32         | 202.70                     | 181.69                      | 21.01                         | 9.648                |                    |         |
| 3,050.00                                                                             | 3,048.61                  | 3,055.01                  | 3,055.01                  | 10.64             | 10.73          | -96.82                      | -199.77                                 | 31.32         | 203.28                     | 181.91                      | 21.37                         | 9.514                |                    |         |
| 3,100.00                                                                             | 3,098.26                  | 3,104.66                  | 3,104.66                  | 10.82             | 10.90          | -98.44                      | -199.77                                 | 31.32         | 204.07                     | 182.35                      | 21.72                         | 9.395                |                    |         |
| 3,150.00                                                                             | 3,147.86                  | 3,154.26                  | 3,154.26                  | 11.00             | 11.08          | -100.16                     | -199.77                                 | 31.32         | 205.09                     | 183.01                      | 22.08                         | 9.289                |                    |         |
| 3,200.00                                                                             | 3,197.40                  | 3,203.80                  | 3,203.80                  | 11.18             | 11.26          | -101.98                     | -199.77                                 | 31.32         | 206.40                     | 183.96                      | 22.44                         | 9.198                |                    |         |
| 3,250.00                                                                             | 3,246.89                  | 3,253.29                  | 3,253.29                  | 11.37             | 11.44          | -103.88                     | -199.77                                 | 31.32         | 208.02                     | 185.22                      | 22.80                         | 9.124                |                    |         |
| 3,300.00                                                                             | 3,296.30                  | 3,302.70                  | 3,302.70                  | 11.56             | 11.61          | -105.85                     | -199.77                                 | 31.32         | 210.00                     | 186.83                      | 23.16                         | 9.067                |                    |         |
| 3,350.00                                                                             | 3,345.65                  | 3,352.05                  | 3,352.05                  | 11.75             | 11.79          | -107.89                     | -199.77                                 | 31.32         | 212.36                     | 188.83                      | 23.52                         | 9.027                |                    |         |
| 3,400.00                                                                             | 3,394.95                  | 3,401.35                  | 3,401.35                  | 11.94             | 11.97          | -109.98                     | -199.77                                 | 31.32         | 215.11                     | 191.22                      | 23.89                         | 9.005                |                    |         |
| 3,450.00                                                                             | 3,444.24                  | 3,450.64                  | 3,450.64                  | 12.13             | 12.14          | -112.02                     | -199.77                                 | 31.32         | 218.15                     | 193.90                      | 24.25                         | 8.995 SF             |                    |         |
| 3,500.00                                                                             | 3,493.53                  | 3,500.07                  | 3,499.93                  | 12.33             | 12.32          | -114.01                     | -199.77                                 | 31.32         | 221.47                     | 196.85                      | 24.62                         | 8.996                |                    |         |
| 3,550.00                                                                             | 3,542.82                  | 3,549.22                  | 3,549.22                  | 12.53             | 12.50          | -115.94                     | -199.77                                 | 31.32         | 225.06                     | 200.07                      | 24.98                         | 9.009                |                    |         |
| 3,600.00                                                                             | 3,592.11                  | 3,601.49                  | 3,598.51                  | 12.72             | 12.68          | -117.81                     | -199.77                                 | 31.32         | 228.89                     | 203.54                      | 25.36                         | 9.027                |                    |         |
| 3,650.00                                                                             | 3,641.40                  | 3,647.80                  | 3,647.80                  | 12.92             | 12.85          | -119.61                     | -199.77                                 | 31.32         | 232.97                     | 207.26                      | 25.71                         | 9.061                |                    |         |
| 3,700.00                                                                             | 3,690.69                  | 3,702.91                  | 3,697.09                  | 13.12             | 13.05          | -121.36                     | -199.77                                 | 31.32         | 237.27                     | 211.17                      | 26.10                         | 9.092                |                    |         |
| 3,750.00                                                                             | 3,739.99                  | 3,746.39                  | 3,746.39                  | 13.33             | 13.20          | -123.04                     | -199.77                                 | 31.32         | 241.79                     | 215.35                      | 26.44                         | 9.145                |                    |         |
| 3,800.00                                                                             | 3,789.28                  | 3,804.32                  | 3,795.68                  | 13.53             | 13.41          | -124.66                     | -199.77                                 | 31.32         | 246.51                     | 219.67                      | 26.83                         | 9.187                |                    |         |
| 3,850.00                                                                             | 3,838.57                  | 3,844.97                  | 3,844.97                  | 13.74             | 13.56          | -126.22                     | -199.77                                 | 31.32         | 251.42                     | 224.25                      | 27.17                         | 9.255                |                    |         |
| 3,900.00                                                                             | 3,887.86                  | 3,905.74                  | 3,894.26                  | 13.94             | 13.77          | -127.72                     | -199.77                                 | 31.32         | 256.51                     | 228.94                      | 27.57                         | 9.304                |                    |         |
| 3,950.00                                                                             | 3,937.15                  | 3,943.55                  | 3,943.55                  | 14.15             | 13.91          | -129.16                     | -199.77                                 | 31.32         | 261.77                     | 233.88                      | 27.89                         | 9.386                |                    |         |
| 4,000.00                                                                             | 3,986.44                  | 4,007.16                  | 3,992.84                  | 14.36             | 14.14          | -130.54                     | -199.77                                 | 31.32         | 267.19                     | 238.89                      | 28.30                         | 9.441                |                    |         |
| 4,050.00                                                                             | 4,035.73                  | 4,042.13                  | 4,042.13                  | 14.57             | 14.26          | -131.87                     | -199.77                                 | 31.32         | 272.77                     | 244.15                      | 28.61                         | 9.533                |                    |         |
| 4,100.00                                                                             | 4,085.02                  | 4,108.58                  | 4,091.42                  | 14.78             | 14.50          | -133.15                     | -199.77                                 | 31.32         | 278.48                     | 249.44                      | 28.93                         | 9.591                |                    |         |
| 4,150.00                                                                             | 4,134.31                  | 4,140.71                  | 4,140.71                  | 14.99             | 14.62          | -134.37                     | -199.77                                 | 31.32         | 284.33                     | 254.99                      | 29.33                         | 9.693                |                    |         |
| 4,200.00                                                                             | 4,183.60                  | 4,210.00                  | 4,190.00                  | 15.20             | 14.86          | -135.55                     | -199.77                                 | 31.32         | 290.30                     | 260.53                      | 29.77                         | 9.753                |                    |         |
| 4,250.00                                                                             | 4,232.90                  | 4,239.30                  | 4,239.30                  | 15.41             | 14.97          | -136.67                     | -199.77                                 | 31.32         | 296.38                     | 266.33                      | 30.05                         | 9.862                |                    |         |
| 4,300.00                                                                             | 4,282.19                  | 4,288.59                  | 4,288.59                  | 15.63             | 15.15          | -137.76                     | -199.77                                 | 31.32         | 302.58                     | 272.17                      | 30.41                         | 9.949                |                    |         |
| 4,350.00                                                                             | 4,331.48                  | 4,337.88                  | 4,337.88                  | 15.84             | 15.32          | -138.80                     | -199.77                                 | 31.32         | 308.88                     | 278.11                      | 30.77                         | 10.038               |                    |         |
| 4,400.00                                                                             | 4,380.77                  | 4,387.17                  | 4,387.17                  | 16.06             | 15.50          | -139.80                     | -199.77                                 | 31.32         | 315.28                     | 284.15                      | 31.13                         | 10.128               |                    |         |
| 4,450.00                                                                             | 4,430.06                  | 4,436.46                  | 4,436.46                  | 16.27             | 15.67          | -140.75                     | -199.77                                 | 31.32         | 321.77                     | 290.29                      | 31.49                         | 10.219               |                    |         |
| 4,500.00                                                                             | 4,479.35                  | 4,485.75                  | 4,485.75                  | 16.49             | 15.85          | -141.68                     | -199.77                                 | 31.32         | 328.35                     | 296.50                      | 31.85                         | 10.310               |                    |         |
| 4,550.00                                                                             | 4,528.64                  | 4,535.04                  | 4,535.04                  | 16.71             | 16.03          | -142.56                     | -199.77                                 | 31.32         | 335.01                     | 302.80                      | 32.20                         | 10.402               |                    |         |
| 4,600.00                                                                             | 4,577.93                  | 4,584.33                  | 4,584.33                  | 16.92             | 16.20          | -143.41                     | -199.77                                 | 31.32         | 341.74                     | 309.18                      | 32.56                         | 10.495               |                    |         |
| 4,650.00                                                                             | 4,627.22                  | 4,633.62                  | 4,633.62                  | 17.14             | 16.38          | -144.23                     | -199.77                                 | 31.32         | 348.55                     | 315.63                      | 32.92                         | 10.588               |                    |         |
| 4,700.00                                                                             | 4,676.52                  | 4,682.92                  | 4,682.92                  | 17.36             | 16.56          | -145.02                     | -199.77                                 | 31.32         | 355.42                     | 322.14                      | 33.28                         | 10.681               |                    |         |
| 4,750.00                                                                             | 4,725.81                  | 4,732.21                  | 4,732.21                  | 17.58             | 16.73          | -145.77                     | -199.77                                 | 31.32         | 362.36                     | 328.72                      | 33.64                         | 10.773               |                    |         |
| 4,800.00                                                                             | 4,775.10                  | 4,781.50                  | 4,781.50                  | 17.80             | 16.91          | -146.50                     | -199.77                                 | 31.32         | 369.36                     | 335.36                      | 33.99                         | 10.866               |                    |         |
| 4,850.00                                                                             | 4,824.39                  | 4,830.79                  | 4,830.79                  | 18.02             | 17.09          | -147.21                     | -199.77                                 | 31.32         | 376.41                     | 342.06                      | 34.35                         | 10.958               |                    |         |
| 4,900.00                                                                             | 4,873.68                  | 4,880.08                  | 4,880.08                  | 18.24             | 17.26          | -147.88                     | -199.77                                 | 31.32         | 383.52                     | 348.81                      | 34.71                         | 11.050               |                    |         |
| 4,950.00                                                                             | 4,922.97                  | 4,929.37                  | 4,929.37                  | 18.47             | 17.44          | -148.53                     | -199.77                                 | 31.32         | 390.68                     | 355.62                      | 35.06                         | 11.142               |                    |         |
| 5,000.00                                                                             | 4,972.26                  | 4,978.66                  | 4,978.66                  | 18.69             | 17.62          | -149.16                     | -199.77                                 | 31.32         | 397.89                     | 362.47                      | 35.42                         | 11.233               |                    |         |
| 5,050.00                                                                             | 5,021.55                  | 5,030.29                  | 5,030.29                  | 18.91             | 17.80          | -149.78                     | -199.82                                 | 31.21         | 405.06                     | 369.27                      | 35.79                         | 11.319               |                    |         |
| 5,100.00                                                                             | 5,070.84                  | 5,083.89                  | 5,083.89                  | 19.13             | 17.98          | -150.34                     | -200.17                                 | 30.49         | 411.81                     | 375.65                      | 36.16                         | 11.389               |                    |         |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 3H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Site Error: |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|----------------------------------|-----------|----------------------|-----------------------|-------------------------|-------------------|--------------------|
| Survey Program: 0-MWD+IGRF                                                      |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Well Error: |
| Reference                                                                       |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                         |           |                      |                       |                         |                   |                    |
| Measured Depth (ft)                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N-S (ft) | +E-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning            |
| 5,150.00                                                                        | 5,120.13            | 5,137.71            | 5,137.68            | 19.36           | 18.17       | -150.81               | -200.85                          | 29.09     | 418.08               | 381.55                | 36.53                   | 11.445            |                    |
| 5,200.00                                                                        | 5,169.43            | 5,191.72            | 5,191.64            | 19.58           | 18.35       | -151.20               | -201.86                          | 26.99     | 423.86               | 386.96                | 36.89                   | 11.489            |                    |
| 5,250.00                                                                        | 5,218.72            | 5,245.91            | 5,245.74            | 19.80           | 18.53       | -151.51               | -203.22                          | 24.20     | 429.12               | 391.86                | 37.26                   | 11.518            |                    |
| 5,300.00                                                                        | 5,268.01            | 5,300.26            | 5,299.95            | 20.03           | 18.71       | -151.75               | -204.91                          | 20.70     | 433.86               | 396.24                | 37.62                   | 11.533            |                    |
| 5,350.00                                                                        | 5,317.30            | 5,351.08            | 5,350.61            | 20.25           | 18.88       | -151.92               | -206.71                          | 16.98     | 438.24               | 400.26                | 37.98                   | 11.539            |                    |
| 5,400.00                                                                        | 5,366.59            | 5,400.88            | 5,400.23            | 20.48           | 19.05       | -152.08               | -208.48                          | 13.32     | 442.61               | 404.28                | 38.33                   | 11.546            |                    |
| 5,450.00                                                                        | 5,415.88            | 5,450.67            | 5,449.86            | 20.70           | 19.22       | -152.24               | -210.25                          | 9.66      | 446.98               | 408.29                | 38.69                   | 11.553            |                    |
| 5,500.00                                                                        | 5,465.17            | 5,500.46            | 5,499.49            | 20.93           | 19.39       | -152.40               | -212.02                          | 5.99      | 451.35               | 412.31                | 39.05                   | 11.559            |                    |
| 5,550.00                                                                        | 5,514.46            | 5,550.26            | 5,549.11            | 21.16           | 19.56       | -152.55               | -213.79                          | 2.33      | 455.73               | 416.33                | 39.40                   | 11.566            |                    |
| 5,600.00                                                                        | 5,563.75            | 5,600.05            | 5,598.74            | 21.38           | 19.73       | -152.70               | -215.56                          | -1.33     | 460.11               | 420.35                | 39.76                   | 11.572            |                    |
| 5,650.00                                                                        | 5,613.04            | 5,649.84            | 5,648.37            | 21.61           | 19.90       | -152.85               | -217.33                          | -4.99     | 464.50               | 424.38                | 40.12                   | 11.578            |                    |
| 5,700.00                                                                        | 5,662.34            | 5,700.37            | 5,697.99            | 21.84           | 20.07       | -153.00               | -219.10                          | -8.65     | 468.89               | 428.41                | 40.48                   | 11.583            |                    |
| 5,750.00                                                                        | 5,711.63            | 5,749.43            | 5,747.62            | 22.06           | 20.24       | -153.14               | -220.87                          | -12.32    | 473.28               | 432.44                | 40.84                   | 11.590            |                    |
| 5,800.00                                                                        | 5,760.92            | 5,799.22            | 5,797.25            | 22.29           | 20.41       | -153.28               | -222.65                          | -15.98    | 477.67               | 436.47                | 41.19                   | 11.595            |                    |
| 5,850.00                                                                        | 5,810.21            | 5,849.01            | 5,846.87            | 22.52           | 20.58       | -153.42               | -224.42                          | -19.64    | 482.07               | 440.51                | 41.55                   | 11.601            |                    |
| 5,900.00                                                                        | 5,859.50            | 5,901.19            | 5,896.50            | 22.75           | 20.76       | -153.55               | -226.19                          | -23.30    | 486.46               | 444.54                | 41.92                   | 11.604            |                    |
| 5,950.00                                                                        | 5,908.79            | 5,948.60            | 5,946.13            | 22.97           | 20.93       | -153.68               | -227.96                          | -26.96    | 490.87               | 448.59                | 42.27                   | 11.612            |                    |
| 6,000.00                                                                        | 5,958.08            | 6,001.61            | 5,995.75            | 23.20           | 21.11       | -153.81               | -229.73                          | -30.63    | 495.27               | 452.62                | 42.64                   | 11.614            |                    |
| 6,050.00                                                                        | 6,007.37            | 6,048.19            | 6,045.38            | 23.43           | 21.28       | -153.94               | -231.50                          | -34.29    | 499.68               | 456.68                | 42.99                   | 11.622            |                    |
| 6,100.00                                                                        | 6,056.66            | 6,102.02            | 6,095.01            | 23.66           | 21.46       | -154.07               | -233.27                          | -37.95    | 504.08               | 460.72                | 43.37                   | 11.623            |                    |
| 6,150.00                                                                        | 6,105.96            | 6,147.77            | 6,144.63            | 23.89           | 21.62       | -154.19               | -235.04                          | -41.61    | 508.50               | 464.78                | 43.72                   | 11.632            |                    |
| 6,200.00                                                                        | 6,155.25            | 6,202.43            | 6,194.26            | 24.12           | 21.82       | -154.31               | -236.81                          | -45.27    | 512.91               | 468.82                | 44.09                   | 11.632            |                    |
| 6,250.00                                                                        | 6,204.54            | 6,247.36            | 6,243.89            | 24.35           | 21.97       | -154.43               | -238.59                          | -48.94    | 517.33               | 472.89                | 44.44                   | 11.641            |                    |
| 6,300.00                                                                        | 6,253.83            | 6,302.85            | 6,293.51            | 24.58           | 22.17       | -154.55               | -240.36                          | -52.60    | 521.74               | 476.92                | 44.82                   | 11.641            |                    |
| 6,350.00                                                                        | 6,303.12            | 6,346.95            | 6,343.14            | 24.81           | 22.33       | -154.66               | -242.13                          | -56.26    | 526.16               | 481.00                | 45.16                   | 11.650            |                    |
| 6,400.00                                                                        | 6,352.41            | 6,403.26            | 6,392.77            | 25.04           | 22.52       | -154.78               | -243.90                          | -59.92    | 530.59               | 485.04                | 45.55                   | 11.649            |                    |
| 6,450.00                                                                        | 6,401.70            | 6,446.53            | 6,442.39            | 25.27           | 22.68       | -154.89               | -245.67                          | -63.58    | 535.01               | 489.12                | 45.89                   | 11.659            |                    |
| 6,500.00                                                                        | 6,450.99            | 6,503.67            | 6,492.02            | 25.50           | 22.88       | -155.00               | -247.44                          | -67.25    | 539.44               | 493.16                | 46.28                   | 11.657            |                    |
| 6,550.00                                                                        | 6,500.28            | 6,546.12            | 6,541.65            | 25.73           | 23.03       | -155.11               | -249.21                          | -70.91    | 543.86               | 497.25                | 46.61                   | 11.667            |                    |
| 6,600.00                                                                        | 6,549.57            | 6,604.09            | 6,591.27            | 25.96           | 23.24       | -155.21               | -250.98                          | -74.57    | 548.29               | 501.29                | 47.01                   | 11.664            |                    |
| 6,650.00                                                                        | 6,598.87            | 6,645.71            | 6,640.90            | 26.19           | 23.39       | -155.32               | -252.75                          | -78.23    | 552.73               | 505.38                | 47.34                   | 11.675            |                    |
| 6,700.00                                                                        | 6,648.16            | 6,704.50            | 6,690.53            | 26.42           | 23.60       | -155.42               | -254.53                          | -81.89    | 557.16               | 509.42                | 47.74                   | 11.672            |                    |
| 6,750.00                                                                        | 6,697.45            | 6,745.29            | 6,740.15            | 26.66           | 23.74       | -155.52               | -256.30                          | -85.56    | 561.59               | 513.53                | 48.07                   | 11.683            |                    |
| 6,800.00                                                                        | 6,746.74            | 6,804.92            | 6,789.78            | 26.89           | 23.96       | -155.62               | -258.07                          | -89.22    | 566.03               | 517.56                | 48.47                   | 11.679            |                    |
| 6,850.00                                                                        | 6,796.03            | 6,844.88            | 6,839.41            | 27.12           | 24.10       | -155.72               | -259.84                          | -92.88    | 570.47               | 521.67                | 48.80                   | 11.691            |                    |
| 6,900.00                                                                        | 6,845.32            | 6,905.33            | 6,889.03            | 27.35           | 24.32       | -155.81               | -261.61                          | -96.54    | 574.91               | 525.71                | 49.20                   | 11.686            |                    |
| 6,950.00                                                                        | 6,894.61            | 6,944.46            | 6,938.66            | 27.58           | 24.46       | -155.91               | -263.38                          | -100.20   | 579.35               | 529.83                | 49.53                   | 11.698            |                    |
| 7,000.00                                                                        | 6,943.90            | 7,005.74            | 6,988.29            | 27.82           | 24.68       | -156.00               | -265.15                          | -103.87   | 583.80               | 533.86                | 49.93                   | 11.692            |                    |
| 7,050.00                                                                        | 6,993.19            | 7,044.05            | 7,037.91            | 28.05           | 24.81       | -156.09               | -266.92                          | -107.53   | 588.24               | 537.99                | 50.26                   | 11.705            |                    |
| 7,100.00                                                                        | 7,042.48            | 7,106.16            | 7,087.54            | 28.28           | 25.04       | -156.18               | -268.69                          | -111.19   | 592.69               | 542.02                | 50.66                   | 11.698            |                    |
| 7,150.00                                                                        | 7,091.78            | 7,143.64            | 7,137.17            | 28.51           | 25.17       | -156.27               | -270.47                          | -114.85   | 597.14               | 546.15                | 50.99                   | 11.712            |                    |
| 7,200.00                                                                        | 7,141.07            | 7,206.57            | 7,186.80            | 28.75           | 25.40       | -156.36               | -272.24                          | -118.51   | 601.58               | 550.19                | 51.40                   | 11.705            |                    |
| 7,250.00                                                                        | 7,190.36            | 7,243.22            | 7,236.42            | 28.98           | 25.53       | -156.45               | -274.01                          | -122.18   | 606.04               | 554.32                | 51.72                   | 11.718            |                    |
| 7,300.00                                                                        | 7,239.65            | 7,293.02            | 7,286.05            | 29.21           | 25.72       | -156.53               | -275.78                          | -125.84   | 610.49               | 558.40                | 52.08                   | 11.722            |                    |
| 7,350.00                                                                        | 7,288.94            | 7,342.81            | 7,335.68            | 29.44           | 25.90       | -156.62               | -277.55                          | -129.50   | 614.94               | 562.49                | 52.45                   | 11.725            |                    |
| 7,400.00                                                                        | 7,338.23            | 7,407.40            | 7,385.30            | 29.68           | 26.13       | -156.70               | -279.32                          | -133.16   | 619.40               | 566.53                | 52.87                   | 11.716            |                    |
| 7,450.00                                                                        | 7,387.52            | 7,442.40            | 7,434.93            | 29.91           | 26.26       | -156.78               | -281.09                          | -136.82   | 623.85               | 570.67                | 53.18                   | 11.731            |                    |
| 7,500.00                                                                        | 7,436.81            | 7,507.81            | 7,484.56            | 30.14           | 26.50       | -156.86               | -282.86                          | -140.49   | 628.31               | 574.71                | 53.60                   | 11.722            |                    |
| 7,550.00                                                                        | 7,486.10            | 7,541.98            | 7,534.18            | 30.38           | 26.62       | -156.94               | -284.63                          | -144.15   | 632.77               | 578.85                | 53.91                   | 11.737            |                    |
| 7,600.00                                                                        | 7,535.40            | 7,591.78            | 7,583.81            | 30.61           | 26.80       | -157.02               | -286.41                          | -147.81   | 637.23               | 582.95                | 54.28                   | 11.740            |                    |
| 7,650.00                                                                        | 7,584.69            | 7,641.57            | 7,633.44            | 30.85           | 26.98       | -157.10               | -288.18                          | -151.47   | 641.69               | 587.04                | 54.65                   | 11.742            |                    |
| 7,700.00                                                                        | 7,633.98            | 7,708.64            | 7,683.06            | 31.08           | 27.23       | -157.18               | -289.95                          | -155.13   | 646.15               | 591.07                | 55.08                   | 11.732            |                    |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 3H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Site Error: |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|----------------------------------|-----------|----------------------|-----------------------|-------------------------|-------------------|--------------------|
| Survey Program: 0-MWD+IGRF                                                      |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Well Error: |
| Reference                                                                       |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                         |           |                      |                       |                         |                   |                    |
| Measured Depth (ft)                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N-S (ft) | +E-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning            |
| 7,750.00                                                                        | 7,683.27            | 7,741.16            | 7,732.69            | 31.31           | 27.35       | -157.25               | -291.72                          | -158.80   | 650.61               | 595.23                | 55.38                   | 11.748            |                    |
| 7,800.00                                                                        | 7,732.56            | 7,809.05            | 7,782.32            | 31.55           | 27.60       | -157.33               | -293.49                          | -162.46   | 655.08               | 599.26                | 55.81                   | 11.737            |                    |
| 7,850.00                                                                        | 7,781.85            | 7,840.74            | 7,831.94            | 31.78           | 27.71       | -157.40               | -295.26                          | -166.12   | 659.54               | 603.43                | 56.12                   | 11.753            |                    |
| 7,900.00                                                                        | 7,831.14            | 7,909.47            | 7,881.57            | 32.02           | 27.97       | -157.47               | -297.03                          | -169.78   | 664.01               | 607.46                | 56.55                   | 11.742            |                    |
| 7,950.00                                                                        | 7,880.43            | 7,940.33            | 7,931.20            | 32.25           | 28.08       | -157.54               | -298.80                          | -173.44   | 668.48               | 611.63                | 56.85                   | 11.759            |                    |
| 8,000.00                                                                        | 7,929.72            | 8,009.88            | 7,980.82            | 32.48           | 28.33       | -157.61               | -300.57                          | -177.11   | 672.94               | 615.68                | 57.29                   | 11.747            |                    |
| 8,050.00                                                                        | 7,979.01            | 8,039.91            | 8,030.45            | 32.72           | 28.45       | -157.68               | -302.35                          | -180.77   | 677.41               | 619.83                | 57.59                   | 11.764            |                    |
| 8,100.00                                                                        | 8,028.31            | 8,089.71            | 8,080.08            | 32.95           | 28.63       | -157.76               | -304.12                          | -184.43   | 681.85               | 623.89                | 57.95                   | 11.766            |                    |
| 8,150.00                                                                        | 8,077.69            | 8,139.55            | 8,129.75            | 33.18           | 28.81       | -157.83               | -305.89                          | -188.10   | 685.80               | 627.49                | 58.32                   | 11.759            |                    |
| 8,200.00                                                                        | 8,127.17            | 8,189.44            | 8,179.47            | 33.40           | 29.00       | -157.88               | -307.66                          | -191.76   | 689.16               | 630.47                | 58.69                   | 11.743            |                    |
| 8,250.00                                                                        | 8,176.74            | 8,239.36            | 8,229.23            | 33.62           | 29.18       | -157.90               | -309.44                          | -195.44   | 691.91               | 632.85                | 59.05                   | 11.717            |                    |
| 8,300.00                                                                        | 8,226.39            | 8,289.31            | 8,279.02            | 33.83           | 29.36       | -157.90               | -311.22                          | -199.11   | 694.05               | 634.63                | 59.42                   | 11.680            |                    |
| 8,350.00                                                                        | 8,276.12            | 8,339.29            | 8,328.82            | 34.03           | 29.55       | -157.88               | -312.99                          | -202.79   | 695.59               | 635.80                | 59.79                   | 11.634            |                    |
| 8,400.00                                                                        | 8,325.90            | 8,389.28            | 8,378.64            | 34.23           | 29.73       | -157.83               | -314.77                          | -206.46   | 696.52               | 636.36                | 60.15                   | 11.579            |                    |
| 8,450.00                                                                        | 8,375.75            | 8,439.27            | 8,428.47            | 34.42           | 29.92       | -157.76               | -316.55                          | -210.14   | 696.84               | 636.33                | 60.52                   | 11.515            |                    |
| 8,500.00                                                                        | 8,425.64            | 8,489.25            | 8,478.29            | 34.61           | 30.10       | -157.67               | -318.33                          | -213.81   | 696.57               | 635.68                | 60.88                   | 11.441            |                    |
| 8,550.00                                                                        | 8,475.57            | 8,539.22            | 8,528.09            | 34.78           | 30.29       | -157.55               | -320.11                          | -217.49   | 695.68               | 634.44                | 61.25                   | 11.358            |                    |
| 8,600.00                                                                        | 8,525.53            | 8,589.18            | 8,577.87            | 34.96           | 30.47       | -157.40               | -321.88                          | -221.16   | 694.20               | 632.59                | 61.61                   | 11.267            |                    |
| 8,650.00                                                                        | 8,575.51            | 8,639.10            | 8,627.63            | 35.12           | 30.66       | -157.23               | -323.66                          | -224.83   | 692.12               | 630.15                | 61.97                   | 11.168            |                    |
| 8,700.00                                                                        | 8,625.51            | 8,688.98            | 8,677.34            | 35.28           | 30.85       | -157.04               | -325.43                          | -228.50   | 689.44               | 627.10                | 62.34                   | 11.060            |                    |
| 8,750.00                                                                        | 8,675.51            | 8,733.87            | 8,722.09            | 35.44           | 31.01       | 100.68                | -326.96                          | -231.67   | 686.38               | 623.70                | 62.68                   | 10.951            |                    |
| 8,800.00                                                                        | 8,725.51            | 8,777.47            | 8,765.60            | 35.59           | 31.17       | 100.82                | -328.24                          | -234.30   | 683.68               | 620.68                | 63.00                   | 10.851            |                    |
| 8,850.00                                                                        | 8,775.51            | 8,821.13            | 8,809.19            | 35.74           | 31.33       | 100.95                | -329.29                          | -236.49   | 681.45               | 618.12                | 63.32                   | 10.761            |                    |
| 8,900.00                                                                        | 8,825.51            | 8,864.84            | 8,852.86            | 35.89           | 31.49       | 101.04                | -330.14                          | -238.23   | 679.68               | 616.04                | 63.64                   | 10.680            |                    |
| 8,950.00                                                                        | 8,875.51            | 8,908.60            | 8,896.59            | 36.04           | 31.64       | 101.12                | -330.76                          | -239.52   | 678.36               | 614.42                | 63.95                   | 10.608            |                    |
| 9,000.00                                                                        | 8,925.51            | 8,952.38            | 8,940.36            | 36.19           | 31.80       | 101.16                | -331.17                          | -240.36   | 677.51               | 613.26                | 64.25                   | 10.545            |                    |
| 9,050.00                                                                        | 8,975.51            | 8,996.17            | 8,984.15            | 36.34           | 31.95       | 101.19                | -331.36                          | -240.75   | 677.12               | 612.57                | 64.55                   | 10.490            |                    |
| 9,061.27                                                                        | 8,986.78            | 9,018.84            | 8,993.18            | 36.38           | 32.03       | 101.56                | -331.37                          | -240.78   | 677.10               | 612.44                | 64.66                   | 10.472            |                    |
| 9,100.00                                                                        | 9,025.50            | 9,043.92            | 9,031.90            | 36.49           | 32.11       | 101.59                | -331.37                          | -240.78   | 677.18               | 612.31                | 64.87                   | 10.439            |                    |
| 9,150.00                                                                        | 9,075.31            | 9,106.28            | 9,081.71            | 36.64           | 32.33       | 101.85                | -331.37                          | -240.78   | 678.04               | 612.78                | 65.27                   | 10.389            |                    |
| 9,200.00                                                                        | 9,124.55            | 9,142.97            | 9,130.95            | 36.78           | 32.46       | 102.37                | -331.37                          | -240.78   | 679.87               | 614.29                | 65.58                   | 10.367            |                    |
| 9,250.00                                                                        | 9,172.87            | 9,208.71            | 9,179.27            | 36.90           | 32.69       | 103.10                | -331.37                          | -240.78   | 682.79               | 616.79                | 66.00                   | 10.345            |                    |
| 9,300.00                                                                        | 9,219.88            | 9,238.30            | 9,226.28            | 37.02           | 32.79       | 103.99                | -331.37                          | -240.78   | 687.00               | 620.70                | 66.30                   | 10.362            |                    |
| 9,350.00                                                                        | 9,265.24            | 9,283.66            | 9,271.64            | 37.12           | 32.95       | 104.97                | -331.37                          | -240.78   | 692.76               | 626.11                | 66.66                   | 10.393            |                    |
| 9,400.00                                                                        | 9,308.60            | 9,327.01            | 9,315.00            | 37.21           | 33.10       | 105.96                | -331.37                          | -240.78   | 700.34               | 633.33                | 67.01                   | 10.451            |                    |
| 9,450.00                                                                        | 9,349.62            | 9,368.04            | 9,356.02            | 37.29           | 33.24       | 106.87                | -331.37                          | -240.78   | 710.01               | 642.66                | 67.35                   | 10.542            |                    |
| 9,500.00                                                                        | 9,387.99            | 9,406.41            | 9,394.39            | 37.36           | 33.38       | 107.63                | -331.37                          | -240.78   | 722.05               | 654.37                | 67.68                   | 10.668            |                    |
| 9,550.00                                                                        | 9,423.43            | 9,441.85            | 9,429.83            | 37.42           | 33.50       | 108.12                | -331.37                          | -240.78   | 736.68               | 668.69                | 67.99                   | 10.835            |                    |
| 9,600.00                                                                        | 9,455.66            | 9,474.08            | 9,462.06            | 37.48           | 33.61       | 108.28                | -331.37                          | -240.78   | 754.08               | 685.80                | 68.28                   | 11.044            |                    |
| 9,650.00                                                                        | 9,484.44            | 9,502.86            | 9,490.84            | 37.53           | 33.71       | 108.00                | -331.37                          | -240.78   | 774.35               | 705.82                | 68.53                   | 11.299            |                    |
| 9,700.00                                                                        | 9,509.55            | 9,527.97            | 9,515.95            | 37.58           | 33.80       | 107.21                | -331.37                          | -240.78   | 797.51               | 728.75                | 68.76                   | 11.599            |                    |
| 9,750.00                                                                        | 9,530.80            | 9,549.21            | 9,537.20            | 37.63           | 33.87       | 105.82                | -331.37                          | -240.78   | 823.48               | 754.53                | 68.95                   | 11.943            |                    |
| 9,800.00                                                                        | 9,548.02            | 9,566.44            | 9,554.42            | 37.69           | 33.93       | 103.74                | -331.37                          | -240.78   | 852.13               | 783.02                | 69.10                   | 12.332            |                    |
| 9,850.00                                                                        | 9,561.08            | 9,579.50            | 9,567.48            | 37.77           | 33.98       | 100.90                | -331.37                          | -240.78   | 883.21               | 813.99                | 69.22                   | 12.760            |                    |
| 9,900.00                                                                        | 9,569.90            | 9,588.31            | 9,576.30            | 37.86           | 34.01       | 97.23                 | -331.37                          | -240.78   | 916.44               | 847.14                | 69.29                   | 13.225            |                    |
| 9,950.00                                                                        | 9,574.38            | 9,607.20            | 9,580.78            | 37.97           | 34.08       | 92.73                 | -331.37                          | -240.78   | 951.47               | 882.08                | 69.39                   | 13.712            |                    |
| 10,000.00                                                                       | 9,575.00            | 9,606.58            | 9,581.40            | 38.11           | 34.07       | 90.00                 | -331.37                          | -240.78   | 987.92               | 918.52                | 69.40                   | 14.235            |                    |
| 10,050.00                                                                       | 9,575.00            | 9,606.58            | 9,581.40            | 38.28           | 34.07       | 90.00                 | -331.37                          | -240.78   | 1,025.52             | 956.10                | 69.42                   | 14.773            |                    |
| 10,100.00                                                                       | 9,575.00            | 9,606.58            | 9,581.40            | 38.47           | 34.07       | 90.00                 | -331.37                          | -240.78   | 1,064.14             | 994.73                | 69.41                   | 15.331            |                    |
| 10,150.00                                                                       | 9,575.00            | 9,606.58            | 9,581.40            | 38.69           | 34.07       | 90.00                 | -331.37                          | -240.78   | 1,103.68             | 1,034.26              | 69.42                   | 15.898            |                    |
| 10,200.00                                                                       | 9,575.00            | 9,606.58            | 9,581.40            | 38.94           | 34.07       | 90.00                 | -331.37                          | -240.78   | 1,144.03             | 1,074.62              | 69.41                   | 16.482            |                    |
| 10,250.00                                                                       | 9,575.00            | 9,606.58            | 9,581.40            | 39.21           | 34.07       | 90.00                 | -331.37                          | -240.78   | 1,185.13             | 1,115.71              | 69.42                   | 17.072            |                    |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 3H - Wellbore #1 - Permit Plan 1 |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Site Error: | 0.00 ft |
|---------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                      |                        |                        |                        |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Well Error: | 0.50 ft |
| Reference                                                                       |                        | Offset                 |                        | Semi Major Axis   |                |                             | Distance                                |               |                            |                             |                               |                      |                    | Warning |
| Measured Depth<br>(ft)                                                          | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |         |
| 10,300.00                                                                       | 9,575.00               | 9,606.58               | 9,581.40               | 39.51             | 34.07          | 90.00                       | -331.37                                 | -240.78       | 1,226.88                   | 1,157.47                    | 69.41                         | 17.676               |                    |         |
| 10,350.00                                                                       | 9,575.00               | 9,606.58               | 9,581.40               | 39.84             | 34.07          | 90.00                       | -331.37                                 | -240.78       | 1,269.23                   | 1,199.82                    | 69.41                         | 18.286               |                    |         |
| 10,400.00                                                                       | 9,575.00               | 9,606.58               | 9,581.40               | 40.18             | 34.07          | 90.00                       | -331.37                                 | -240.78       | 1,312.11                   | 1,242.71                    | 69.40                         | 18.906               |                    |         |
| 10,450.00                                                                       | 9,575.00               | 9,606.58               | 9,581.40               | 40.55             | 34.07          | 90.00                       | -331.37                                 | -240.78       | 1,355.49                   | 1,286.09                    | 69.40                         | 19.531               |                    |         |
| 10,500.00                                                                       | 9,575.00               | 9,606.58               | 9,581.40               | 40.94             | 34.07          | 90.00                       | -331.37                                 | -240.78       | 1,399.31                   | 1,329.91                    | 69.39                         | 20.165               |                    |         |
| 10,550.00                                                                       | 9,575.00               | 9,606.58               | 9,581.40               | 41.36             | 34.07          | 90.00                       | -331.37                                 | -240.78       | 1,443.53                   | 1,374.13                    | 69.39                         | 20.802               |                    |         |
| 10,600.00                                                                       | 9,575.00               | 9,606.58               | 9,581.40               | 41.78             | 34.07          | 90.00                       | -331.37                                 | -240.78       | 1,488.11                   | 1,418.73                    | 69.38                         | 21.447               |                    |         |

# Anticollision Report

Company: WCDSC Permian NM  
Project: Lea County (NAD83 New Mexico East)  
Reference Site: Sec 08-T25S-R33E  
Site Error: 0.00 ft  
Reference Well: Flagler 8 Fed 38H  
Well Error: 0.50 ft  
Reference Wellbore: Wellbore #1  
Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
TVD Reference: RKB @ 3472.50ft  
MD Reference: RKB @ 3472.50ft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM r5000.141\_Prod US  
Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 4H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                      |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                       |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                    |
| Measured Depth (ft)                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 0.00                                                                            | 0.00                | 10.00               | -10.00              | 0.50            | 0.50        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             |                       |                         |                   |                            |
| 50.00                                                                           | 50.00               | 40.00               | 40.00               | 0.50            | 0.50        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,057.84              | 1.00                    | 1,053.696         |                            |
| 100.00                                                                          | 100.00              | 110.00              | 90.00               | 0.52            | 0.53        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,057.80              | 1.05                    | 1,012.325         |                            |
| 150.00                                                                          | 150.00              | 140.00              | 140.00              | 0.59            | 0.57        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,057.68              | 1.16                    | 911.039           |                            |
| 200.00                                                                          | 200.00              | 210.00              | 190.00              | 0.70            | 0.73        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,057.42              | 1.43                    | 740.544           |                            |
| 250.00                                                                          | 250.00              | 240.00              | 240.00              | 0.84            | 0.81        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,057.20              | 1.65                    | 642.913           |                            |
| 300.00                                                                          | 300.00              | 310.00              | 290.00              | 0.99            | 1.02        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,056.84              | 2.01                    | 527.907           |                            |
| 350.00                                                                          | 350.00              | 340.00              | 340.00              | 1.15            | 1.11        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,056.59              | 2.26                    | 468.756           |                            |
| 400.00                                                                          | 400.00              | 410.00              | 390.00              | 1.31            | 1.34        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,056.19              | 2.65                    | 399.356           |                            |
| 450.00                                                                          | 450.00              | 440.00              | 440.00              | 1.48            | 1.44        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,055.93              | 2.92                    | 362.746           |                            |
| 500.00                                                                          | 500.00              | 510.00              | 490.00              | 1.65            | 1.68        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,055.52              | 3.33                    | 318.319           |                            |
| 550.00                                                                          | 550.00              | 540.00              | 540.00              | 1.82            | 1.78        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,055.24              | 3.60                    | 294.050           |                            |
| 600.00                                                                          | 600.00              | 610.00              | 590.00              | 1.99            | 2.03        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,054.83              | 4.02                    | 263.662           |                            |
| 650.00                                                                          | 650.00              | 640.00              | 640.00              | 2.16            | 2.13        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,054.55              | 4.29                    | 246.572           |                            |
| 700.00                                                                          | 700.00              | 710.00              | 690.00              | 2.34            | 2.37        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,054.13              | 4.71                    | 224.633           |                            |
| 750.00                                                                          | 750.00              | 740.00              | 740.00              | 2.51            | 2.48        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,053.85              | 4.99                    | 212.012           |                            |
| 800.00                                                                          | 800.00              | 810.00              | 790.00              | 2.69            | 2.73        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,053.43              | 5.42                    | 195.488           |                            |
| 850.00                                                                          | 850.00              | 840.00              | 840.00              | 2.87            | 2.83        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,053.15              | 5.70                    | 185.811           |                            |
| 900.00                                                                          | 900.00              | 910.00              | 890.00              | 3.04            | 3.08        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,052.72              | 6.12                    | 172.944           |                            |
| 950.00                                                                          | 950.00              | 940.00              | 940.00              | 3.22            | 3.19        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,052.44              | 6.41                    | 165.301           |                            |
| 1,000.00                                                                        | 1,000.00            | 1,010.00            | 990.00              | 3.40            | 3.43        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,052.01              | 6.83                    | 155.011           |                            |
| 1,050.00                                                                        | 1,050.00            | 1,040.00            | 1,040.00            | 3.58            | 3.54        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,051.73              | 7.11                    | 148.827           |                            |
| 1,100.00                                                                        | 1,100.00            | 1,110.00            | 1,090.00            | 3.75            | 3.79        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,051.30              | 7.54                    | 140.417           |                            |
| 1,150.00                                                                        | 1,150.00            | 1,140.00            | 1,140.00            | 3.93            | 3.89        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,051.02              | 7.83                    | 135.314           |                            |
| 1,200.00                                                                        | 1,200.00            | 1,210.00            | 1,190.00            | 4.11            | 4.14        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,050.59              | 8.25                    | 128.315           |                            |
| 1,250.00                                                                        | 1,250.00            | 1,240.00            | 1,240.00            | 4.29            | 4.25        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,050.31              | 8.54                    | 124.036           |                            |
| 1,300.00                                                                        | 1,300.00            | 1,310.00            | 1,290.00            | 4.46            | 4.50        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,049.88              | 8.96                    | 118.122           |                            |
| 1,350.00                                                                        | 1,350.00            | 1,340.00            | 1,340.00            | 4.64            | 4.61        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,049.60              | 9.25                    | 114.482           |                            |
| 1,400.00                                                                        | 1,400.00            | 1,410.00            | 1,390.00            | 4.82            | 4.86        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,049.17              | 9.68                    | 109.421           |                            |
| 1,450.00                                                                        | 1,450.00            | 1,440.00            | 1,440.00            | 5.00            | 4.96        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,048.88              | 9.96                    | 106.288           |                            |
| 1,500.00                                                                        | 1,500.00            | 1,510.00            | 1,490.00            | 5.18            | 5.21        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,048.46              | 10.39                   | 101.909           |                            |
| 1,550.00                                                                        | 1,550.00            | 1,540.00            | 1,540.00            | 5.36            | 5.32        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,048.17              | 10.68                   | 99.183            |                            |
| 1,600.00                                                                        | 1,600.00            | 1,610.00            | 1,590.00            | 5.53            | 5.57        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,047.74              | 11.10                   | 95.357            |                            |
| 1,650.00                                                                        | 1,650.00            | 1,640.00            | 1,640.00            | 5.71            | 5.68        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,047.46              | 11.39                   | 92.966            |                            |
| 1,700.00                                                                        | 1,700.00            | 1,710.00            | 1,690.00            | 5.89            | 5.93        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,047.03              | 11.82                   | 89.595            |                            |
| 1,750.00                                                                        | 1,750.00            | 1,740.00            | 1,740.00            | 6.07            | 6.03        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,046.74              | 12.10                   | 87.479            |                            |
| 1,800.00                                                                        | 1,800.00            | 1,810.00            | 1,790.00            | 6.25            | 6.28        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,046.31              | 12.53                   | 84.487            |                            |
| 1,850.00                                                                        | 1,850.00            | 1,840.00            | 1,840.00            | 6.43            | 6.39        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,046.03              | 12.82                   | 82.602            |                            |
| 1,900.00                                                                        | 1,900.00            | 1,910.00            | 1,890.00            | 6.61            | 6.64        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,045.60              | 13.25                   | 79.928            |                            |
| 1,950.00                                                                        | 1,950.00            | 1,940.00            | 1,940.00            | 6.78            | 6.75        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,045.31              | 13.53                   | 78.239            |                            |
| 2,000.00                                                                        | 2,000.00            | 2,010.00            | 1,990.00            | 6.96            | 7.00        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,044.88              | 13.96                   | 75.835            |                            |
| 2,050.00                                                                        | 2,050.00            | 2,040.00            | 2,040.00            | 7.14            | 7.11        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,044.60              | 14.25                   | 74.313            |                            |
| 2,100.00                                                                        | 2,100.00            | 2,110.00            | 2,090.00            | 7.32            | 7.36        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,044.17              | 14.68                   | 72.140            |                            |
| 2,150.00                                                                        | 2,150.00            | 2,140.00            | 2,140.00            | 7.50            | 7.46        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,043.88              | 14.96                   | 70.761            |                            |
| 2,200.00                                                                        | 2,200.00            | 2,210.00            | 2,190.00            | 7.68            | 7.71        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,043.45              | 15.39                   | 68.787            |                            |
| 2,250.00                                                                        | 2,250.00            | 2,240.00            | 2,240.00            | 7.86            | 7.82        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,043.17              | 15.68                   | 67.532            |                            |
| 2,300.00                                                                        | 2,300.00            | 2,310.00            | 2,290.00            | 8.04            | 8.07        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,042.74              | 16.11                   | 65.732            |                            |
| 2,350.00                                                                        | 2,350.00            | 2,340.00            | 2,340.00            | 8.22            | 8.18        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,042.45              | 16.39                   | 64.584            |                            |
| 2,400.00                                                                        | 2,400.00            | 2,410.00            | 2,390.00            | 8.39            | 8.43        | 100.51                | -193.19                           | 1,041.07   | 1,058.85             | 1,042.02              | 16.82                   | 62.936 CC         |                            |
| 2,450.00                                                                        | 2,450.00            | 2,440.00            | 2,440.00            | 8.57            | 8.54        | -157.03               | -193.19                           | 1,041.07   | 1,059.05             | 1,041.94              | 17.10                   | 61.915 ES         |                            |
| 2,500.00                                                                        | 2,499.99            | 2,489.99            | 2,489.99            | 8.74            | 8.72        | -157.04               | -193.19                           | 1,041.07   | 1,059.65             | 1,042.19              | 17.46                   | 60.700            |                            |
| 2,550.00                                                                        | 2,549.98            | 2,539.98            | 2,539.98            | 8.91            | 8.90        | -157.06               | -193.19                           | 1,041.07   | 1,060.65             | 1,042.85              | 17.80                   | 59.572            |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
Project: Lea County (NAD83 New Mexico East)  
Reference Site: Sec 08-T25S-R33E  
Site Error: 0.00 ft  
Reference Well: Flagler 8 Fed 38H  
Well Error: 0.50 ft  
Reference Wellbore: Wellbore #1  
Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
TVD Reference: RKB @ 3472.50ft  
MD Reference: RKB @ 3472.50ft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM r5000.141\_Prod US  
Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 4H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Site Error: | 0.00 ft |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                      |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                                                                       |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                    | Warning |
| Measured Depth (ft)                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor  |         |
| 2,600.00                                                                        | 2,599.96            | 2,589.96            | 2,589.96            | 9.08            | 9.07        | -157.09               | -193.19                           | 1,041.07   | 1,062.06             | 1,043.91              | 18.15                   | 58.509             |         |
| 2,650.00                                                                        | 2,649.92            | 2,639.92            | 2,639.92            | 9.25            | 9.25        | -157.12               | -193.19                           | 1,041.07   | 1,063.87             | 1,045.37              | 18.50                   | 57.506             |         |
| 2,700.00                                                                        | 2,699.86            | 2,689.86            | 2,689.86            | 9.42            | 9.43        | -157.16               | -193.19                           | 1,041.07   | 1,066.08             | 1,047.23              | 18.85                   | 56.561             |         |
| 2,750.00                                                                        | 2,749.78            | 2,739.78            | 2,739.78            | 9.59            | 9.61        | -157.21               | -193.19                           | 1,041.07   | 1,068.69             | 1,049.50              | 19.20                   | 55.669             |         |
| 2,800.00                                                                        | 2,799.68            | 2,789.68            | 2,789.68            | 9.76            | 9.79        | -157.27               | -193.19                           | 1,041.07   | 1,071.71             | 1,052.16              | 19.55                   | 54.831             |         |
| 2,850.00                                                                        | 2,849.54            | 2,839.54            | 2,839.54            | 9.94            | 9.97        | -157.33               | -193.19                           | 1,041.07   | 1,075.13             | 1,055.23              | 19.90                   | 54.040             |         |
| 2,900.00                                                                        | 2,899.37            | 2,889.37            | 2,889.37            | 10.11           | 10.15       | -157.40               | -193.19                           | 1,041.07   | 1,078.95             | 1,058.71              | 20.24                   | 53.297             |         |
| 2,950.00                                                                        | 2,849.16            | 2,939.16            | 2,939.16            | 10.29           | 10.32       | -157.48               | -193.19                           | 1,041.07   | 1,083.18             | 1,062.59              | 20.59                   | 52.597             |         |
| 3,000.00                                                                        | 2,998.90            | 2,988.90            | 2,988.90            | 10.46           | 10.50       | -157.56               | -193.19                           | 1,041.07   | 1,087.81             | 1,066.87              | 20.94                   | 51.940             |         |
| 3,050.00                                                                        | 3,048.61            | 3,038.61            | 3,038.61            | 10.64           | 10.68       | -157.65               | -193.19                           | 1,041.07   | 1,092.85             | 1,071.56              | 21.29                   | 51.323             |         |
| 3,100.00                                                                        | 3,098.26            | 3,088.26            | 3,088.26            | 10.82           | 10.86       | -157.75               | -193.19                           | 1,041.07   | 1,098.29             | 1,076.65              | 21.64                   | 50.745             |         |
| 3,150.00                                                                        | 3,147.86            | 3,137.86            | 3,137.86            | 11.00           | 11.04       | -157.85               | -193.19                           | 1,041.07   | 1,104.14             | 1,082.15              | 21.99                   | 50.202             |         |
| 3,200.00                                                                        | 3,197.40            | 3,187.40            | 3,187.40            | 11.18           | 11.21       | -157.95               | -193.19                           | 1,041.07   | 1,110.40             | 1,088.05              | 22.34                   | 49.695             |         |
| 3,250.00                                                                        | 3,246.89            | 3,236.89            | 3,236.89            | 11.37           | 11.39       | -158.07               | -193.19                           | 1,041.07   | 1,117.06             | 1,094.36              | 22.70                   | 49.220             |         |
| 3,300.00                                                                        | 3,296.30            | 3,286.30            | 3,286.30            | 11.56           | 11.57       | -158.19               | -193.19                           | 1,041.07   | 1,124.13             | 1,101.08              | 23.05                   | 48.778             |         |
| 3,350.00                                                                        | 3,345.65            | 3,335.65            | 3,335.65            | 11.75           | 11.74       | -158.31               | -193.19                           | 1,041.07   | 1,131.61             | 1,108.21              | 23.40                   | 48.365             |         |
| 3,400.00                                                                        | 3,394.95            | 3,384.95            | 3,384.95            | 11.94           | 11.92       | -158.45               | -193.19                           | 1,041.07   | 1,139.40             | 1,115.65              | 23.75                   | 47.978             |         |
| 3,450.00                                                                        | 3,444.24            | 3,434.24            | 3,434.24            | 12.13           | 12.10       | -158.61               | -193.19                           | 1,041.07   | 1,147.22             | 1,123.12              | 24.10                   | 47.602             |         |
| 3,500.00                                                                        | 3,493.53            | 3,483.53            | 3,483.53            | 12.33           | 12.27       | -158.76               | -193.19                           | 1,041.07   | 1,155.05             | 1,130.60              | 24.45                   | 47.238             |         |
| 3,550.00                                                                        | 3,542.82            | 3,532.82            | 3,532.82            | 12.53           | 12.45       | -158.91               | -193.19                           | 1,041.07   | 1,162.89             | 1,138.09              | 24.80                   | 46.882             |         |
| 3,600.00                                                                        | 3,592.11            | 3,582.11            | 3,582.11            | 12.72           | 12.63       | -159.06               | -193.19                           | 1,041.07   | 1,170.74             | 1,145.58              | 25.16                   | 46.537             |         |
| 3,650.00                                                                        | 3,641.40            | 3,631.40            | 3,631.40            | 12.92           | 12.80       | -159.20               | -193.19                           | 1,041.07   | 1,178.59             | 1,153.08              | 25.51                   | 46.200             |         |
| 3,700.00                                                                        | 3,690.69            | 3,680.69            | 3,680.69            | 13.12           | 12.98       | -159.35               | -193.19                           | 1,041.07   | 1,186.45             | 1,160.59              | 25.86                   | 45.872             |         |
| 3,750.00                                                                        | 3,739.99            | 3,729.99            | 3,729.99            | 13.33           | 13.16       | -159.49               | -193.19                           | 1,041.07   | 1,194.32             | 1,168.10              | 26.22                   | 45.552             |         |
| 3,800.00                                                                        | 3,789.28            | 3,779.28            | 3,779.28            | 13.53           | 13.33       | -159.63               | -193.19                           | 1,041.07   | 1,202.20             | 1,175.62              | 26.57                   | 45.241             |         |
| 3,850.00                                                                        | 3,838.57            | 3,828.57            | 3,828.57            | 13.74           | 13.51       | -159.77               | -193.19                           | 1,041.07   | 1,210.08             | 1,183.15              | 26.93                   | 44.937             |         |
| 3,900.00                                                                        | 3,887.86            | 3,877.86            | 3,877.86            | 13.94           | 13.69       | -159.90               | -193.19                           | 1,041.07   | 1,217.97             | 1,190.68              | 27.28                   | 44.641             |         |
| 3,950.00                                                                        | 3,937.15            | 3,927.15            | 3,927.15            | 14.15           | 13.86       | -160.04               | -193.19                           | 1,041.07   | 1,225.86             | 1,198.22              | 27.64                   | 44.352             |         |
| 4,000.00                                                                        | 3,986.44            | 3,976.44            | 3,976.44            | 14.36           | 14.04       | -160.17               | -193.19                           | 1,041.07   | 1,233.76             | 1,205.77              | 28.00                   | 44.071             |         |
| 4,050.00                                                                        | 4,035.73            | 4,025.73            | 4,025.73            | 14.57           | 14.20       | -160.29               | -193.23                           | 1,041.09   | 1,241.70             | 1,213.36              | 28.34                   | 43.818             |         |
| 4,100.00                                                                        | 4,085.02            | 4,075.02            | 4,075.02            | 14.78           | 14.36       | -160.39               | -193.56                           | 1,041.22   | 1,249.80             | 1,221.13              | 28.67                   | 43.597             |         |
| 4,150.00                                                                        | 4,134.31            | 4,124.31            | 4,124.31            | 14.99           | 14.51       | -160.48               | -194.22                           | 1,041.48   | 1,258.09             | 1,229.09              | 29.00                   | 43.386             |         |
| 4,200.00                                                                        | 4,183.60            | 4,173.60            | 4,173.60            | 15.20           | 14.67       | -160.57               | -195.08                           | 1,041.83   | 1,266.45             | 1,237.12              | 29.34                   | 43.169             |         |
| 4,250.00                                                                        | 4,232.90            | 4,222.90            | 4,222.90            | 15.41           | 14.83       | -160.66               | -195.94                           | 1,042.17   | 1,274.82             | 1,245.14              | 29.68                   | 42.955             |         |
| 4,300.00                                                                        | 4,282.19            | 4,272.19            | 4,272.19            | 15.63           | 14.99       | -160.75               | -196.80                           | 1,042.51   | 1,283.19             | 1,253.17              | 30.02                   | 42.746             |         |
| 4,350.00                                                                        | 4,331.48            | 4,321.48            | 4,321.48            | 15.84           | 15.15       | -160.83               | -197.65                           | 1,042.85   | 1,291.56             | 1,261.20              | 30.36                   | 42.541             |         |
| 4,400.00                                                                        | 4,380.77            | 4,370.77            | 4,370.77            | 16.06           | 15.31       | -160.92               | -198.51                           | 1,043.19   | 1,299.94             | 1,269.24              | 30.70                   | 42.339             |         |
| 4,450.00                                                                        | 4,430.06            | 4,420.06            | 4,420.06            | 16.27           | 15.47       | -161.00               | -199.37                           | 1,043.54   | 1,308.32             | 1,277.27              | 31.05                   | 42.141             |         |
| 4,500.00                                                                        | 4,479.35            | 4,469.35            | 4,469.35            | 16.49           | 15.63       | -161.09               | -200.22                           | 1,043.88   | 1,316.70             | 1,285.31              | 31.39                   | 41.947             |         |
| 4,550.00                                                                        | 4,528.64            | 4,518.64            | 4,518.64            | 16.71           | 15.79       | -161.17               | -201.08                           | 1,044.22   | 1,325.08             | 1,293.35              | 31.73                   | 41.757             |         |
| 4,600.00                                                                        | 4,577.93            | 4,567.93            | 4,567.93            | 16.92           | 15.96       | -161.25               | -201.94                           | 1,044.56   | 1,333.47             | 1,301.39              | 32.08                   | 41.569             |         |
| 4,650.00                                                                        | 4,627.22            | 4,617.22            | 4,617.22            | 17.14           | 16.12       | -161.33               | -202.79                           | 1,044.90   | 1,341.86             | 1,309.43              | 32.42                   | 41.386             |         |
| 4,700.00                                                                        | 4,676.52            | 4,666.52            | 4,666.52            | 17.36           | 16.28       | -161.41               | -203.65                           | 1,045.24   | 1,350.25             | 1,317.48              | 32.77                   | 41.205             |         |
| 4,750.00                                                                        | 4,725.81            | 4,715.81            | 4,715.81            | 17.58           | 16.45       | -161.49               | -204.51                           | 1,045.59   | 1,358.64             | 1,325.53              | 33.11                   | 41.028             |         |
| 4,800.00                                                                        | 4,775.10            | 4,765.10            | 4,765.10            | 17.80           | 16.61       | -161.56               | -205.37                           | 1,045.93   | 1,367.04             | 1,333.58              | 33.46                   | 40.854             |         |
| 4,850.00                                                                        | 4,824.39            | 4,814.39            | 4,814.39            | 18.02           | 16.77       | -161.64               | -206.22                           | 1,046.27   | 1,375.44             | 1,341.63              | 33.81                   | 40.684             |         |
| 4,900.00                                                                        | 4,873.68            | 4,863.68            | 4,863.68            | 18.24           | 16.94       | -161.71               | -207.08                           | 1,046.61   | 1,383.84             | 1,349.68              | 34.16                   | 40.516             |         |
| 4,950.00                                                                        | 4,922.97            | 4,912.97            | 4,912.97            | 18.47           | 17.10       | -161.79               | -207.94                           | 1,046.95   | 1,392.24             | 1,357.74              | 34.50                   | 40.351             |         |
| 5,000.00                                                                        | 4,972.26            | 4,962.26            | 4,962.26            | 18.69           | 17.27       | -161.86               | -208.79                           | 1,047.30   | 1,400.64             | 1,365.79              | 34.85                   | 40.189             |         |
| 5,050.00                                                                        | 5,021.55            | 5,011.55            | 5,011.55            | 18.91           | 17.43       | -161.93               | -209.65                           | 1,047.64   | 1,409.05             | 1,373.85              | 35.20                   | 40.028             |         |
| 5,100.00                                                                        | 5,070.84            | 5,060.84            | 5,060.84            | 19.13           | 17.60       | -162.00               | -210.51                           | 1,047.98   | 1,417.46             | 1,381.91              | 35.55                   | 39.874             |         |
| 5,150.00                                                                        | 5,120.13            | 5,110.13            | 5,110.13            | 19.36           | 17.77       | -162.07               | -211.37                           | 1,048.32   | 1,425.87             | 1,389.96              | 35.91                   | 39.707             |         |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 4H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                      |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                       |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 5,200.00                                                                        | 5,169.43            | 5,147.47            | 5,147.28            | 19.58           | 17.93       | -162.14               | -212.22                           | 1,048.66   | 1,434.29             | 1,398.04              | 36.25                   | 39.569            |                    |         |
| 5,250.00                                                                        | 5,218.72            | 5,203.28            | 5,196.53            | 19.80           | 18.12       | -162.21               | -213.08                           | 1,049.01   | 1,442.70             | 1,406.08              | 36.62                   | 39.397            |                    |         |
| 5,300.00                                                                        | 5,268.01            | 5,245.98            | 5,245.77            | 20.03           | 18.26       | -162.28               | -213.94                           | 1,049.35   | 1,451.12             | 1,414.17              | 36.95                   | 39.275            |                    |         |
| 5,350.00                                                                        | 5,317.30            | 5,304.76            | 5,295.02            | 20.25           | 18.46       | -162.35               | -214.79                           | 1,049.69   | 1,459.54             | 1,422.21              | 37.33                   | 39.097            |                    |         |
| 5,400.00                                                                        | 5,366.59            | 5,344.49            | 5,344.27            | 20.48           | 18.59       | -162.42               | -215.65                           | 1,050.03   | 1,467.96             | 1,430.31              | 37.65                   | 38.990            |                    |         |
| 5,450.00                                                                        | 5,415.88            | 5,406.25            | 5,393.52            | 20.70           | 18.80       | -162.48               | -216.51                           | 1,050.37   | 1,476.39             | 1,438.34              | 38.04                   | 38.808            |                    |         |
| 5,500.00                                                                        | 5,465.17            | 5,443.01            | 5,442.77            | 20.93           | 18.93       | -162.55               | -217.37                           | 1,050.71   | 1,484.81             | 1,446.46              | 38.35                   | 38.715            |                    |         |
| 5,550.00                                                                        | 5,514.46            | 5,507.74            | 5,492.02            | 21.16           | 19.15       | -162.61               | -218.22                           | 1,051.06   | 1,493.24             | 1,454.48              | 38.76                   | 38.528 SF         |                    |         |

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 7H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |                                   |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                      |                     |                     |                     |                 |             |                       |                                   |                                   |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                       |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   |                                   |                      |                       |                         | Warning           |                            |
| Measured Depth (ft)                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 0.00                                                                            | 0.00                | 6.90                | 6.90                | 0.50            | 0.50        | 179.62                | -199.96                           | 1.33                              | 199.96               |                       |                         |                   |                            |
| 50.00                                                                           | 50.00               | 56.90               | 56.90               | 0.50            | 0.50        | 179.62                | -199.96                           | 1.33                              | 199.96               | 198.96                | 1.01                    | 198.616           |                            |
| 100.00                                                                          | 100.00              | 106.90              | 106.90              | 0.52            | 0.52        | 179.62                | -199.96                           | 1.33                              | 199.96               | 198.93                | 1.04                    | 192.494           |                            |
| 150.00                                                                          | 150.00              | 156.90              | 156.90              | 0.59            | 0.60        | 179.62                | -199.96                           | 1.33                              | 199.96               | 198.78                | 1.19                    | 168.456           |                            |
| 200.00                                                                          | 200.00              | 206.90              | 206.90              | 0.70            | 0.71        | 179.62                | -199.96                           | 1.33                              | 199.96               | 198.55                | 1.41                    | 141.536           |                            |
| 250.00                                                                          | 250.00              | 256.90              | 256.90              | 0.84            | 0.85        | 179.62                | -199.96                           | 1.33                              | 199.96               | 198.28                | 1.69                    | 118.657           |                            |
| 300.00                                                                          | 300.00              | 306.90              | 306.90              | 0.99            | 1.00        | 179.62                | -199.96                           | 1.33                              | 199.96               | 197.98                | 1.99                    | 100.728           |                            |
| 350.00                                                                          | 350.00              | 356.90              | 356.90              | 1.15            | 1.16        | 179.62                | -199.96                           | 1.33                              | 199.96               | 197.66                | 2.30                    | 86.867            |                            |
| 400.00                                                                          | 400.00              | 406.90              | 406.90              | 1.31            | 1.32        | 179.62                | -199.96                           | 1.33                              | 199.96               | 197.34                | 2.63                    | 76.048            |                            |
| 450.00                                                                          | 450.00              | 456.90              | 456.90              | 1.48            | 1.49        | 179.62                | -199.96                           | 1.33                              | 199.96               | 197.00                | 2.96                    | 67.462            |                            |
| 500.00                                                                          | 500.00              | 506.90              | 506.90              | 1.65            | 1.66        | 179.62                | -199.96                           | 1.33                              | 199.96               | 196.66                | 3.30                    | 60.526            |                            |
| 550.00                                                                          | 550.00              | 556.90              | 556.90              | 1.82            | 1.83        | 179.62                | -199.96                           | 1.33                              | 199.96               | 196.32                | 3.65                    | 54.829            |                            |
| 600.00                                                                          | 600.00              | 606.90              | 606.90              | 1.99            | 2.00        | 179.62                | -199.96                           | 1.33                              | 199.96               | 195.97                | 3.99                    | 50.079            |                            |
| 650.00                                                                          | 650.00              | 656.90              | 656.90              | 2.16            | 2.18        | 179.62                | -199.96                           | 1.33                              | 199.96               | 195.62                | 4.34                    | 46.064            |                            |
| 700.00                                                                          | 700.00              | 706.90              | 706.90              | 2.34            | 2.35        | 179.62                | -199.96                           | 1.33                              | 199.96               | 195.27                | 4.69                    | 42.632            |                            |
| 750.00                                                                          | 750.00              | 756.90              | 756.90              | 2.51            | 2.53        | 179.62                | -199.96                           | 1.33                              | 199.96               | 194.92                | 5.04                    | 39.665            |                            |
| 800.00                                                                          | 800.00              | 806.90              | 806.90              | 2.69            | 2.70        | 179.62                | -199.96                           | 1.33                              | 199.96               | 194.57                | 5.39                    | 37.077            |                            |
| 850.00                                                                          | 850.00              | 856.90              | 856.90              | 2.87            | 2.88        | 179.62                | -199.96                           | 1.33                              | 199.96               | 194.22                | 5.75                    | 34.802            |                            |
| 900.00                                                                          | 900.00              | 906.90              | 906.90              | 3.04            | 3.06        | 179.62                | -199.96                           | 1.33                              | 199.96               | 193.87                | 6.10                    | 32.786            |                            |
| 950.00                                                                          | 950.00              | 956.90              | 956.90              | 3.22            | 3.23        | 179.62                | -199.96                           | 1.33                              | 199.96               | 193.51                | 6.45                    | 30.988            |                            |
| 1,000.00                                                                        | 1,000.00            | 1,006.90            | 1,006.90            | 3.40            | 3.41        | 179.62                | -199.96                           | 1.33                              | 199.96               | 193.16                | 6.81                    | 29.375            |                            |
| 1,050.00                                                                        | 1,050.00            | 1,056.90            | 1,056.90            | 3.58            | 3.59        | 179.62                | -199.96                           | 1.33                              | 199.96               | 192.80                | 7.16                    | 27.920            |                            |
| 1,100.00                                                                        | 1,100.00            | 1,106.90            | 1,106.90            | 3.75            | 3.76        | 179.62                | -199.96                           | 1.33                              | 199.96               | 192.45                | 7.52                    | 26.601            |                            |
| 1,150.00                                                                        | 1,150.00            | 1,156.90            | 1,156.90            | 3.93            | 3.94        | 179.62                | -199.96                           | 1.33                              | 199.96               | 192.09                | 7.87                    | 25.400            |                            |
| 1,200.00                                                                        | 1,200.00            | 1,206.90            | 1,206.90            | 4.11            | 4.12        | 179.62                | -199.96                           | 1.33                              | 199.96               | 191.74                | 8.23                    | 24.302            |                            |
| 1,250.00                                                                        | 1,250.00            | 1,256.90            | 1,256.90            | 4.29            | 4.30        | 179.62                | -199.96                           | 1.33                              | 199.96               | 191.38                | 8.58                    | 23.294            |                            |
| 1,300.00                                                                        | 1,300.00            | 1,306.90            | 1,306.90            | 4.46            | 4.48        | 179.62                | -199.96                           | 1.33                              | 199.96               | 191.02                | 8.94                    | 22.366            |                            |
| 1,350.00                                                                        | 1,350.00            | 1,356.90            | 1,356.90            | 4.64            | 4.65        | 179.62                | -199.96                           | 1.33                              | 199.96               | 190.67                | 9.30                    | 21.509            |                            |
| 1,400.00                                                                        | 1,400.00            | 1,406.90            | 1,406.90            | 4.82            | 4.83        | 179.62                | -199.96                           | 1.33                              | 199.96               | 190.31                | 9.65                    | 20.715            |                            |
| 1,450.00                                                                        | 1,450.00            | 1,456.90            | 1,456.90            | 5.00            | 5.01        | 179.62                | -199.96                           | 1.33                              | 199.96               | 189.95                | 10.01                   | 19.977            |                            |
| 1,500.00                                                                        | 1,500.00            | 1,506.90            | 1,506.90            | 5.18            | 5.19        | 179.62                | -199.96                           | 1.33                              | 199.96               | 189.60                | 10.37                   | 19.289            |                            |
| 1,550.00                                                                        | 1,550.00            | 1,556.90            | 1,556.90            | 5.36            | 5.37        | 179.62                | -199.96                           | 1.33                              | 199.96               | 189.24                | 10.72                   | 18.647            |                            |
| 1,600.00                                                                        | 1,600.00            | 1,606.90            | 1,606.90            | 5.53            | 5.55        | 179.62                | -199.96                           | 1.33                              | 199.96               | 188.88                | 11.08                   | 18.047            |                            |
| 1,650.00                                                                        | 1,650.00            | 1,656.90            | 1,656.90            | 5.71            | 5.72        | 179.62                | -199.96                           | 1.33                              | 199.96               | 188.53                | 11.44                   | 17.483            |                            |
| 1,700.00                                                                        | 1,700.00            | 1,706.90            | 1,706.90            | 5.89            | 5.90        | 179.62                | -199.96                           | 1.33                              | 199.96               | 188.17                | 11.79                   | 16.954            |                            |
| 1,750.00                                                                        | 1,750.00            | 1,756.90            | 1,756.90            | 6.07            | 6.08        | 179.62                | -199.96                           | 1.33                              | 199.96               | 187.81                | 12.15                   | 16.456            |                            |
| 1,800.00                                                                        | 1,800.00            | 1,806.90            | 1,806.90            | 6.25            | 6.26        | 179.62                | -199.96                           | 1.33                              | 199.96               | 187.46                | 12.51                   | 15.986            |                            |
| 1,850.00                                                                        | 1,850.00            | 1,856.90            | 1,856.90            | 6.43            | 6.44        | 179.62                | -199.96                           | 1.33                              | 199.96               | 187.10                | 12.87                   | 15.542            |                            |
| 1,900.00                                                                        | 1,900.00            | 1,906.90            | 1,906.90            | 6.61            | 6.62        | 179.62                | -199.96                           | 1.33                              | 199.96               | 186.74                | 13.22                   | 15.121            |                            |
| 1,950.00                                                                        | 1,950.00            | 1,956.90            | 1,956.90            | 6.78            | 6.80        | 179.62                | -199.96                           | 1.33                              | 199.96               | 186.38                | 13.58                   | 14.723            |                            |
| 2,000.00                                                                        | 2,000.00            | 2,006.90            | 2,006.90            | 6.96            | 6.98        | 179.62                | -199.96                           | 1.33                              | 199.96               | 186.03                | 13.94                   | 14.346            |                            |
| 2,050.00                                                                        | 2,050.00            | 2,056.90            | 2,056.90            | 7.14            | 7.15        | 179.62                | -199.96                           | 1.33                              | 199.96               | 185.67                | 14.30                   | 13.987            |                            |
| 2,100.00                                                                        | 2,100.00            | 2,106.90            | 2,106.90            | 7.32            | 7.33        | 179.62                | -199.96                           | 1.33                              | 199.96               | 185.31                | 14.65                   | 13.646            |                            |
| 2,150.00                                                                        | 2,150.00            | 2,156.90            | 2,156.90            | 7.50            | 7.51        | 179.62                | -199.96                           | 1.33                              | 199.96               | 184.95                | 15.01                   | 13.321            |                            |
| 2,200.00                                                                        | 2,200.00            | 2,206.90            | 2,206.90            | 7.68            | 7.69        | 179.62                | -199.96                           | 1.33                              | 199.96               | 184.60                | 15.37                   | 13.011            |                            |
| 2,250.00                                                                        | 2,250.00            | 2,256.90            | 2,256.90            | 7.86            | 7.87        | 179.62                | -199.96                           | 1.33                              | 199.96               | 184.24                | 15.73                   | 12.715            |                            |
| 2,300.00                                                                        | 2,300.00            | 2,306.90            | 2,306.90            | 8.04            | 8.05        | 179.62                | -199.96                           | 1.33                              | 199.96               | 183.88                | 16.08                   | 12.432            |                            |
| 2,350.00                                                                        | 2,350.00            | 2,356.90            | 2,356.90            | 8.22            | 8.23        | 179.62                | -199.96                           | 1.33                              | 199.96               | 183.52                | 16.44                   | 12.161            |                            |
| 2,400.00                                                                        | 2,400.00            | 2,406.90            | 2,406.90            | 8.39            | 8.41        | 179.62                | -199.96                           | 1.33                              | 199.96               | 183.16                | 16.80                   | 11.902            |                            |
| 2,450.00                                                                        | 2,450.00            | 2,456.90            | 2,456.90            | 8.57            | 8.59        | -77.98                | -199.96                           | 1.33                              | 199.92               | 182.77                | 17.15                   | 11.655            |                            |
| 2,500.00                                                                        | 2,499.99            | 2,506.89            | 2,506.89            | 8.74            | 8.76        | -78.17                | -199.96                           | 1.33                              | 199.78               | 182.28                | 17.51                   | 11.413            |                            |
| 2,550.00                                                                        | 2,549.98            | 2,556.88            | 2,556.88            | 8.91            | 8.94        | -78.47                | -199.96                           | 1.33                              | 199.56               | 181.71                | 17.85                   | 11.178            |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 7H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                      |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                       |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   |            |                      |                       |                         | Warning           |                            |
| Measured Depth (ft)                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 2,600.00                                                                        | 2,599.96            | 2,606.86            | 2,606.86            | 9.08            | 9.12        | -78.91                | -199.96                           | 1.33       | 199.26               | 181.06                | 18.20                   | 10.948            |                            |
| 2,650.00                                                                        | 2,649.92            | 2,656.82            | 2,656.82            | 9.25            | 9.30        | -79.47                | -199.96                           | 1.33       | 198.90               | 180.34                | 18.55                   | 10.722            |                            |
| 2,700.00                                                                        | 2,699.88            | 2,706.76            | 2,706.76            | 9.42            | 9.48        | -80.15                | -199.96                           | 1.33       | 198.47               | 179.57                | 18.90                   | 10.502            |                            |
| 2,750.00                                                                        | 2,749.78            | 2,756.68            | 2,756.68            | 9.59            | 9.66        | -80.96                | -199.96                           | 1.33       | 198.00               | 178.75                | 19.25                   | 10.286            |                            |
| 2,800.00                                                                        | 2,799.68            | 2,806.58            | 2,806.58            | 9.76            | 9.84        | -81.90                | -199.96                           | 1.33       | 197.52               | 177.92                | 19.60                   | 10.077            |                            |
| 2,850.00                                                                        | 2,849.54            | 2,856.44            | 2,856.44            | 9.94            | 10.02       | -82.97                | -199.96                           | 1.33       | 197.03               | 177.07                | 19.95                   | 9.875             |                            |
| 2,900.00                                                                        | 2,899.37            | 2,906.27            | 2,906.27            | 10.11           | 10.19       | -84.17                | -199.96                           | 1.33       | 196.56               | 176.26                | 20.30                   | 9.681             |                            |
| 2,950.00                                                                        | 2,949.16            | 2,956.06            | 2,956.06            | 10.29           | 10.37       | -85.50                | -199.96                           | 1.33       | 196.15               | 175.49                | 20.66                   | 9.495             |                            |
| 3,000.00                                                                        | 2,998.90            | 3,005.80            | 3,005.80            | 10.46           | 10.55       | -86.95                | -199.96                           | 1.33       | 195.82               | 174.80                | 21.01                   | 9.319             |                            |
| 3,050.00                                                                        | 3,048.61            | 3,055.51            | 3,055.51            | 10.64           | 10.73       | -88.54                | -199.96                           | 1.33       | 195.60               | 174.23                | 21.37                   | 9.154             |                            |
| 3,092.93                                                                        | 3,091.24            | 3,101.86            | 3,098.14            | 10.79           | 10.89       | -90.00                | -199.96                           | 1.33       | 195.54               | 173.85                | 21.69                   | 9.016             |                            |
| 3,100.00                                                                        | 3,098.26            | 3,105.16            | 3,105.16            | 10.82           | 10.91       | -90.25                | -199.96                           | 1.33       | 195.54               | 173.81                | 21.72                   | 9.001             |                            |
| 3,150.00                                                                        | 3,147.86            | 3,154.76            | 3,154.76            | 11.00           | 11.08       | -92.08                | -199.96                           | 1.33       | 195.67               | 173.58                | 22.08                   | 8.860             |                            |
| 3,200.00                                                                        | 3,197.40            | 3,204.30            | 3,204.30            | 11.18           | 11.26       | -94.03                | -199.96                           | 1.33       | 196.03               | 173.59                | 22.44                   | 8.734             |                            |
| 3,250.00                                                                        | 3,246.89            | 3,253.79            | 3,253.79            | 11.37           | 11.44       | -96.09                | -199.96                           | 1.33       | 196.67               | 173.86                | 22.81                   | 8.624             |                            |
| 3,300.00                                                                        | 3,296.30            | 3,303.20            | 3,303.20            | 11.56           | 11.62       | -98.25                | -199.96                           | 1.33       | 197.63               | 174.46                | 23.17                   | 8.530             |                            |
| 3,350.00                                                                        | 3,345.65            | 3,352.55            | 3,352.55            | 11.75           | 11.79       | -100.50               | -199.96                           | 1.33       | 198.96               | 175.42                | 23.53                   | 8.454             |                            |
| 3,400.00                                                                        | 3,394.95            | 3,401.85            | 3,401.85            | 11.94           | 11.97       | -102.81               | -199.96                           | 1.33       | 200.67               | 176.77                | 23.90                   | 8.397             |                            |
| 3,450.00                                                                        | 3,444.24            | 3,451.14            | 3,451.14            | 12.13           | 12.15       | -105.09               | -199.96                           | 1.33       | 202.72               | 178.45                | 24.27                   | 8.354             |                            |
| 3,500.00                                                                        | 3,493.53            | 3,500.43            | 3,500.43            | 12.33           | 12.32       | -107.33               | -199.96                           | 1.33       | 205.09               | 180.46                | 24.63                   | 8.326             |                            |
| 3,550.00                                                                        | 3,542.82            | 3,549.72            | 3,549.72            | 12.53           | 12.50       | -109.51               | -199.96                           | 1.33       | 207.78               | 182.78                | 25.00                   | 8.311             |                            |
| 3,600.00                                                                        | 3,592.11            | 3,600.99            | 3,599.01            | 12.72           | 12.68       | -111.63               | -199.96                           | 1.33       | 210.76               | 185.39                | 25.37                   | 8.306             |                            |
| 3,650.00                                                                        | 3,641.40            | 3,648.30            | 3,648.30            | 12.92           | 12.85       | -113.69               | -199.96                           | 1.33       | 214.04               | 188.30                | 25.73                   | 8.317             |                            |
| 3,700.00                                                                        | 3,690.69            | 3,702.41            | 3,697.59            | 13.12           | 13.05       | -115.69               | -199.96                           | 1.33       | 217.58               | 191.47                | 26.12                   | 8.331             |                            |
| 3,750.00                                                                        | 3,739.99            | 3,746.89            | 3,746.89            | 13.33           | 13.20       | -117.63               | -199.96                           | 1.33       | 221.39               | 194.93                | 26.47                   | 8.365             |                            |
| 3,800.00                                                                        | 3,789.28            | 3,803.82            | 3,796.18            | 13.53           | 13.41       | -119.50               | -199.96                           | 1.33       | 225.45               | 198.59                | 26.86                   | 8.394             |                            |
| 3,850.00                                                                        | 3,838.57            | 3,845.47            | 3,845.47            | 13.74           | 13.56       | -121.30               | -199.96                           | 1.33       | 229.74               | 202.54                | 27.20                   | 8.447             |                            |
| 3,900.00                                                                        | 3,887.86            | 3,905.24            | 3,894.76            | 13.94           | 13.77       | -123.04               | -199.96                           | 1.33       | 234.25               | 206.66                | 27.60                   | 8.488             |                            |
| 3,950.00                                                                        | 3,937.15            | 3,944.05            | 3,944.05            | 14.15           | 13.91       | -124.71               | -199.96                           | 1.33       | 238.98               | 211.05                | 27.92                   | 8.558             |                            |
| 4,000.00                                                                        | 3,986.44            | 4,006.66            | 3,993.34            | 14.36           | 14.13       | -126.31               | -199.96                           | 1.33       | 243.90               | 215.56                | 28.33                   | 8.608             |                            |
| 4,050.00                                                                        | 4,035.73            | 4,042.63            | 4,042.63            | 14.57           | 14.26       | -127.86               | -199.96                           | 1.33       | 249.00               | 220.35                | 28.65                   | 8.692             |                            |
| 4,100.00                                                                        | 4,085.02            | 4,108.08            | 4,091.92            | 14.78           | 14.50       | -129.34               | -199.96                           | 1.33       | 254.28               | 225.21                | 29.07                   | 8.748             |                            |
| 4,150.00                                                                        | 4,134.31            | 4,141.21            | 4,141.21            | 14.99           | 14.62       | -130.76               | -199.96                           | 1.33       | 259.73               | 230.35                | 29.37                   | 8.843             |                            |
| 4,200.00                                                                        | 4,183.60            | 4,209.50            | 4,190.50            | 15.20           | 14.86       | -132.12               | -199.96                           | 1.33       | 265.32               | 235.52                | 29.80                   | 8.904             |                            |
| 4,250.00                                                                        | 4,232.90            | 4,239.80            | 4,239.80            | 15.41           | 14.97       | -133.42               | -199.96                           | 1.33       | 271.06               | 240.97                | 30.09                   | 9.008             |                            |
| 4,300.00                                                                        | 4,282.19            | 4,289.09            | 4,289.09            | 15.63           | 15.15       | -134.68               | -199.96                           | 1.33       | 276.94               | 246.49                | 30.45                   | 9.095             |                            |
| 4,350.00                                                                        | 4,331.48            | 4,338.38            | 4,338.38            | 15.84           | 15.32       | -135.88               | -199.96                           | 1.33       | 282.94               | 252.14                | 30.81                   | 9.184             |                            |
| 4,400.00                                                                        | 4,380.77            | 4,387.67            | 4,387.67            | 16.06           | 15.50       | -137.03               | -199.96                           | 1.33       | 289.07               | 257.90                | 31.17                   | 9.275             |                            |
| 4,450.00                                                                        | 4,430.06            | 4,436.96            | 4,436.96            | 16.27           | 15.68       | -138.13               | -199.96                           | 1.33       | 295.30               | 263.77                | 31.53                   | 9.367             |                            |
| 4,500.00                                                                        | 4,479.35            | 4,486.25            | 4,486.25            | 16.49           | 15.85       | -139.19               | -199.96                           | 1.33       | 301.64               | 269.76                | 31.88                   | 9.461             |                            |
| 4,550.00                                                                        | 4,528.64            | 4,535.54            | 4,535.54            | 16.71           | 16.03       | -140.20               | -199.96                           | 1.33       | 308.08               | 275.83                | 32.24                   | 9.555             |                            |
| 4,600.00                                                                        | 4,577.93            | 4,584.83            | 4,584.83            | 16.92           | 16.21       | -141.17               | -199.96                           | 1.33       | 314.60               | 282.01                | 32.60                   | 9.651             |                            |
| 4,650.00                                                                        | 4,627.22            | 4,634.12            | 4,634.12            | 17.14           | 16.38       | -142.11               | -199.96                           | 1.33       | 321.22               | 288.26                | 32.96                   | 9.747             |                            |
| 4,700.00                                                                        | 4,676.52            | 4,683.42            | 4,683.42            | 17.36           | 16.56       | -143.00               | -199.96                           | 1.33       | 327.92               | 294.60                | 33.31                   | 9.844             |                            |
| 4,750.00                                                                        | 4,725.81            | 4,732.71            | 4,732.71            | 17.58           | 16.74       | -143.86               | -199.96                           | 1.33       | 334.69               | 301.02                | 33.67                   | 9.941             |                            |
| 4,800.00                                                                        | 4,775.10            | 4,782.00            | 4,782.00            | 17.80           | 16.91       | -144.69               | -199.96                           | 1.33       | 341.53               | 307.51                | 34.03                   | 10.038            |                            |
| 4,850.00                                                                        | 4,824.39            | 4,831.29            | 4,831.29            | 18.02           | 17.09       | -145.48               | -199.96                           | 1.33       | 348.44               | 314.06                | 34.38                   | 10.135            |                            |
| 4,900.00                                                                        | 4,873.68            | 4,880.58            | 4,880.58            | 18.24           | 17.27       | -146.25               | -199.96                           | 1.33       | 355.42               | 320.68                | 34.74                   | 10.231            |                            |
| 4,950.00                                                                        | 4,922.97            | 4,929.87            | 4,929.87            | 18.47           | 17.44       | -146.98               | -199.96                           | 1.33       | 362.46               | 327.36                | 35.09                   | 10.328            |                            |
| 5,000.00                                                                        | 4,972.26            | 4,979.16            | 4,979.16            | 18.69           | 17.62       | -147.69               | -199.96                           | 1.33       | 369.55               | 334.10                | 35.45                   | 10.424            |                            |
| 5,050.00                                                                        | 5,021.55            | 5,031.18            | 5,031.18            | 18.91           | 17.80       | -148.39               | -199.98                           | 1.20       | 376.59               | 340.77                | 35.82                   | 10.514            |                            |
| 5,100.00                                                                        | 5,070.84            | 5,085.38            | 5,085.38            | 19.13           | 17.99       | -149.05               | -200.11                           | 0.39       | 383.11               | 346.92                | 36.20                   | 10.585            |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 7H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |                    |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|--------------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                      |                     |                     |                     |                 |             |                       |                                   |                    |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                       |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                   | Minimum Separation |                      | Warning               |                         |                   |                            |
| Measured Depth (ft)                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft)         | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 5,150.00                                                                        | 5,120.13            | 5,139.82            | 5,139.78            | 19.36           | 18.18       | -149.64               | -200.35                           | -1.20              | 389.05               | 352.48                | 36.56                   | 10.640            |                            |
| 5,200.00                                                                        | 5,169.43            | 5,194.45            | 5,194.37            | 19.58           | 18.36       | -150.16               | -200.71                           | -3.56              | 394.38               | 357.45                | 36.93                   | 10.679            |                            |
| 5,250.00                                                                        | 5,218.72            | 5,249.28            | 5,249.10            | 19.80           | 18.55       | -150.62               | -201.20                           | -6.71              | 399.09               | 361.80                | 37.29                   | 10.702            |                            |
| 5,300.00                                                                        | 5,268.01            | 5,304.27            | 5,303.94            | 20.03           | 18.74       | -151.03               | -201.80                           | -10.64             | 403.18               | 365.53                | 37.65                   | 10.709            |                            |
| 5,350.00                                                                        | 5,317.30            | 5,359.39            | 5,358.86            | 20.25           | 18.93       | -151.37               | -202.53                           | -15.37             | 406.64               | 368.53                | 38.01                   | 10.699            |                            |
| 5,400.00                                                                        | 5,366.59            | 5,414.64            | 5,413.83            | 20.48           | 19.12       | -151.67               | -203.38                           | -20.89             | 409.44               | 371.09                | 38.36                   | 10.675            |                            |
| 5,450.00                                                                        | 5,415.88            | 5,469.98            | 5,468.80            | 20.70           | 19.31       | -151.91               | -204.35                           | -27.21             | 411.60               | 372.90                | 38.70                   | 10.635            |                            |
| 5,500.00                                                                        | 5,465.17            | 5,525.40            | 5,523.74            | 20.93           | 19.50       | -152.11               | -205.44                           | -34.33             | 413.11               | 374.06                | 39.05                   | 10.580            |                            |
| 5,550.00                                                                        | 5,514.46            | 5,580.86            | 5,578.62            | 21.16           | 19.70       | -152.26               | -206.66                           | -42.24             | 413.96               | 374.57                | 39.39                   | 10.510            |                            |
| 5,600.00                                                                        | 5,563.75            | 5,636.35            | 5,633.41            | 21.38           | 19.89       | -152.36               | -207.99                           | -50.94             | 414.14               | 374.42                | 39.72                   | 10.426            |                            |
| 5,650.00                                                                        | 5,613.04            | 5,691.84            | 5,688.07            | 21.61           | 20.09       | -152.42               | -209.45                           | -60.43             | 413.66               | 373.61                | 40.05                   | 10.328            |                            |
| 5,700.00                                                                        | 5,662.34            | 5,747.31            | 5,742.56            | 21.84           | 20.29       | -152.44               | -211.03                           | -70.70             | 412.52               | 372.14                | 40.38                   | 10.216            |                            |
| 5,750.00                                                                        | 5,711.63            | 5,802.74            | 5,798.85            | 22.06           | 20.50       | -152.41               | -212.72                           | -81.74             | 410.72               | 370.02                | 40.70                   | 10.091            |                            |
| 5,800.00                                                                        | 5,760.92            | 5,852.47            | 5,845.48            | 22.29           | 20.68       | -152.36               | -214.30                           | -91.96             | 408.61               | 367.54                | 41.07                   | 9.949             |                            |
| 5,850.00                                                                        | 5,810.21            | 5,902.42            | 5,894.34            | 22.52           | 20.87       | -152.31               | -215.87                           | -102.23            | 406.50               | 365.06                | 41.44                   | 9.809             |                            |
| 5,900.00                                                                        | 5,859.50            | 5,952.37            | 5,943.21            | 22.75           | 21.06       | -152.26               | -217.45                           | -112.50            | 404.40               | 362.58                | 41.81                   | 9.672             |                            |
| 5,950.00                                                                        | 5,908.79            | 6,002.33            | 5,992.07            | 22.97           | 21.25       | -152.21               | -219.03                           | -122.77            | 402.29               | 360.11                | 42.18                   | 9.537             |                            |
| 6,000.00                                                                        | 5,958.08            | 6,052.28            | 6,040.93            | 23.20           | 21.44       | -152.16               | -220.61                           | -133.04            | 400.18               | 357.63                | 42.56                   | 9.404             |                            |
| 6,050.00                                                                        | 6,007.37            | 6,102.24            | 6,089.79            | 23.43           | 21.64       | -152.11               | -222.19                           | -143.31            | 398.08               | 355.15                | 42.93                   | 9.273             |                            |
| 6,100.00                                                                        | 6,056.66            | 6,152.19            | 6,138.65            | 23.66           | 21.83       | -152.06               | -223.76                           | -153.58            | 395.97               | 352.67                | 43.30                   | 9.144             |                            |
| 6,150.00                                                                        | 6,105.96            | 6,202.15            | 6,187.51            | 23.89           | 22.03       | -152.01               | -225.34                           | -163.85            | 393.87               | 350.19                | 43.68                   | 9.018             |                            |
| 6,200.00                                                                        | 6,155.25            | 6,252.10            | 6,236.38            | 24.12           | 22.23       | -151.96               | -226.92                           | -174.12            | 391.76               | 347.71                | 44.05                   | 8.893             |                            |
| 6,250.00                                                                        | 6,204.54            | 6,302.06            | 6,285.24            | 24.35           | 22.43       | -151.91               | -228.50                           | -184.39            | 389.66               | 345.23                | 44.43                   | 8.770             |                            |
| 6,300.00                                                                        | 6,253.83            | 6,352.01            | 6,334.10            | 24.58           | 22.63       | -151.85               | -230.08                           | -194.66            | 387.55               | 342.75                | 44.81                   | 8.649             |                            |
| 6,350.00                                                                        | 6,303.12            | 6,401.96            | 6,382.96            | 24.81           | 22.84       | -151.80               | -231.66                           | -204.94            | 385.45               | 340.26                | 45.18                   | 8.531             |                            |
| 6,400.00                                                                        | 6,352.41            | 6,451.92            | 6,431.82            | 25.04           | 23.04       | -151.75               | -233.23                           | -215.21            | 383.34               | 337.78                | 45.56                   | 8.413             |                            |
| 6,450.00                                                                        | 6,401.70            | 6,501.87            | 6,480.68            | 25.27           | 23.25       | -151.69               | -234.81                           | -225.48            | 381.24               | 335.30                | 45.94                   | 8.298             |                            |
| 6,500.00                                                                        | 6,450.99            | 6,551.83            | 6,529.55            | 25.50           | 23.45       | -151.64               | -236.39                           | -235.75            | 379.14               | 332.81                | 46.32                   | 8.185             |                            |
| 6,550.00                                                                        | 6,500.28            | 6,601.78            | 6,578.41            | 25.73           | 23.66       | -151.58               | -237.97                           | -246.02            | 377.03               | 330.33                | 46.70                   | 8.073             |                            |
| 6,600.00                                                                        | 6,549.57            | 6,651.74            | 6,627.27            | 25.96           | 23.87       | -151.53               | -239.55                           | -256.29            | 374.93               | 327.85                | 47.09                   | 7.963             |                            |
| 6,650.00                                                                        | 6,598.87            | 6,701.69            | 6,676.13            | 26.19           | 24.08       | -151.47               | -241.12                           | -266.56            | 372.83               | 325.36                | 47.47                   | 7.854             |                            |
| 6,700.00                                                                        | 6,648.16            | 6,751.65            | 6,724.99            | 26.42           | 24.30       | -151.41               | -242.70                           | -276.83            | 370.73               | 322.88                | 47.85                   | 7.747             |                            |
| 6,750.00                                                                        | 6,697.45            | 6,801.60            | 6,773.85            | 26.66           | 24.51       | -151.35               | -244.28                           | -287.10            | 368.63               | 320.39                | 48.24                   | 7.642             |                            |
| 6,800.00                                                                        | 6,746.74            | 6,851.55            | 6,822.72            | 26.89           | 24.72       | -151.29               | -245.86                           | -297.37            | 366.53               | 317.90                | 48.62                   | 7.539             |                            |
| 6,850.00                                                                        | 6,796.03            | 6,901.51            | 6,871.58            | 27.12           | 24.94       | -151.23               | -247.44                           | -307.64            | 364.42               | 315.42                | 49.01                   | 7.436             |                            |
| 6,900.00                                                                        | 6,845.32            | 6,951.46            | 6,920.44            | 27.35           | 25.15       | -151.17               | -249.02                           | -317.91            | 362.32               | 312.93                | 49.39                   | 7.336             |                            |
| 6,950.00                                                                        | 6,894.61            | 7,001.42            | 6,969.30            | 27.58           | 25.37       | -151.11               | -250.59                           | -328.18            | 360.22               | 310.45                | 49.78                   | 7.237             |                            |
| 7,000.00                                                                        | 6,943.90            | 7,051.37            | 7,018.16            | 27.82           | 25.59       | -151.05               | -252.17                           | -338.45            | 358.13               | 307.96                | 50.17                   | 7.139             |                            |
| 7,050.00                                                                        | 6,993.19            | 7,101.33            | 7,067.02            | 28.05           | 25.81       | -150.99               | -253.75                           | -348.72            | 356.03               | 305.47                | 50.55                   | 7.042             |                            |
| 7,100.00                                                                        | 7,042.48            | 7,151.28            | 7,115.89            | 28.28           | 26.03       | -150.92               | -255.33                           | -359.00            | 353.93               | 302.98                | 50.94                   | 6.947             |                            |
| 7,150.00                                                                        | 7,091.78            | 7,201.23            | 7,164.75            | 28.51           | 26.25       | -150.86               | -256.91                           | -369.27            | 351.83               | 300.50                | 51.33                   | 6.854             |                            |
| 7,200.00                                                                        | 7,141.07            | 7,251.19            | 7,213.61            | 28.75           | 26.47       | -150.80               | -258.49                           | -379.54            | 349.73               | 298.01                | 51.72                   | 6.762             |                            |
| 7,250.00                                                                        | 7,190.36            | 7,301.14            | 7,262.47            | 28.98           | 26.70       | -150.73               | -260.06                           | -389.81            | 347.64               | 295.52                | 52.11                   | 6.671             |                            |
| 7,300.00                                                                        | 7,239.65            | 7,351.10            | 7,311.33            | 29.21           | 26.92       | -150.66               | -261.64                           | -400.08            | 345.54               | 293.03                | 52.51                   | 6.581             |                            |
| 7,350.00                                                                        | 7,288.94            | 7,401.05            | 7,360.20            | 29.44           | 27.14       | -150.60               | -263.22                           | -410.35            | 343.44               | 290.54                | 52.90                   | 6.493             |                            |
| 7,400.00                                                                        | 7,338.23            | 7,451.01            | 7,409.06            | 29.68           | 27.37       | -150.53               | -264.80                           | -420.62            | 341.35               | 288.06                | 53.29                   | 6.405             |                            |
| 7,450.00                                                                        | 7,387.52            | 7,500.96            | 7,457.92            | 29.91           | 27.59       | -150.46               | -266.38                           | -430.89            | 339.25               | 285.57                | 53.68                   | 6.319             |                            |
| 7,500.00                                                                        | 7,436.81            | 7,550.92            | 7,506.78            | 30.14           | 27.82       | -150.39               | -267.95                           | -441.16            | 337.16               | 283.08                | 54.08                   | 6.235             |                            |
| 7,550.00                                                                        | 7,486.10            | 7,600.87            | 7,555.64            | 30.38           | 28.05       | -150.32               | -269.53                           | -451.43            | 335.06               | 280.59                | 54.47                   | 6.151             |                            |
| 7,600.00                                                                        | 7,535.40            | 7,650.82            | 7,604.50            | 30.61           | 28.28       | -150.25               | -271.11                           | -461.70            | 332.97               | 278.10                | 54.87                   | 6.068             |                            |
| 7,650.00                                                                        | 7,584.69            | 7,700.78            | 7,653.37            | 30.85           | 28.51       | -150.17               | -272.69                           | -471.97            | 330.88               | 275.61                | 55.27                   | 5.987             |                            |
| 7,700.00                                                                        | 7,633.98            | 7,750.73            | 7,702.23            | 31.08           | 28.74       | -150.10               | -274.27                           | -482.24            | 328.78               | 273.12                | 55.66                   | 5.907             |                            |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design      Sec 08-T25S-R33E - Flagler 8 Fed 7H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                     | Offset Site Error: | 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                           |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                     | Offset Well Error: | 0.50 ft |
| Reference                                                                            |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                     |                    | Warning |
| Measured Depth (ft)                                                                  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor   |                    |         |
| 7,750.00                                                                             | 7,683.27            | 7,800.69            | 7,751.09            | 31.31           | 28.97       | -150.03               | -275.85                           | -492.51    | 326.69               | 270.63                | 56.06                   | 5.828               |                    |         |
| 7,800.00                                                                             | 7,732.56            | 7,850.64            | 7,799.95            | 31.55           | 29.20       | -149.95               | -277.42                           | -502.78    | 324.60               | 268.14                | 56.46                   | 5.749               |                    |         |
| 7,850.00                                                                             | 7,781.85            | 7,900.60            | 7,848.81            | 31.78           | 29.43       | -149.88               | -279.00                           | -513.05    | 322.51               | 265.65                | 56.86                   | 5.672               |                    |         |
| 7,900.00                                                                             | 7,831.14            | 7,950.55            | 7,897.67            | 32.02           | 29.66       | -149.80               | -280.58                           | -523.33    | 320.42               | 263.16                | 57.26                   | 5.596               |                    |         |
| 7,950.00                                                                             | 7,880.43            | 8,000.51            | 7,946.54            | 32.25           | 29.89       | -149.72               | -282.16                           | -533.60    | 318.33               | 260.67                | 57.66                   | 5.521               |                    |         |
| 8,000.00                                                                             | 7,929.72            | 8,050.46            | 7,995.40            | 32.48           | 30.13       | -149.64               | -283.74                           | -543.87    | 316.24               | 258.18                | 58.06                   | 5.447               |                    |         |
| 8,050.00                                                                             | 7,979.01            | 8,100.41            | 8,044.26            | 32.72           | 30.36       | -149.56               | -285.31                           | -554.14    | 314.15               | 255.69                | 58.46                   | 5.374               |                    |         |
| 8,100.00                                                                             | 8,028.31            | 8,150.37            | 8,093.12            | 32.95           | 30.60       | -149.47               | -286.89                           | -564.41    | 312.03               | 253.16                | 58.86                   | 5.301               |                    |         |
| 8,150.00                                                                             | 8,077.69            | 8,200.30            | 8,141.96            | 33.18           | 30.83       | -149.32               | -288.47                           | -574.67    | 309.46               | 250.19                | 59.27                   | 5.221               |                    |         |
| 8,200.00                                                                             | 8,127.17            | 8,250.19            | 8,190.75            | 33.40           | 31.07       | -149.09               | -290.05                           | -584.93    | 306.34               | 246.66                | 59.68                   | 5.133               |                    |         |
| 8,250.00                                                                             | 8,176.74            | 8,300.03            | 8,239.51            | 33.62           | 31.30       | -148.79               | -291.62                           | -595.18    | 302.66               | 242.56                | 60.09                   | 5.036               |                    |         |
| 8,300.00                                                                             | 8,226.39            | 8,349.82            | 8,288.21            | 33.83           | 31.54       | -148.42               | -293.19                           | -605.41    | 298.43               | 237.91                | 60.52                   | 4.931 Alert         |                    |         |
| 8,350.00                                                                             | 8,276.12            | 8,400.46            | 8,336.84            | 34.03           | 31.78       | -147.96               | -294.77                           | -615.64    | 293.66               | 232.71                | 60.95                   | 4.818 Alert         |                    |         |
| 8,400.00                                                                             | 8,325.90            | 8,449.20            | 8,365.41            | 34.23           | 32.01       | -147.42               | -296.33                           | -625.85    | 288.35               | 226.89                | 61.38                   | 4.698 Alert         |                    |         |
| 8,450.00                                                                             | 8,375.75            | 8,501.23            | 8,433.90            | 34.42           | 32.26       | -146.78               | -297.90                           | -636.04    | 282.52               | 220.67                | 61.83                   | 4.569 Alert         |                    |         |
| 8,500.00                                                                             | 8,425.64            | 8,548.25            | 8,482.30            | 34.61           | 32.48       | -146.03               | -299.46                           | -646.21    | 276.19               | 213.91                | 62.28                   | 4.435 Alert         |                    |         |
| 8,550.00                                                                             | 8,475.57            | 8,597.64            | 8,530.60            | 34.78           | 32.72       | -145.17               | -301.02                           | -656.37    | 269.36               | 206.62                | 62.74                   | 4.293 Alert         |                    |         |
| 8,600.00                                                                             | 8,525.53            | 8,646.91            | 8,578.81            | 34.96           | 32.96       | -144.18               | -302.58                           | -666.50    | 262.07               | 198.84                | 63.22                   | 4.145 Alert         |                    |         |
| 8,650.00                                                                             | 8,575.51            | 8,696.08            | 8,626.89            | 35.12           | 33.19       | -143.04               | -304.13                           | -676.61    | 254.32               | 190.61                | 63.71                   | 3.992 Alert         |                    |         |
| 8,700.00                                                                             | 8,625.51            | 8,745.12            | 8,674.86            | 35.28           | 33.43       | -141.74               | -305.68                           | -686.69    | 246.16               | 181.93                | 64.23                   | 3.833 Alert         |                    |         |
| 8,750.00                                                                             | 8,675.51            | 8,805.95            | 8,722.72            | 35.44           | 33.72       | -139.24               | -307.23                           | -696.75    | 237.68               | 172.87                | 64.81                   | 3.667 Alert         |                    |         |
| 8,800.00                                                                             | 8,725.51            | 8,842.95            | 8,770.55            | 35.59           | 33.90       | -137.76               | -308.77                           | -706.80    | 229.28               | 163.97                | 65.31                   | 3.511 Alert         |                    |         |
| 8,850.00                                                                             | 8,775.51            | 8,908.14            | 8,818.39            | 35.74           | 34.22       | -136.23               | -310.32                           | -716.86    | 221.05               | 155.11                | 65.94                   | 3.352 Alert         |                    |         |
| 8,900.00                                                                             | 8,825.51            | 8,940.76            | 8,866.23            | 35.89           | 34.38       | -134.66               | -311.86                           | -726.91    | 213.01               | 146.55                | 66.45                   | 3.205 Alert         |                    |         |
| 8,950.00                                                                             | 8,875.51            | 8,989.67            | 8,914.06            | 36.04           | 34.61       | -133.04               | -313.41                           | -736.97    | 205.18               | 138.12                | 67.06                   | 3.060 Alert         |                    |         |
| 9,000.00                                                                             | 8,925.51            | 9,038.58            | 8,961.90            | 36.19           | 34.85       | -131.24               | -314.95                           | -747.02    | 197.59               | 129.90                | 67.68                   | 2.919 Alert         |                    |         |
| 9,050.00                                                                             | 8,975.51            | 9,087.48            | 9,009.74            | 36.34           | 35.09       | -128.22               | -316.50                           | -757.08    | 190.26               | 121.93                | 68.33                   | 2.784 Alert         |                    |         |
| 9,100.00                                                                             | 9,025.50            | 9,136.37            | 9,057.55            | 36.49           | 35.33       | -126.27               | -318.04                           | -767.13    | 183.55               | 114.54                | 69.01                   | 2.660 Alert         |                    |         |
| 9,150.00                                                                             | 9,075.31            | 9,184.96            | 9,105.08            | 36.64           | 35.56       | -124.98               | -319.58                           | -777.12    | 179.81               | 110.01                | 69.80                   | 2.576 Alert         |                    |         |
| 9,172.46                                                                             | 9,097.52            | 9,206.59            | 9,126.23            | 36.70           | 35.67       | -123.86               | -320.26                           | -781.57    | 179.38               | 109.20                | 70.18                   | 2.556 Alert, CC, ES |                    |         |
| 9,200.00                                                                             | 9,124.55            | 9,232.87            | 9,151.94            | 36.78           | 35.80       | -123.31               | -321.09                           | -786.97    | 180.05               | 109.39                | 70.67                   | 2.548 Alert, SF     |                    |         |
| 9,250.00                                                                             | 9,172.87            | 9,279.74            | 9,197.79            | 36.90           | 36.03       | -123.97               | -322.57                           | -796.61    | 184.94               | 113.39                | 71.55                   | 2.585 Alert         |                    |         |
| 9,300.00                                                                             | 9,219.88            | 9,324.49            | 9,241.60            | 37.02           | 36.24       | -124.47               | -323.96                           | -805.64    | 195.02               | 122.67                | 72.35                   | 2.695 Alert         |                    |         |
| 9,350.00                                                                             | 9,265.24            | 9,367.63            | 9,283.93            | 37.12           | 36.45       | -125.57               | -325.23                           | -813.86    | 210.56               | 137.54                | 73.02                   | 2.884 Alert         |                    |         |
| 9,400.00                                                                             | 9,308.60            | 9,408.98            | 9,324.59            | 37.21           | 36.65       | -126.12               | -326.37                           | -821.31    | 231.36               | 157.81                | 73.55                   | 3.146 Alert         |                    |         |
| 9,450.00                                                                             | 9,349.62            | 9,448.21            | 9,363.23            | 37.29           | 36.82       | -126.06               | -327.39                           | -827.97    | 257.00               | 183.06                | 73.95                   | 3.476 Alert         |                    |         |
| 9,500.00                                                                             | 9,387.99            | 9,484.99            | 9,399.52            | 37.36           | 36.99       | -126.39               | -328.30                           | -833.86    | 287.03               | 212.77                | 74.26                   | 3.865 Alert         |                    |         |
| 9,550.00                                                                             | 9,423.43            | 9,519.01            | 9,433.15            | 37.42           | 37.14       | -126.14               | -329.09                           | -839.00    | 320.95               | 246.45                | 74.50                   | 4.308 Alert         |                    |         |
| 9,600.00                                                                             | 9,455.66            | 9,549.99            | 9,463.80            | 37.48           | 37.28       | -126.34               | -329.77                           | -843.42    | 358.30               | 283.60                | 74.70                   | 4.796 Alert         |                    |         |
| 9,650.00                                                                             | 9,484.44            | 9,577.66            | 9,491.21            | 37.53           | 37.40       | -126.00               | -330.34                           | -847.16    | 398.62               | 323.76                | 74.86                   | 5.325               |                    |         |
| 9,700.00                                                                             | 9,509.55            | 9,601.77            | 9,515.12            | 37.58           | 37.50       | -125.07               | -330.82                           | -850.26    | 441.51               | 366.52                | 74.99                   | 5.887               |                    |         |
| 9,750.00                                                                             | 9,530.80            | 9,622.11            | 9,535.30            | 37.63           | 37.58       | -124.40               | -331.20                           | -852.76    | 486.54               | 411.45                | 75.09                   | 6.479               |                    |         |
| 9,800.00                                                                             | 9,548.02            | 9,638.50            | 9,551.57            | 37.69           | 37.65       | -124.60               | -331.50                           | -854.69    | 533.33               | 458.17                | 75.17                   | 7.095               |                    |         |
| 9,850.00                                                                             | 9,561.08            | 9,650.77            | 9,563.76            | 37.77           | 37.70       | -124.63               | -331.71                           | -856.10    | 581.48               | 506.27                | 75.22                   | 7.731               |                    |         |
| 9,900.00                                                                             | 9,569.90            | 9,658.80            | 9,571.74            | 37.86           | 37.74       | -124.08               | -331.85                           | -857.00    | 630.60               | 555.35                | 75.24                   | 8.381               |                    |         |
| 9,950.00                                                                             | 9,574.38            | 9,662.50            | 9,575.41            | 37.97           | 37.75       | -123.66               | -331.92                           | -857.40    | 680.29               | 605.04                | 75.25                   | 9.041               |                    |         |
| 10,000.00                                                                            | 9,575.00            | 9,662.30            | 9,575.21            | 38.11           | 37.75       | -123.86               | -331.91                           | -857.38    | 730.17               | 654.93                | 75.24                   | 9.705               |                    |         |
| 10,050.00                                                                            | 9,575.00            | 9,661.48            | 9,574.39            | 38.28           | 37.75       | -123.90               | -331.90                           | -857.29    | 780.07               | 704.85                | 75.22                   | 10.370              |                    |         |
| 10,100.00                                                                            | 9,575.00            | 9,660.65            | 9,573.57            | 38.47           | 37.74       | -123.94               | -331.88                           | -857.20    | 829.98               | 754.78                | 75.21                   | 11.036              |                    |         |
| 10,150.00                                                                            | 9,575.00            | 9,659.82            | 9,572.75            | 38.69           | 37.74       | -123.99               | -331.87                           | -857.11    | 879.91               | 804.71                | 75.20                   | 11.701              |                    |         |
| 10,200.00                                                                            | 9,575.00            | 9,658.99            | 9,571.92            | 38.94           | 37.74       | -123.05               | -331.86                           | -857.02    | 929.84               | 854.65                | 75.19                   | 12.367              |                    |         |
| 10,250.00                                                                            | 9,575.00            | 9,658.15            | 9,571.09            | 39.21           | 37.73       | -122.11               | -331.84                           | -856.92    | 979.77               | 904.59                | 75.18                   | 13.033              |                    |         |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 7H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                      |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                       |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 10,300.00                                                                       | 9,575.00            | 9,657.31            | 9,570.26            | 39.51           | 37.73       | 76.18                 | -331.83                           | -856.83    | 1,029.71             | 954.54                | 75.17                   | 13.698            |                    |         |
| 10,350.00                                                                       | 9,575.00            | 9,656.47            | 9,569.42            | 39.84           | 37.73       | 75.25                 | -331.81                           | -856.74    | 1,079.68             | 1,004.50              | 75.16                   | 14.364            |                    |         |
| 10,400.00                                                                       | 9,575.00            | 9,655.62            | 9,568.58            | 40.18           | 37.72       | 74.34                 | -331.80                           | -856.64    | 1,129.61             | 1,054.45              | 75.16                   | 15.030            |                    |         |
| 10,450.00                                                                       | 9,575.00            | 9,654.77            | 9,567.73            | 40.55           | 37.72       | 73.43                 | -331.78                           | -856.55    | 1,179.56             | 1,104.41              | 75.15                   | 15.696            |                    |         |
| 10,500.00                                                                       | 9,575.00            | 9,653.92            | 9,566.89            | 40.94           | 37.72       | 72.53                 | -331.77                           | -856.45    | 1,229.52             | 1,154.37              | 75.15                   | 16.361            |                    |         |
| 10,550.00                                                                       | 9,575.00            | 9,653.06            | 9,566.03            | 41.36           | 37.71       | 71.64                 | -331.75                           | -856.36    | 1,279.48             | 1,204.34              | 75.14                   | 17.027            |                    |         |
| 10,600.00                                                                       | 9,575.00            | 9,652.20            | 9,565.18            | 41.78           | 37.71       | 70.76                 | -331.74                           | -856.26    | 1,329.44             | 1,254.30              | 75.14                   | 17.693            |                    |         |
| 10,650.00                                                                       | 9,575.00            | 9,651.34            | 9,564.32            | 42.24           | 37.70       | 69.88                 | -331.72                           | -856.16    | 1,379.41             | 1,304.27              | 75.14                   | 18.359            |                    |         |
| 10,700.00                                                                       | 9,575.00            | 9,650.47            | 9,563.46            | 42.70           | 37.70       | 69.02                 | -331.71                           | -856.06    | 1,429.37             | 1,354.24              | 75.13                   | 19.024            |                    |         |
| 10,750.00                                                                       | 9,575.00            | 9,649.60            | 9,562.60            | 43.19           | 37.70       | 68.17                 | -331.69                           | -855.97    | 1,479.34             | 1,404.21              | 75.13                   | 19.690            |                    |         |

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 8H - Wellbore #1 - Permit Plan 1 |                           |                           |                           |                   |                |                            |                        |               |                            |                             |                               | Offset Site Error:   | 0.00 ft |
|---------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|----------------------------|------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|---------|
| Survey Program: 0-MWD+IGRF                                                      |                           |                           |                           |                   |                |                            |                        |               |                            |                             |                               | Offset Well Error:   | 0.50 ft |
| Reference                                                                       |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Tooface<br>(') | Offset Wellbore Centre |               | Distance                   |                             |                               |                      | Warning |
| Measured<br>Depth<br>(ft)                                                       | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                            | +N/-S<br>(ft)          | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |         |
| 0.00                                                                            | 0.00                      | 9.70                      | -9.70                     | 0.50              | 0.50           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   |                             |                               |                      |         |
| 50.00                                                                           | 50.00                     | 40.30                     | 40.30                     | 0.50              | 0.50           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,028.41                    | 1.00                          | 1,024.361            |         |
| 100.00                                                                          | 100.00                    | 109.70                    | 90.30                     | 0.52              | 0.53           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,028.37                    | 1.05                          | 984.509              |         |
| 150.00                                                                          | 150.00                    | 140.30                    | 140.30                    | 0.59              | 0.57           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,028.25                    | 1.16                          | 885.315              |         |
| 200.00                                                                          | 200.00                    | 209.70                    | 190.30                    | 0.70              | 0.73           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,027.98                    | 1.43                          | 720.352              |         |
| 250.00                                                                          | 250.00                    | 240.30                    | 240.30                    | 0.84              | 0.81           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,027.76                    | 1.65                          | 624.720              |         |
| 300.00                                                                          | 300.00                    | 309.70                    | 290.30                    | 0.99              | 1.02           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,027.41                    | 2.00                          | 513.471              |         |
| 350.00                                                                          | 350.00                    | 340.30                    | 340.30                    | 1.15              | 1.11           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,027.15                    | 2.26                          | 455.532              |         |
| 400.00                                                                          | 400.00                    | 409.70                    | 390.30                    | 1.31              | 1.34           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,026.76                    | 2.65                          | 388.401              |         |
| 450.00                                                                          | 450.00                    | 440.30                    | 440.30                    | 1.48              | 1.44           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,026.49                    | 2.92                          | 352.540              |         |
| 500.00                                                                          | 500.00                    | 509.70                    | 490.30                    | 1.65              | 1.68           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,026.09                    | 3.33                          | 309.566              |         |
| 550.00                                                                          | 550.00                    | 540.30                    | 540.30                    | 1.82              | 1.78           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,025.81                    | 3.60                          | 285.794              |         |
| 600.00                                                                          | 600.00                    | 609.70                    | 590.30                    | 1.99              | 2.02           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,025.40                    | 4.01                          | 256.399              |         |
| 650.00                                                                          | 650.00                    | 640.30                    | 640.30                    | 2.16              | 2.13           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,025.12                    | 4.30                          | 239.660              |         |
| 700.00                                                                          | 700.00                    | 709.70                    | 690.30                    | 2.34              | 2.37           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,024.70                    | 4.71                          | 218.438              |         |
| 750.00                                                                          | 750.00                    | 740.30                    | 740.30                    | 2.51              | 2.48           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,024.42                    | 5.00                          | 206.074              |         |
| 800.00                                                                          | 800.00                    | 809.70                    | 790.30                    | 2.69              | 2.72           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,024.00                    | 5.42                          | 190.091              |         |
| 850.00                                                                          | 850.00                    | 840.30                    | 840.30                    | 2.87              | 2.83           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,023.71                    | 5.70                          | 180.612              |         |
| 900.00                                                                          | 900.00                    | 909.70                    | 890.30                    | 3.04              | 3.08           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,023.29                    | 6.12                          | 168.166              |         |
| 950.00                                                                          | 950.00                    | 940.30                    | 940.30                    | 3.22              | 3.19           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,023.00                    | 6.41                          | 160.679              |         |
| 1,000.00                                                                        | 1,000.00                  | 1,009.70                  | 990.30                    | 3.40              | 3.43           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,022.58                    | 6.83                          | 150.725              |         |
| 1,050.00                                                                        | 1,050.00                  | 1,040.30                  | 1,040.30                  | 3.58              | 3.54           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,022.30                    | 7.12                          | 144.668              |         |
| 1,100.00                                                                        | 1,100.00                  | 1,109.70                  | 1,090.30                  | 3.75              | 3.79           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,021.87                    | 7.54                          | 136.533              |         |
| 1,150.00                                                                        | 1,150.00                  | 1,140.30                  | 1,140.30                  | 3.93              | 3.90           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,021.58                    | 7.83                          | 131.535              |         |
| 1,200.00                                                                        | 1,200.00                  | 1,209.70                  | 1,190.30                  | 4.11              | 4.14           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,021.16                    | 8.25                          | 124.765              |         |
| 1,250.00                                                                        | 1,250.00                  | 1,240.30                  | 1,240.30                  | 4.29              | 4.25           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,020.87                    | 8.54                          | 120.572              |         |
| 1,300.00                                                                        | 1,300.00                  | 1,309.70                  | 1,290.30                  | 4.46              | 4.50           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,020.45                    | 8.96                          | 114.852              |         |
| 1,350.00                                                                        | 1,350.00                  | 1,340.30                  | 1,340.30                  | 4.64              | 4.61           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,020.16                    | 9.25                          | 111.287              |         |
| 1,400.00                                                                        | 1,400.00                  | 1,409.70                  | 1,390.30                  | 4.82              | 4.86           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,019.74                    | 9.68                          | 106.391              |         |
| 1,450.00                                                                        | 1,450.00                  | 1,440.30                  | 1,440.30                  | 5.00              | 4.96           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,019.45                    | 9.96                          | 103.322              |         |
| 1,500.00                                                                        | 1,500.00                  | 1,509.70                  | 1,490.30                  | 5.18              | 5.21           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,019.02                    | 10.39                         | 99.086               |         |
| 1,550.00                                                                        | 1,550.00                  | 1,540.30                  | 1,540.30                  | 5.36              | 5.32           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,018.73                    | 10.68                         | 96.417               |         |
| 1,600.00                                                                        | 1,600.00                  | 1,609.70                  | 1,590.30                  | 5.53              | 5.57           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,018.31                    | 11.10                         | 92.716               |         |
| 1,650.00                                                                        | 1,650.00                  | 1,640.30                  | 1,640.30                  | 5.71              | 5.68           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,018.02                    | 11.39                         | 90.373               |         |
| 1,700.00                                                                        | 1,700.00                  | 1,709.70                  | 1,690.30                  | 5.89              | 5.93           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,017.59                    | 11.82                         | 87.112               |         |
| 1,750.00                                                                        | 1,750.00                  | 1,740.30                  | 1,740.30                  | 6.07              | 6.04           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,017.31                    | 12.11                         | 85.040               |         |
| 1,800.00                                                                        | 1,800.00                  | 1,809.70                  | 1,790.30                  | 6.25              | 6.28           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,016.88                    | 12.53                         | 82.145               |         |
| 1,850.00                                                                        | 1,850.00                  | 1,840.30                  | 1,840.30                  | 6.43              | 6.39           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,016.59                    | 12.82                         | 80.299               |         |
| 1,900.00                                                                        | 1,900.00                  | 1,909.70                  | 1,890.30                  | 6.61              | 6.64           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,016.16                    | 13.25                         | 77.712               |         |
| 1,950.00                                                                        | 1,950.00                  | 1,940.30                  | 1,940.30                  | 6.78              | 6.75           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,015.88                    | 13.53                         | 76.058               |         |
| 2,000.00                                                                        | 2,000.00                  | 2,009.70                  | 1,990.30                  | 6.96              | 7.00           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,015.45                    | 13.96                         | 73.733               |         |
| 2,050.00                                                                        | 2,050.00                  | 2,040.30                  | 2,040.30                  | 7.14              | 7.11           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,015.16                    | 14.25                         | 72.241               |         |
| 2,100.00                                                                        | 2,100.00                  | 2,109.70                  | 2,090.30                  | 7.32              | 7.36           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,014.73                    | 14.68                         | 70.140               |         |
| 2,150.00                                                                        | 2,150.00                  | 2,140.30                  | 2,140.30                  | 7.50              | 7.47           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,014.45                    | 14.96                         | 68.789               |         |
| 2,200.00                                                                        | 2,200.00                  | 2,209.70                  | 2,190.30                  | 7.68              | 7.71           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,014.02                    | 15.39                         | 66.880               |         |
| 2,250.00                                                                        | 2,250.00                  | 2,240.30                  | 2,240.30                  | 7.86              | 7.82           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,013.73                    | 15.68                         | 65.650               |         |
| 2,300.00                                                                        | 2,300.00                  | 2,309.70                  | 2,290.30                  | 8.04              | 8.07           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,013.30                    | 16.11                         | 63.909               |         |
| 2,350.00                                                                        | 2,350.00                  | 2,340.30                  | 2,340.30                  | 8.22              | 8.18           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,013.02                    | 16.40                         | 62.785               |         |
| 2,400.00                                                                        | 2,400.00                  | 2,409.70                  | 2,390.30                  | 8.39              | 8.43           | 100.83                     | -193.39                | 1,011.08      | 1,029.41                   | 1,012.59                    | 16.82                         | 61.190 CC            |         |
| 2,450.00                                                                        | 2,450.00                  | 2,440.30                  | 2,440.30                  | 8.57              | 8.54           | -156.71                    | -193.39                | 1,011.08      | 1,029.61                   | 1,012.51                    | 17.11                         | 60.190 ES            |         |
| 2,500.00                                                                        | 2,499.99                  | 2,509.71                  | 2,490.29                  | 8.74              | 8.79           | -156.73                    | -193.39                | 1,011.08      | 1,030.21                   | 1,012.68                    | 17.53                         | 58.776               |         |
| 2,550.00                                                                        | 2,549.98                  | 2,540.28                  | 2,540.28                  | 8.91              | 8.90           | -156.75                    | -193.39                | 1,011.08      | 1,031.21                   | 1,013.41                    | 17.81                         | 57.915               |         |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed 8H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                      |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                       |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   | Warning                    |
| Measured Depth (ft)                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 2,600.00                                                                        | 2,599.96            | 2,609.74            | 2,590.26            | 9.08            | 9.14        | -156.77               | -193.39                           | 1,011.08   | 1,032.62             | 1,014.39              | 18.22                   | 56.666            |                            |
| 2,650.00                                                                        | 2,649.92            | 2,640.22            | 2,640.22            | 9.25            | 9.25        | -156.81               | -193.39                           | 1,011.08   | 1,034.42             | 1,015.92              | 18.50                   | 55.911            |                            |
| 2,700.00                                                                        | 2,699.86            | 2,709.84            | 2,690.16            | 9.42            | 9.50        | -156.85               | -193.39                           | 1,011.08   | 1,036.63             | 1,017.71              | 18.92                   | 54.790            |                            |
| 2,750.00                                                                        | 2,749.78            | 2,740.08            | 2,740.08            | 9.59            | 9.61        | -156.90               | -193.39                           | 1,011.08   | 1,039.24             | 1,020.04              | 19.20                   | 54.132            |                            |
| 2,800.00                                                                        | 2,799.68            | 2,789.98            | 2,789.98            | 9.76            | 9.79        | -156.96               | -193.39                           | 1,011.08   | 1,042.25             | 1,022.70              | 19.55                   | 53.320            |                            |
| 2,850.00                                                                        | 2,849.54            | 2,839.84            | 2,839.84            | 9.94            | 9.97        | -157.03               | -193.39                           | 1,011.08   | 1,045.66             | 1,025.76              | 19.90                   | 52.556            |                            |
| 2,900.00                                                                        | 2,899.37            | 2,889.67            | 2,889.67            | 10.11           | 10.15       | -157.10               | -193.39                           | 1,011.08   | 1,049.47             | 1,029.23              | 20.25                   | 51.838            |                            |
| 2,950.00                                                                        | 2,949.16            | 2,939.46            | 2,939.46            | 10.29           | 10.33       | -157.18               | -193.39                           | 1,011.08   | 1,053.69             | 1,033.10              | 20.59                   | 51.163            |                            |
| 3,000.00                                                                        | 2,998.90            | 2,989.20            | 2,989.20            | 10.46           | 10.50       | -157.27               | -193.39                           | 1,011.08   | 1,058.31             | 1,037.37              | 20.94                   | 50.529            |                            |
| 3,050.00                                                                        | 3,048.61            | 3,046.91            | 3,046.91            | 10.64           | 10.70       | -157.38               | -193.43                           | 1,010.90   | 1,063.19             | 1,041.88              | 21.32                   | 49.873            |                            |
| 3,100.00                                                                        | 3,098.26            | 3,106.90            | 3,106.89            | 10.82           | 10.91       | -157.49               | -193.62                           | 1,010.11   | 1,068.01             | 1,046.31              | 21.70                   | 49.224            |                            |
| 3,150.00                                                                        | 3,147.86            | 3,166.97            | 3,166.94            | 11.00           | 11.12       | -157.60               | -193.94                           | 1,008.71   | 1,072.75             | 1,050.69              | 22.07                   | 48.610            |                            |
| 3,200.00                                                                        | 3,197.40            | 3,227.11            | 3,227.05            | 11.18           | 11.32       | -157.70               | -194.41                           | 1,006.70   | 1,077.42             | 1,054.98              | 22.44                   | 48.014            |                            |
| 3,250.00                                                                        | 3,246.89            | 3,287.32            | 3,287.20            | 11.37           | 11.52       | -157.80               | -195.02                           | 1,004.07   | 1,082.01             | 1,059.20              | 22.81                   | 47.434            |                            |
| 3,300.00                                                                        | 3,296.30            | 3,347.61            | 3,347.40            | 11.56           | 11.73       | -157.90               | -195.78                           | 1,000.82   | 1,086.53             | 1,063.35              | 23.18                   | 46.870            |                            |
| 3,350.00                                                                        | 3,345.65            | 3,407.97            | 3,407.63            | 11.75           | 11.94       | -158.00               | -196.68                           | 996.94     | 1,090.96             | 1,067.41              | 23.55                   | 46.322            |                            |
| 3,400.00                                                                        | 3,394.95            | 3,457.22            | 3,456.75            | 11.94           | 12.11       | -158.08               | -197.47                           | 993.56     | 1,095.50             | 1,071.60              | 23.90                   | 45.844            |                            |
| 3,450.00                                                                        | 3,444.24            | 3,506.98            | 3,506.38            | 12.13           | 12.28       | -158.18               | -198.27                           | 990.13     | 1,100.05             | 1,075.81              | 24.24                   | 45.377            |                            |
| 3,500.00                                                                        | 3,493.53            | 3,556.74            | 3,556.02            | 12.33           | 12.45       | -158.27               | -199.07                           | 986.71     | 1,104.61             | 1,080.02              | 24.59                   | 44.923            |                            |
| 3,550.00                                                                        | 3,542.82            | 3,606.50            | 3,605.66            | 12.53           | 12.62       | -158.36               | -199.87                           | 983.29     | 1,109.17             | 1,084.23              | 24.94                   | 44.479            |                            |
| 3,600.00                                                                        | 3,592.11            | 3,656.26            | 3,655.29            | 12.72           | 12.80       | -158.45               | -200.66                           | 979.86     | 1,113.73             | 1,088.44              | 25.29                   | 44.046            |                            |
| 3,650.00                                                                        | 3,641.40            | 3,706.02            | 3,704.93            | 12.92           | 12.97       | -158.54               | -201.46                           | 976.44     | 1,118.29             | 1,092.66              | 25.64                   | 43.623            |                            |
| 3,700.00                                                                        | 3,690.69            | 3,755.78            | 3,754.57            | 13.12           | 13.14       | -158.63               | -202.26                           | 973.02     | 1,122.86             | 1,096.88              | 25.99                   | 43.211            |                            |
| 3,750.00                                                                        | 3,739.99            | 3,805.54            | 3,804.20            | 13.33           | 13.32       | -158.72               | -203.06                           | 969.59     | 1,127.43             | 1,101.10              | 26.34                   | 42.809            |                            |
| 3,800.00                                                                        | 3,789.28            | 3,855.30            | 3,853.84            | 13.53           | 13.49       | -158.81               | -203.85                           | 966.17     | 1,132.01             | 1,105.32              | 26.69                   | 42.417            |                            |
| 3,850.00                                                                        | 3,838.57            | 3,905.06            | 3,903.47            | 13.74           | 13.67       | -158.89               | -204.65                           | 962.75     | 1,136.58             | 1,109.54              | 27.04                   | 42.033            |                            |
| 3,900.00                                                                        | 3,887.86            | 3,954.82            | 3,953.11            | 13.94           | 13.85       | -158.98               | -205.45                           | 959.33     | 1,141.16             | 1,113.77              | 27.39                   | 41.659            |                            |
| 3,950.00                                                                        | 3,937.15            | 4,004.58            | 4,002.75            | 14.15           | 14.02       | -159.07               | -206.25                           | 955.90     | 1,145.74             | 1,117.99              | 27.75                   | 41.293            |                            |
| 4,000.00                                                                        | 3,986.44            | 4,054.34            | 4,052.38            | 14.36           | 14.20       | -159.15               | -207.04                           | 952.48     | 1,150.32             | 1,122.22              | 28.10                   | 40.936            |                            |
| 4,050.00                                                                        | 4,035.73            | 4,104.10            | 4,102.02            | 14.57           | 14.38       | -159.23               | -207.84                           | 949.06     | 1,154.91             | 1,126.45              | 28.46                   | 40.587            |                            |
| 4,100.00                                                                        | 4,085.02            | 4,153.86            | 4,151.65            | 14.78           | 14.55       | -159.32               | -208.64                           | 945.63     | 1,159.50             | 1,130.69              | 28.81                   | 40.246            |                            |
| 4,150.00                                                                        | 4,134.31            | 4,203.62            | 4,201.29            | 14.99           | 14.73       | -159.40               | -209.43                           | 942.21     | 1,164.09             | 1,134.92              | 29.17                   | 39.913            |                            |
| 4,200.00                                                                        | 4,183.60            | 4,253.38            | 4,250.93            | 15.20           | 14.91       | -159.48               | -210.23                           | 938.79     | 1,168.68             | 1,139.16              | 29.52                   | 39.587            |                            |
| 4,250.00                                                                        | 4,232.90            | 4,303.14            | 4,300.56            | 15.41           | 15.09       | -159.57               | -211.03                           | 935.37     | 1,173.28             | 1,143.40              | 29.88                   | 39.268            |                            |
| 4,300.00                                                                        | 4,282.19            | 4,352.90            | 4,350.20            | 15.63           | 15.27       | -159.65               | -211.83                           | 931.94     | 1,177.88             | 1,147.64              | 30.24                   | 38.957            |                            |
| 4,350.00                                                                        | 4,331.48            | 4,402.66            | 4,399.84            | 15.84           | 15.45       | -159.73               | -212.62                           | 928.52     | 1,182.48             | 1,151.88              | 30.59                   | 38.652            |                            |
| 4,400.00                                                                        | 4,380.77            | 4,452.43            | 4,449.47            | 16.06           | 15.62       | -159.81               | -213.42                           | 925.10     | 1,187.08             | 1,156.13              | 30.95                   | 38.354            |                            |
| 4,450.00                                                                        | 4,430.06            | 4,502.19            | 4,499.11            | 16.27           | 15.80       | -159.89               | -214.22                           | 921.67     | 1,191.68             | 1,160.38              | 31.31                   | 38.062            |                            |
| 4,500.00                                                                        | 4,479.35            | 4,551.95            | 4,548.74            | 16.49           | 15.98       | -159.96               | -215.02                           | 918.25     | 1,196.29             | 1,164.62              | 31.67                   | 37.777            |                            |
| 4,550.00                                                                        | 4,528.64            | 4,601.71            | 4,598.38            | 16.71           | 16.16       | -160.04               | -215.81                           | 914.83     | 1,200.90             | 1,168.88              | 32.03                   | 37.497            |                            |
| 4,600.00                                                                        | 4,577.93            | 4,651.47            | 4,648.02            | 16.92           | 16.34       | -160.12               | -216.61                           | 911.40     | 1,205.51             | 1,173.13              | 32.39                   | 37.224            |                            |
| 4,650.00                                                                        | 4,627.22            | 4,701.23            | 4,697.65            | 17.14           | 16.52       | -160.20               | -217.41                           | 907.98     | 1,210.13             | 1,177.38              | 32.75                   | 36.956            |                            |
| 4,700.00                                                                        | 4,676.52            | 4,750.99            | 4,747.29            | 17.36           | 16.70       | -160.27               | -218.21                           | 904.56     | 1,214.74             | 1,181.64              | 33.11                   | 36.694            |                            |
| 4,750.00                                                                        | 4,725.81            | 4,800.75            | 4,796.93            | 17.58           | 16.89       | -160.35               | -219.00                           | 901.14     | 1,219.36             | 1,185.90              | 33.47                   | 36.437            |                            |
| 4,800.00                                                                        | 4,775.10            | 4,850.51            | 4,846.56            | 17.80           | 17.07       | -160.42               | -219.80                           | 897.71     | 1,223.98             | 1,190.16              | 33.83                   | 36.185            |                            |
| 4,850.00                                                                        | 4,824.39            | 4,900.27            | 4,896.20            | 18.02           | 17.25       | -160.50               | -220.60                           | 894.29     | 1,228.60             | 1,194.42              | 34.19                   | 35.938            |                            |
| 4,900.00                                                                        | 4,873.68            | 4,950.03            | 4,945.83            | 18.24           | 17.43       | -160.57               | -221.40                           | 890.87     | 1,233.23             | 1,198.68              | 34.55                   | 35.697            |                            |
| 4,950.00                                                                        | 4,922.97            | 5,000.21            | 4,995.47            | 18.47           | 17.61       | -160.65               | -222.19                           | 887.44     | 1,237.85             | 1,202.94              | 34.91                   | 35.458            |                            |
| 5,000.00                                                                        | 4,972.26            | 5,049.55            | 5,045.11            | 18.69           | 17.79       | -160.72               | -222.99                           | 884.02     | 1,242.48             | 1,207.21              | 35.27                   | 35.228            |                            |
| 5,050.00                                                                        | 5,021.55            | 5,100.69            | 5,094.74            | 18.91           | 17.98       | -160.79               | -223.79                           | 880.60     | 1,247.11             | 1,211.48              | 35.64                   | 34.995            |                            |
| 5,100.00                                                                        | 5,070.84            | 5,149.07            | 5,144.38            | 19.13           | 18.16       | -160.86               | -224.59                           | 877.18     | 1,251.75             | 1,215.75              | 35.99                   | 34.777            |                            |
| 5,150.00                                                                        | 5,120.13            | 5,201.17            | 5,194.02            | 19.36           | 18.35       | -160.93               | -225.38                           | 873.75     | 1,256.38             | 1,220.02              | 36.36                   | 34.550            |                            |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design      Sec 08-T25S-R33E - Flagler 8 Fed 8H - Wellbore #1 - Permit Plan 1 |                           |                           |                           |                       |                    |                             |                                         |               |                            |                             |                               |                      | Offset Site Error: | 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-----------------------|--------------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program:    0-MWD+IGRF                                                        |                           |                           |                           |                       |                    |                             |                                         |               |                            |                             |                               |                      | Offset Well Error: | 0.50 ft |
| Reference                                                                            |                           | Offset                    |                           | Semi Major Axis       |                    |                             | Distance                                |               |                            |                             |                               |                      | Warning            |         |
| Measured Depth<br>Depth<br>(ft)                                                      | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br><br>(ft) | Offset<br><br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |         |
| 5,200.00                                                                             | 5,169.43                  | 5,248.59                  | 5,243.65                  | 19.58                 | 18.52              | -161.01                     | -226.18                                 | 870.33        | 1,261.02                   | 1,224.30                    | 36.72                         | 34.343               |                    |         |
| 5,250.00                                                                             | 5,218.72                  | 5,301.65                  | 5,293.29                  | 19.80                 | 18.72              | -161.08                     | -226.98                                 | 866.91        | 1,265.65                   | 1,228.56                    | 37.09                         | 34.122               |                    |         |
| 5,300.00                                                                             | 5,268.01                  | 5,348.11                  | 5,342.92                  | 20.03                 | 18.89              | -161.15                     | -227.78                                 | 863.48        | 1,270.29                   | 1,232.85                    | 37.44                         | 33.926               |                    |         |
| 5,350.00                                                                             | 5,317.30                  | 5,397.87                  | 5,392.56                  | 20.25                 | 19.07              | -161.21                     | -228.57                                 | 860.06        | 1,274.94                   | 1,237.13                    | 37.81                         | 33.723               |                    |         |
| 5,400.00                                                                             | 5,366.59                  | 5,447.64                  | 5,442.20                  | 20.48                 | 19.25              | -161.28                     | -229.37                                 | 856.64        | 1,279.58                   | 1,241.41                    | 38.17                         | 33.524               |                    |         |
| 5,450.00                                                                             | 5,415.88                  | 5,497.40                  | 5,491.83                  | 20.70                 | 19.44              | -161.35                     | -230.17                                 | 853.21        | 1,284.22                   | 1,245.69                    | 38.53                         | 33.328               |                    |         |
| 5,500.00                                                                             | 5,465.17                  | 5,547.16                  | 5,541.47                  | 20.93                 | 19.62              | -161.42                     | -230.97                                 | 849.79        | 1,288.87                   | 1,249.98                    | 38.90                         | 33.136               |                    |         |
| 5,550.00                                                                             | 5,514.46                  | 5,603.08                  | 5,591.11                  | 21.16                 | 19.83              | -161.49                     | -231.76                                 | 846.37        | 1,293.52                   | 1,254.24                    | 39.28                         | 32.930               |                    |         |
| 5,600.00                                                                             | 5,563.75                  | 5,646.68                  | 5,640.74                  | 21.38                 | 19.99              | -161.55                     | -232.56                                 | 842.95        | 1,298.17                   | 1,258.55                    | 39.62                         | 32.763               |                    |         |
| 5,650.00                                                                             | 5,613.04                  | 5,703.56                  | 5,690.38                  | 21.61                 | 20.20              | -161.62                     | -233.36                                 | 839.52        | 1,302.82                   | 1,262.81                    | 40.01                         | 32.560               |                    |         |
| 5,700.00                                                                             | 5,662.34                  | 5,746.20                  | 5,740.01                  | 21.84                 | 20.35              | -161.69                     | -234.16                                 | 836.10        | 1,307.48                   | 1,267.13                    | 40.35                         | 32.403               |                    |         |
| 5,750.00                                                                             | 5,711.63                  | 5,804.04                  | 5,789.65                  | 22.06                 | 20.57              | -161.75                     | -234.95                                 | 832.68        | 1,312.13                   | 1,271.39                    | 40.74                         | 32.204               |                    |         |
| 5,800.00                                                                             | 5,760.92                  | 5,845.72                  | 5,839.29                  | 22.29                 | 20.72              | -161.82                     | -235.75                                 | 829.25        | 1,316.79                   | 1,275.71                    | 41.08                         | 32.055               |                    |         |
| 5,850.00                                                                             | 5,810.21                  | 5,904.52                  | 5,888.92                  | 22.52                 | 20.94              | -161.88                     | -236.55                                 | 825.83        | 1,321.45                   | 1,279.97                    | 41.48                         | 31.861               |                    |         |
| 5,900.00                                                                             | 5,859.50                  | 5,945.24                  | 5,938.56                  | 22.75                 | 21.09              | -161.94                     | -237.35                                 | 822.41        | 1,326.11                   | 1,284.30                    | 41.81                         | 31.719               |                    |         |
| 5,950.00                                                                             | 5,908.79                  | 5,995.00                  | 5,988.20                  | 22.97                 | 21.27              | -162.01                     | -238.14                                 | 818.98        | 1,330.77                   | 1,288.60                    | 42.17                         | 31.555               |                    |         |
| 6,000.00                                                                             | 5,958.08                  | 6,044.76                  | 6,037.83                  | 23.20                 | 21.46              | -162.07                     | -238.94                                 | 815.56        | 1,335.44                   | 1,292.90                    | 42.54                         | 31.394               |                    |         |
| 6,050.00                                                                             | 6,007.37                  | 6,105.48                  | 6,087.47                  | 23.43                 | 21.68              | -162.13                     | -239.74                                 | 812.14        | 1,340.10                   | 1,297.16                    | 42.94                         | 31.207               |                    |         |
| 6,100.00                                                                             | 6,056.66                  | 6,144.28                  | 6,137.10                  | 23.66                 | 21.83              | -162.20                     | -240.53                                 | 808.72        | 1,344.77                   | 1,301.50                    | 43.27                         | 31.080               |                    |         |
| 6,150.00                                                                             | 6,105.96                  | 6,205.96                  | 6,186.74                  | 23.89                 | 22.06              | -162.26                     | -241.33                                 | 805.29        | 1,349.44                   | 1,305.76                    | 43.68                         | 30.897               |                    |         |
| 6,200.00                                                                             | 6,155.25                  | 6,243.80                  | 6,236.38                  | 24.12                 | 22.20              | -162.32                     | -242.13                                 | 801.87        | 1,354.11                   | 1,310.11                    | 44.00                         | 30.777               |                    |         |
| 6,250.00                                                                             | 6,204.54                  | 6,293.56                  | 6,286.01                  | 24.35                 | 22.38              | -162.38                     | -242.93                                 | 798.45        | 1,358.78                   | 1,314.42                    | 44.36                         | 30.629               |                    |         |
| 6,300.00                                                                             | 6,253.83                  | 6,343.32                  | 6,335.65                  | 24.58                 | 22.57              | -162.44                     | -243.72                                 | 795.02        | 1,363.46                   | 1,318.73                    | 44.73                         | 30.483               |                    |         |
| 6,350.00                                                                             | 6,303.12                  | 6,406.92                  | 6,385.28                  | 24.81                 | 22.80              | -162.50                     | -244.52                                 | 791.60        | 1,368.13                   | 1,322.99                    | 45.14                         | 30.306               |                    |         |
| 6,400.00                                                                             | 6,352.41                  | 6,442.85                  | 6,434.92                  | 25.04                 | 22.94              | -162.56                     | -245.32                                 | 788.18        | 1,372.81                   | 1,327.35                    | 45.46                         | 30.199               |                    |         |
| 6,450.00                                                                             | 6,401.70                  | 6,507.39                  | 6,484.56                  | 25.27                 | 23.18              | -162.62                     | -246.12                                 | 784.76        | 1,377.49                   | 1,331.61                    | 45.88                         | 30.025               |                    |         |
| 6,500.00                                                                             | 6,450.99                  | 6,542.37                  | 6,534.19                  | 25.50                 | 23.31              | -162.68                     | -246.91                                 | 781.33        | 1,382.16                   | 1,335.97                    | 46.19                         | 29.923               |                    |         |
| 6,550.00                                                                             | 6,500.28                  | 6,607.87                  | 6,583.83                  | 25.73                 | 23.55              | -162.74                     | -247.71                                 | 777.91        | 1,386.85                   | 1,340.23                    | 46.61                         | 29.753               |                    |         |
| 6,600.00                                                                             | 6,549.57                  | 6,641.89                  | 6,633.47                  | 25.96                 | 23.68              | -162.80                     | -248.51                                 | 774.49        | 1,391.53                   | 1,344.61                    | 46.92                         | 29.656               |                    |         |
| 6,650.00                                                                             | 6,598.87                  | 6,708.35                  | 6,683.10                  | 26.19                 | 23.93              | -162.85                     | -249.31                                 | 771.06        | 1,396.21                   | 1,348.86                    | 47.35                         | 29.488               |                    |         |
| 6,700.00                                                                             | 6,648.16                  | 6,741.41                  | 6,732.74                  | 26.42                 | 24.05              | -162.91                     | -250.10                                 | 767.64        | 1,400.90                   | 1,353.24                    | 47.65                         | 29.397               |                    |         |
| 6,750.00                                                                             | 6,697.45                  | 6,808.83                  | 6,782.37                  | 26.66                 | 24.30              | -162.97                     | -250.90                                 | 764.22        | 1,405.58                   | 1,357.50                    | 48.08                         | 29.232               |                    |         |
| 6,800.00                                                                             | 6,746.74                  | 6,840.93                  | 6,832.01                  | 26.89                 | 24.42              | -163.02                     | -251.70                                 | 760.79        | 1,410.27                   | 1,361.88                    | 48.39                         | 29.146               |                    |         |
| 6,850.00                                                                             | 6,796.03                  | 6,909.31                  | 6,881.65                  | 27.12                 | 24.68              | -163.08                     | -252.50                                 | 757.37        | 1,414.96                   | 1,366.14                    | 48.82                         | 28.984               |                    |         |
| 6,900.00                                                                             | 6,845.32                  | 6,940.45                  | 6,931.28                  | 27.35                 | 24.80              | -163.14                     | -253.29                                 | 753.95        | 1,419.65                   | 1,370.53                    | 49.12                         | 28.903               |                    |         |
| 6,950.00                                                                             | 6,894.61                  | 7,009.79                  | 6,980.92                  | 27.58                 | 25.05              | -163.19                     | -254.09                                 | 750.53        | 1,424.34                   | 1,374.79                    | 49.55                         | 28.743               |                    |         |
| 7,000.00                                                                             | 6,943.90                  | 7,039.97                  | 7,030.56                  | 27.82                 | 25.17              | -163.25                     | -254.89                                 | 747.10        | 1,429.03                   | 1,379.18                    | 49.85                         | 28.666               |                    |         |
| 7,050.00                                                                             | 6,993.19                  | 7,089.73                  | 7,080.19                  | 28.05                 | 25.35              | -163.30                     | -255.69                                 | 743.68        | 1,433.73                   | 1,383.51                    | 50.22                         | 28.550               |                    |         |
| 7,100.00                                                                             | 7,042.48                  | 7,139.49                  | 7,129.83                  | 28.28                 | 25.54              | -163.36                     | -256.48                                 | 740.26        | 1,438.43                   | 1,387.84                    | 50.58                         | 28.436               |                    |         |
| 7,150.00                                                                             | 7,091.78                  | 7,189.25                  | 7,179.46                  | 28.51                 | 25.73              | -163.41                     | -257.28                                 | 736.83        | 1,443.12                   | 1,392.17                    | 50.95                         | 28.324               |                    |         |
| 7,200.00                                                                             | 7,141.07                  | 7,239.01                  | 7,229.10                  | 28.75                 | 25.91              | -163.46                     | -258.08                                 | 733.41        | 1,447.82                   | 1,396.50                    | 51.32                         | 28.213               |                    |         |
| 7,250.00                                                                             | 7,190.36                  | 7,288.77                  | 7,278.74                  | 28.98                 | 26.10              | -163.52                     | -258.88                                 | 729.99        | 1,452.52                   | 1,400.84                    | 51.68                         | 28.104               |                    |         |
| 7,300.00                                                                             | 7,239.65                  | 7,338.53                  | 7,328.37                  | 29.21                 | 26.29              | -163.57                     | -259.67                                 | 726.57        | 1,457.22                   | 1,405.17                    | 52.05                         | 27.997               |                    |         |
| 7,350.00                                                                             | 7,288.94                  | 7,388.29                  | 7,378.01                  | 29.44                 | 26.47              | -163.62                     | -260.47                                 | 723.14        | 1,461.92                   | 1,409.51                    | 52.42                         | 27.890               |                    |         |
| 7,400.00                                                                             | 7,338.23                  | 7,438.05                  | 7,427.65                  | 29.68                 | 26.66              | -163.67                     | -261.27                                 | 719.72        | 1,466.63                   | 1,413.84                    | 52.78                         | 27.786               |                    |         |
| 7,450.00                                                                             | 7,387.52                  | 7,487.82                  | 7,477.28                  | 29.91                 | 26.85              | -163.73                     | -262.07                                 | 716.30        | 1,471.33                   | 1,418.18                    | 53.15                         | 27.683               |                    |         |
| 7,500.00                                                                             | 7,436.81                  | 7,537.58                  | 7,526.92                  | 30.14                 | 27.03              | -163.78                     | -262.86                                 | 712.87        | 1,476.04                   | 1,422.52                    | 53.52                         | 27.581               |                    |         |
| 7,550.00                                                                             | 7,486.10                  | 7,587.34                  | 7,576.55                  | 30.38                 | 27.22              | -163.83                     | -263.66                                 | 709.45        | 1,480.74                   | 1,426.86                    | 53.88                         | 27.480               |                    |         |
| 7,600.00                                                                             | 7,535.40                  | 7,637.10                  | 7,626.19                  | 30.61                 | 27.41              | -163.88                     | -264.46                                 | 706.03        | 1,485.45                   | 1,431.20                    | 54.25                         | 27.381               |                    |         |
| 7,650.00                                                                             | 7,584.69                  | 7,686.86                  | 7,675.83                  | 30.85                 | 27.59              | -163.93                     | -265.26                                 | 702.60        | 1,490.16                   | 1,435.54                    | 54.62                         | 27.284               |                    |         |
| 7,700.00                                                                             | 7,633.98                  | 7,736.62                  | 7,725.46                  | 31.08                 | 27.78              | -163.98                     | -266.05                                 | 699.18        | 1,494.87                   | 1,439.89                    | 54.98                         | 27.187               |                    |         |
| 7,750.00                                                                             | 7,683.27                  | 7,786.38                  | 7,775.10                  | 31.31                 | 27.97              | -164.03                     | -266.85                                 | 695.76        | 1,499.58                   | 1,444.23                    | 55.35                         | 27,092 SF            |                    |         |

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

## Anticollision Report

|                           |                                    |                                     |                        |
|---------------------------|------------------------------------|-------------------------------------|------------------------|
| <b>Company:</b>           | WCDSC Permian NM                   | <b>Local Co-ordinate Reference:</b> | Well Flagler 8 Fed 38H |
| <b>Project:</b>           | Lea County (NAD83 New Mexico East) | <b>TVD Reference:</b>               | RKB @ 3472.50ft        |
| <b>Reference Site:</b>    | Sec 08-T25S-R33E                   | <b>MD Reference:</b>                | RKB @ 3472.50ft        |
| <b>Site Error:</b>        | 0.00 ft                            | <b>North Reference:</b>             | Grid                   |
| <b>Reference Well:</b>    | Flagler 8 Fed 38H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature      |
| <b>Well Error:</b>        | 0.50 ft                            | <b>Output errors are at</b>         | 2.00 sigma             |
| <b>Reference Wellbore</b> | Wellbore #1                        | <b>Database:</b>                    | EDM r5000.141_Prod US  |
| <b>Reference Design:</b>  | Permit Plan 2                      | <b>Offset TVD Reference:</b>        | Offset Datum           |

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# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed Com 14H - Wellbore #1 - Permit Plan 1 |                           |                           |                           |                   |                |                            |                                         |               |                            |                             |                               |                      | Offset Site Error: | 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                           |                           |                           |                           |                   |                |                            |                                         |               |                            |                             |                               |                      | Offset Well Error: | 0.50 ft |
| Reference                                                                            |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Tooface<br>(") | Distance                                |               | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor | Warning            |         |
| Measured<br>Depth<br>(ft)                                                            | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                            | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) |                            |                             |                               |                      |                    |         |
| 5,650.00                                                                             | 5,613.04                  | 5,632.34                  | 5,632.34                  | 21.61             | 19.97          | 16.03                      | -12.52                                  | -1,949.79     | 1,498.81                   | 1,458.86                    | 39.95                         | 37.520               |                    |         |
| 5,700.00                                                                             | 5,662.34                  | 5,681.64                  | 5,681.64                  | 21.84             | 20.15          | 16.12                      | -12.52                                  | -1,949.79     | 1,490.74                   | 1,450.43                    | 40.31                         | 36.981               |                    |         |
| 5,750.00                                                                             | 5,711.63                  | 5,730.93                  | 5,730.93                  | 22.06             | 20.33          | 16.21                      | -12.52                                  | -1,949.79     | 1,482.67                   | 1,441.99                    | 40.68                         | 36.451               |                    |         |
| 5,800.00                                                                             | 5,760.92                  | 5,780.22                  | 5,780.22                  | 22.29             | 20.50          | 16.30                      | -12.52                                  | -1,949.79     | 1,474.61                   | 1,433.57                    | 41.04                         | 35.931               |                    |         |
| 5,850.00                                                                             | 5,810.21                  | 5,829.51                  | 5,829.51                  | 22.52             | 20.68          | 16.39                      | -12.52                                  | -1,949.79     | 1,466.55                   | 1,425.14                    | 41.40                         | 35.420               |                    |         |
| 5,900.00                                                                             | 5,859.50                  | 5,878.80                  | 5,878.80                  | 22.75             | 20.86          | 16.49                      | -12.52                                  | -1,949.79     | 1,458.49                   | 1,416.72                    | 41.77                         | 34.918               |                    |         |
| 5,950.00                                                                             | 5,908.79                  | 5,928.09                  | 5,928.09                  | 22.97             | 21.03          | 16.58                      | -12.52                                  | -1,949.79     | 1,450.44                   | 1,408.30                    | 42.13                         | 34.424               |                    |         |
| 6,000.00                                                                             | 5,958.08                  | 5,977.38                  | 5,977.38                  | 23.20             | 21.21          | 16.68                      | -12.52                                  | -1,949.79     | 1,442.39                   | 1,399.89                    | 42.50                         | 33.938               |                    |         |
| 6,050.00                                                                             | 6,007.37                  | 6,026.67                  | 6,026.67                  | 23.43             | 21.39          | 16.77                      | -12.52                                  | -1,949.79     | 1,434.34                   | 1,391.48                    | 42.87                         | 33.461               |                    |         |
| 6,100.00                                                                             | 6,056.66                  | 6,075.96                  | 6,075.96                  | 23.66             | 21.56          | 16.87                      | -12.52                                  | -1,949.79     | 1,426.30                   | 1,383.07                    | 43.23                         | 32.992               |                    |         |
| 6,150.00                                                                             | 6,105.96                  | 6,125.26                  | 6,125.26                  | 23.89             | 21.74          | 16.97                      | -12.52                                  | -1,949.79     | 1,418.27                   | 1,374.67                    | 43.60                         | 32.531               |                    |         |
| 6,200.00                                                                             | 6,155.25                  | 6,174.55                  | 6,174.55                  | 24.12             | 21.92          | 17.07                      | -12.52                                  | -1,949.79     | 1,410.23                   | 1,366.27                    | 43.96                         | 32.077               |                    |         |
| 6,250.00                                                                             | 6,204.54                  | 6,220.68                  | 6,220.68                  | 24.35             | 22.08          | 17.16                      | -12.57                                  | -1,949.82     | 1,402.23                   | 1,357.91                    | 44.32                         | 31.639               |                    |         |
| 6,300.00                                                                             | 6,253.83                  | 6,263.52                  | 6,263.51                  | 24.58             | 22.22          | 17.23                      | -12.98                                  | -1,950.05     | 1,394.43                   | 1,349.77                    | 44.66                         | 31.222               |                    |         |
| 6,350.00                                                                             | 6,303.12                  | 6,306.44                  | 6,306.43                  | 24.81             | 22.37          | 17.28                      | -13.82                                  | -1,950.51     | 1,386.87                   | 1,341.87                    | 45.00                         | 30.818               |                    |         |
| 6,400.00                                                                             | 6,352.41                  | 6,349.46                  | 6,349.42                  | 25.04             | 22.51          | 17.32                      | -15.08                                  | -1,951.21     | 1,379.53                   | 1,334.20                    | 45.34                         | 30.429               |                    |         |
| 6,450.00                                                                             | 6,401.70                  | 6,392.54                  | 6,392.46                  | 25.27             | 22.65          | 17.33                      | -16.76                                  | -1,952.15     | 1,372.43                   | 1,326.76                    | 45.67                         | 30.051               |                    |         |
| 6,500.00                                                                             | 6,450.99                  | 6,435.68                  | 6,435.53                  | 25.50             | 22.79          | 17.33                      | -18.87                                  | -1,953.32     | 1,365.55                   | 1,319.55                    | 46.00                         | 29.685               |                    |         |
| 6,550.00                                                                             | 6,500.28                  | 6,478.87                  | 6,478.62                  | 25.73             | 22.93          | 17.31                      | -21.41                                  | -1,954.74     | 1,358.91                   | 1,312.58                    | 46.33                         | 29.329               |                    |         |
| 6,600.00                                                                             | 6,549.57                  | 6,522.10                  | 6,521.72                  | 25.96             | 23.07          | 17.27                      | -24.38                                  | -1,956.39     | 1,352.50                   | 1,305.84                    | 46.66                         | 28.984               |                    |         |
| 6,650.00                                                                             | 6,598.87                  | 6,567.84                  | 6,567.28                  | 26.19             | 23.22          | 17.21                      | -27.95                                  | -1,958.36     | 1,346.30                   | 1,299.30                    | 47.00                         | 28.644               |                    |         |
| 6,700.00                                                                             | 6,648.16                  | 6,617.43                  | 6,616.66                  | 26.42             | 23.38          | 17.14                      | -31.90                                  | -1,960.56     | 1,340.15                   | 1,292.80                    | 47.35                         | 28.303               |                    |         |
| 6,750.00                                                                             | 6,697.45                  | 6,667.03                  | 6,666.05                  | 26.66             | 23.54          | 17.07                      | -35.84                                  | -1,962.75     | 1,334.01                   | 1,286.31                    | 47.70                         | 27.967               |                    |         |
| 6,800.00                                                                             | 6,746.74                  | 6,716.62                  | 6,715.44                  | 26.89             | 23.71          | 16.99                      | -39.79                                  | -1,964.95     | 1,327.86                   | 1,279.81                    | 48.05                         | 27.635               |                    |         |
| 6,850.00                                                                             | 6,796.03                  | 6,766.21                  | 6,764.82                  | 27.12             | 23.87          | 16.92                      | -43.74                                  | -1,967.14     | 1,321.72                   | 1,273.32                    | 48.40                         | 27.308               |                    |         |
| 6,900.00                                                                             | 6,845.32                  | 6,815.81                  | 6,814.21                  | 27.35             | 24.04          | 16.85                      | -47.69                                  | -1,969.33     | 1,315.58                   | 1,266.83                    | 48.75                         | 26.986               |                    |         |
| 6,950.00                                                                             | 6,894.61                  | 6,865.40                  | 6,863.60                  | 27.58             | 24.20          | 16.77                      | -51.64                                  | -1,971.53     | 1,309.44                   | 1,260.34                    | 49.10                         | 26.668               |                    |         |
| 7,000.00                                                                             | 6,943.90                  | 6,914.99                  | 6,912.98                  | 27.82             | 24.37          | 16.70                      | -55.59                                  | -1,973.72     | 1,303.30                   | 1,253.85                    | 49.45                         | 26.354               |                    |         |
| 7,050.00                                                                             | 6,993.19                  | 6,964.58                  | 6,962.37                  | 28.05             | 24.53          | 16.62                      | -59.54                                  | -1,975.91     | 1,297.16                   | 1,247.36                    | 49.80                         | 26.045               |                    |         |
| 7,100.00                                                                             | 7,042.48                  | 7,014.18                  | 7,011.76                  | 28.28             | 24.70          | 16.54                      | -63.48                                  | -1,978.11     | 1,291.03                   | 1,240.88                    | 50.16                         | 25.740               |                    |         |
| 7,150.00                                                                             | 7,091.78                  | 7,063.77                  | 7,061.14                  | 28.51             | 24.86          | 16.47                      | -67.43                                  | -1,980.30     | 1,284.90                   | 1,234.39                    | 50.51                         | 25.439               |                    |         |
| 7,200.00                                                                             | 7,141.07                  | 7,113.36                  | 7,110.53                  | 28.75             | 25.03          | 16.39                      | -71.38                                  | -1,982.49     | 1,278.77                   | 1,227.91                    | 50.86                         | 25.142               |                    |         |
| 7,250.00                                                                             | 7,190.36                  | 7,162.95                  | 7,159.92                  | 28.98             | 25.20          | 16.31                      | -75.33                                  | -1,984.69     | 1,272.65                   | 1,221.43                    | 51.22                         | 24.848               |                    |         |
| 7,300.00                                                                             | 7,239.65                  | 7,212.55                  | 7,209.30                  | 29.21             | 25.37          | 16.23                      | -79.28                                  | -1,986.88     | 1,266.53                   | 1,214.96                    | 51.57                         | 24.559               |                    |         |
| 7,350.00                                                                             | 7,288.94                  | 7,262.14                  | 7,258.69                  | 29.44             | 25.53          | 16.15                      | -83.23                                  | -1,989.08     | 1,260.40                   | 1,208.48                    | 51.92                         | 24.274               |                    |         |
| 7,400.00                                                                             | 7,338.23                  | 7,311.73                  | 7,308.08                  | 29.68             | 25.70          | 16.07                      | -87.18                                  | -1,991.27     | 1,254.29                   | 1,202.01                    | 52.28                         | 23.992               |                    |         |
| 7,450.00                                                                             | 7,387.52                  | 7,361.32                  | 7,357.46                  | 29.91             | 25.87          | 15.99                      | -91.12                                  | -1,993.46     | 1,248.17                   | 1,195.54                    | 52.63                         | 23.714               |                    |         |
| 7,500.00                                                                             | 7,436.81                  | 7,410.92                  | 7,406.85                  | 30.14             | 26.04          | 15.90                      | -95.07                                  | -1,995.66     | 1,242.06                   | 1,189.07                    | 52.99                         | 23.440               |                    |         |
| 7,550.00                                                                             | 7,486.10                  | 7,460.51                  | 7,456.24                  | 30.38             | 26.21          | 15.82                      | -99.02                                  | -1,997.85     | 1,235.95                   | 1,182.60                    | 53.34                         | 23.169               |                    |         |
| 7,600.00                                                                             | 7,535.40                  | 7,510.10                  | 7,505.62                  | 30.61             | 26.38          | 15.74                      | -102.97                                 | -2,000.04     | 1,229.84                   | 1,176.14                    | 53.70                         | 22.902               |                    |         |
| 7,650.00                                                                             | 7,584.69                  | 7,559.70                  | 7,555.01                  | 30.85             | 26.55          | 15.65                      | -106.92                                 | -2,002.24     | 1,223.73                   | 1,169.68                    | 54.06                         | 22.638               |                    |         |
| 7,700.00                                                                             | 7,633.98                  | 7,609.29                  | 7,604.40                  | 31.08             | 26.72          | 15.56                      | -110.87                                 | -2,004.43     | 1,217.63                   | 1,163.22                    | 54.41                         | 22.378               |                    |         |
| 7,750.00                                                                             | 7,683.27                  | 7,658.88                  | 7,653.78                  | 31.31             | 26.90          | 15.48                      | -114.82                                 | -2,006.62     | 1,211.53                   | 1,156.76                    | 54.77                         | 22.120               |                    |         |
| 7,800.00                                                                             | 7,732.56                  | 7,708.47                  | 7,703.17                  | 31.55             | 27.07          | 15.39                      | -118.76                                 | -2,008.82     | 1,205.43                   | 1,150.31                    | 55.13                         | 21.867               |                    |         |
| 7,850.00                                                                             | 7,781.85                  | 7,758.07                  | 7,752.56                  | 31.78             | 27.24          | 15.30                      | -122.71                                 | -2,011.01     | 1,199.34                   | 1,143.86                    | 55.48                         | 21.616               |                    |         |
| 7,900.00                                                                             | 7,831.14                  | 7,807.66                  | 7,801.94                  | 32.02             | 27.41          | 15.21                      | -126.66                                 | -2,013.21     | 1,193.25                   | 1,137.41                    | 55.84                         | 21.369               |                    |         |
| 7,950.00                                                                             | 7,880.43                  | 7,857.25                  | 7,851.33                  | 32.25             | 27.59          | 15.12                      | -130.61                                 | -2,015.40     | 1,187.16                   | 1,130.96                    | 56.20                         | 21.124               |                    |         |
| 8,000.00                                                                             | 7,929.72                  | 7,906.84                  | 7,900.71                  | 32.48             | 27.76          | 15.03                      | -134.56                                 | -2,017.59     | 1,181.07                   | 1,124.52                    | 56.56                         | 20.883               |                    |         |
| 8,050.00                                                                             | 7,979.01                  | 7,956.44                  | 7,950.10                  | 32.72             | 27.93          | 14.94                      | -138.51                                 | -2,019.79     | 1,174.99                   | 1,118.08                    | 56.91                         | 20.645               |                    |         |
| 8,100.00                                                                             | 8,028.31                  | 8,006.03                  | 7,999.49                  | 32.95             | 28.11          | 14.83                      | -142.46                                 | -2,021.98     | 1,168.95                   | 1,111.88                    | 57.27                         | 20.410               |                    |         |
| 8,150.00                                                                             | 8,077.69                  | 8,055.68                  | 8,048.93                  | 33.18             | 28.28          | 14.71                      | -146.41                                 | -2,024.18     | 1,163.41                   | 1,105.78                    | 57.63                         | 20.188               |                    |         |
| 8,200.00                                                                             | 8,127.17                  | 8,105.39                  | 8,098.44                  | 33.40             | 28.45          | 14.58                      | -150.37                                 | -2,026.37     | 1,158.50                   | 1,100.51                    | 57.99                         | 19.979               |                    |         |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed Com 14H - Wellbore #1 - Permit Plan 1 |                           |                           |                           |                   |                |                             |                        |               |                            |                             |                               | Offset Site Error:   | 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|---------|
| Survey Program: 0-MWD+IGRF                                                           |                           |                           |                           |                   |                |                             |                        |               |                            |                             |                               | Offset Well Error:   | 0.50 ft |
| Reference                                                                            |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |               | Distance                   |                             |                               |                      | Warning |
| Measured<br>Depth<br>(ft)                                                            | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | +N/-S<br>(ft)          | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |         |
| 8,250.00                                                                             | 8,176.74                  | 8,155.15                  | 8,147.99                  | 33.62             | 28.63          | 14.45                       | -154.33                | -2,028.58     | 1,154.23                   | 1,095.89                    | 58.34                         | 19.784               |         |
| 8,300.00                                                                             | 8,226.39                  | 8,204.95                  | 8,197.58                  | 33.83             | 28.81          | 14.30                       | -158.29                | -2,030.78     | 1,150.59                   | 1,091.90                    | 58.70                         | 19.603               |         |
| 8,350.00                                                                             | 8,276.12                  | 8,254.78                  | 8,247.21                  | 34.03             | 28.98          | 14.16                       | -162.26                | -2,032.98     | 1,147.60                   | 1,088.55                    | 59.05                         | 19.435               |         |
| 8,400.00                                                                             | 8,325.90                  | 8,304.64                  | 8,296.86                  | 34.23             | 29.16          | 14.00                       | -166.23                | -2,035.19     | 1,145.24                   | 1,085.84                    | 59.40                         | 19.280               |         |
| 8,450.00                                                                             | 8,375.75                  | 8,354.52                  | 8,346.53                  | 34.42             | 29.34          | 13.84                       | -170.20                | -2,037.39     | 1,143.53                   | 1,083.78                    | 59.75                         | 19.139               |         |
| 8,500.00                                                                             | 8,425.64                  | 8,404.40                  | 8,396.20                  | 34.61             | 29.51          | 13.67                       | -174.17                | -2,039.60     | 1,142.46                   | 1,082.36                    | 60.10                         | 19.010               |         |
| 8,550.00                                                                             | 8,475.57                  | 8,454.28                  | 8,445.88                  | 34.78             | 29.69          | 13.50                       | -178.14                | -2,041.81     | 1,142.03                   | 1,081.59                    | 60.44                         | 18.894               |         |
| 8,559.66                                                                             | 8,485.22                  | 8,464.47                  | 8,456.02                  | 34.82             | 29.73          | 13.47                       | -178.95                | -2,042.26     | 1,142.02                   | 1,081.51                    | 60.51                         | 18.873 CC            |         |
| 8,600.00                                                                             | 8,525.53                  | 8,511.35                  | 8,502.74                  | 34.96             | 29.89          | 13.31                       | -182.39                | -2,044.17     | 1,142.12                   | 1,081.31                    | 60.81                         | 18.782               |         |
| 8,650.00                                                                             | 8,575.51                  | 8,569.53                  | 8,560.77                  | 35.12             | 30.10          | 13.15                       | -185.97                | -2,046.15     | 1,142.49                   | 1,081.32                    | 61.17                         | 18.677               |         |
| 8,700.00                                                                             | 8,625.51                  | 8,627.78                  | 8,618.93                  | 35.28             | 30.30          | 13.02                       | -188.77                | -2,047.71     | 1,143.15                   | 1,081.61                    | 61.53                         | 18.578               |         |
| 8,750.00                                                                             | 8,675.51                  | 8,686.09                  | 8,677.20                  | 35.44             | 30.50          | -89.54                      | -190.79                | -2,048.84     | 1,144.01                   | 1,082.12                    | 61.88                         | 18.486               |         |
| 8,800.00                                                                             | 8,725.51                  | 8,744.45                  | 8,735.54                  | 35.59             | 30.71          | -89.60                      | -192.04                | -2,049.53     | 1,144.59                   | 1,082.36                    | 62.24                         | 18.391               |         |
| 8,850.00                                                                             | 8,775.51                  | 8,802.85                  | 8,793.93                  | 35.74             | 30.91          | -89.63                      | -192.52                | -2,049.79     | 1,144.82                   | 1,082.23                    | 62.59                         | 18.291               |         |
| 8,900.00                                                                             | 8,825.51                  | 8,853.72                  | 8,844.81                  | 35.89             | 31.09          | -89.63                      | -192.52                | -2,049.79     | 1,144.82                   | 1,081.89                    | 62.93                         | 18.191               |         |
| 8,950.00                                                                             | 8,875.51                  | 8,903.72                  | 8,894.81                  | 36.04             | 31.27          | -89.63                      | -192.52                | -2,049.79     | 1,144.82                   | 1,081.54                    | 63.28                         | 18.092               |         |
| 9,000.00                                                                             | 8,925.51                  | 8,953.72                  | 8,944.81                  | 36.19             | 31.44          | -89.63                      | -192.52                | -2,049.79     | 1,144.82                   | 1,081.20                    | 63.62                         | 17.995               |         |
| 9,050.00                                                                             | 8,975.51                  | 9,003.72                  | 8,994.81                  | 36.34             | 31.62          | -89.63                      | -192.52                | -2,049.79     | 1,144.82                   | 1,080.85                    | 63.96                         | 17.898               |         |
| 9,100.00                                                                             | 9,025.50                  | 9,053.71                  | 9,044.80                  | 36.49             | 31.80          | -89.28                      | -192.52                | -2,049.79     | 1,144.81                   | 1,080.51                    | 64.31                         | 17.803               |         |
| 9,150.00                                                                             | 9,075.31                  | 9,103.52                  | 9,094.61                  | 36.64             | 31.97          | -89.50                      | -192.52                | -2,049.79     | 1,144.77                   | 1,080.13                    | 64.63                         | 17.712               |         |
| 9,200.00                                                                             | 9,124.55                  | 9,152.77                  | 9,143.85                  | 36.78             | 32.15          | -89.92                      | -192.52                | -2,049.79     | 1,144.72                   | 1,079.78                    | 64.94                         | 17.627               |         |
| 9,207.34                                                                             | 9,131.72                  | 9,159.93                  | 9,151.02                  | 36.79             | 32.17          | -90.00                      | -192.52                | -2,049.79     | 1,144.72                   | 1,079.74                    | 64.98                         | 17.615               |         |
| 9,250.00                                                                             | 9,172.87                  | 9,201.08                  | 9,192.17                  | 36.90             | 32.32          | -90.53                      | -192.52                | -2,049.79     | 1,144.78                   | 1,079.55                    | 65.23                         | 17.550 ES            |         |
| 9,300.00                                                                             | 9,219.88                  | 9,248.10                  | 9,239.18                  | 37.02             | 32.48          | -91.30                      | -192.52                | -2,049.79     | 1,145.07                   | 1,079.56                    | 65.51                         | 17.481               |         |
| 9,350.00                                                                             | 9,265.24                  | 9,306.54                  | 9,294.54                  | 37.12             | 32.69          | -92.18                      | -192.52                | -2,049.79     | 1,145.78                   | 1,079.96                    | 65.81                         | 17.409               |         |
| 9,400.00                                                                             | 9,308.60                  | 9,336.81                  | 9,327.90                  | 37.21             | 32.79          | -93.13                      | -192.52                | -2,049.79     | 1,147.11                   | 1,081.09                    | 66.02                         | 17.374               |         |
| 9,450.00                                                                             | 9,349.62                  | 9,377.83                  | 9,368.92                  | 37.29             | 32.94          | -94.08                      | -192.52                | -2,049.79     | 1,149.31                   | 1,083.03                    | 66.28                         | 17.340               |         |
| 9,500.00                                                                             | 9,387.99                  | 9,416.21                  | 9,407.29                  | 37.36             | 33.08          | -94.97                      | -192.52                | -2,049.79     | 1,152.61                   | 1,086.07                    | 66.54                         | 17.322               |         |
| 9,550.00                                                                             | 9,423.43                  | 9,451.65                  | 9,442.73                  | 37.42             | 33.20          | -95.74                      | -192.52                | -2,049.79     | 1,157.26                   | 1,090.44                    | 66.82                         | 17.320 SF            |         |
| 9,600.00                                                                             | 9,455.66                  | 9,483.88                  | 9,474.96                  | 37.48             | 33.31          | -96.34                      | -192.52                | -2,049.79     | 1,163.48                   | 1,096.37                    | 67.11                         | 17.337               |         |
| 9,650.00                                                                             | 9,484.44                  | 9,512.66                  | 9,503.74                  | 37.53             | 33.42          | -96.69                      | -192.52                | -2,049.79     | 1,171.48                   | 1,104.05                    | 67.42                         | 17.375               |         |
| 9,700.00                                                                             | 9,509.55                  | 9,537.76                  | 9,528.85                  | 37.58             | 33.50          | -96.76                      | -192.52                | -2,049.79     | 1,181.42                   | 1,113.65                    | 67.77                         | 17.434               |         |
| 9,750.00                                                                             | 9,530.80                  | 9,559.01                  | 9,550.10                  | 37.63             | 33.58          | -96.48                      | -192.52                | -2,049.79     | 1,193.41                   | 1,125.28                    | 68.13                         | 17.516               |         |
| 9,800.00                                                                             | 9,548.02                  | 9,576.23                  | 9,567.32                  | 37.69             | 33.64          | -95.81                      | -192.52                | -2,049.79     | 1,207.52                   | 1,139.00                    | 68.52                         | 17.622               |         |
| 9,850.00                                                                             | 9,561.08                  | 9,589.30                  | 9,580.38                  | 37.77             | 33.69          | -94.73                      | -192.52                | -2,049.79     | 1,223.73                   | 1,154.80                    | 68.93                         | 17.753               |         |
| 9,900.00                                                                             | 9,569.90                  | 9,601.89                  | 9,592.20                  | 37.86             | 33.73          | -93.21                      | -192.52                | -2,049.79     | 1,241.98                   | 1,172.61                    | 69.37                         | 17.905               |         |
| 9,950.00                                                                             | 9,574.38                  | 9,602.60                  | 9,593.68                  | 37.97             | 33.73          | -91.23                      | -192.52                | -2,049.79     | 1,262.12                   | 1,192.34                    | 69.78                         | 18.087               |         |
| 10,000.00                                                                            | 9,575.00                  | 9,603.21                  | 9,594.30                  | 38.11             | 33.74          | -90.00                      | -192.52                | -2,049.79     | 1,283.98                   | 1,213.77                    | 70.21                         | 18.289               |         |
| 10,050.00                                                                            | 9,575.00                  | 9,603.21                  | 9,594.30                  | 38.28             | 33.74          | -90.00                      | -192.52                | -2,049.79     | 1,307.38                   | 1,236.74                    | 70.65                         | 18.506               |         |
| 10,100.00                                                                            | 9,575.00                  | 9,603.21                  | 9,594.30                  | 38.47             | 33.74          | -90.00                      | -192.52                | -2,049.79     | 1,332.26                   | 1,261.17                    | 71.09                         | 18.741               |         |
| 10,150.00                                                                            | 9,575.00                  | 9,603.21                  | 9,594.30                  | 38.69             | 33.74          | -90.00                      | -192.52                | -2,049.79     | 1,358.52                   | 1,286.97                    | 71.54                         | 18.989               |         |
| 10,200.00                                                                            | 9,575.00                  | 9,603.21                  | 9,594.30                  | 38.94             | 33.74          | -90.00                      | -192.52                | -2,049.79     | 1,386.08                   | 1,314.10                    | 71.98                         | 19.255               |         |
| 10,250.00                                                                            | 9,575.00                  | 9,603.21                  | 9,594.30                  | 39.21             | 33.74          | -90.00                      | -192.52                | -2,049.79     | 1,414.88                   | 1,342.45                    | 72.43                         | 19.534               |         |
| 10,300.00                                                                            | 9,575.00                  | 9,603.21                  | 9,594.30                  | 39.51             | 33.74          | -90.00                      | -192.52                | -2,049.79     | 1,444.83                   | 1,371.97                    | 72.86                         | 19.830               |         |
| 10,350.00                                                                            | 9,575.00                  | 9,603.21                  | 9,594.30                  | 39.84             | 33.74          | -90.00                      | -192.52                | -2,049.79     | 1,475.87                   | 1,402.58                    | 73.29                         | 20.138               |         |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed Corn 2H - Wellbore #1 - Permit Plan 2 |                        |                        |                        |                   |                |                          |                        |               |                         |                          |                            |                   |         | Offset Site Error: | 0.00 ft |
|--------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|------------------------|---------------|-------------------------|--------------------------|----------------------------|-------------------|---------|--------------------|---------|
| Survey Program: O-MWD+IGRF                                                           |                        |                        |                        |                   |                |                          |                        |               |                         |                          |                            |                   |         | Offset Well Error: | 0.50 ft |
| Reference                                                                            |                        | Offset                 |                        | Semi Major Axis   |                | Highside-Toolface<br>(°) | Offset Wellbore Centre |               | Distance                |                          |                            |                   | Warning |                    |         |
| Measured Depth<br>(ft)                                                               | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                          | +N/-S<br>(ft)          | +E/-W<br>(ft) | Between Centres<br>(ft) | Between Ellipses<br>(ft) | Minimum Separation<br>(ft) | Separation Factor |         |                    |         |
| 6,700.00                                                                             | 6,648.16               | 6,882.51               | 6,879.27               | 26.42             | 24.34          | 9.41                     | -225.87                | -2,101.32     | 1,492.43                | 1,444.99                 | 47.44                      | 31.456            |         |                    |         |
| 6,750.00                                                                             | 6,697.45               | 6,930.22               | 6,926.49               | 26.66             | 24.51          | 9.39                     | -227.27                | -2,094.69     | 1,477.46                | 1,429.68                 | 47.79                      | 30.918            |         |                    |         |
| 6,800.00                                                                             | 6,746.74               | 6,977.92               | 6,973.71               | 26.89             | 24.68          | 9.37                     | -228.67                | -2,088.06     | 1,462.50                | 1,414.37                 | 48.13                      | 30.386            |         |                    |         |
| 6,850.00                                                                             | 6,796.03               | 7,025.63               | 7,020.93               | 27.12             | 24.85          | 9.35                     | -230.06                | -2,081.42     | 1,447.53                | 1,399.06                 | 48.47                      | 29.863            |         |                    |         |
| 6,900.00                                                                             | 6,845.32               | 7,073.33               | 7,068.15               | 27.35             | 25.02          | 9.33                     | -231.46                | -2,074.79     | 1,432.56                | 1,383.74                 | 48.82                      | 29.346            |         |                    |         |
| 6,950.00                                                                             | 6,894.61               | 7,121.03               | 7,115.37               | 27.58             | 25.19          | 9.31                     | -232.86                | -2,068.16     | 1,417.59                | 1,368.43                 | 49.16                      | 28.836            |         |                    |         |
| 7,000.00                                                                             | 6,943.90               | 7,168.74               | 7,162.59               | 27.82             | 25.36          | 9.29                     | -234.26                | -2,061.52     | 1,402.63                | 1,353.12                 | 49.50                      | 28.333            |         |                    |         |
| 7,050.00                                                                             | 6,993.19               | 7,216.44               | 7,209.81               | 28.05             | 25.54          | 9.27                     | -235.66                | -2,054.89     | 1,387.66                | 1,337.81                 | 49.85                      | 27.837            |         |                    |         |
| 7,100.00                                                                             | 7,042.48               | 7,264.15               | 7,257.03               | 28.28             | 25.71          | 9.25                     | -237.06                | -2,048.26     | 1,372.69                | 1,322.50                 | 50.19                      | 27.348            |         |                    |         |
| 7,150.00                                                                             | 7,091.78               | 7,311.85               | 7,304.25               | 28.51             | 25.88          | 9.23                     | -238.46                | -2,041.62     | 1,357.73                | 1,307.19                 | 50.54                      | 26.865            |         |                    |         |
| 7,200.00                                                                             | 7,141.07               | 7,359.56               | 7,351.47               | 28.75             | 26.06          | 9.20                     | -239.85                | -2,034.99     | 1,342.76                | 1,291.88                 | 50.88                      | 26.369            |         |                    |         |
| 7,250.00                                                                             | 7,190.36               | 7,407.26               | 7,398.69               | 28.98             | 26.23          | 9.18                     | -241.25                | -2,028.36     | 1,327.79                | 1,276.56                 | 51.23                      | 25.919            |         |                    |         |
| 7,300.00                                                                             | 7,239.65               | 7,454.97               | 7,445.91               | 29.21             | 26.41          | 9.16                     | -242.65                | -2,021.72     | 1,312.83                | 1,261.25                 | 51.58                      | 25.455            |         |                    |         |
| 7,350.00                                                                             | 7,288.94               | 7,502.67               | 7,493.14               | 29.44             | 26.58          | 9.13                     | -244.05                | -2,015.09     | 1,297.86                | 1,245.94                 | 51.92                      | 24.997            |         |                    |         |
| 7,400.00                                                                             | 7,338.23               | 7,550.38               | 7,540.36               | 29.68             | 26.76          | 9.11                     | -245.45                | -2,008.46     | 1,282.90                | 1,230.63                 | 52.27                      | 24.545            |         |                    |         |
| 7,450.00                                                                             | 7,387.52               | 7,601.92               | 7,587.58               | 29.91             | 26.95          | 9.08                     | -246.85                | -2,001.82     | 1,267.93                | 1,215.30                 | 52.63                      | 24.092            |         |                    |         |
| 7,500.00                                                                             | 7,436.81               | 7,645.79               | 7,634.80               | 30.14             | 27.11          | 9.05                     | -248.24                | -1,995.19     | 1,252.97                | 1,200.00                 | 52.96                      | 23.658            |         |                    |         |
| 7,550.00                                                                             | 7,486.10               | 7,706.51               | 7,682.02               | 30.38             | 27.34          | 9.03                     | -249.64                | -1,988.56     | 1,238.00                | 1,184.65                 | 53.35                      | 23.204            |         |                    |         |
| 7,600.00                                                                             | 7,535.40               | 7,741.20               | 7,729.24               | 30.61             | 27.47          | 9.00                     | -251.04                | -1,981.92     | 1,223.04                | 1,169.38                 | 53.66                      | 22.794            |         |                    |         |
| 7,650.00                                                                             | 7,584.69               | 7,788.90               | 7,776.46               | 30.85             | 27.65          | 8.97                     | -252.44                | -1,975.29     | 1,208.07                | 1,154.07                 | 54.00                      | 22.370            |         |                    |         |
| 7,700.00                                                                             | 7,633.98               | 7,836.61               | 7,823.68               | 31.08             | 27.83          | 8.94                     | -253.84                | -1,968.66     | 1,193.11                | 1,138.76                 | 54.35                      | 21.952            |         |                    |         |
| 7,750.00                                                                             | 7,683.27               | 7,884.31               | 7,870.90               | 31.31             | 28.01          | 8.91                     | -255.24                | -1,962.02     | 1,178.14                | 1,123.44                 | 54.70                      | 21.538            |         |                    |         |
| 7,800.00                                                                             | 7,732.56               | 7,932.01               | 7,918.12               | 31.55             | 28.19          | 8.88                     | -256.64                | -1,955.39     | 1,163.18                | 1,108.13                 | 55.05                      | 21.130            |         |                    |         |
| 7,850.00                                                                             | 7,781.85               | 7,979.72               | 7,965.34               | 31.78             | 28.37          | 8.85                     | -258.03                | -1,948.75     | 1,148.22                | 1,092.82                 | 55.40                      | 20.727            |         |                    |         |
| 7,900.00                                                                             | 7,831.14               | 8,027.42               | 8,012.56               | 32.02             | 28.55          | 8.82                     | -259.43                | -1,942.12     | 1,133.25                | 1,077.51                 | 55.75                      | 20.329            |         |                    |         |
| 7,950.00                                                                             | 7,880.43               | 8,075.13               | 8,059.78               | 32.25             | 28.73          | 8.79                     | -260.83                | -1,935.49     | 1,118.29                | 1,062.20                 | 56.09                      | 19.936            |         |                    |         |
| 8,000.00                                                                             | 7,929.72               | 8,122.83               | 8,107.00               | 32.48             | 28.92          | 8.75                     | -262.23                | -1,928.85     | 1,103.33                | 1,046.88                 | 56.44                      | 19.547            |         |                    |         |
| 8,050.00                                                                             | 7,979.01               | 8,170.54               | 8,154.22               | 32.72             | 29.10          | 8.72                     | -263.63                | -1,922.22     | 1,088.37                | 1,031.57                 | 56.79                      | 19.163            |         |                    |         |
| 8,100.00                                                                             | 8,028.31               | 8,218.25               | 8,201.46               | 32.95             | 29.28          | 8.67                     | -265.03                | -1,915.59     | 1,073.44                | 1,016.30                 | 57.14                      | 18.785            |         |                    |         |
| 8,150.00                                                                             | 8,077.69               | 8,266.12               | 8,248.83               | 33.18             | 29.47          | 8.59                     | -266.43                | -1,908.93     | 1,059.01                | 1,001.52                 | 57.49                      | 18.420            |         |                    |         |
| 8,200.00                                                                             | 8,127.17               | 8,314.17               | 8,296.39               | 33.40             | 29.65          | 8.51                     | -267.84                | -1,902.25     | 1,045.19                | 987.35                   | 57.84                      | 18.070            |         |                    |         |
| 8,250.00                                                                             | 8,176.74               | 8,362.38               | 8,344.12               | 33.62             | 29.84          | 8.43                     | -269.25                | -1,895.54     | 1,032.00                | 973.81                   | 58.19                      | 17.734            |         |                    |         |
| 8,300.00                                                                             | 8,226.39               | 8,410.77               | 8,392.01               | 33.83             | 30.02          | 8.34                     | -270.67                | -1,888.82     | 1,019.44                | 960.90                   | 58.54                      | 17.414            |         |                    |         |
| 8,350.00                                                                             | 8,276.12               | 8,459.31               | 8,440.06               | 34.03             | 30.21          | 8.24                     | -272.09                | -1,882.07     | 1,007.51                | 948.62                   | 58.89                      | 17.108            |         |                    |         |
| 8,400.00                                                                             | 8,325.90               | 8,508.00               | 8,488.26               | 34.23             | 30.40          | 8.14                     | -273.52                | -1,875.30     | 996.21                  | 936.96                   | 59.24                      | 16.816            |         |                    |         |
| 8,450.00                                                                             | 8,375.75               | 8,556.82               | 8,536.59               | 34.42             | 30.59          | 8.03                     | -274.95                | -1,868.51     | 985.54                  | 925.95                   | 59.59                      | 16.538            |         |                    |         |
| 8,500.00                                                                             | 8,425.64               | 8,605.78               | 8,585.05               | 34.61             | 30.78          | 7.92                     | -276.39                | -1,861.70     | 975.50                  | 915.56                   | 59.94                      | 16.274            |         |                    |         |
| 8,550.00                                                                             | 8,475.57               | 8,654.86               | 8,633.63               | 34.78             | 30.98          | 7.80                     | -277.83                | -1,854.87     | 966.11                  | 905.82                   | 60.29                      | 16.025            |         |                    |         |
| 8,600.00                                                                             | 8,525.53               | 8,704.06               | 8,682.33               | 34.96             | 31.17          | 7.68                     | -279.27                | -1,848.03     | 957.36                  | 896.72                   | 60.64                      | 15.788            |         |                    |         |
| 8,650.00                                                                             | 8,575.51               | 8,753.36               | 8,731.13               | 35.12             | 31.36          | 7.55                     | -280.71                | -1,841.18     | 949.25                  | 888.26                   | 60.99                      | 15.565            |         |                    |         |
| 8,700.00                                                                             | 8,625.51               | 8,802.76               | 8,780.03               | 35.28             | 31.56          | 7.42                     | -282.16                | -1,834.31     | 941.78                  | 880.45                   | 61.33                      | 15.355            |         |                    |         |
| 8,750.00                                                                             | 8,675.51               | 8,852.25               | 8,829.01               | 35.44             | 31.75          | -95.18                   | -283.61                | -1,827.43     | 934.89                  | 873.21                   | 61.68                      | 15.158            |         |                    |         |
| 8,800.00                                                                             | 8,725.51               | 8,901.74               | 8,878.00               | 35.59             | 31.95          | -95.31                   | -285.06                | -1,820.55     | 928.10                  | 866.08                   | 62.02                      | 14.965            |         |                    |         |
| 8,850.00                                                                             | 8,775.51               | 8,951.23               | 8,926.99               | 35.74             | 32.14          | -95.44                   | -286.51                | -1,813.66     | 921.30                  | 858.94                   | 62.36                      | 14.773            |         |                    |         |
| 8,900.00                                                                             | 8,825.51               | 9,000.72               | 8,975.98               | 35.89             | 32.34          | -95.57                   | -287.97                | -1,806.78     | 914.52                  | 851.81                   | 62.71                      | 14.584            |         |                    |         |
| 8,950.00                                                                             | 8,875.51               | 9,050.22               | 9,024.97               | 36.04             | 32.53          | -95.71                   | -289.42                | -1,799.90     | 907.74                  | 844.69                   | 63.05                      | 14.397            |         |                    |         |
| 9,000.00                                                                             | 8,925.51               | 9,100.29               | 9,073.96               | 36.19             | 32.73          | -95.84                   | -290.87                | -1,793.02     | 900.96                  | 837.57                   | 63.40                      | 14.212            |         |                    |         |
| 9,050.00                                                                             | 8,975.51               | 9,149.20               | 9,122.95               | 36.34             | 32.93          | -95.98                   | -292.32                | -1,786.14     | 894.19                  | 830.45                   | 63.74                      | 14.029            |         |                    |         |
| 9,100.00                                                                             | 9,025.50               | 9,198.67               | 9,171.92               | 36.49             | 33.13          | -96.10                   | -293.77                | -1,779.26     | 887.47                  | 823.39                   | 64.08                      | 13.849            |         |                    |         |
| 9,150.00                                                                             | 9,075.31               | 9,247.84               | 9,220.60               | 36.64             | 33.32          | -97.14                   | -295.21                | -1,772.42     | 881.18                  | 816.76                   | 64.42                      | 13.679            |         |                    |         |
| 9,200.00                                                                             | 9,124.55               | 9,303.67               | 9,268.59               | 36.78             | 33.54          | -98.39                   | -296.63                | -1,765.68     | 875.52                  | 810.74                   | 64.78                      | 13.516            |         |                    |         |
| 9,250.00                                                                             | 9,172.87               | 9,343.77               | 9,315.55               | 36.90             | 33.71          | -99.81                   | -298.02                | -1,759.08     | 870.68                  | 805.60                   | 65.08                      | 13.380            |         |                    |         |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed Com 2H - Wellbore #1 - Permit Plan 2 |                     |                     |                     |                 |             |                       |                        |            |                      |                       |                         | Offset Site Error: | 0.00 ft |
|-------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                          |                     |                     |                     |                 |             |                       |                        |            |                      |                       |                         | Offset Well Error: | 0.50 ft |
| Reference                                                                           |                     | Offset              |                     | Semi Major Axis |             | Highside Toolface (°) | Offset Wellbore Centre |            | Distance             |                       | Minimum Separation (ft) | Separation Factor  | Warning |
| Measured Depth (ft)                                                                 | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) |                       | +N/-S (ft)             | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) |                         |                    |         |
| 9,300.00                                                                            | 9,219.88            | 9,389.80            | 9,361.11            | 37.02           | 33.89       | -101.35               | -299.37                | -1,752.68  | 866.92               | 801.52                | 65.40                   | 13.255             |         |
| 9,350.00                                                                            | 9,265.24            | 9,434.06            | 9,404.92            | 37.12           | 34.07       | -102.94               | -300.67                | -1,746.53  | 864.54               | 798.80                | 65.74                   | 13.152             |         |
| 9,393.01                                                                            | 9,302.67            | 9,470.46            | 9,440.96            | 37.20           | 34.21       | -104.29               | -301.74                | -1,741.46  | 863.84               | 797.80                | 66.03                   | 13.082 CC          |         |
| 9,400.00                                                                            | 9,308.60            | 9,476.22            | 9,446.66            | 37.21           | 34.24       | -104.51               | -301.91                | -1,740.66  | 863.86               | 797.77                | 66.08                   | 13.072 ES          |         |
| 9,450.00                                                                            | 9,349.62            | 9,515.96            | 9,486.00            | 37.29           | 34.40       | -105.97               | -303.07                | -1,735.14  | 865.22               | 798.76                | 66.46                   | 13.019             |         |
| 9,500.00                                                                            | 9,387.99            | 9,552.98            | 9,522.64            | 37.36           | 34.55       | -107.25               | -304.16                | -1,729.99  | 868.95               | 802.09                | 66.86                   | 12.997 SF          |         |
| 9,550.00                                                                            | 9,423.43            | 9,587.00            | 9,556.31            | 37.42           | 34.68       | -108.28               | -305.15                | -1,725.26  | 875.35               | 808.06                | 67.29                   | 13.008             |         |
| 9,600.00                                                                            | 9,455.66            | 9,617.75            | 9,586.75            | 37.48           | 34.81       | -108.97               | -306.05                | -1,720.98  | 884.69               | 816.93                | 67.76                   | 13.055             |         |
| 9,650.00                                                                            | 9,484.44            | 9,645.00            | 9,613.72            | 37.53           | 34.92       | -109.24               | -306.85                | -1,717.19  | 897.15               | 828.88                | 68.27                   | 13.141             |         |
| 9,700.00                                                                            | 9,509.55            | 9,668.55            | 9,637.03            | 37.58           | 35.01       | -109.05               | -307.54                | -1,713.92  | 912.82               | 844.02                | 68.80                   | 13.268             |         |
| 9,750.00                                                                            | 9,530.80            | 9,688.21            | 9,656.49            | 37.63           | 35.09       | -108.31               | -308.12                | -1,711.19  | 931.72               | 862.37                | 69.35                   | 13.436             |         |
| 9,800.00                                                                            | 9,548.02            | 9,703.84            | 9,671.96            | 37.69           | 35.16       | -106.96               | -308.58                | -1,709.01  | 953.76               | 883.86                | 69.90                   | 13.645             |         |
| 9,850.00                                                                            | 9,561.08            | 9,715.32            | 9,683.32            | 37.77           | 35.20       | -104.94               | -308.91                | -1,707.42  | 978.76               | 908.31                | 70.44                   | 13.894             |         |
| 9,900.00                                                                            | 9,569.90            | 9,722.55            | 9,690.48            | 37.86           | 35.23       | -102.19               | -309.13                | -1,706.41  | 1,006.46             | 935.49                | 70.97                   | 14.182             |         |
| 9,950.00                                                                            | 9,574.38            | 9,725.49            | 9,693.39            | 37.97           | 35.24       | -98.70                | -309.21                | -1,706.00  | 1,036.53             | 965.07                | 71.46                   | 14.504             |         |
| 10,000.00                                                                           | 9,575.00            | 9,724.59            | 9,692.50            | 38.11           | 35.24       | -96.48                | -309.19                | -1,706.13  | 1,068.56             | 996.63                | 71.93                   | 14.856             |         |
| 10,050.00                                                                           | 9,575.00            | 9,723.08            | 9,691.01            | 38.28           | 35.23       | -96.38                | -309.14                | -1,706.34  | 1,101.98             | 1,029.61              | 72.37                   | 15.227             |         |
| 10,100.00                                                                           | 9,575.00            | 9,721.57            | 9,689.51            | 38.47           | 35.23       | -96.27                | -309.10                | -1,706.55  | 1,136.62             | 1,063.82              | 72.79                   | 15.614             |         |
| 10,150.00                                                                           | 9,575.00            | 9,720.06            | 9,688.02            | 38.69           | 35.22       | -96.16                | -309.05                | -1,706.76  | 1,172.36             | 1,099.16              | 73.20                   | 16.016             |         |
| 10,200.00                                                                           | 9,575.00            | 9,718.55            | 9,686.52            | 38.94           | 35.22       | -96.05                | -309.01                | -1,706.97  | 1,209.12             | 1,135.54              | 73.58                   | 16.433             |         |
| 10,250.00                                                                           | 9,575.00            | 9,717.04            | 9,685.03            | 39.21           | 35.21       | -95.95                | -308.96                | -1,707.18  | 1,246.79             | 1,172.85              | 73.94                   | 16.862             |         |
| 10,300.00                                                                           | 9,575.00            | 9,715.52            | 9,683.53            | 39.51           | 35.20       | -95.84                | -308.92                | -1,707.39  | 1,285.30             | 1,211.02              | 74.28                   | 17.303             |         |
| 10,350.00                                                                           | 9,575.00            | 9,714.01            | 9,682.03            | 39.84           | 35.20       | -95.73                | -308.88                | -1,707.60  | 1,324.58             | 1,249.98              | 74.60                   | 17.755             |         |
| 10,400.00                                                                           | 9,575.00            | 9,712.50            | 9,680.54            | 40.18           | 35.19       | -95.63                | -308.83                | -1,707.81  | 1,364.56             | 1,289.66              | 74.90                   | 18.218             |         |
| 10,450.00                                                                           | 9,575.00            | 9,710.99            | 9,679.04            | 40.55           | 35.18       | -95.52                | -308.79                | -1,708.02  | 1,405.18             | 1,329.99              | 75.19                   | 18.689             |         |
| 10,500.00                                                                           | 9,575.00            | 9,709.48            | 9,677.55            | 40.94           | 35.18       | -95.41                | -308.74                | -1,708.23  | 1,446.39             | 1,370.94              | 75.45                   | 19.170             |         |
| 10,550.00                                                                           | 9,575.00            | 9,707.97            | 9,676.05            | 41.36           | 35.17       | -95.30                | -308.70                | -1,708.44  | 1,488.13             | 1,412.43              | 75.70                   | 19.659             |         |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed Com 30H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                  |                    |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|----------------------------------|--------------------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                           |                     |                     |                     |                 |             |                       |                                  |                    |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                            |                     | Offset              |                     | Semi Major Axis |             | Distance              |                                  | Minimum Separation |                      | Separation Factor     |                         | Warning           |                            |
| Measured Depth (ft)                                                                  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N-S (ft) | +E-W (ft)          | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 4,600.00                                                                             | 4,577.93            | 4,713.29            | 4,703.36            | 16.92           | 16.66       | 9.31                  | -150.28                          | -1,769.11          | 1,494.01             | 1,461.53              | 32.48                   | 46.004            |                            |
| 4,650.00                                                                             | 4,627.22            | 4,761.78            | 4,751.53            | 17.14           | 16.85       | 9.19                  | -154.52                          | -1,765.41          | 1,482.23             | 1,449.39              | 32.83                   | 45.142            |                            |
| 4,700.00                                                                             | 4,676.52            | 4,810.27            | 4,799.69            | 17.36           | 17.03       | 9.06                  | -158.76                          | -1,761.70          | 1,470.46             | 1,437.26              | 33.19                   | 44.299            |                            |
| 4,750.00                                                                             | 4,725.81            | 4,857.02            | 4,846.12            | 17.58           | 17.21       | 8.94                  | -162.84                          | -1,758.14          | 1,458.70             | 1,425.15              | 33.55                   | 43.478            |                            |
| 4,800.00                                                                             | 4,775.10            | 4,899.07            | 4,887.91            | 17.80           | 17.37       | 8.83                  | -166.34                          | -1,755.08          | 1,447.11             | 1,413.21              | 33.90                   | 42.691            |                            |
| 4,850.00                                                                             | 4,824.39            | 4,941.24            | 4,929.86            | 18.02           | 17.53       | 8.74                  | -169.61                          | -1,752.22          | 1,435.74             | 1,401.50              | 34.24                   | 41.927            |                            |
| 4,900.00                                                                             | 4,873.68            | 4,983.52            | 4,971.94            | 18.24           | 17.70       | 8.65                  | -172.67                          | -1,749.55          | 1,424.59             | 1,390.00              | 34.59                   | 41.186            |                            |
| 4,950.00                                                                             | 4,922.97            | 5,025.91            | 5,014.17            | 18.47           | 17.86       | 8.57                  | -175.49                          | -1,747.09          | 1,413.67             | 1,378.73              | 34.94                   | 40.466            |                            |
| 5,000.00                                                                             | 4,972.26            | 5,068.41            | 5,056.53            | 18.69           | 18.01       | 8.50                  | -178.09                          | -1,744.82          | 1,402.97             | 1,367.69              | 35.28                   | 39.767            |                            |
| 5,050.00                                                                             | 5,021.55            | 5,111.01            | 5,099.01            | 18.91           | 18.17       | 8.44                  | -180.45                          | -1,742.75          | 1,392.48             | 1,356.86              | 35.62                   | 39.088            |                            |
| 5,100.00                                                                             | 5,070.84            | 5,153.71            | 5,141.62            | 19.13           | 18.33       | 8.39                  | -182.58                          | -1,740.89          | 1,382.22             | 1,346.25              | 35.97                   | 38.429            |                            |
| 5,150.00                                                                             | 5,120.13            | 5,196.50            | 5,184.33            | 19.36           | 18.49       | 8.34                  | -184.48                          | -1,739.24          | 1,372.18             | 1,335.87              | 36.31                   | 37.789            |                            |
| 5,200.00                                                                             | 5,169.43            | 5,239.38            | 5,227.15            | 19.58           | 18.64       | 8.31                  | -186.13                          | -1,737.79          | 1,362.36             | 1,325.71              | 36.65                   | 37.169            |                            |
| 5,250.00                                                                             | 5,218.72            | 5,282.34            | 5,270.07            | 19.80           | 18.80       | 8.29                  | -187.55                          | -1,736.55          | 1,352.76             | 1,315.76              | 36.99                   | 36.567            |                            |
| 5,300.00                                                                             | 5,268.01            | 5,325.38            | 5,313.08            | 20.03           | 18.95       | 8.28                  | -188.73                          | -1,735.52          | 1,343.38             | 1,306.05              | 37.33                   | 35.982            |                            |
| 5,350.00                                                                             | 5,317.30            | 5,368.49            | 5,356.18            | 20.25           | 19.10       | 8.29                  | -189.67                          | -1,734.70          | 1,334.22             | 1,296.55              | 37.67                   | 35.415            |                            |
| 5,400.00                                                                             | 5,366.59            | 5,411.68            | 5,399.35            | 20.48           | 19.25       | 8.30                  | -190.36                          | -1,734.09          | 1,325.29             | 1,287.28              | 38.01                   | 34.864            |                            |
| 5,450.00                                                                             | 5,415.88            | 5,454.92            | 5,442.60            | 20.70           | 19.40       | 8.33                  | -190.81                          | -1,733.70          | 1,316.58             | 1,278.23              | 38.35                   | 34.331            |                            |
| 5,500.00                                                                             | 5,465.17            | 5,498.23            | 5,485.90            | 20.93           | 19.55       | 8.36                  | -191.02                          | -1,733.52          | 1,308.09             | 1,269.40              | 38.69                   | 33.812            |                            |
| 5,550.00                                                                             | 5,514.46            | 5,545.59            | 5,533.26            | 21.16           | 19.71       | 8.41                  | -191.03                          | -1,733.51          | 1,299.77             | 1,260.74              | 39.03                   | 33.299            |                            |
| 5,600.00                                                                             | 5,563.75            | 5,605.12            | 5,592.55            | 21.38           | 19.92       | 8.47                  | -191.03                          | -1,733.51          | 1,291.47             | 1,252.05              | 39.42                   | 32.761            |                            |
| 5,650.00                                                                             | 5,613.04            | 5,644.17            | 5,631.84            | 21.61           | 20.05       | 8.52                  | -191.03                          | -1,733.51          | 1,283.17             | 1,243.43              | 39.74                   | 32.290            |                            |
| 5,700.00                                                                             | 5,662.34            | 5,706.54            | 5,694.14            | 21.84           | 20.26       | 8.58                  | -191.03                          | -1,733.51          | 1,274.87             | 1,234.74              | 40.14                   | 31.764            |                            |
| 5,750.00                                                                             | 5,711.63            | 5,742.75            | 5,730.43            | 22.06           | 20.39       | 8.64                  | -191.03                          | -1,733.51          | 1,266.57             | 1,226.13              | 40.44                   | 31.317            |                            |
| 5,800.00                                                                             | 5,760.92            | 5,807.95            | 5,779.72            | 22.29           | 20.61       | 8.69                  | -191.03                          | -1,733.51          | 1,258.28             | 1,217.42              | 40.85                   | 30.801            |                            |
| 5,850.00                                                                             | 5,810.21            | 5,841.34            | 5,829.01            | 22.52           | 20.72       | 8.75                  | -191.03                          | -1,733.51          | 1,249.98             | 1,208.83              | 41.15                   | 30.376            |                            |
| 5,900.00                                                                             | 5,859.50            | 5,909.37            | 5,878.30            | 22.75           | 20.96       | 8.81                  | -191.03                          | -1,733.51          | 1,241.69             | 1,200.12              | 41.57                   | 29.870            |                            |
| 5,950.00                                                                             | 5,908.79            | 5,939.92            | 5,927.59            | 22.97           | 21.06       | 8.87                  | -191.03                          | -1,733.51          | 1,233.39             | 1,191.53              | 41.86                   | 29.466            |                            |
| 6,000.00                                                                             | 5,958.08            | 5,989.21            | 5,976.88            | 23.20           | 21.23       | 8.93                  | -191.03                          | -1,733.51          | 1,225.10             | 1,182.89              | 42.21                   | 29.022            |                            |
| 6,050.00                                                                             | 6,007.37            | 6,038.50            | 6,026.17            | 23.43           | 21.40       | 8.99                  | -191.03                          | -1,733.51          | 1,216.81             | 1,174.24              | 42.57                   | 28.585            |                            |
| 6,100.00                                                                             | 6,056.66            | 6,087.79            | 6,075.46            | 23.66           | 21.57       | 9.05                  | -191.03                          | -1,733.51          | 1,208.52             | 1,165.60              | 42.92                   | 28.156            |                            |
| 6,150.00                                                                             | 6,105.96            | 6,137.08            | 6,124.76            | 23.89           | 21.74       | 9.12                  | -191.03                          | -1,733.51          | 1,200.23             | 1,156.96              | 43.28                   | 27.734            |                            |
| 6,200.00                                                                             | 6,155.25            | 6,186.37            | 6,174.05            | 24.12           | 21.91       | 9.18                  | -191.03                          | -1,733.51          | 1,191.95             | 1,148.31              | 43.63                   | 27.318            |                            |
| 6,250.00                                                                             | 6,204.54            | 6,235.67            | 6,223.34            | 24.35           | 22.08       | 9.25                  | -191.03                          | -1,733.51          | 1,183.66             | 1,139.67              | 43.99                   | 26.909            |                            |
| 6,300.00                                                                             | 6,253.83            | 6,284.96            | 6,272.63            | 24.58           | 22.25       | 9.31                  | -191.03                          | -1,733.51          | 1,175.38             | 1,131.04              | 44.34                   | 26.506            |                            |
| 6,350.00                                                                             | 6,303.12            | 6,334.25            | 6,321.92            | 24.81           | 22.42       | 9.38                  | -191.03                          | -1,733.51          | 1,167.10             | 1,122.40              | 44.70                   | 26.110            |                            |
| 6,400.00                                                                             | 6,352.41            | 6,383.54            | 6,371.21            | 25.04           | 22.59       | 9.45                  | -191.03                          | -1,733.51          | 1,158.82             | 1,113.76              | 45.06                   | 25.720            |                            |
| 6,450.00                                                                             | 6,401.70            | 6,432.83            | 6,420.50            | 25.27           | 22.76       | 9.51                  | -191.03                          | -1,733.51          | 1,150.54             | 1,105.13              | 45.41                   | 25.335            |                            |
| 6,500.00                                                                             | 6,450.99            | 6,482.12            | 6,469.79            | 25.50           | 22.93       | 9.58                  | -191.03                          | -1,733.51          | 1,142.26             | 1,096.49              | 45.77                   | 24.957            |                            |
| 6,550.00                                                                             | 6,500.28            | 6,531.41            | 6,519.08            | 25.73           | 23.10       | 9.65                  | -191.03                          | -1,733.51          | 1,133.99             | 1,087.86              | 46.13                   | 24.585            |                            |
| 6,600.00                                                                             | 6,549.57            | 6,580.70            | 6,568.37            | 25.96           | 23.27       | 9.73                  | -191.03                          | -1,733.51          | 1,125.71             | 1,079.23              | 46.48                   | 24.218            |                            |
| 6,650.00                                                                             | 6,598.87            | 6,629.99            | 6,617.67            | 26.19           | 23.44       | 9.80                  | -191.03                          | -1,733.51          | 1,117.44             | 1,070.60              | 46.84                   | 23.856            |                            |
| 6,700.00                                                                             | 6,648.16            | 6,679.28            | 6,666.96            | 26.42           | 23.61       | 9.87                  | -191.03                          | -1,733.51          | 1,109.17             | 1,061.97              | 47.20                   | 23.501            |                            |
| 6,750.00                                                                             | 6,697.45            | 6,728.58            | 6,716.25            | 26.66           | 23.78       | 9.95                  | -191.03                          | -1,733.51          | 1,100.90             | 1,053.35              | 47.56                   | 23.150            |                            |
| 6,800.00                                                                             | 6,746.74            | 6,777.87            | 6,765.54            | 26.89           | 23.95       | 10.02                 | -191.03                          | -1,733.51          | 1,092.63             | 1,044.72              | 47.91                   | 22.804            |                            |
| 6,850.00                                                                             | 6,796.03            | 6,827.16            | 6,814.83            | 27.12           | 24.12       | 10.10                 | -191.03                          | -1,733.51          | 1,084.37             | 1,036.10              | 48.27                   | 22.464            |                            |
| 6,900.00                                                                             | 6,845.32            | 6,876.45            | 6,864.12            | 27.35           | 24.29       | 10.18                 | -191.03                          | -1,733.51          | 1,076.11             | 1,027.48              | 48.63                   | 22.128            |                            |
| 6,950.00                                                                             | 6,894.61            | 6,925.74            | 6,913.41            | 27.58           | 24.47       | 10.26                 | -191.03                          | -1,733.51          | 1,067.85             | 1,018.86              | 48.99                   | 21.798            |                            |
| 7,000.00                                                                             | 6,943.90            | 6,975.03            | 6,962.70            | 27.82           | 24.64       | 10.34                 | -191.03                          | -1,733.51          | 1,059.59             | 1,010.24              | 49.35                   | 21.472            |                            |
| 7,050.00                                                                             | 6,993.19            | 7,024.32            | 7,011.99            | 28.05           | 24.81       | 10.42                 | -191.03                          | -1,733.51          | 1,051.33             | 1,001.63              | 49.71                   | 21.151            |                            |
| 7,100.00                                                                             | 7,042.48            | 7,073.61            | 7,061.28            | 28.28           | 24.98       | 10.50                 | -191.03                          | -1,733.51          | 1,043.08             | 993.01                | 50.07                   | 20.834            |                            |
| 7,150.00                                                                             | 7,091.78            | 7,122.90            | 7,110.58            | 28.51           | 25.15       | 10.59                 | -191.03                          | -1,733.51          | 1,034.83             | 984.40                | 50.43                   | 20.522            |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed Com 30H - Wellbore #1 - Permit Plan 1 |                           |                           |                           |                   |                |                             |                        |              |                            |                             |                               |                      |         | Offset Site Error: | 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|------------------------|--------------|----------------------------|-----------------------------|-------------------------------|----------------------|---------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                           |                           |                           |                           |                   |                |                             |                        |              |                            |                             |                               |                      |         | Offset Well Error: | 0.50 ft |
| Reference                                                                            |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |              | Distance                   |                             |                               |                      | Warning |                    |         |
| Measured<br>Depth<br>(ft)                                                            | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | +N-S<br>(ft)           | +E-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |         |                    |         |
| 7,200.00                                                                             | 7,141.07                  | 7,172.19                  | 7,159.87                  | 28.75             | 25.32          | 10.67                       | -191.03                | -1,733.51    | 1,026.58                   | 975.79                      | 50.79                         | 20.214               |         |                    |         |
| 7,250.00                                                                             | 7,190.36                  | 7,221.49                  | 7,209.16                  | 28.98             | 25.49          | 10.76                       | -191.03                | -1,733.51    | 1,018.33                   | 967.18                      | 51.15                         | 19.910               |         |                    |         |
| 7,300.00                                                                             | 7,239.65                  | 7,270.78                  | 7,258.45                  | 29.21             | 25.67          | 10.85                       | -191.03                | -1,733.51    | 1,010.08                   | 958.58                      | 51.51                         | 19.611               |         |                    |         |
| 7,350.00                                                                             | 7,288.94                  | 7,320.07                  | 7,307.74                  | 29.44             | 25.84          | 10.94                       | -191.03                | -1,733.51    | 1,001.84                   | 949.97                      | 51.87                         | 19.316               |         |                    |         |
| 7,400.00                                                                             | 7,338.23                  | 7,369.36                  | 7,357.03                  | 29.68             | 26.01          | 11.03                       | -191.03                | -1,733.51    | 993.60                     | 941.37                      | 52.23                         | 19.025               |         |                    |         |
| 7,450.00                                                                             | 7,387.52                  | 7,418.65                  | 7,406.32                  | 29.91             | 26.18          | 11.13                       | -191.03                | -1,733.51    | 985.36                     | 932.77                      | 52.59                         | 18.738               |         |                    |         |
| 7,500.00                                                                             | 7,436.81                  | 7,467.94                  | 7,455.61                  | 30.14             | 26.35          | 11.22                       | -191.03                | -1,733.51    | 977.12                     | 924.18                      | 52.95                         | 18.454               |         |                    |         |
| 7,550.00                                                                             | 7,486.10                  | 7,517.23                  | 7,504.90                  | 30.38             | 26.53          | 11.32                       | -191.03                | -1,733.51    | 968.89                     | 915.58                      | 53.31                         | 18.175               |         |                    |         |
| 7,600.00                                                                             | 7,535.40                  | 7,566.52                  | 7,554.20                  | 30.61             | 26.70          | 11.42                       | -191.03                | -1,733.51    | 960.66                     | 906.99                      | 53.67                         | 17.899               |         |                    |         |
| 7,650.00                                                                             | 7,584.69                  | 7,615.81                  | 7,603.49                  | 30.85             | 26.87          | 11.52                       | -191.03                | -1,733.51    | 952.43                     | 898.40                      | 54.03                         | 17.627               |         |                    |         |
| 7,700.00                                                                             | 7,633.98                  | 7,665.11                  | 7,652.78                  | 31.08             | 27.04          | 11.62                       | -191.03                | -1,733.51    | 944.21                     | 889.81                      | 54.40                         | 17.358               |         |                    |         |
| 7,750.00                                                                             | 7,683.27                  | 7,714.40                  | 7,702.07                  | 31.31             | 27.21          | 11.72                       | -191.03                | -1,733.51    | 935.99                     | 881.23                      | 54.76                         | 17.093               |         |                    |         |
| 7,800.00                                                                             | 7,732.56                  | 7,763.69                  | 7,751.36                  | 31.55             | 27.39          | 11.83                       | -191.03                | -1,733.51    | 927.77                     | 872.65                      | 55.12                         | 16.832               |         |                    |         |
| 7,850.00                                                                             | 7,781.85                  | 7,812.98                  | 7,800.65                  | 31.78             | 27.56          | 11.93                       | -191.03                | -1,733.51    | 919.56                     | 864.07                      | 55.48                         | 16.574               |         |                    |         |
| 7,900.00                                                                             | 7,831.14                  | 7,862.27                  | 7,849.94                  | 32.02             | 27.73          | 12.04                       | -191.03                | -1,733.51    | 911.34                     | 855.50                      | 55.85                         | 16.319               |         |                    |         |
| 7,950.00                                                                             | 7,880.43                  | 7,911.56                  | 7,899.23                  | 32.25             | 27.90          | 12.15                       | -191.03                | -1,733.51    | 903.13                     | 846.92                      | 56.21                         | 16.067               |         |                    |         |
| 8,000.00                                                                             | 7,929.72                  | 7,960.85                  | 7,948.52                  | 32.48             | 28.08          | 12.27                       | -191.03                | -1,733.51    | 894.93                     | 838.36                      | 56.57                         | 15.819               |         |                    |         |
| 8,050.00                                                                             | 7,979.01                  | 8,010.14                  | 7,997.81                  | 32.72             | 28.25          | 12.38                       | -191.03                | -1,733.51    | 886.73                     | 829.79                      | 56.94                         | 15.574               |         |                    |         |
| 8,100.00                                                                             | 8,028.31                  | 8,059.44                  | 8,047.11                  | 32.95             | 28.42          | 12.49                       | -191.03                | -1,733.51    | 878.57                     | 821.27                      | 57.30                         | 15.332               |         |                    |         |
| 8,150.00                                                                             | 8,077.60                  | 8,108.73                  | 8,096.40                  | 33.18             | 28.59          | 12.57                       | -191.03                | -1,733.51    | 870.41                     | 813.24                      | 57.66                         | 15.103               |         |                    |         |
| 8,200.00                                                                             | 8,127.17                  | 8,158.30                  | 8,145.97                  | 33.40             | 28.77          | 12.65                       | -191.03                | -1,733.51    | 863.88                     | 805.86                      | 58.03                         | 14.887               |         |                    |         |
| 8,250.00                                                                             | 8,176.74                  | 8,207.87                  | 8,195.54                  | 33.62             | 28.94          | 12.73                       | -191.03                | -1,733.51    | 857.50                     | 799.11                      | 58.39                         | 14.686               |         |                    |         |
| 8,300.00                                                                             | 8,226.39                  | 8,257.52                  | 8,245.19                  | 33.83             | 29.11          | 12.80                       | -191.03                | -1,733.51    | 851.74                     | 792.99                      | 58.75                         | 14.497               |         |                    |         |
| 8,350.00                                                                             | 8,276.12                  | 8,307.24                  | 8,294.92                  | 34.03             | 29.29          | 12.86                       | -191.03                | -1,733.51    | 846.63                     | 787.52                      | 59.11                         | 14.323               |         |                    |         |
| 8,400.00                                                                             | 8,325.90                  | 8,357.03                  | 8,344.70                  | 34.23             | 29.46          | 12.91                       | -191.03                | -1,733.51    | 842.15                     | 782.68                      | 59.47                         | 14.161               |         |                    |         |
| 8,450.00                                                                             | 8,375.75                  | 8,406.88                  | 8,394.55                  | 34.42             | 29.64          | 12.96                       | -191.03                | -1,733.51    | 838.30                     | 778.48                      | 59.83                         | 14.012               |         |                    |         |
| 8,500.00                                                                             | 8,425.64                  | 8,456.77                  | 8,444.44                  | 34.61             | 29.81          | 13.00                       | -191.03                | -1,733.51    | 835.10                     | 774.91                      | 60.19                         | 13.875               |         |                    |         |
| 8,550.00                                                                             | 8,475.57                  | 8,506.70                  | 8,494.37                  | 34.78             | 29.99          | 13.03                       | -191.03                | -1,733.51    | 832.53                     | 771.99                      | 60.54                         | 13.752               |         |                    |         |
| 8,600.00                                                                             | 8,525.53                  | 8,556.66                  | 8,544.33                  | 34.96             | 30.16          | 13.06                       | -191.03                | -1,733.51    | 830.60                     | 769.71                      | 60.89                         | 13.640               |         |                    |         |
| 8,650.00                                                                             | 8,575.51                  | 8,606.64                  | 8,594.31                  | 35.12             | 30.34          | 13.07                       | -191.03                | -1,733.51    | 829.30                     | 768.06                      | 61.24                         | 13.541               |         |                    |         |
| 8,700.00                                                                             | 8,625.51                  | 8,656.64                  | 8,644.31                  | 35.28             | 30.52          | 13.08                       | -191.03                | -1,733.51    | 828.65                     | 767.05                      | 61.60                         | 13.453               |         |                    |         |
| 8,747.98                                                                             | 8,673.48                  | 8,704.61                  | 8,692.28                  | 35.43             | 30.68          | 13.08                       | -191.03                | -1,733.51    | 828.48                     | 766.55                      | 61.93                         | 13.378 CC            |         |                    |         |
| 8,750.00                                                                             | 8,675.51                  | 8,706.64                  | 8,694.31                  | 35.44             | 30.69          | -89.38                      | -191.03                | -1,733.51    | 828.56                     | 766.62                      | 61.94                         | 13.377               |         |                    |         |
| 8,800.00                                                                             | 8,725.51                  | 8,756.64                  | 8,744.31                  | 35.59             | 30.87          | -89.38                      | -191.03                | -1,733.51    | 828.56                     | 766.28                      | 62.28                         | 13.303               |         |                    |         |
| 8,850.00                                                                             | 8,775.51                  | 8,806.64                  | 8,794.31                  | 35.74             | 31.04          | -89.38                      | -191.03                | -1,733.51    | 828.56                     | 765.93                      | 62.63                         | 13.230               |         |                    |         |
| 8,900.00                                                                             | 8,825.51                  | 8,856.64                  | 8,844.31                  | 35.89             | 31.22          | -89.38                      | -191.03                | -1,733.51    | 828.56                     | 765.59                      | 62.97                         | 13.158               |         |                    |         |
| 8,950.00                                                                             | 8,875.51                  | 8,906.64                  | 8,894.31                  | 36.04             | 31.39          | -89.38                      | -191.03                | -1,733.51    | 828.56                     | 765.25                      | 63.31                         | 13.087               |         |                    |         |
| 9,000.00                                                                             | 8,925.51                  | 8,956.64                  | 8,944.31                  | 36.19             | 31.57          | -89.38                      | -191.03                | -1,733.51    | 828.56                     | 764.90                      | 63.66                         | 13.016               |         |                    |         |
| 9,050.00                                                                             | 8,975.51                  | 9,006.64                  | 8,994.31                  | 36.34             | 31.75          | -89.38                      | -191.03                | -1,733.51    | 828.56                     | 764.56                      | 64.00                         | 12.946               |         |                    |         |
| 9,100.00                                                                             | 9,025.50                  | 9,055.54                  | 9,043.18                  | 36.49             | 31.92          | -88.94                      | -189.55                | -1,733.52    | 828.58                     | 764.24                      | 64.34                         | 12.878               |         |                    |         |
| 9,150.00                                                                             | 9,075.31                  | 9,104.14                  | 9,091.44                  | 36.64             | 32.08          | -88.84                      | -184.01                | -1,733.56    | 828.61                     | 763.94                      | 64.67                         | 12.813               |         |                    |         |
| 9,200.00                                                                             | 9,124.55                  | 9,152.62                  | 9,138.95                  | 36.78             | 32.23          | -88.74                      | -174.43                | -1,733.62    | 828.64                     | 763.66                      | 64.97                         | 12.753               |         |                    |         |
| 9,250.00                                                                             | 9,172.87                  | 9,200.99                  | 9,185.38                  | 36.90             | 32.37          | -88.66                      | -160.90                | -1,733.71    | 828.67                     | 763.41                      | 65.26                         | 12.697               |         |                    |         |
| 9,300.00                                                                             | 9,219.88                  | 9,249.28                  | 9,230.43                  | 37.02             | 32.51          | -88.58                      | -143.54                | -1,733.83    | 828.70                     | 763.17                      | 65.53                         | 12.645               |         |                    |         |
| 9,350.00                                                                             | 9,265.24                  | 9,297.49                  | 9,273.78                  | 37.12             | 32.63          | -88.52                      | -122.49                | -1,733.97    | 828.73                     | 762.94                      | 65.79                         | 12.597               |         |                    |         |
| 9,400.00                                                                             | 9,308.80                  | 9,345.63                  | 9,315.15                  | 37.21             | 32.75          | -88.46                      | -97.91                 | -1,734.14    | 828.76                     | 762.72                      | 66.03                         | 12.550               |         |                    |         |
| 9,450.00                                                                             | 9,349.62                  | 9,393.72                  | 9,354.28                  | 37.29             | 32.85          | -88.42                      | -69.97                 | -1,734.32    | 828.78                     | 762.51                      | 66.27                         | 12.506               |         |                    |         |
| 9,500.00                                                                             | 9,387.99                  | 9,441.77                  | 9,390.89                  | 37.36             | 32.94          | -88.39                      | -38.88                 | -1,734.53    | 828.80                     | 762.30                      | 66.51                         | 12.462               |         |                    |         |
| 9,550.00                                                                             | 9,423.43                  | 9,489.79                  | 9,424.76                  | 37.42             | 33.03          | -88.37                      | -4.85                  | -1,734.76    | 828.82                     | 762.08                      | 66.74                         | 12.418               |         |                    |         |
| 9,600.00                                                                             | 9,455.66                  | 9,537.80                  | 9,455.65                  | 37.48             | 33.13          | -88.37                      | 31.89                  | -1,735.01    | 828.83                     | 761.85                      | 66.98                         | 12.374               |         |                    |         |
| 9,650.00                                                                             | 9,484.44                  | 9,585.82                  | 9,483.35                  | 37.53             | 33.24          | -88.37                      | 71.08                  | -1,735.27    | 828.84                     | 761.60                      | 67.24                         | 12.327               |         |                    |         |
| 9,700.00                                                                             | 9,509.55                  | 9,633.84                  | 9,507.68                  | 37.58             | 33.38          | -88.39                      | 112.47                 | -1,735.55    | 828.85                     | 761.33                      | 67.51                         | 12.277               |         |                    |         |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed Com 30H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                           |                     |                     |                     |                |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Measured Depth (ft)                                                                  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning            |         |
| 9,750.00                                                                             | 9,530.80            | 9,681.89            | 9,528.48            | 37.63          | 33.53       | -88.42                | 155.77                            | -1,735.84  | 828.85               | 761.04                | 67.80                   | 12.224            |                    |         |
| 9,800.00                                                                             | 9,548.02            | 9,729.98            | 9,545.58            | 37.69          | 33.70       | -88.46                | 200.70                            | -1,736.15  | 828.84               | 760.72                | 68.12                   | 12.167            |                    |         |
| 9,850.00                                                                             | 9,561.08            | 9,778.13            | 9,558.88            | 37.77          | 33.88       | -88.51                | 246.96                            | -1,736.46  | 828.84               | 760.38                | 68.46                   | 12.107            |                    |         |
| 9,900.00                                                                             | 9,569.90            | 9,826.34            | 9,568.25            | 37.86          | 34.07       | -88.57                | 294.23                            | -1,736.78  | 828.83               | 760.00                | 68.83                   | 12.042            |                    |         |
| 9,950.00                                                                             | 9,574.38            | 9,874.63            | 9,573.62            | 37.97          | 34.27       | -88.65                | 342.21                            | -1,737.10  | 828.81               | 759.59                | 69.22                   | 11.973            |                    |         |
| 9,986.08                                                                             | 9,575.45            | 9,919.38            | 9,575.00            | 38.07          | 34.47       | -88.67                | 376.90                            | -1,737.33  | 828.82               | 759.25                | 69.57                   | 11.914            |                    |         |
| 10,000.00                                                                            | 9,575.00            | 9,923.29            | 9,575.00            | 38.11          | 34.48       | -88.70                | 390.84                            | -1,737.43  | 828.81               | 759.17                | 69.64                   | 11.901            |                    |         |
| 10,050.00                                                                            | 9,575.00            | 9,973.29            | 9,575.00            | 38.28          | 34.73       | -88.70                | 440.83                            | -1,737.76  | 828.82               | 758.70                | 70.12                   | 11.819            |                    |         |
| 10,100.00                                                                            | 9,575.00            | 10,023.29           | 9,575.00            | 38.47          | 34.99       | -88.70                | 490.83                            | -1,738.10  | 828.84               | 758.21                | 70.63                   | 11.735            |                    |         |
| 10,150.00                                                                            | 9,575.00            | 10,073.29           | 9,575.00            | 38.69          | 35.28       | -88.70                | 540.83                            | -1,738.44  | 828.85               | 757.65                | 71.20                   | 11.641            |                    |         |
| 10,200.00                                                                            | 9,575.00            | 10,123.29           | 9,575.00            | 38.94          | 35.59       | -88.70                | 590.83                            | -1,738.77  | 828.86               | 757.06                | 71.80                   | 11.544            |                    |         |
| 10,250.00                                                                            | 9,575.00            | 10,173.29           | 9,575.00            | 39.21          | 35.93       | -88.70                | 640.83                            | -1,739.11  | 828.88               | 756.41                | 72.47                   | 11.438            |                    |         |
| 10,300.00                                                                            | 9,575.00            | 10,223.29           | 9,575.00            | 39.51          | 36.28       | -88.70                | 690.83                            | -1,739.44  | 828.89               | 755.73                | 73.16                   | 11.330            |                    |         |
| 10,350.00                                                                            | 9,575.00            | 10,273.29           | 9,575.00            | 39.84          | 36.66       | -88.70                | 740.83                            | -1,739.78  | 828.91               | 754.99                | 73.91                   | 11.215            |                    |         |
| 10,400.00                                                                            | 9,575.00            | 10,323.29           | 9,575.00            | 40.18          | 37.06       | -88.70                | 790.83                            | -1,740.12  | 828.92               | 754.23                | 74.69                   | 11.099            |                    |         |
| 10,450.00                                                                            | 9,575.00            | 10,373.29           | 9,575.00            | 40.55          | 37.48       | -88.70                | 840.83                            | -1,740.45  | 828.93               | 753.41                | 75.52                   | 10.976            |                    |         |
| 10,500.00                                                                            | 9,575.00            | 10,423.29           | 9,575.00            | 40.94          | 37.91       | -88.70                | 890.82                            | -1,740.79  | 828.95               | 752.57                | 76.38                   | 10.853            |                    |         |
| 10,550.00                                                                            | 9,575.00            | 10,473.29           | 9,575.00            | 41.36          | 38.37       | -88.70                | 940.82                            | -1,741.13  | 828.96               | 751.67                | 77.29                   | 10.725            |                    |         |
| 10,600.00                                                                            | 9,575.00            | 10,523.29           | 9,575.00            | 41.78          | 38.85       | -88.70                | 990.82                            | -1,741.46  | 828.97               | 750.75                | 78.22                   | 10.598            |                    |         |
| 10,650.00                                                                            | 9,575.00            | 10,573.29           | 9,575.00            | 42.24          | 39.34       | -88.70                | 1,040.82                          | -1,741.80  | 828.99               | 749.78                | 79.21                   | 10.466            |                    |         |
| 10,700.00                                                                            | 9,575.00            | 10,623.29           | 9,575.00            | 42.70          | 39.85       | -88.70                | 1,090.82                          | -1,742.14  | 829.00               | 748.80                | 80.21                   | 10.336            |                    |         |
| 10,750.00                                                                            | 9,575.00            | 10,673.29           | 9,575.00            | 43.19          | 40.37       | -88.70                | 1,140.82                          | -1,742.47  | 829.02               | 747.76                | 81.26                   | 10.202            |                    |         |
| 10,800.00                                                                            | 9,575.00            | 10,723.29           | 9,575.00            | 43.69          | 40.92       | -88.70                | 1,190.82                          | -1,742.81  | 829.03               | 746.71                | 82.32                   | 10.071            |                    |         |
| 10,850.00                                                                            | 9,575.00            | 10,773.29           | 9,575.00            | 44.21          | 41.47       | -88.70                | 1,240.82                          | -1,743.15  | 829.04               | 745.61                | 83.43                   | 9.937             |                    |         |
| 10,900.00                                                                            | 9,575.00            | 10,823.29           | 9,575.00            | 44.74          | 42.04       | -88.70                | 1,290.82                          | -1,743.48  | 829.06               | 744.50                | 84.56                   | 9.804             |                    |         |
| 10,950.00                                                                            | 9,575.00            | 10,873.29           | 9,575.00            | 45.29          | 42.63       | -88.70                | 1,340.81                          | -1,743.82  | 829.07               | 743.34                | 85.73                   | 9.671             |                    |         |
| 11,000.00                                                                            | 9,575.00            | 10,923.29           | 9,575.00            | 45.85          | 43.23       | -88.70                | 1,390.81                          | -1,744.16  | 829.09               | 742.18                | 86.91                   | 9.540             |                    |         |
| 11,050.00                                                                            | 9,575.00            | 10,973.29           | 9,575.00            | 46.43          | 43.84       | -88.70                | 1,440.81                          | -1,744.49  | 829.10               | 740.97                | 88.13                   | 9.408             |                    |         |
| 11,100.00                                                                            | 9,575.00            | 11,023.29           | 9,575.00            | 47.01          | 44.46       | -88.70                | 1,490.81                          | -1,744.83  | 829.11               | 739.75                | 89.36                   | 9.278             |                    |         |
| 11,150.00                                                                            | 9,575.00            | 11,073.29           | 9,575.00            | 47.61          | 45.10       | -88.70                | 1,540.81                          | -1,745.16  | 829.13               | 738.50                | 90.63                   | 9.148             |                    |         |
| 11,200.00                                                                            | 9,575.00            | 11,123.29           | 9,575.00            | 48.22          | 45.74       | -88.70                | 1,590.81                          | -1,745.50  | 829.14               | 737.23                | 91.91                   | 9.021             |                    |         |
| 11,250.00                                                                            | 9,575.00            | 11,173.29           | 9,575.00            | 48.85          | 46.40       | -88.70                | 1,640.81                          | -1,745.84  | 829.15               | 735.93                | 93.22                   | 8.894             |                    |         |
| 11,300.00                                                                            | 9,575.00            | 11,223.29           | 9,575.00            | 49.48          | 47.07       | -88.70                | 1,690.81                          | -1,746.17  | 829.17               | 734.62                | 94.54                   | 8.770             |                    |         |
| 11,350.00                                                                            | 9,575.00            | 11,273.29           | 9,575.00            | 50.13          | 47.75       | -88.70                | 1,740.81                          | -1,746.51  | 829.18               | 733.28                | 95.90                   | 8.646             |                    |         |
| 11,400.00                                                                            | 9,575.00            | 11,323.29           | 9,575.00            | 50.78          | 48.44       | -88.70                | 1,790.80                          | -1,746.85  | 829.20               | 731.94                | 97.26                   | 8.526             |                    |         |
| 11,450.00                                                                            | 9,575.00            | 11,373.29           | 9,575.00            | 51.45          | 49.13       | -88.70                | 1,840.80                          | -1,747.18  | 829.21               | 730.56                | 98.65                   | 8.406             |                    |         |
| 11,500.00                                                                            | 9,575.00            | 11,423.29           | 9,575.00            | 52.12          | 49.84       | -88.70                | 1,890.80                          | -1,747.52  | 829.22               | 729.17                | 100.05                  | 8.288             |                    |         |
| 11,550.00                                                                            | 9,575.00            | 11,473.29           | 9,575.00            | 52.80          | 50.55       | -88.70                | 1,940.80                          | -1,747.86  | 829.24               | 727.76                | 101.47                  | 8.172             |                    |         |
| 11,600.00                                                                            | 9,575.00            | 11,523.29           | 9,575.00            | 53.49          | 51.27       | -88.70                | 1,990.80                          | -1,748.19  | 829.25               | 726.35                | 102.91                  | 8.058             |                    |         |
| 11,650.00                                                                            | 9,575.00            | 11,573.29           | 9,575.00            | 54.19          | 52.00       | -88.70                | 2,040.80                          | -1,748.53  | 829.26               | 724.90                | 104.36                  | 7.946             |                    |         |
| 11,700.00                                                                            | 9,575.00            | 11,623.29           | 9,575.00            | 54.89          | 52.74       | -88.70                | 2,090.80                          | -1,748.87  | 829.28               | 723.45                | 105.82                  | 7.836             |                    |         |
| 11,750.00                                                                            | 9,575.00            | 11,673.29           | 9,575.00            | 55.61          | 53.48       | -88.70                | 2,140.80                          | -1,749.20  | 829.29               | 721.98                | 107.31                  | 7.728             |                    |         |
| 11,800.00                                                                            | 9,575.00            | 11,723.29           | 9,575.00            | 56.33          | 54.23       | -88.70                | 2,190.80                          | -1,749.54  | 829.31               | 720.51                | 108.80                  | 7.622             |                    |         |
| 11,850.00                                                                            | 9,575.00            | 11,773.29           | 9,575.00            | 57.06          | 54.99       | -88.70                | 2,240.79                          | -1,749.88  | 829.32               | 719.01                | 110.31                  | 7.518             |                    |         |
| 11,900.00                                                                            | 9,575.00            | 11,823.29           | 9,575.00            | 57.80          | 55.75       | -88.70                | 2,290.79                          | -1,750.21  | 829.33               | 717.50                | 111.83                  | 7.416             |                    |         |
| 11,950.00                                                                            | 9,575.00            | 11,873.29           | 9,575.00            | 58.54          | 56.52       | -88.70                | 2,340.79                          | -1,750.55  | 829.35               | 715.98                | 113.36                  | 7.316             |                    |         |
| 12,000.00                                                                            | 9,575.00            | 11,923.29           | 9,575.00            | 59.29          | 57.30       | -88.70                | 2,390.79                          | -1,750.88  | 829.36               | 714.46                | 114.91                  | 7.218             |                    |         |
| 12,050.00                                                                            | 9,575.00            | 11,973.29           | 9,575.00            | 60.04          | 58.08       | -88.70                | 2,440.79                          | -1,751.22  | 829.37               | 712.91                | 116.46                  | 7.121             |                    |         |
| 12,100.00                                                                            | 9,575.00            | 12,023.29           | 9,575.00            | 60.80          | 58.87       | -88.70                | 2,490.79                          | -1,751.56  | 829.39               | 711.36                | 118.03                  | 7.027             |                    |         |
| 12,150.00                                                                            | 9,575.00            | 12,073.29           | 9,575.00            | 61.57          | 59.66       | -88.70                | 2,540.79                          | -1,751.89  | 829.40               | 709.80                | 119.61                  | 6.934             |                    |         |
| 12,200.00                                                                            | 9,575.00            | 12,123.29           | 9,575.00            | 62.34          | 60.45       | -88.70                | 2,590.79                          | -1,752.23  | 829.42               | 708.23                | 121.19                  | 6.844             |                    |         |
| 12,250.00                                                                            | 9,575.00            | 12,173.29           | 9,575.00            | 63.11          | 61.25       | -88.70                | 2,640.78                          | -1,752.57  | 829.43               | 706.64                | 122.79                  | 6.755             |                    |         |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed Com 30H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|----------------------------------|-----------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                           |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                            |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                         |           |                      |                       |                         |                   | Warning                    |
| Measured Depth (ft)                                                                  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/S (ft) | +E/W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 12,300.00                                                                            | 9,575.00            | 12,223.29           | 9,575.00            | 63.89           | 62.06       | -88.70                | 2,690.78                         | -1,752.90 | 829.44               | 705.05                | 124.39                  | 6.668             |                            |
| 12,350.00                                                                            | 9,575.00            | 12,273.29           | 9,575.00            | 64.68           | 62.87       | -88.70                | 2,740.78                         | -1,753.24 | 829.46               | 703.45                | 126.01                  | 6.583             |                            |
| 12,400.00                                                                            | 9,575.00            | 12,323.29           | 9,575.00            | 65.47           | 63.68       | -88.70                | 2,790.78                         | -1,753.58 | 829.47               | 701.84                | 127.63                  | 6.499             |                            |
| 12,450.00                                                                            | 9,575.00            | 12,373.29           | 9,575.00            | 66.27           | 64.50       | -88.70                | 2,840.78                         | -1,753.91 | 829.49               | 700.23                | 129.26                  | 6.417             |                            |
| 12,500.00                                                                            | 9,575.00            | 12,423.29           | 9,575.00            | 67.06           | 65.32       | -88.70                | 2,890.78                         | -1,754.25 | 829.50               | 698.60                | 130.90                  | 6.337             |                            |
| 12,550.00                                                                            | 9,575.00            | 12,473.29           | 9,575.00            | 67.87           | 66.15       | -88.70                | 2,940.78                         | -1,754.59 | 829.51               | 696.97                | 132.54                  | 6.258             |                            |
| 12,600.00                                                                            | 9,575.00            | 12,523.29           | 9,575.00            | 68.68           | 66.98       | -88.70                | 2,990.78                         | -1,754.92 | 829.53               | 695.33                | 134.19                  | 6.182             |                            |
| 12,650.00                                                                            | 9,575.00            | 12,573.29           | 9,575.00            | 69.49           | 67.81       | -88.70                | 3,040.78                         | -1,755.26 | 829.54               | 693.68                | 135.86                  | 6.106             |                            |
| 12,700.00                                                                            | 9,575.00            | 12,623.29           | 9,575.00            | 70.30           | 68.64       | -88.70                | 3,090.77                         | -1,755.59 | 829.55               | 692.03                | 137.52                  | 6.032             |                            |
| 12,750.00                                                                            | 9,575.00            | 12,673.29           | 9,575.00            | 71.12           | 69.48       | -88.70                | 3,140.77                         | -1,755.93 | 829.57               | 690.37                | 139.20                  | 5.960             |                            |
| 12,800.00                                                                            | 9,575.00            | 12,723.29           | 9,575.00            | 71.94           | 70.32       | -88.70                | 3,190.77                         | -1,756.27 | 829.58               | 688.71                | 140.87                  | 5.889             |                            |
| 12,850.00                                                                            | 9,575.00            | 12,773.29           | 9,575.00            | 72.77           | 71.17       | -88.70                | 3,240.77                         | -1,756.60 | 829.60               | 687.03                | 142.56                  | 5.819             |                            |
| 12,900.00                                                                            | 9,575.00            | 12,823.29           | 9,575.00            | 73.60           | 72.02       | -88.70                | 3,290.77                         | -1,756.94 | 829.61               | 685.36                | 144.25                  | 5.751             |                            |
| 12,950.00                                                                            | 9,575.00            | 12,873.29           | 9,575.00            | 74.43           | 72.87       | -88.70                | 3,340.77                         | -1,757.28 | 829.62               | 683.67                | 145.95                  | 5.684             |                            |
| 13,000.00                                                                            | 9,575.00            | 12,923.29           | 9,575.00            | 75.26           | 73.72       | -88.70                | 3,390.77                         | -1,757.61 | 829.64               | 681.99                | 147.65                  | 5.619             |                            |
| 13,050.00                                                                            | 9,575.00            | 12,973.29           | 9,575.00            | 76.10           | 74.58       | -88.70                | 3,440.77                         | -1,757.95 | 829.65               | 680.29                | 149.36                  | 5.555             |                            |
| 13,100.00                                                                            | 9,575.00            | 13,023.29           | 9,575.00            | 76.94           | 75.44       | -88.70                | 3,490.77                         | -1,758.29 | 829.66               | 678.59                | 151.07                  | 5.492             |                            |
| 13,150.00                                                                            | 9,575.00            | 13,073.29           | 9,575.00            | 77.79           | 76.30       | -88.70                | 3,540.76                         | -1,758.62 | 829.68               | 676.89                | 152.79                  | 5.430             |                            |
| 13,200.00                                                                            | 9,575.00            | 13,123.29           | 9,575.00            | 78.63           | 77.16       | -88.70                | 3,590.76                         | -1,758.96 | 829.69               | 675.18                | 154.51                  | 5.370             |                            |
| 13,250.00                                                                            | 9,575.00            | 13,173.29           | 9,575.00            | 79.48           | 78.03       | -88.70                | 3,640.76                         | -1,759.30 | 829.71               | 673.46                | 156.24                  | 5.310             |                            |
| 13,300.00                                                                            | 9,575.00            | 13,223.29           | 9,575.00            | 80.33           | 78.89       | -88.70                | 3,690.76                         | -1,759.63 | 829.72               | 671.75                | 157.97                  | 5.252             |                            |
| 13,350.00                                                                            | 9,575.00            | 13,273.29           | 9,575.00            | 81.19           | 79.76       | -88.70                | 3,740.76                         | -1,759.97 | 829.73               | 670.02                | 159.71                  | 5.195             |                            |
| 13,400.00                                                                            | 9,575.00            | 13,323.29           | 9,575.00            | 82.04           | 80.63       | -88.70                | 3,790.76                         | -1,760.31 | 829.75               | 668.30                | 161.45                  | 5.139             |                            |
| 13,450.00                                                                            | 9,575.00            | 13,373.29           | 9,575.00            | 82.90           | 81.51       | -88.70                | 3,840.76                         | -1,760.64 | 829.76               | 666.57                | 163.19                  | 5.085             |                            |
| 13,500.00                                                                            | 9,575.00            | 13,423.29           | 9,575.00            | 83.76           | 82.38       | -88.70                | 3,890.76                         | -1,760.98 | 829.78               | 664.84                | 164.94                  | 5.031             |                            |
| 13,550.00                                                                            | 9,575.00            | 13,473.29           | 9,575.00            | 84.62           | 83.26       | -88.70                | 3,940.76                         | -1,761.31 | 829.79               | 663.10                | 166.69                  | 4.978 Alert       |                            |
| 13,600.00                                                                            | 9,575.00            | 13,523.29           | 9,575.00            | 85.49           | 84.14       | -88.70                | 3,990.75                         | -1,761.65 | 829.80               | 661.36                | 168.45                  | 4.926 Alert       |                            |
| 13,650.00                                                                            | 9,575.00            | 13,573.29           | 9,575.00            | 86.35           | 85.02       | -88.70                | 4,040.75                         | -1,761.99 | 829.82               | 659.61                | 170.21                  | 4.875 Alert       |                            |
| 13,700.00                                                                            | 9,575.00            | 13,623.29           | 9,575.00            | 87.22           | 85.91       | -88.70                | 4,090.75                         | -1,762.32 | 829.83               | 657.86                | 171.97                  | 4.825 Alert       |                            |
| 13,750.00                                                                            | 9,575.00            | 13,673.29           | 9,575.00            | 88.09           | 86.79       | -88.70                | 4,140.75                         | -1,762.66 | 829.84               | 656.11                | 173.74                  | 4.776 Alert       |                            |
| 13,800.00                                                                            | 9,575.00            | 13,723.29           | 9,575.00            | 88.96           | 87.68       | -88.70                | 4,190.75                         | -1,763.00 | 829.86               | 654.35                | 175.50                  | 4.728 Alert       |                            |
| 13,850.00                                                                            | 9,575.00            | 13,773.29           | 9,575.00            | 89.84           | 88.56       | -88.70                | 4,240.75                         | -1,763.33 | 829.87               | 652.60                | 177.28                  | 4.681 Alert       |                            |
| 13,900.00                                                                            | 9,575.00            | 13,823.29           | 9,575.00            | 90.71           | 89.45       | -88.70                | 4,290.75                         | -1,763.67 | 829.89               | 650.84                | 179.05                  | 4.635 Alert       |                            |
| 13,950.00                                                                            | 9,575.00            | 13,873.29           | 9,575.00            | 91.59           | 90.34       | -88.70                | 4,340.75                         | -1,764.01 | 829.90               | 649.07                | 180.83                  | 4.589 Alert       |                            |
| 14,000.00                                                                            | 9,575.00            | 13,923.29           | 9,575.00            | 92.47           | 91.23       | -88.70                | 4,390.75                         | -1,764.34 | 829.91               | 647.30                | 182.61                  | 4.545 Alert       |                            |
| 14,050.00                                                                            | 9,575.00            | 13,973.29           | 9,575.00            | 93.35           | 92.13       | -88.70                | 4,440.74                         | -1,764.68 | 829.93               | 645.53                | 184.39                  | 4.501 Alert       |                            |
| 14,100.00                                                                            | 9,575.00            | 14,023.29           | 9,575.00            | 94.23           | 93.02       | -88.70                | 4,490.74                         | -1,765.02 | 829.94               | 643.76                | 186.18                  | 4.458 Alert       |                            |
| 14,150.00                                                                            | 9,575.00            | 14,073.29           | 9,575.00            | 95.12           | 93.92       | -88.70                | 4,540.74                         | -1,765.35 | 829.95               | 641.99                | 187.97                  | 4.415 Alert       |                            |
| 14,200.00                                                                            | 9,575.00            | 14,091.29           | 9,575.00            | 96.00           | 94.24       | -88.70                | 4,558.74                         | -1,765.47 | 830.59               | 641.09                | 189.50                  | 4.383 Alert, ES   |                            |
| 14,250.00                                                                            | 9,575.00            | 14,091.29           | 9,575.00            | 96.89           | 94.24       | -88.70                | 4,558.74                         | -1,765.47 | 834.02               | 643.63                | 190.40                  | 4.380 Alert, SF   |                            |
| 14,300.00                                                                            | 9,575.00            | 14,091.29           | 9,575.00            | 97.78           | 94.24       | -88.70                | 4,558.74                         | -1,765.47 | 840.43               | 649.72                | 190.71                  | 4.407 Alert       |                            |
| 14,350.00                                                                            | 9,575.00            | 14,091.29           | 9,575.00            | 98.67           | 94.24       | -88.70                | 4,558.74                         | -1,765.47 | 849.73               | 659.28                | 190.45                  | 4.462 Alert       |                            |
| 14,400.00                                                                            | 9,575.00            | 14,091.29           | 9,575.00            | 99.56           | 94.24       | -88.70                | 4,558.74                         | -1,765.47 | 861.84               | 672.17                | 189.67                  | 4.544 Alert       |                            |
| 14,450.00                                                                            | 9,575.00            | 14,091.29           | 9,575.00            | 100.45          | 94.24       | -88.70                | 4,558.74                         | -1,765.47 | 876.63               | 688.22                | 188.42                  | 4.653 Alert       |                            |
| 14,477.32                                                                            | 9,575.00            | 14,091.29           | 9,575.00            | 100.94          | 94.24       | -88.70                | 4,558.74                         | -1,765.47 | 885.81               | 698.26                | 187.55                  | 4.723 Alert       |                            |

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

# Anticollision Report

Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Reference Site: Sec 08-T25S-R33E  
 Site Error: 0.00 ft  
 Reference Well: Flagler 8 Fed 38H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: EDM r5000.141\_Prod US  
 Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed Com 36H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   |  | Offset Site Error: | 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--|--------------------|---------|
| Survey Program: D-MWD+IGRF                                                           |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   |  | Offset Well Error: | 0.50 ft |
| Reference                                                                            |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |  |                    | Warning |
| Measured Depth (ft)                                                                  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |  |                    |         |
| 5,450.00                                                                             | 5,415.88            | 5,436.10            | 5,434.78            | 20.70           | 18.84       | 12.38                 | -99.45                            | -1,919.79  | 1,499.02             | 1,461.00              | 38.02                   | 39.430            |  |                    |         |
| 5,500.00                                                                             | 5,465.17            | 5,485.42            | 5,484.08            | 20.93           | 19.01       | 12.40                 | -100.95                           | -1,919.79  | 1,490.83             | 1,452.45              | 38.38                   | 38.848            |  |                    |         |
| 5,550.00                                                                             | 5,514.46            | 5,534.74            | 5,533.39            | 21.16           | 19.19       | 12.41                 | -102.45                           | -1,919.79  | 1,482.63             | 1,443.90              | 38.73                   | 38.277            |  |                    |         |
| 5,600.00                                                                             | 5,563.75            | 5,584.07            | 5,582.69            | 21.38           | 19.36       | 12.42                 | -103.95                           | -1,919.79  | 1,474.44             | 1,435.35              | 39.09                   | 37.715            |  |                    |         |
| 5,650.00                                                                             | 5,613.04            | 5,633.39            | 5,631.99            | 21.61           | 19.54       | 12.43                 | -105.44                           | -1,919.79  | 1,466.25             | 1,426.79              | 39.45                   | 37.164            |  |                    |         |
| 5,700.00                                                                             | 5,662.34            | 5,682.71            | 5,681.29            | 21.84           | 19.71       | 12.44                 | -106.94                           | -1,919.79  | 1,458.05             | 1,418.24              | 39.81                   | 36.623            |  |                    |         |
| 5,750.00                                                                             | 5,711.63            | 5,732.04            | 5,730.59            | 22.06           | 19.89       | 12.45                 | -108.44                           | -1,919.79  | 1,449.86             | 1,409.69              | 40.17                   | 36.091            |  |                    |         |
| 5,800.00                                                                             | 5,760.92            | 5,781.36            | 5,779.89            | 22.29           | 20.06       | 12.46                 | -109.94                           | -1,919.79  | 1,441.67             | 1,401.13              | 40.53                   | 35.568            |  |                    |         |
| 5,850.00                                                                             | 5,810.21            | 5,830.68            | 5,829.19            | 22.52           | 20.24       | 12.47                 | -111.44                           | -1,919.79  | 1,433.47             | 1,392.58              | 40.89                   | 35.054            |  |                    |         |
| 5,900.00                                                                             | 5,859.50            | 5,880.01            | 5,878.49            | 22.75           | 20.41       | 12.49                 | -112.94                           | -1,919.79  | 1,425.28             | 1,384.03              | 41.25                   | 34.549            |  |                    |         |
| 5,950.00                                                                             | 5,908.79            | 5,929.33            | 5,927.79            | 22.97           | 20.59       | 12.50                 | -114.44                           | -1,919.79  | 1,417.09             | 1,375.47              | 41.61                   | 34.053            |  |                    |         |
| 6,000.00                                                                             | 5,958.08            | 5,978.65            | 5,977.09            | 23.20           | 20.76       | 12.51                 | -115.94                           | -1,919.79  | 1,408.89             | 1,366.92              | 41.97                   | 33.565            |  |                    |         |
| 6,050.00                                                                             | 6,007.37            | 6,027.98            | 6,026.39            | 23.43           | 20.94       | 12.52                 | -117.44                           | -1,919.79  | 1,400.70             | 1,358.37              | 42.34                   | 33.085            |  |                    |         |
| 6,100.00                                                                             | 6,056.66            | 6,077.30            | 6,075.69            | 23.66           | 21.11       | 12.53                 | -118.94                           | -1,919.79  | 1,392.51             | 1,349.81              | 42.70                   | 32.614            |  |                    |         |
| 6,150.00                                                                             | 6,105.96            | 6,126.62            | 6,124.99            | 23.89           | 21.29       | 12.55                 | -120.44                           | -1,919.79  | 1,384.32             | 1,341.26              | 43.06                   | 32.150            |  |                    |         |
| 6,200.00                                                                             | 6,155.25            | 6,176.95            | 6,174.29            | 24.12           | 21.47       | 12.56                 | -121.93                           | -1,919.79  | 1,376.12             | 1,332.70              | 43.42                   | 31.694            |  |                    |         |
| 6,250.00                                                                             | 6,204.54            | 6,225.27            | 6,223.59            | 24.35           | 21.64       | 12.57                 | -123.43                           | -1,919.79  | 1,367.93             | 1,324.15              | 43.78                   | 31.245            |  |                    |         |
| 6,300.00                                                                             | 6,253.83            | 6,274.59            | 6,272.89            | 24.58           | 21.82       | 12.59                 | -124.93                           | -1,919.79  | 1,359.74             | 1,315.59              | 44.14                   | 30.803            |  |                    |         |
| 6,350.00                                                                             | 6,303.12            | 6,323.92            | 6,322.19            | 24.81           | 21.99       | 12.60                 | -126.43                           | -1,919.79  | 1,351.54             | 1,307.04              | 44.50                   | 30.368            |  |                    |         |
| 6,400.00                                                                             | 6,352.41            | 6,373.24            | 6,371.49            | 25.04           | 22.17       | 12.61                 | -127.93                           | -1,919.79  | 1,343.35             | 1,298.48              | 44.87                   | 29.941            |  |                    |         |
| 6,450.00                                                                             | 6,401.70            | 6,422.56            | 6,420.79            | 25.27           | 22.35       | 12.63                 | -129.43                           | -1,919.79  | 1,335.16             | 1,289.93              | 45.23                   | 29.520            |  |                    |         |
| 6,500.00                                                                             | 6,450.99            | 6,471.89            | 6,470.09            | 25.50           | 22.52       | 12.64                 | -130.93                           | -1,919.79  | 1,326.97             | 1,281.38              | 45.59                   | 29.106            |  |                    |         |
| 6,550.00                                                                             | 6,500.28            | 6,521.21            | 6,519.40            | 25.73           | 22.70       | 12.65                 | -132.43                           | -1,919.79  | 1,318.77             | 1,272.82              | 45.95                   | 28.698            |  |                    |         |
| 6,600.00                                                                             | 6,549.57            | 6,570.53            | 6,568.70            | 25.96           | 22.87       | 12.67                 | -133.93                           | -1,919.79  | 1,310.58             | 1,264.27              | 46.32                   | 28.296            |  |                    |         |
| 6,650.00                                                                             | 6,598.87            | 6,619.86            | 6,618.00            | 26.19           | 23.05       | 12.68                 | -135.43                           | -1,919.79  | 1,302.39             | 1,255.71              | 46.68                   | 27.901            |  |                    |         |
| 6,700.00                                                                             | 6,648.16            | 6,669.18            | 6,667.30            | 26.42           | 23.23       | 12.69                 | -136.93                           | -1,919.79  | 1,294.20             | 1,247.16              | 47.04                   | 27.511            |  |                    |         |
| 6,750.00                                                                             | 6,697.45            | 6,718.50            | 6,716.60            | 26.66           | 23.40       | 12.71                 | -138.42                           | -1,919.79  | 1,286.01             | 1,238.60              | 47.41                   | 27.128            |  |                    |         |
| 6,800.00                                                                             | 6,746.74            | 6,767.83            | 6,765.90            | 26.89           | 23.58       | 12.72                 | -139.92                           | -1,919.79  | 1,277.81             | 1,230.05              | 47.77                   | 26.750            |  |                    |         |
| 6,850.00                                                                             | 6,796.03            | 6,817.15            | 6,815.20            | 27.12           | 23.76       | 12.74                 | -141.42                           | -1,919.79  | 1,269.62             | 1,221.49              | 48.13                   | 26.378            |  |                    |         |
| 6,900.00                                                                             | 6,845.32            | 6,866.47            | 6,864.50            | 27.35           | 23.93       | 12.75                 | -142.92                           | -1,919.79  | 1,261.43             | 1,212.93              | 48.50                   | 26.011            |  |                    |         |
| 6,950.00                                                                             | 6,894.61            | 6,915.80            | 6,913.80            | 27.58           | 24.11       | 12.77                 | -144.42                           | -1,919.79  | 1,253.24             | 1,204.38              | 48.86                   | 25.650            |  |                    |         |
| 7,000.00                                                                             | 6,943.90            | 6,965.12            | 6,963.10            | 27.82           | 24.29       | 12.78                 | -145.92                           | -1,919.79  | 1,245.05             | 1,195.82              | 49.22                   | 25.294            |  |                    |         |
| 7,050.00                                                                             | 6,993.19            | 7,014.44            | 7,012.40            | 28.05           | 24.46       | 12.80                 | -147.42                           | -1,919.79  | 1,236.86             | 1,187.27              | 49.59                   | 24.943            |  |                    |         |
| 7,100.00                                                                             | 7,042.48            | 7,063.77            | 7,061.70            | 28.28           | 24.64       | 12.82                 | -148.92                           | -1,919.79  | 1,228.66             | 1,178.71              | 49.95                   | 24.598            |  |                    |         |
| 7,150.00                                                                             | 7,091.78            | 7,113.09            | 7,111.00            | 28.51           | 24.82       | 12.83                 | -150.42                           | -1,919.79  | 1,220.47             | 1,170.16              | 50.31                   | 24.257            |  |                    |         |
| 7,200.00                                                                             | 7,141.07            | 7,162.41            | 7,160.30            | 28.75           | 24.99       | 12.85                 | -151.92                           | -1,919.79  | 1,212.28             | 1,161.60              | 50.68                   | 23.921            |  |                    |         |
| 7,250.00                                                                             | 7,190.36            | 7,211.74            | 7,209.60            | 28.98           | 25.17       | 12.86                 | -153.42                           | -1,919.79  | 1,204.09             | 1,153.05              | 51.04                   | 23.590            |  |                    |         |
| 7,300.00                                                                             | 7,239.65            | 7,261.06            | 7,258.90            | 29.21           | 25.35       | 12.88                 | -154.91                           | -1,919.79  | 1,195.90             | 1,144.49              | 51.41                   | 23.263            |  |                    |         |
| 7,350.00                                                                             | 7,288.94            | 7,310.38            | 7,308.20            | 29.44           | 25.52       | 12.90                 | -156.41                           | -1,919.79  | 1,187.71             | 1,135.94              | 51.77                   | 22.941            |  |                    |         |
| 7,400.00                                                                             | 7,338.23            | 7,359.71            | 7,357.50            | 29.68           | 25.70       | 12.92                 | -157.91                           | -1,919.79  | 1,179.52             | 1,127.38              | 52.14                   | 22.624            |  |                    |         |
| 7,450.00                                                                             | 7,387.52            | 7,409.03            | 7,406.80            | 29.91           | 25.88       | 12.93                 | -159.41                           | -1,919.79  | 1,171.33             | 1,118.82              | 52.50                   | 22.310            |  |                    |         |
| 7,500.00                                                                             | 7,436.81            | 7,458.35            | 7,456.11            | 30.14           | 26.06       | 12.95                 | -160.91                           | -1,919.79  | 1,163.14             | 1,110.27              | 52.87                   | 22.001            |  |                    |         |
| 7,550.00                                                                             | 7,486.10            | 7,507.68            | 7,505.41            | 30.38           | 26.23       | 12.97                 | -162.41                           | -1,919.79  | 1,154.95             | 1,101.71              | 53.23                   | 21.697            |  |                    |         |
| 7,600.00                                                                             | 7,535.40            | 7,557.00            | 7,554.71            | 30.61           | 26.41       | 12.99                 | -163.91                           | -1,919.79  | 1,146.75             | 1,093.16              | 53.60                   | 21.396            |  |                    |         |
| 7,650.00                                                                             | 7,584.69            | 7,606.32            | 7,604.01            | 30.85           | 26.59       | 13.01                 | -165.41                           | -1,919.79  | 1,138.56             | 1,084.60              | 53.96                   | 21.099            |  |                    |         |
| 7,700.00                                                                             | 7,633.98            | 7,655.65            | 7,653.31            | 31.08           | 26.76       | 13.02                 | -166.91                           | -1,919.79  | 1,130.37             | 1,076.05              | 54.33                   | 20.807            |  |                    |         |
| 7,750.00                                                                             | 7,683.27            | 7,704.97            | 7,702.61            | 31.31           | 26.94       | 13.04                 | -168.41                           | -1,919.79  | 1,122.18             | 1,067.49              | 54.69                   | 20.518            |  |                    |         |
| 7,800.00                                                                             | 7,732.56            | 7,754.29            | 7,751.91            | 31.55           | 27.12       | 13.06                 | -169.90                           | -1,919.79  | 1,113.99             | 1,058.94              | 55.06                   | 20.233            |  |                    |         |
| 7,850.00                                                                             | 7,781.85            | 7,803.62            | 7,801.21            | 31.78           | 27.29       | 13.08                 | -171.40                           | -1,919.79  | 1,105.80             | 1,050.38              | 55.42                   | 19.952            |  |                    |         |
| 7,900.00                                                                             | 7,831.14            | 7,852.94            | 7,850.51            | 32.02           | 27.47       | 13.10                 | -172.90                           | -1,919.79  | 1,097.61             | 1,041.83              | 55.79                   | 19.674            |  |                    |         |
| 7,950.00                                                                             | 7,880.43            | 7,902.18            | 7,899.74            | 32.25           | 27.65       | 13.13                 | -174.23                           | -1,919.79  | 1,089.43             | 1,033.27              | 56.16                   | 19.400            |  |                    |         |
| 8,000.00                                                                             | 7,929.72            | 7,951.39            | 7,948.94            | 32.48           | 27.82       | 13.19                 | -175.05                           | -1,919.79  | 1,081.24             | 1,024.73              | 56.52                   | 19.132            |  |                    |         |

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

# Anticollision Report

Company: WCDSC Permian NM  
Project: Lea County (NAD83 New Mexico East)  
Reference Site: Sec 08-T25S-R33E  
Site Error: 0.00 ft  
Reference Well: Flagler 8 Fed 38H  
Well Error: 0.50 ft  
Reference Wellbore: Wellbore #1  
Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
TVD Reference: RKB @ 3472.50ft  
MD Reference: RKB @ 3472.50ft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM r5000.141\_Prod US  
Offset TVD Reference: Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed Com 36H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|----------------------------------|-----------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                           |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                            |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                         |           |                      | Minimum Separation    |                         |                   | Warning            |         |
| Measured Depth (ft)                                                                  | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N-S (ft) | +E-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 8,050.00                                                                             | 7,979.01            | 8,004.34            | 7,998.11            | 32.72           | 28.00       | 13.27                 | -175.33                          | -1,919.79 | 1,073.07             | 1,016.18              | 56.89                   | 18.862            |                    |         |
| 8,100.00                                                                             | 8,028.31            | 8,049.87            | 8,047.41            | 32.95           | 28.16       | 13.37                 | -175.33                          | -1,919.79 | 1,064.94             | 1,007.70              | 57.24                   | 18.606            |                    |         |
| 8,150.00                                                                             | 8,077.69            | 8,100.75            | 8,096.79            | 33.18           | 28.33       | 13.44                 | -175.33                          | -1,919.79 | 1,057.30             | 999.70                | 57.60                   | 18.356            |                    |         |
| 8,200.00                                                                             | 8,127.17            | 8,148.73            | 8,146.27            | 33.40           | 28.49       | 13.50                 | -175.33                          | -1,919.79 | 1,050.30             | 992.35                | 57.95                   | 18.124            |                    |         |
| 8,250.00                                                                             | 8,176.74            | 8,201.70            | 8,195.84            | 33.62           | 28.67       | 13.57                 | -175.33                          | -1,919.79 | 1,043.94             | 985.62                | 58.32                   | 17.900            |                    |         |
| 8,300.00                                                                             | 8,226.39            | 8,247.95            | 8,245.49            | 33.83           | 28.83       | 13.62                 | -175.33                          | -1,919.79 | 1,038.20             | 979.54                | 58.66                   | 17.698            |                    |         |
| 8,350.00                                                                             | 8,276.12            | 8,302.33            | 8,295.22            | 34.03           | 29.01       | 13.67                 | -175.33                          | -1,919.79 | 1,033.10             | 974.07                | 59.03                   | 17.500            |                    |         |
| 8,400.00                                                                             | 8,325.90            | 8,347.46            | 8,345.00            | 34.23           | 29.17       | 13.72                 | -175.33                          | -1,919.79 | 1,028.64             | 969.27                | 59.37                   | 17.326            |                    |         |
| 8,450.00                                                                             | 8,375.75            | 8,402.70            | 8,394.85            | 34.42           | 29.35       | 13.76                 | -175.33                          | -1,919.79 | 1,024.81             | 965.07                | 59.74                   | 17.154            |                    |         |
| 8,500.00                                                                             | 8,425.64            | 8,447.20            | 8,444.74            | 34.61           | 29.51       | 13.79                 | -175.33                          | -1,919.79 | 1,021.61             | 961.54                | 60.07                   | 17.006            |                    |         |
| 8,550.00                                                                             | 8,475.57            | 8,502.87            | 8,494.67            | 34.78           | 29.69       | 13.81                 | -175.33                          | -1,919.79 | 1,019.05             | 958.81                | 60.44                   | 16.860            |                    |         |
| 8,600.00                                                                             | 8,525.53            | 8,547.09            | 8,544.63            | 34.96           | 29.85       | 13.83                 | -175.33                          | -1,919.79 | 1,017.13             | 956.36                | 60.77                   | 16.737            |                    |         |
| 8,650.00                                                                             | 8,575.51            | 8,602.93            | 8,594.61            | 35.12           | 30.04       | 13.85                 | -175.33                          | -1,919.79 | 1,015.84             | 954.70                | 61.14                   | 16.616            |                    |         |
| 8,700.00                                                                             | 8,625.51            | 8,647.06            | 8,644.61            | 35.28           | 30.19       | 13.85                 | -175.33                          | -1,919.79 | 1,015.18             | 953.72                | 61.46                   | 16.518            |                    |         |
| 8,747.98                                                                             | 8,673.48            | 8,704.96            | 8,692.58            | 35.43           | 30.38       | 13.86                 | -175.33                          | -1,919.79 | 1,015.01             | 953.20                | 61.82                   | 16.419 CC         |                    |         |
| 8,750.00                                                                             | 8,675.51            | 8,702.94            | 8,694.61            | 35.44           | 30.38       | -88.61                | -175.33                          | -1,919.79 | 1,015.09             | 953.27                | 61.82                   | 16.420            |                    |         |
| 8,800.00                                                                             | 8,725.51            | 8,747.06            | 8,744.61            | 35.59           | 30.53       | -88.61                | -175.33                          | -1,919.79 | 1,015.09             | 952.96                | 62.14                   | 16.337            |                    |         |
| 8,850.00                                                                             | 8,775.51            | 8,797.06            | 8,794.61            | 35.74           | 30.70       | -88.61                | -175.33                          | -1,919.79 | 1,015.09             | 952.62                | 62.47                   | 16.248 ES         |                    |         |
| 8,900.00                                                                             | 8,825.51            | 8,831.60            | 8,829.14            | 35.89           | 30.81       | -88.57                | -174.72                          | -1,919.99 | 1,015.42             | 952.63                | 62.79                   | 16.172            |                    |         |
| 8,950.00                                                                             | 8,875.51            | 8,883.28            | 8,880.72            | 36.04           | 30.92       | -88.45                | -172.45                          | -1,920.69 | 1,016.63             | 953.54                | 63.09                   | 16.114            |                    |         |
| 9,000.00                                                                             | 8,925.51            | 8,900.00            | 8,897.10            | 36.19           | 31.04       | -88.18                | -167.75                          | -1,922.16 | 1,018.78             | 955.39                | 63.39                   | 16.071            |                    |         |
| 9,050.00                                                                             | 8,975.51            | 8,925.38            | 8,922.03            | 36.34           | 31.12       | -87.93                | -163.20                          | -1,923.58 | 1,021.83             | 958.19                | 63.64                   | 16.057            |                    |         |
| 9,100.00                                                                             | 9,025.50            | 8,950.00            | 8,945.99            | 36.49           | 31.19       | -87.06                | -157.79                          | -1,925.27 | 1,025.87             | 962.02                | 63.85                   | 16.067            |                    |         |
| 9,150.00                                                                             | 9,075.31            | 8,985.47            | 8,980.02            | 36.64           | 31.30       | -86.21                | -148.28                          | -1,928.25 | 1,030.66             | 966.58                | 64.09                   | 16.082            |                    |         |
| 9,200.00                                                                             | 9,124.55            | 9,015.25            | 9,008.07            | 36.78           | 31.38       | -85.41                | -138.75                          | -1,931.22 | 1,036.17             | 971.92                | 64.25                   | 16.126            |                    |         |
| 9,250.00                                                                             | 9,172.87            | 9,050.00            | 9,040.10            | 36.90           | 31.48       | -84.59                | -125.89                          | -1,935.24 | 1,042.32             | 977.89                | 64.42                   | 16.179            |                    |         |
| 9,300.00                                                                             | 9,219.88            | 9,074.38            | 9,062.06            | 37.02           | 31.55       | -83.84                | -115.77                          | -1,938.40 | 1,048.97             | 984.49                | 64.49                   | 16.266            |                    |         |
| 9,350.00                                                                             | 9,265.24            | 9,100.00            | 9,084.62            | 37.12           | 31.62       | -83.07                | -104.19                          | -1,942.02 | 1,056.15             | 991.61                | 64.54                   | 16.365            |                    |         |
| 9,400.00                                                                             | 9,308.60            | 9,133.00            | 9,112.84            | 37.21           | 31.71       | -82.33                | -87.88                           | -1,947.12 | 1,063.73             | 999.08                | 64.64                   | 16.456            |                    |         |
| 9,450.00                                                                             | 9,349.62            | 9,162.13            | 9,136.90            | 37.29           | 31.79       | -81.61                | -72.21                           | -1,952.01 | 1,071.68             | 1,006.97              | 64.71                   | 16.561            |                    |         |
| 9,500.00                                                                             | 9,387.99            | 9,191.16            | 9,160.01            | 37.36           | 31.87       | -80.93                | -55.45                           | -1,957.25 | 1,079.94             | 1,015.15              | 64.79                   | 16.668            |                    |         |
| 9,550.00                                                                             | 9,423.43            | 9,220.09            | 9,182.14            | 37.42           | 31.95       | -80.28                | -37.66                           | -1,962.80 | 1,088.46             | 1,023.56              | 64.89                   | 16.773            |                    |         |
| 9,600.00                                                                             | 9,455.66            | 9,250.00            | 9,203.99            | 37.48           | 32.03       | -79.68                | -18.17                           | -1,968.89 | 1,097.19             | 1,032.15              | 65.04                   | 16.870            |                    |         |
| 9,650.00                                                                             | 9,484.44            | 9,277.73            | 9,223.27            | 37.53           | 32.11       | -79.10                | 0.84                             | -1,974.83 | 1,106.08             | 1,040.88              | 65.20                   | 16.964            |                    |         |
| 9,700.00                                                                             | 9,509.55            | 9,300.00            | 9,238.05            | 37.58           | 32.18       | -78.48                | 16.75                            | -1,979.80 | 1,115.14             | 1,049.77              | 65.37                   | 17.058            |                    |         |
| 9,750.00                                                                             | 9,530.80            | 9,335.16            | 9,260.02            | 37.63           | 32.29       | -78.09                | 42.94                            | -1,987.99 | 1,124.24             | 1,058.54              | 65.71                   | 17.110            |                    |         |
| 9,800.00                                                                             | 9,548.02            | 9,363.84            | 9,276.68            | 37.69           | 32.39       | -77.65                | 65.22                            | -1,994.95 | 1,133.44             | 1,067.39              | 66.04                   | 17.162            |                    |         |
| 9,850.00                                                                             | 9,561.08            | 9,392.54            | 9,292.15            | 37.77           | 32.49       | -77.26                | 88.29                            | -2,002.15 | 1,142.68             | 1,076.24              | 66.44                   | 17.198            |                    |         |
| 9,900.00                                                                             | 9,569.90            | 9,421.28            | 9,306.41            | 37.86           | 32.60       | -76.91                | 112.10                           | -2,009.59 | 1,151.94             | 1,085.04              | 66.90                   | 17.220            |                    |         |
| 9,950.00                                                                             | 9,574.38            | 9,450.00            | 9,319.40            | 37.97           | 32.71       | -76.60                | 136.55                           | -2,017.23 | 1,161.21             | 1,093.80              | 67.40                   | 17.228            |                    |         |
| 10,000.00                                                                            | 9,575.00            | 9,479.11            | 9,331.24            | 38.11           | 32.84       | -76.77                | 161.94                           | -2,025.16 | 1,170.57             | 1,102.62              | 67.95                   | 17.226            |                    |         |
| 10,050.00                                                                            | 9,575.00            | 9,509.24            | 9,342.05            | 38.28           | 32.97       | -77.38                | 188.77                           | -2,033.55 | 1,180.73             | 1,112.19              | 68.54                   | 17.227            |                    |         |
| 10,100.00                                                                            | 9,575.00            | 9,540.53            | 9,351.70            | 38.47           | 33.12       | -77.94                | 217.18                           | -2,042.42 | 1,191.74             | 1,122.61              | 69.13                   | 17.238            |                    |         |
| 10,150.00                                                                            | 9,575.00            | 9,572.86            | 9,359.94            | 38.69           | 33.28       | -78.43                | 247.02                           | -2,051.74 | 1,203.52             | 1,133.76              | 69.76                   | 17.251            |                    |         |
| 10,200.00                                                                            | 9,575.00            | 9,606.07            | 9,366.57            | 38.94           | 33.45       | -78.84                | 278.07                           | -2,061.45 | 1,215.98             | 1,145.59              | 70.40                   | 17.273            |                    |         |
| 10,250.00                                                                            | 9,575.00            | 9,639.96            | 9,371.37            | 39.21           | 33.64       | -79.16                | 310.09                           | -2,071.45 | 1,229.07             | 1,158.00              | 71.06                   | 17.295            |                    |         |
| 10,300.00                                                                            | 9,575.00            | 9,674.30            | 9,374.20            | 39.51           | 33.84       | -79.38                | 342.75                           | -2,081.65 | 1,242.72             | 1,170.99              | 71.73                   | 17.324            |                    |         |
| 10,350.00                                                                            | 9,575.00            | 9,748.91            | 9,375.00            | 39.84           | 34.31       | -79.60                | 414.15                           | -2,103.24 | 1,256.81             | 1,184.25              | 72.56                   | 17.321            |                    |         |
| 10,400.00                                                                            | 9,575.00            | 10,120.66           | 9,375.00            | 40.18           | 37.21       | -80.01                | 781.12                           | -2,155.72 | 1,263.52             | 1,189.19              | 74.34                   | 16.997            |                    |         |
| 10,450.00                                                                            | 9,575.00            | 10,177.69           | 9,375.00            | 40.55           | 37.72       | -80.01                | 838.15                           | -2,156.12 | 1,263.54             | 1,188.32              | 75.22                   | 16.798            |                    |         |
| 10,500.00                                                                            | 9,575.00            | 10,227.69           | 9,375.00            | 40.94           | 38.18       | -80.01                | 888.15                           | -2,156.45 | 1,263.55             | 1,187.45              | 76.10                   | 16.804            |                    |         |
| 10,550.00                                                                            | 9,575.00            | 10,277.69           | 9,375.00            | 41.36           | 38.66       | -80.01                | 938.15                           | -2,156.78 | 1,263.55             | 1,186.52              | 77.03                   | 16.403            |                    |         |

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

# Anticollision Report

Company: WCDSC Permian NM  
Project: Lea County (NAD83 New Mexico East)  
Reference Site: Sec 08-T25S-R33E  
Site Error: 0.00 ft  
Reference Well: Flagler 8 Fed 38H  
Well Error: 0.50 ft  
Reference Wellbore: Wellbore #1  
Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
TVD Reference: RKB @ 3472.50ft  
MD Reference: RKB @ 3472.50ft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Output errors are at: 2.00 sigma  
Database: EDM r5000.141\_Prod US  
Offset TVD Reference: Offset Datum

| Offset Design - Sec 08-T25S-R33E - Flagler 8 Fed Com 36H - Wellbore #1 - Permit Plan 1 |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Site Error: 0.00 ft |
|----------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|----------------------------------|-----------|----------------------|-----------------------|-------------------------|-------------------|----------------------------|
| Survey Program: 0-MWD+IGRF                                                             |                     |                     |                     |                 |             |                       |                                  |           |                      |                       |                         |                   | Offset Well Error: 0.50 ft |
| Reference                                                                              |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                         |           |                      |                       |                         |                   | Warning                    |
| Measured Depth (ft)                                                                    | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N-S (ft) | +E-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                            |
| 10,600.00                                                                              | 9,575.00            | 10,327.69           | 9,375.00            | 41.78           | 39.15       | -80.01                | 988.15                           | -2,157.12 | 1,263.56             | 1,185.58              | 77.98                   | 16.204            |                            |
| 10,650.00                                                                              | 9,575.00            | 10,377.69           | 9,375.00            | 42.24           | 39.67       | -80.01                | 1,038.14                         | -2,157.45 | 1,263.57             | 1,184.59              | 78.98                   | 15.999            |                            |
| 10,700.00                                                                              | 9,575.00            | 10,427.69           | 9,375.00            | 42.70           | 40.20       | -80.01                | 1,088.14                         | -2,157.78 | 1,263.58             | 1,183.58              | 80.00                   | 15.795            |                            |
| 10,750.00                                                                              | 9,575.00            | 10,477.69           | 9,375.00            | 43.19           | 40.74       | -80.01                | 1,138.14                         | -2,158.11 | 1,263.59             | 1,182.53              | 81.06                   | 15.588            |                            |
| 10,800.00                                                                              | 9,575.00            | 10,527.69           | 9,375.00            | 43.69           | 41.30       | -80.01                | 1,188.14                         | -2,158.44 | 1,263.60             | 1,181.46              | 82.14                   | 15.384            |                            |
| 10,850.00                                                                              | 9,575.00            | 10,577.69           | 9,375.00            | 44.21           | 41.88       | -80.01                | 1,238.14                         | -2,158.77 | 1,263.61             | 1,180.35              | 83.26                   | 15.176            |                            |
| 10,900.00                                                                              | 9,575.00            | 10,627.69           | 9,375.00            | 44.74           | 42.47       | -80.01                | 1,288.14                         | -2,159.11 | 1,263.62             | 1,179.22              | 84.40                   | 14.972            |                            |
| 10,950.00                                                                              | 9,575.00            | 10,677.69           | 9,375.00            | 45.29           | 43.07       | -80.02                | 1,338.14                         | -2,159.44 | 1,263.62             | 1,178.05              | 85.57                   | 14.767            |                            |
| 11,000.00                                                                              | 9,575.00            | 10,727.69           | 9,375.00            | 45.85           | 43.68       | -80.02                | 1,388.14                         | -2,159.77 | 1,263.63             | 1,176.87              | 86.76                   | 14.564            |                            |
| 11,050.00                                                                              | 9,575.00            | 10,777.69           | 9,375.00            | 46.43           | 44.31       | -80.02                | 1,438.14                         | -2,160.10 | 1,263.64             | 1,175.65              | 87.99                   | 14.361            |                            |
| 11,100.00                                                                              | 9,575.00            | 10,827.69           | 9,375.00            | 47.01           | 44.95       | -80.02                | 1,488.14                         | -2,160.43 | 1,263.65             | 1,174.42              | 89.23                   | 14.162            |                            |
| 11,150.00                                                                              | 9,575.00            | 10,877.69           | 9,375.00            | 47.61           | 45.60       | -80.02                | 1,538.13                         | -2,160.76 | 1,263.66             | 1,173.16              | 90.50                   | 13.963            |                            |
| 11,200.00                                                                              | 9,575.00            | 10,927.69           | 9,375.00            | 48.22           | 46.26       | -80.02                | 1,588.13                         | -2,161.09 | 1,263.67             | 1,171.89              | 91.78                   | 13.768            |                            |
| 11,250.00                                                                              | 9,575.00            | 10,977.69           | 9,375.00            | 48.85           | 46.93       | -80.02                | 1,638.13                         | -2,161.43 | 1,263.68             | 1,170.58              | 93.09                   | 13.574            |                            |
| 11,300.00                                                                              | 9,575.00            | 11,027.69           | 9,375.00            | 49.48           | 47.61       | -80.02                | 1,688.13                         | -2,161.76 | 1,263.69             | 1,169.27              | 94.42                   | 13.384            |                            |
| 11,350.00                                                                              | 9,575.00            | 11,077.69           | 9,375.00            | 50.13           | 48.30       | -80.02                | 1,738.13                         | -2,162.09 | 1,263.70             | 1,167.93              | 95.77                   | 13.195            |                            |
| 11,400.00                                                                              | 9,575.00            | 11,127.69           | 9,375.00            | 50.78           | 49.00       | -80.02                | 1,788.13                         | -2,162.42 | 1,263.70             | 1,166.57              | 97.13                   | 13.010            |                            |
| 11,450.00                                                                              | 9,575.00            | 11,177.69           | 9,375.00            | 51.45           | 49.71       | -80.02                | 1,838.13                         | -2,162.75 | 1,263.71             | 1,165.19              | 98.52                   | 12.827            |                            |
| 11,500.00                                                                              | 9,575.00            | 11,227.69           | 9,375.00            | 52.12           | 50.43       | -80.02                | 1,888.13                         | -2,163.08 | 1,263.72             | 1,163.81              | 99.92                   | 12.648            |                            |
| 11,550.00                                                                              | 9,575.00            | 11,277.69           | 9,375.00            | 52.80           | 51.15       | -80.02                | 1,938.13                         | -2,163.42 | 1,263.73             | 1,162.40              | 101.34                  | 12.471            |                            |
| 11,600.00                                                                              | 9,575.00            | 11,327.69           | 9,375.00            | 53.49           | 51.89       | -80.02                | 1,988.12                         | -2,163.75 | 1,263.74             | 1,160.98              | 102.76                  | 12.298            |                            |
| 11,650.00                                                                              | 9,575.00            | 11,377.69           | 9,375.00            | 54.19           | 52.63       | -80.02                | 2,038.12                         | -2,164.08 | 1,263.75             | 1,159.53              | 104.21                  | 12.127            |                            |
| 11,700.00                                                                              | 9,575.00            | 11,427.69           | 9,375.00            | 54.89           | 53.37       | -80.02                | 2,088.12                         | -2,164.41 | 1,263.76             | 1,158.09              | 105.67                  | 11.959            |                            |
| 11,750.00                                                                              | 9,575.00            | 11,477.69           | 9,375.00            | 55.61           | 54.13       | -80.02                | 2,138.12                         | -2,164.74 | 1,263.77             | 1,156.62              | 107.15                  | 11.795            |                            |
| 11,800.00                                                                              | 9,575.00            | 11,527.69           | 9,375.00            | 56.33           | 54.89       | -80.02                | 2,188.12                         | -2,165.07 | 1,263.77             | 1,155.14              | 108.63                  | 11.633            |                            |
| 11,850.00                                                                              | 9,575.00            | 11,577.69           | 9,375.00            | 57.06           | 55.65       | -80.02                | 2,238.12                         | -2,165.41 | 1,263.78             | 1,153.65              | 110.14                  | 11.475            |                            |
| 11,900.00                                                                              | 9,575.00            | 11,627.69           | 9,375.00            | 57.80           | 56.43       | -80.02                | 2,288.12                         | -2,165.74 | 1,263.79             | 1,152.15              | 111.65                  | 11.320            |                            |
| 11,950.00                                                                              | 9,575.00            | 11,677.69           | 9,375.00            | 58.54           | 57.20       | -80.02                | 2,338.12                         | -2,166.07 | 1,263.80             | 1,150.63              | 113.17                  | 11.167            |                            |
| 12,000.00                                                                              | 9,575.00            | 11,727.69           | 9,375.00            | 59.29           | 57.99       | -80.02                | 2,388.12                         | -2,166.40 | 1,263.81             | 1,149.11              | 114.70                  | 11.018            |                            |
| 12,050.00                                                                              | 9,575.00            | 11,777.69           | 9,375.00            | 60.04           | 58.78       | -80.02                | 2,438.11                         | -2,166.73 | 1,263.82             | 1,147.57              | 116.25                  | 10.871            |                            |
| 12,100.00                                                                              | 9,575.00            | 11,827.69           | 9,375.00            | 60.80           | 59.57       | -80.02                | 2,488.11                         | -2,167.06 | 1,263.83             | 1,146.02              | 117.80                  | 10.728            |                            |
| 12,150.00                                                                              | 9,575.00            | 11,877.69           | 9,375.00            | 61.57           | 60.37       | -80.02                | 2,538.11                         | -2,167.40 | 1,263.84             | 1,144.46              | 119.37                  | 10.587            |                            |
| 12,200.00                                                                              | 9,575.00            | 11,927.69           | 9,375.00            | 62.34           | 61.17       | -80.02                | 2,588.11                         | -2,167.73 | 1,263.84             | 1,142.90              | 120.94                  | 10.450            |                            |
| 12,250.00                                                                              | 9,575.00            | 11,977.69           | 9,375.00            | 63.11           | 61.98       | -80.02                | 2,638.11                         | -2,168.06 | 1,263.85             | 1,141.32              | 122.53                  | 10.315            |                            |
| 12,300.00                                                                              | 9,575.00            | 12,027.69           | 9,375.00            | 63.89           | 62.79       | -80.02                | 2,688.11                         | -2,168.39 | 1,263.86             | 1,139.74              | 124.12                  | 10.182            |                            |
| 12,350.00                                                                              | 9,575.00            | 12,077.69           | 9,375.00            | 64.68           | 63.61       | -80.02                | 2,738.11                         | -2,168.72 | 1,263.87             | 1,138.15              | 125.72                  | 10.053            |                            |
| 12,400.00                                                                              | 9,575.00            | 12,127.69           | 9,375.00            | 65.47           | 64.43       | -80.02                | 2,788.11                         | -2,169.05 | 1,263.88             | 1,136.55              | 127.33                  | 9.926             |                            |
| 12,450.00                                                                              | 9,575.00            | 12,177.69           | 9,375.00            | 66.27           | 65.25       | -80.02                | 2,838.11                         | -2,169.39 | 1,263.89             | 1,134.94              | 128.95                  | 9.801             |                            |
| 12,500.00                                                                              | 9,575.00            | 12,227.69           | 9,375.00            | 67.06           | 66.08       | -80.02                | 2,888.10                         | -2,169.72 | 1,263.90             | 1,133.32              | 130.57                  | 9.680             |                            |
| 12,550.00                                                                              | 9,575.00            | 12,277.69           | 9,375.00            | 67.87           | 66.91       | -80.02                | 2,938.10                         | -2,170.05 | 1,263.91             | 1,131.70              | 132.21                  | 9.560             |                            |
| 12,600.00                                                                              | 9,575.00            | 12,327.69           | 9,375.00            | 68.68           | 67.74       | -80.02                | 2,988.10                         | -2,170.38 | 1,263.92             | 1,130.07              | 133.84                  | 9.443             |                            |
| 12,650.00                                                                              | 9,575.00            | 12,377.69           | 9,375.00            | 69.49           | 68.58       | -80.02                | 3,038.10                         | -2,170.71 | 1,263.92             | 1,128.43              | 135.49                  | 9.329             |                            |
| 12,700.00                                                                              | 9,575.00            | 12,427.69           | 9,375.00            | 70.30           | 69.42       | -80.02                | 3,088.10                         | -2,171.04 | 1,263.93             | 1,126.79              | 137.14                  | 9.216             |                            |
| 12,750.00                                                                              | 9,575.00            | 12,477.69           | 9,375.00            | 71.12           | 70.27       | -80.02                | 3,138.10                         | -2,171.37 | 1,263.94             | 1,125.14              | 138.80                  | 9.106             |                            |
| 12,800.00                                                                              | 9,575.00            | 12,527.69           | 9,375.00            | 71.94           | 71.11       | -80.02                | 3,188.10                         | -2,171.71 | 1,263.95             | 1,123.49              | 140.46                  | 8.998             |                            |
| 12,850.00                                                                              | 9,575.00            | 12,577.69           | 9,375.00            | 72.77           | 71.96       | -80.02                | 3,238.10                         | -2,172.04 | 1,263.96             | 1,121.83              | 142.13                  | 8.893             |                            |
| 12,900.00                                                                              | 9,575.00            | 12,627.69           | 9,375.00            | 73.60           | 72.82       | -80.02                | 3,288.10                         | -2,172.37 | 1,263.97             | 1,120.16              | 143.81                  | 8.789             |                            |
| 12,950.00                                                                              | 9,575.00            | 12,677.69           | 9,375.00            | 74.43           | 73.67       | -80.02                | 3,338.09                         | -2,172.70 | 1,263.98             | 1,118.49              | 145.49                  | 8.688             |                            |
| 13,000.00                                                                              | 9,575.00            | 12,727.69           | 9,375.00            | 75.26           | 74.53       | -80.02                | 3,388.09                         | -2,173.03 | 1,263.99             | 1,116.81              | 147.17                  | 8.588             |                            |
| 13,050.00                                                                              | 9,575.00            | 12,777.69           | 9,375.00            | 76.10           | 75.39       | -80.02                | 3,438.09                         | -2,173.36 | 1,263.99             | 1,115.13              | 148.87                  | 8.491             |                            |
| 13,100.00                                                                              | 9,575.00            | 12,827.69           | 9,375.00            | 76.94           | 76.25       | -80.02                | 3,488.09                         | -2,173.70 | 1,264.00             | 1,113.44              | 150.56                  | 8.395             |                            |
| 13,150.00                                                                              | 9,575.00            | 12,877.69           | 9,375.00            | 77.79           | 77.12       | -80.02                | 3,538.09                         | -2,174.03 | 1,264.01             | 1,111.75              | 152.26                  | 8.301             |                            |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler 8 Fed Com 36H - Wellbore #1 - Permit Plan 1 |                           |                           |                           |                   |                |                             |                        |               |                            |                             |                               |                      | Offset Site Error: | 0.00 ft |
|--------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-MWD+IGRF                                                           |                           |                           |                           |                   |                |                             |                        |               |                            |                             |                               |                      | Offset Well Error: | 0.50 ft |
| Reference                                                                            |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |               | Distance                   |                             |                               |                      | Warning            |         |
| Measured<br>Depth<br>(ft)                                                            | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | +N/-S<br>(ft)          | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |         |
| 13,200.00                                                                            | 9,575.00                  | 12,927.69                 | 9,375.00                  | 78.63             | 77.98          | -80.02                      | 3,588.09               | -2,174.36     | 1,264.02                   | 1,110.05                    | 153.97                        | 8.210                |                    |         |
| 13,250.00                                                                            | 9,575.00                  | 12,977.69                 | 9,375.00                  | 79.48             | 78.85          | -80.02                      | 3,638.09               | -2,174.69     | 1,264.03                   | 1,108.35                    | 155.68                        | 8.119                |                    |         |
| 13,300.00                                                                            | 9,575.00                  | 13,027.69                 | 9,375.00                  | 80.33             | 79.72          | -80.02                      | 3,688.09               | -2,175.02     | 1,264.04                   | 1,106.65                    | 157.39                        | 8.031                |                    |         |
| 13,350.00                                                                            | 9,575.00                  | 13,077.69                 | 9,375.00                  | 81.19             | 80.60          | -80.02                      | 3,738.09               | -2,175.35     | 1,264.05                   | 1,104.94                    | 159.11                        | 7.944                |                    |         |
| 13,400.00                                                                            | 9,575.00                  | 13,127.69                 | 9,375.00                  | 82.04             | 81.47          | -80.02                      | 3,788.08               | -2,175.69     | 1,264.06                   | 1,103.22                    | 160.83                        | 7.860                |                    |         |
| 13,450.00                                                                            | 9,575.00                  | 13,177.69                 | 9,375.00                  | 82.90             | 82.35          | -80.02                      | 3,838.08               | -2,176.02     | 1,264.07                   | 1,101.51                    | 162.56                        | 7.776                |                    |         |
| 13,500.00                                                                            | 9,575.00                  | 13,227.69                 | 9,375.00                  | 83.76             | 83.23          | -80.02                      | 3,888.08               | -2,176.35     | 1,264.07                   | 1,099.79                    | 164.29                        | 7.694                |                    |         |
| 13,550.00                                                                            | 9,575.00                  | 13,277.69                 | 9,375.00                  | 84.62             | 84.11          | -80.02                      | 3,938.08               | -2,176.68     | 1,264.08                   | 1,098.06                    | 166.02                        | 7.614                |                    |         |
| 13,600.00                                                                            | 9,575.00                  | 13,327.69                 | 9,375.00                  | 85.49             | 84.99          | -80.02                      | 3,988.08               | -2,177.01     | 1,264.09                   | 1,096.33                    | 167.76                        | 7.535                |                    |         |
| 13,650.00                                                                            | 9,575.00                  | 13,377.69                 | 9,375.00                  | 86.35             | 85.88          | -80.02                      | 4,038.08               | -2,177.34     | 1,264.10                   | 1,094.60                    | 169.50                        | 7.458                |                    |         |
| 13,700.00                                                                            | 9,575.00                  | 13,427.69                 | 9,375.00                  | 87.22             | 86.76          | -80.02                      | 4,088.08               | -2,177.68     | 1,264.11                   | 1,092.87                    | 171.24                        | 7.382                |                    |         |
| 13,750.00                                                                            | 9,575.00                  | 13,477.69                 | 9,375.00                  | 88.09             | 87.65          | -80.02                      | 4,138.08               | -2,178.01     | 1,264.12                   | 1,091.13                    | 172.99                        | 7.308                |                    |         |
| 13,800.00                                                                            | 9,575.00                  | 13,527.69                 | 9,375.00                  | 88.96             | 88.54          | -80.02                      | 4,188.08               | -2,178.34     | 1,264.13                   | 1,089.39                    | 174.74                        | 7.234                |                    |         |
| 13,850.00                                                                            | 9,575.00                  | 13,577.69                 | 9,375.00                  | 89.84             | 89.43          | -80.02                      | 4,238.07               | -2,178.67     | 1,264.14                   | 1,087.65                    | 176.49                        | 7.163                |                    |         |
| 13,900.00                                                                            | 9,575.00                  | 13,627.69                 | 9,375.00                  | 90.71             | 90.32          | -80.02                      | 4,288.07               | -2,179.00     | 1,264.14                   | 1,085.90                    | 178.25                        | 7.092                |                    |         |
| 13,950.00                                                                            | 9,575.00                  | 13,677.69                 | 9,375.00                  | 91.59             | 91.21          | -80.02                      | 4,338.07               | -2,179.33     | 1,264.15                   | 1,084.15                    | 180.00                        | 7.023                |                    |         |
| 14,000.00                                                                            | 9,575.00                  | 13,727.69                 | 9,375.00                  | 92.47             | 92.11          | -80.02                      | 4,388.07               | -2,179.66     | 1,264.16                   | 1,082.40                    | 181.77                        | 6.955                |                    |         |
| 14,050.00                                                                            | 9,575.00                  | 13,777.69                 | 9,375.00                  | 93.35             | 93.00          | -80.02                      | 4,438.07               | -2,180.00     | 1,264.17                   | 1,080.64                    | 183.53                        | 6.888                |                    |         |
| 14,100.00                                                                            | 9,575.00                  | 13,827.69                 | 9,375.00                  | 94.23             | 93.90          | -80.02                      | 4,488.07               | -2,180.33     | 1,264.18                   | 1,078.88                    | 185.30                        | 6.822                |                    |         |
| 14,150.00                                                                            | 9,575.00                  | 13,877.69                 | 9,375.00                  | 95.12             | 94.80          | -80.02                      | 4,538.07               | -2,180.66     | 1,264.19                   | 1,077.12                    | 187.07                        | 6.758                |                    |         |
| 14,200.00                                                                            | 9,575.00                  | 13,896.34                 | 9,375.00                  | 96.00             | 95.14          | -80.02                      | 4,556.72               | -2,180.78     | 1,264.59                   | 1,075.92                    | 188.66                        | 6.703                |                    |         |
| 14,250.00                                                                            | 9,575.00                  | 13,896.34                 | 9,375.00                  | 96.89             | 95.14          | -80.02                      | 4,556.72               | -2,180.78     | 1,266.82                   | 1,076.86                    | 189.96                        | 6.669                |                    |         |
| 14,300.00                                                                            | 9,575.00                  | 13,896.34                 | 9,375.00                  | 97.78             | 95.14          | -80.02                      | 4,556.72               | -2,180.78     | 1,271.02                   | 1,080.02                    | 191.00                        | 6.655 SF             |                    |         |
| 14,350.00                                                                            | 9,575.00                  | 13,896.34                 | 9,375.00                  | 98.67             | 95.14          | -80.02                      | 4,556.72               | -2,180.78     | 1,277.16                   | 1,085.38                    | 191.79                        | 6.659                |                    |         |
| 14,400.00                                                                            | 9,575.00                  | 13,896.34                 | 9,375.00                  | 99.56             | 95.14          | -80.02                      | 4,556.72               | -2,180.78     | 1,285.23                   | 1,092.91                    | 192.32                        | 6.683                |                    |         |
| 14,450.00                                                                            | 9,575.00                  | 13,896.34                 | 9,375.00                  | 100.45            | 95.14          | -80.02                      | 4,556.72               | -2,180.78     | 1,295.17                   | 1,102.56                    | 192.61                        | 6.724                |                    |         |
| 14,477.32                                                                            | 9,575.00                  | 13,896.34                 | 9,375.00                  | 100.94            | 95.14          | -80.02                      | 4,556.72               | -2,180.78     | 1,301.38                   | 1,108.71                    | 192.67                        | 6.754                |                    |         |

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design      Sec 08-T25S-R33E - Flagler 8 Fed Com 6H - Wellbore #1 - Permit Plan 1 |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Site Error: | 0.00 ft |
|------------------------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program:    0-MWD+IGRF                                                            |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Well Error: | 0.50 ft |
| Reference                                                                                |                           | Offset                    |                           | Semi Major Axis   |                | Distance                    |                                         |               |                            |                             |                               |                      | Warning            |         |
| Measured Depth<br>Depth<br>(ft)                                                          | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |         |
| 7,150.00                                                                                 | 7,091.78                  | 7,116.67                  | 7,113.47                  | 28.51             | 24.80          | 5.86                        | -328.21                                 | -2,181.67     | 1,492.49                   | 1,442.32                    | 50.16                         | 29.752               |                    |         |
| 7,200.00                                                                                 | 7,141.07                  | 7,165.96                  | 7,162.68                  | 28.75             | 24.97          | 5.78                        | -331.01                                 | -2,181.50     | 1,484.30                   | 1,433.78                    | 50.52                         | 29.381               |                    |         |
| 7,250.00                                                                                 | 7,190.36                  | 7,215.25                  | 7,211.89                  | 28.98             | 25.14          | 5.71                        | -333.81                                 | -2,181.34     | 1,476.12                   | 1,425.25                    | 50.87                         | 29.015               |                    |         |
| 7,300.00                                                                                 | 7,239.65                  | 7,264.53                  | 7,261.09                  | 29.21             | 25.31          | 5.63                        | -336.61                                 | -2,181.17     | 1,467.94                   | 1,416.71                    | 51.23                         | 28.654               |                    |         |
| 7,350.00                                                                                 | 7,288.94                  | 7,314.51                  | 7,310.99                  | 29.44             | 25.49          | 5.55                        | -339.35                                 | -2,181.01     | 1,459.76                   | 1,408.17                    | 51.59                         | 28.297               |                    |         |
| 7,400.00                                                                                 | 7,338.23                  | 7,365.03                  | 7,361.47                  | 29.68             | 25.66          | 5.50                        | -341.51                                 | -2,180.88     | 1,451.54                   | 1,399.60                    | 51.94                         | 27.944               |                    |         |
| 7,450.00                                                                                 | 7,387.52                  | 7,415.57                  | 7,411.98                  | 29.91             | 25.84          | 5.47                        | -343.01                                 | -2,180.79     | 1,443.28                   | 1,390.98                    | 52.30                         | 27.595               |                    |         |
| 7,500.00                                                                                 | 7,436.81                  | 7,466.10                  | 7,462.51                  | 30.14             | 26.01          | 5.47                        | -343.84                                 | -2,180.75     | 1,434.98                   | 1,382.32                    | 52.66                         | 27.249               |                    |         |
| 7,550.00                                                                                 | 7,486.10                  | 7,516.30                  | 7,512.70                  | 30.38             | 26.19          | 5.49                        | -344.02                                 | -2,180.73     | 1,426.64                   | 1,373.62                    | 53.02                         | 26.907               |                    |         |
| 7,600.00                                                                                 | 7,535.40                  | 7,565.59                  | 7,562.00                  | 30.61             | 26.36          | 5.53                        | -344.02                                 | -2,180.73     | 1,418.29                   | 1,364.91                    | 53.38                         | 26.570               |                    |         |
| 7,650.00                                                                                 | 7,584.69                  | 7,614.88                  | 7,611.29                  | 30.85             | 26.54          | 5.56                        | -344.02                                 | -2,180.73     | 1,409.93                   | 1,356.20                    | 53.74                         | 26.236               |                    |         |
| 7,700.00                                                                                 | 7,633.98                  | 7,664.17                  | 7,660.58                  | 31.08             | 26.71          | 5.59                        | -344.02                                 | -2,180.73     | 1,401.58                   | 1,347.48                    | 54.10                         | 25.908               |                    |         |
| 7,750.00                                                                                 | 7,683.27                  | 7,713.46                  | 7,709.87                  | 31.31             | 26.88          | 5.63                        | -344.02                                 | -2,180.73     | 1,393.23                   | 1,338.77                    | 54.46                         | 25.583               |                    |         |
| 7,800.00                                                                                 | 7,732.56                  | 7,762.75                  | 7,759.16                  | 31.55             | 27.06          | 5.66                        | -344.02                                 | -2,180.73     | 1,384.88                   | 1,330.06                    | 54.82                         | 25.263               |                    |         |
| 7,850.00                                                                                 | 7,781.85                  | 7,812.05                  | 7,808.45                  | 31.78             | 27.23          | 5.69                        | -344.02                                 | -2,180.73     | 1,376.53                   | 1,321.35                    | 55.18                         | 24.947               |                    |         |
| 7,900.00                                                                                 | 7,831.14                  | 7,861.34                  | 7,857.74                  | 32.02             | 27.41          | 5.73                        | -344.02                                 | -2,180.73     | 1,368.18                   | 1,312.64                    | 55.54                         | 24.635               |                    |         |
| 7,950.00                                                                                 | 7,880.43                  | 7,910.63                  | 7,907.03                  | 32.25             | 27.58          | 5.76                        | -344.02                                 | -2,180.73     | 1,359.83                   | 1,303.93                    | 55.90                         | 24.327               |                    |         |
| 8,000.00                                                                                 | 7,929.72                  | 7,959.92                  | 7,956.32                  | 32.48             | 27.76          | 5.80                        | -344.02                                 | -2,180.73     | 1,351.48                   | 1,295.23                    | 56.26                         | 24.022               |                    |         |
| 8,050.00                                                                                 | 7,979.01                  | 8,009.21                  | 8,005.61                  | 32.72             | 27.93          | 5.84                        | -344.02                                 | -2,180.73     | 1,343.14                   | 1,286.52                    | 56.62                         | 23.722               |                    |         |
| 8,100.00                                                                                 | 8,028.31                  | 8,058.51                  | 8,054.91                  | 32.95             | 28.10          | 5.87                        | -344.02                                 | -2,180.73     | 1,334.83                   | 1,277.85                    | 56.98                         | 23.426               |                    |         |
| 8,150.00                                                                                 | 8,077.69                  | 8,107.89                  | 8,104.29                  | 33.18             | 28.28          | 5.89                        | -344.02                                 | -2,180.73     | 1,327.03                   | 1,269.69                    | 57.34                         | 23.143               |                    |         |
| 8,200.00                                                                                 | 8,127.17                  | 8,157.37                  | 8,153.77                  | 33.40             | 28.45          | 5.91                        | -344.02                                 | -2,180.73     | 1,319.87                   | 1,262.17                    | 57.70                         | 22.875               |                    |         |
| 8,250.00                                                                                 | 8,176.74                  | 8,206.94                  | 8,203.34                  | 33.62             | 28.63          | 5.93                        | -344.02                                 | -2,180.73     | 1,313.36                   | 1,255.30                    | 58.06                         | 22.621               |                    |         |
| 8,300.00                                                                                 | 8,226.39                  | 8,256.59                  | 8,252.99                  | 33.83             | 28.80          | 5.95                        | -344.02                                 | -2,180.73     | 1,307.49                   | 1,249.08                    | 58.42                         | 22.382               |                    |         |
| 8,350.00                                                                                 | 8,276.12                  | 8,306.31                  | 8,302.72                  | 34.03             | 28.98          | 5.96                        | -344.02                                 | -2,180.73     | 1,302.28                   | 1,243.50                    | 58.78                         | 22.157               |                    |         |
| 8,400.00                                                                                 | 8,325.90                  | 8,356.10                  | 8,352.50                  | 34.23             | 29.16          | 5.98                        | -344.02                                 | -2,180.73     | 1,297.71                   | 1,238.57                    | 59.13                         | 21.945               |                    |         |
| 8,450.00                                                                                 | 8,375.75                  | 8,405.94                  | 8,402.35                  | 34.42             | 29.33          | 5.99                        | -344.02                                 | -2,180.73     | 1,293.79                   | 1,234.30                    | 59.49                         | 21.748               |                    |         |
| 8,500.00                                                                                 | 8,425.64                  | 8,455.83                  | 8,452.24                  | 34.61             | 29.51          | 6.00                        | -344.02                                 | -2,180.73     | 1,290.51                   | 1,230.67                    | 59.85                         | 21.564               |                    |         |
| 8,550.00                                                                                 | 8,475.57                  | 8,505.76                  | 8,502.17                  | 34.78             | 29.69          | 6.01                        | -344.02                                 | -2,180.73     | 1,287.89                   | 1,227.69                    | 60.20                         | 21.394               |                    |         |
| 8,600.00                                                                                 | 8,525.53                  | 8,555.72                  | 8,552.13                  | 34.96             | 29.86          | 6.01                        | -344.02                                 | -2,180.73     | 1,285.92                   | 1,225.37                    | 60.55                         | 21.236               |                    |         |
| 8,650.00                                                                                 | 8,575.51                  | 8,605.71                  | 8,602.11                  | 35.12             | 30.04          | 6.02                        | -344.02                                 | -2,180.73     | 1,284.60                   | 1,223.69                    | 60.91                         | 21.092               |                    |         |
| 8,700.00                                                                                 | 8,625.51                  | 8,655.70                  | 8,652.11                  | 35.28             | 30.22          | 6.02                        | -344.02                                 | -2,180.73     | 1,283.93                   | 1,222.67                    | 61.26                         | 20.960               |                    |         |
| 8,747.98                                                                                 | 8,673.48                  | 8,703.68                  | 8,700.08                  | 35.43             | 30.39          | 6.02                        | -344.02                                 | -2,180.73     | 1,283.76                   | 1,222.17                    | 61.59                         | 20.844 CC            |                    |         |
| 8,750.00                                                                                 | 8,675.51                  | 8,705.70                  | 8,702.11                  | 35.44             | 30.39          | -96.44                      | -344.02                                 | -2,180.73     | 1,283.84                   | 1,222.23                    | 61.60                         | 20.840               |                    |         |
| 8,800.00                                                                                 | 8,725.51                  | 8,755.70                  | 8,752.11                  | 35.59             | 30.57          | -96.44                      | -344.02                                 | -2,180.73     | 1,283.84                   | 1,221.89                    | 61.95                         | 20.724               |                    |         |
| 8,850.00                                                                                 | 8,775.51                  | 8,805.70                  | 8,802.11                  | 35.74             | 30.75          | -96.44                      | -344.02                                 | -2,180.73     | 1,283.84                   | 1,221.54                    | 62.29                         | 20.609               |                    |         |
| 8,900.00                                                                                 | 8,825.51                  | 8,855.70                  | 8,852.11                  | 35.89             | 30.92          | -96.44                      | -344.02                                 | -2,180.73     | 1,283.84                   | 1,221.20                    | 62.64                         | 20.496               |                    |         |
| 8,950.00                                                                                 | 8,875.51                  | 8,905.70                  | 8,902.11                  | 36.04             | 31.10          | -96.44                      | -344.02                                 | -2,180.73     | 1,283.84                   | 1,220.85                    | 62.98                         | 20.383               |                    |         |
| 9,000.00                                                                                 | 8,925.51                  | 8,955.70                  | 8,952.11                  | 36.19             | 31.28          | -96.44                      | -344.02                                 | -2,180.73     | 1,283.84                   | 1,220.51                    | 63.33                         | 20.272               |                    |         |
| 9,050.00                                                                                 | 8,975.51                  | 9,005.70                  | 9,002.11                  | 36.34             | 31.46          | -96.44                      | -344.02                                 | -2,180.73     | 1,283.84                   | 1,220.16                    | 63.68                         | 20.162               |                    |         |
| 9,050.86                                                                                 | 8,976.37                  | 9,006.56                  | 9,002.97                  | 36.35             | 31.46          | -96.07                      | -344.02                                 | -2,180.73     | 1,283.84                   | 1,220.16                    | 63.68                         | 20.160               |                    |         |
| 9,100.00                                                                                 | 9,025.50                  | 9,055.70                  | 9,052.10                  | 36.49             | 31.63          | -96.09                      | -344.02                                 | -2,180.73     | 1,283.89                   | 1,219.87                    | 64.02                         | 20.054 ES            |                    |         |
| 9,150.00                                                                                 | 9,075.31                  | 9,105.50                  | 9,101.91                  | 36.64             | 31.81          | -96.23                      | -344.02                                 | -2,180.73     | 1,284.34                   | 1,219.99                    | 64.36                         | 19.957               |                    |         |
| 9,200.00                                                                                 | 9,124.55                  | 9,154.75                  | 9,151.15                  | 36.78             | 31.98          | -96.51                      | -344.02                                 | -2,180.73     | 1,285.31                   | 1,220.63                    | 64.68                         | 19.871               |                    |         |
| 9,250.00                                                                                 | 9,172.87                  | 9,203.06                  | 9,199.47                  | 36.90             | 32.16          | -96.90                      | -344.02                                 | -2,180.73     | 1,286.86                   | 1,221.86                    | 65.00                         | 19.799               |                    |         |
| 9,300.00                                                                                 | 9,219.88                  | 9,250.08                  | 9,246.48                  | 37.02             | 32.32          | -97.38                      | -344.02                                 | -2,180.73     | 1,289.10                   | 1,223.80                    | 65.30                         | 19.740               |                    |         |
| 9,350.00                                                                                 | 9,265.24                  | 9,304.56                  | 9,291.84                  | 37.12             | 32.52          | -97.91                      | -344.02                                 | -2,180.73     | 1,292.18                   | 1,226.54                    | 65.64                         | 19.687               |                    |         |
| 9,400.00                                                                                 | 9,308.60                  | 9,338.79                  | 9,335.20                  | 37.21             | 32.64          | -98.46                      | -344.02                                 | -2,180.73     | 1,296.26                   | 1,230.36                    | 65.90                         | 19.669               |                    |         |
| 9,450.00                                                                                 | 9,349.62                  | 9,379.81                  | 9,376.22                  | 37.29             | 32.78          | -98.96                      | -344.02                                 | -2,180.73     | 1,301.51                   | 1,235.31                    | 66.21                         | 19.658 SF            |                    |         |
| 9,500.00                                                                                 | 9,387.99                  | 9,418.19                  | 9,414.59                  | 37.36             | 32.92          | -99.38                      | -344.02                                 | -2,180.73     | 1,308.12                   | 1,241.61                    | 66.52                         | 19.666               |                    |         |
| 9,550.00                                                                                 | 9,423.43                  | 9,453.63                  | 9,450.03                  | 37.42             | 33.04          | -99.65                      | -344.02                                 | -2,180.73     | 1,316.26                   | 1,249.42                    | 66.84                         | 19.693               |                    |         |
| 9,600.00                                                                                 | 9,455.66                  | 9,485.86                  | 9,482.26                  | 37.48             | 33.16          | -99.74                      | -344.02                                 | -2,180.73     | 1,326.08                   | 1,258.91                    | 67.18                         | 19.741               |                    |         |

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

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design              |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Site Error: |  | 0.00 ft |  |
|----------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|--|---------|--|
| Survey Program: 0-MWD+IGRF |                           |                           |                           |                   |                |                             |                                         |               |                            |                             |                               |                      | Offset Well Error: |  | 0.50 ft |  |
| Reference                  |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Toolface<br>(°) | Distance                                |               |                            |                             |                               |                      | Warning            |  |         |  |
| Measured<br>Depth<br>(ft)  | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |                    |  |         |  |
| 9,650.00                   | 9,484.44                  | 9,514.64                  | 9,511.04                  | 37.53             | 33.26          | -99.59                      | -344.02                                 | -2,180.73     | 1,337.72                   | 1,270.19                    | 67.53                         | 19.809               |                    |  |         |  |
| 9,700.00                   | 9,509.55                  | 9,539.75                  | 9,536.15                  | 37.58             | 33.35          | -99.15                      | -344.02                                 | -2,180.73     | 1,351.26                   | 1,283.35                    | 67.90                         | 19.900               |                    |  |         |  |
| 9,750.00                   | 9,530.80                  | 9,560.99                  | 9,557.40                  | 37.63             | 33.43          | -98.38                      | -344.02                                 | -2,180.73     | 1,366.75                   | 1,298.46                    | 68.29                         | 20.013               |                    |  |         |  |
| 9,800.00                   | 9,548.02                  | 9,578.21                  | 9,574.62                  | 37.69             | 33.49          | -97.24                      | -344.02                                 | -2,180.73     | 1,384.20                   | 1,315.50                    | 68.70                         | 20.149               |                    |  |         |  |
| 9,850.00                   | 9,561.08                  | 9,608.72                  | 9,587.68                  | 37.77             | 33.60          | -95.71                      | -344.02                                 | -2,180.73     | 1,403.55                   | 1,334.38                    | 69.17                         | 20.290               |                    |  |         |  |
| 9,900.00                   | 9,569.90                  | 9,600.09                  | 9,596.50                  | 37.86             | 33.56          | -93.77                      | -344.02                                 | -2,180.73     | 1,424.70                   | 1,355.17                    | 69.53                         | 20.490               |                    |  |         |  |
| 9,950.00                   | 9,574.38                  | 9,604.58                  | 9,600.98                  | 37.97             | 33.58          | -91.42                      | -344.02                                 | -2,180.73     | 1,447.49                   | 1,377.54                    | 69.95                         | 20.693               |                    |  |         |  |
| 10,000.00                  | 9,575.00                  | 9,605.19                  | 9,601.60                  | 38.11             | 33.58          | -90.00                      | -344.02                                 | -2,180.73     | 1,471.71                   | 1,401.35                    | 70.36                         | 20.916               |                    |  |         |  |
| 10,050.00                  | 9,575.00                  | 9,605.19                  | 9,601.60                  | 38.28             | 33.58          | -90.00                      | -344.02                                 | -2,180.73     | 1,497.22                   | 1,426.43                    | 70.79                         | 21.151               |                    |  |         |  |

# Anticollision Report

**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

| Offset Design Sec 08-T25S-R33E - Flagler Fed #1 - Wellbore #1 - Wellbore #1 |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Site Error: | 0.00 ft |
|-----------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 50-NS-Gyro-DP                                               |                     |                     |                     |                 |             |                       |                                   |            |                      |                       |                         |                   | Offset Well Error: | 0.50 ft |
| Reference                                                                   |                     | Offset              |                     | Semi Major Axis |             |                       | Distance                          |            |                      |                       |                         |                   |                    | Warning |
| Measured Depth (ft)                                                         | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft)  | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |                    |         |
| 12,400.00                                                                   | 9,575.00            | 9,602.62            | 9,601.17            | 65.47           | 50.18       | 95.16                 | 4,227.30                          | -572.09    | 1,474.01             | 1,379.47              | 94.54                   | 15.591            |                    |         |
| 12,450.00                                                                   | 9,575.00            | 9,601.50            | 9,600.05            | 66.27           | 50.18       | 94.99                 | 4,227.32                          | -572.09    | 1,425.60             | 1,330.65              | 94.95                   | 15.014            |                    |         |
| 12,500.00                                                                   | 9,575.00            | 9,600.39            | 9,598.94            | 67.06           | 50.17       | 94.81                 | 4,227.34                          | -572.09    | 1,377.31             | 1,281.92              | 95.39                   | 14.438            |                    |         |
| 12,550.00                                                                   | 9,575.00            | 9,599.29            | 9,597.84            | 67.87           | 50.17       | 94.64                 | 4,227.37                          | -572.08    | 1,329.14             | 1,233.27              | 95.87                   | 13.863            |                    |         |
| 12,600.00                                                                   | 9,575.00            | 9,598.21            | 9,596.76            | 68.68           | 50.16       | 94.47                 | 4,227.39                          | -572.08    | 1,281.11             | 1,184.71              | 96.39                   | 13.290            |                    |         |
| 12,650.00                                                                   | 9,575.00            | 9,597.12            | 9,595.67            | 69.49           | 50.15       | 94.30                 | 4,227.42                          | -572.07    | 1,233.23             | 1,136.27              | 96.96                   | 12.719            |                    |         |
| 12,700.00                                                                   | 9,575.00            | 9,596.04            | 9,594.59            | 70.30           | 50.15       | 94.13                 | 4,227.44                          | -572.07    | 1,185.53             | 1,087.95              | 97.58                   | 12.149            |                    |         |
| 12,750.00                                                                   | 9,575.00            | 9,594.96            | 9,593.50            | 71.12           | 50.14       | 93.96                 | 4,227.46                          | -572.06    | 1,138.03             | 1,039.77              | 98.26                   | 11.582            |                    |         |
| 12,800.00                                                                   | 9,575.00            | 9,593.87            | 9,592.42            | 71.94           | 50.14       | 93.79                 | 4,227.49                          | -572.06    | 1,090.75             | 991.74                | 99.00                   | 11.017            |                    |         |
| 12,850.00                                                                   | 9,575.00            | 9,592.79            | 9,591.34            | 72.77           | 50.13       | 93.62                 | 4,227.51                          | -572.06    | 1,043.72             | 943.90                | 99.82                   | 10.456            |                    |         |
| 12,900.00                                                                   | 9,575.00            | 9,591.71            | 9,590.26            | 73.60           | 50.13       | 93.44                 | 4,227.53                          | -572.05    | 996.98               | 896.25                | 100.73                  | 9.898             |                    |         |
| 12,950.00                                                                   | 9,575.00            | 9,590.63            | 9,589.18            | 74.43           | 50.12       | 93.27                 | 4,227.56                          | -572.05    | 950.57               | 848.84                | 101.73                  | 9.344             |                    |         |
| 13,000.00                                                                   | 9,575.00            | 9,589.54            | 9,588.09            | 75.26           | 50.11       | 93.10                 | 4,227.58                          | -572.04    | 904.54               | 801.70                | 102.84                  | 8.796             |                    |         |
| 13,050.00                                                                   | 9,575.00            | 9,588.45            | 9,587.00            | 76.10           | 50.11       | 92.93                 | 4,227.60                          | -572.04    | 858.95               | 754.87                | 104.07                  | 8.253             |                    |         |
| 13,100.00                                                                   | 9,575.00            | 9,587.35            | 9,585.91            | 76.94           | 50.10       | 92.76                 | 4,227.63                          | -572.03    | 813.88               | 708.43                | 105.45                  | 7.718             |                    |         |
| 13,150.00                                                                   | 9,575.00            | 9,586.26            | 9,584.81            | 77.79           | 50.10       | 92.58                 | 4,227.65                          | -572.03    | 769.41               | 662.43                | 106.99                  | 7.192             |                    |         |
| 13,200.00                                                                   | 9,575.00            | 9,585.16            | 9,583.71            | 78.63           | 50.09       | 92.41                 | 4,227.68                          | -572.02    | 725.67               | 616.96                | 108.71                  | 6.675             |                    |         |
| 13,250.00                                                                   | 9,575.00            | 9,584.05            | 9,582.60            | 79.48           | 50.09       | 92.23                 | 4,227.70                          | -572.02    | 682.79               | 572.15                | 110.63                  | 6.172             |                    |         |
| 13,300.00                                                                   | 9,575.00            | 9,582.94            | 9,581.50            | 80.33           | 50.08       | 92.06                 | 4,227.73                          | -572.02    | 640.93               | 528.15                | 112.78                  | 5.683             |                    |         |
| 13,350.00                                                                   | 9,575.00            | 9,581.83            | 9,580.39            | 81.19           | 50.07       | 91.88                 | 4,227.75                          | -572.01    | 600.32               | 485.14                | 115.18                  | 5.212             |                    |         |
| 13,400.00                                                                   | 9,575.00            | 9,580.72            | 9,579.27            | 82.04           | 50.07       | 91.71                 | 4,227.77                          | -572.01    | 561.23               | 443.38                | 117.84                  | 4.762             | Alert              |         |
| 13,450.00                                                                   | 9,575.00            | 9,579.61            | 9,578.16            | 82.90           | 50.06       | 91.53                 | 4,227.80                          | -572.00    | 523.99               | 403.23                | 120.76                  | 4.339             | Alert              |         |
| 13,500.00                                                                   | 9,575.00            | 9,578.52            | 9,577.07            | 83.76           | 50.06       | 91.36                 | 4,227.82                          | -572.00    | 489.03               | 365.12                | 123.91                  | 3.947             | Alert              |         |
| 13,550.00                                                                   | 9,575.00            | 9,577.44            | 9,576.00            | 84.62           | 50.05       | 91.19                 | 4,227.85                          | -572.00    | 456.87               | 329.65                | 127.22                  | 3.591             | Alert              |         |
| 13,600.00                                                                   | 9,575.00            | 9,576.37            | 9,574.92            | 85.49           | 50.05       | 91.02                 | 4,227.87                          | -571.99    | 428.15               | 297.60                | 130.55                  | 3.280             | Alert              |         |
| 13,650.00                                                                   | 9,575.00            | 9,575.30            | 9,573.86            | 86.35           | 50.04       | 90.85                 | 4,227.89                          | -571.99    | 403.60               | 269.91                | 133.69                  | 3.019             | Alert              |         |
| 13,700.00                                                                   | 9,575.00            | 9,574.25            | 9,572.80            | 87.22           | 50.03       | 90.68                 | 4,227.92                          | -571.98    | 384.01               | 247.69                | 136.32                  | 2.817             | Alert              |         |
| 13,750.00                                                                   | 9,575.00            | 9,573.20            | 9,571.75            | 88.09           | 50.03       | 90.52                 | 4,227.94                          | -571.98    | 370.19               | 232.10                | 138.09                  | 2.681             | Alert              |         |
| 13,800.00                                                                   | 9,575.00            | 9,572.15            | 9,570.71            | 88.96           | 50.02       | 90.35                 | 4,227.96                          | -571.97    | 362.78               | 224.11                | 138.67                  | 2.616             | Alert              |         |
| 13,829.31                                                                   | 9,575.00            | 9,571.55            | 9,570.10            | 89.48           | 50.02       | 90.25                 | 4,227.97                          | -571.97    | 361.60               | 223.23                | 138.37                  | 2.613             | Alert, CC, ES, SF  |         |
| 13,850.00                                                                   | 9,575.00            | 9,571.12            | 9,569.68            | 89.84           | 50.02       | 90.19                 | 4,227.98                          | -571.97    | 362.19               | 224.32                | 137.87                  | 2.627             | Alert              |         |
| 13,900.00                                                                   | 9,575.00            | 9,570.10            | 9,568.65            | 90.71           | 50.01       | 90.02                 | 4,228.01                          | -571.97    | 368.44               | 232.72                | 135.72                  | 2.715             | Alert              |         |
| 13,950.00                                                                   | 9,575.00            | 9,569.02            | 9,567.57            | 91.59           | 50.01       | 89.85                 | 4,228.03                          | -571.96    | 381.20               | 248.71                | 132.49                  | 2.877             | Alert              |         |
| 14,000.00                                                                   | 9,575.00            | 9,567.94            | 9,566.49            | 92.47           | 50.00       | 89.68                 | 4,228.05                          | -571.96    | 399.85               | 271.28                | 128.57                  | 3.110             | Alert              |         |
| 14,050.00                                                                   | 9,575.00            | 9,566.86            | 9,565.42            | 93.35           | 50.00       | 89.51                 | 4,228.07                          | -571.95    | 423.60               | 299.26                | 124.34                  | 3.407             | Alert              |         |
| 14,100.00                                                                   | 9,575.00            | 9,565.78            | 9,564.34            | 94.23           | 49.99       | 89.34                 | 4,228.10                          | -571.95    | 451.66               | 331.53                | 120.13                  | 3.760             | Alert              |         |
| 14,150.00                                                                   | 9,575.00            | 9,564.71            | 9,563.26            | 95.12           | 49.98       | 89.17                 | 4,228.12                          | -571.94    | 483.27               | 367.14                | 116.13                  | 4.161             | Alert              |         |
| 14,200.00                                                                   | 9,575.00            | 9,563.63            | 9,562.19            | 96.00           | 49.98       | 89.00                 | 4,228.14                          | -571.94    | 517.79               | 405.31                | 112.48                  | 4.603             | Alert              |         |
| 14,250.00                                                                   | 9,575.00            | 9,562.56            | 9,561.11            | 96.89           | 49.97       | 88.83                 | 4,228.17                          | -571.93    | 554.67               | 445.46                | 109.21                  | 5.079             |                    |         |
| 14,300.00                                                                   | 9,575.00            | 9,561.48            | 9,560.04            | 97.78           | 49.97       | 88.66                 | 4,228.19                          | -571.93    | 593.47               | 487.15                | 106.32                  | 5.582             |                    |         |
| 14,350.00                                                                   | 9,575.00            | 9,560.41            | 9,558.97            | 98.67           | 49.96       | 88.49                 | 4,228.21                          | -571.92    | 633.84               | 530.04                | 103.80                  | 6.106             |                    |         |
| 14,400.00                                                                   | 9,575.00            | 9,559.35            | 9,557.91            | 99.56           | 49.96       | 88.32                 | 4,228.23                          | -571.92    | 675.50               | 573.89                | 101.61                  | 6.648             |                    |         |
| 14,450.00                                                                   | 9,575.00            | 9,558.30            | 9,556.86            | 100.45          | 49.95       | 88.16                 | 4,228.26                          | -571.92    | 718.22               | 618.51                | 99.71                   | 7.203             |                    |         |
| 14,477.32                                                                   | 9,575.00            | 9,557.72            | 9,556.28            | 100.94          | 49.95       | 88.07                 | 4,228.27                          | -571.91    | 741.95               | 643.17                | 98.78                   | 7.511             |                    |         |

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

# Anticollision Report

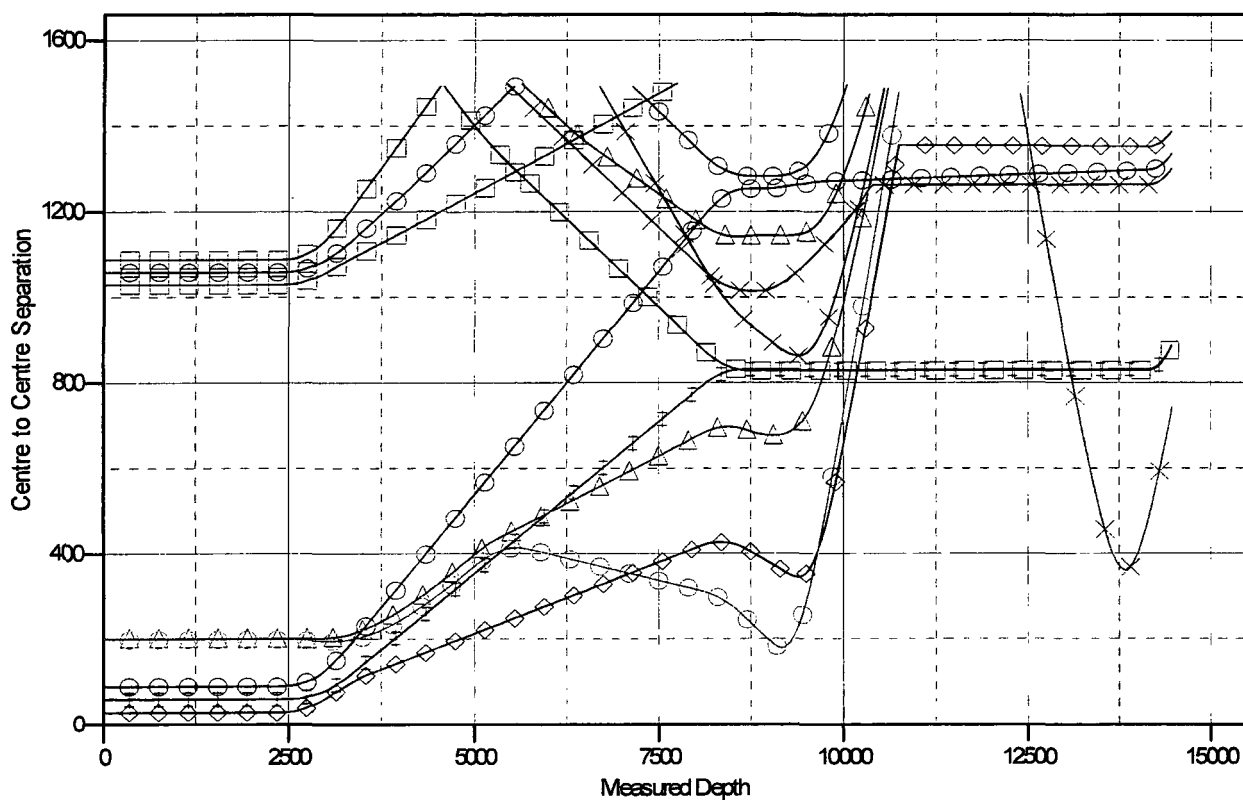
**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to RKB @ 3472.50ft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -104.333334

Coordinates are relative to: Flagler 8 Fed 38H  
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Grid Convergence at Surface is: 0.39°

## Ladder Plot



## LEGEND

Flagler 8 Fed Com 2H, Wellbore #1, Permit Plan 2 VO  
 Flagler 8 Fed 8H, Wellbore #1, Permit Plan 1 VO  
 Flagler 8 Fed 4H, Wellbore #1, Permit Plan 2 VO  
 Flagler 8 Fed 32H, Wellbore #1, Permit Plan 2 VO  
 Flagler 8 Fed 3H, Wellbore #1, Permit Plan 1 VO

Flagler 8 Fed 30H, Wellbore #1, Permit Plan 2 VO  
 Flagler 8 Fed Com 30H, Wellbore #1, Permit Plan 1 VO  
 Flagler 8 Fed 25H, Wellbore #1, Permit Plan 2 VO  
 Flagler 8 Fed Com 6H, Wellbore #1, Permit Plan 1 VO  
 Flagler 8 Fed Com 36H, Wellbore #1, Permit Plan 1 VO

Flagler 8 Fed Com 14H, Wellbore #1, Permit Plan 1 VO  
 Flagler 8 Fed 7H, Wellbore #1, Permit Plan 1 VO  
 Flagler 8 Fed 1H, Wellbore #1, Permit Plan 1 VO  
 Flagler 8 Fed 12H, Wellbore #1, Permit Plan 3 VO

# Anticollision Report

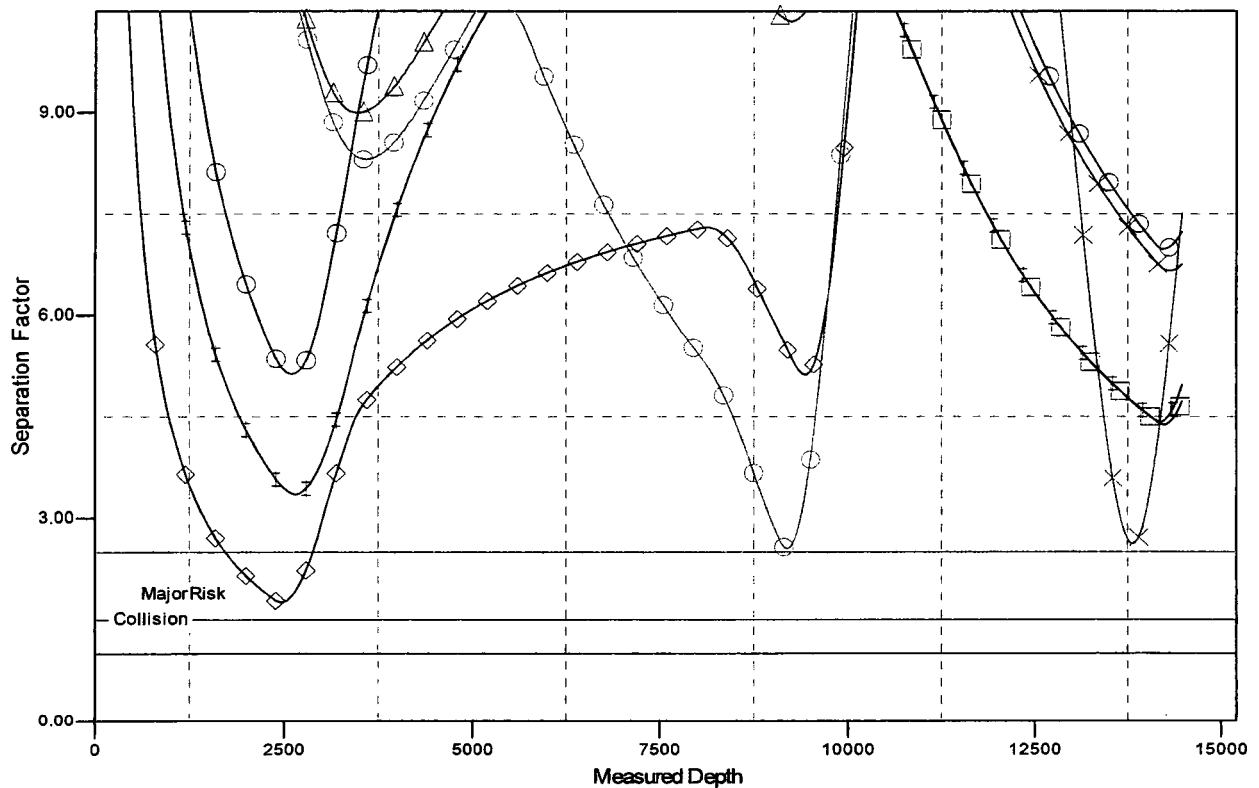
**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 38H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 38H  
**TVD Reference:** RKB @ 3472.50ft  
**MD Reference:** RKB @ 3472.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** EDM r5000.141\_Prod US  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to RKB @ 3472.50ft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -104.333334

Coordinates are relative to: Flagler 8 Fed 38H  
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Grid Convergence at Surface is: 0.39°

## Separation Factor Plot



### LEGEND

|                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flagler 8 Fed Com 2H, Wellbore #1, Permit Plan 2 V0<br>Flagler 8 Fed 8H, Wellbore #1, Permit Plan 1 V0<br>Flagler 8 Fed 4H, Wellbore #1, Permit Plan 2 V0<br>Flagler 8 Fed 32H, Wellbore #1, Permit Plan 2 V0<br>Flagler 8 Fed 3H, Wellbore #1, Permit Plan 1 V0 | Flagler 8 Fed 38H, Wellbore #1, Permit Plan 2 V0<br>Flagler 8 Fed Com 30H, Wellbore #1, Permit Plan 1 V0<br>Flagler 8 Fed 25H, Wellbore #1, Permit Plan 2 V0<br>Flagler 8 Fed Com 6H, Wellbore #1, Permit Plan 1 V0<br>Flagler 8 Fed Com 36H, Wellbore #1, Permit Plan 1 V0 | Flagler 8 Fed Com 14H, Wellbore #1, Permit Plan 1 V0<br>Flagler 8 Fed 7H, Wellbore #1, Permit Plan 1 V0<br>Flagler 8 Fed #1, Wellbore #1, Wellbore #1 V0<br>Flagler 8 Fed 12H, Wellbore #1, Permit Plan 3 V0 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

# **WCDSC Permian NM**

**Lea County (NAD83 New Mexico East)**

**Sec 08-T25S-R33E**

**Flagler 8 Fed 38H**

**Wellbore #1**

**Plan: Permit Plan 2**

## **Standard Planning Report - Geographic**

**16 October, 2018**

# Planning Report - Geographic

|           |                                    |                              |                        |
|-----------|------------------------------------|------------------------------|------------------------|
| Database: | EDM r5000.141_Prod US              | Local Co-ordinate Reference: | Well Flagler 8 Fed 38H |
| Company:  | WCDSC Permian NM                   | TVD Reference:               | RKB @ 3472.50ft        |
| Project:  | Lea County (NAD83 New Mexico East) | MD Reference:                | RKB @ 3472.50ft        |
| Site:     | Sec 08-T25S-R33E                   | North Reference:             | Grid                   |
| Well:     | Flagler 8 Fed 38H                  | Survey Calculation Method:   | Minimum Curvature      |
| Wellbore: | Wellbore #1                        |                              |                        |
| Design:   | Permit Plan 2                      |                              |                        |

|                    |                                    |                      |                |
|--------------------|------------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County (NAD83 New Mexico East) |                      |                |
| <b>Map System:</b> | US State Plane 1983                | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983          |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone            |                      |                |

|                              |                  |                          |                 |
|------------------------------|------------------|--------------------------|-----------------|
| <b>Site</b>                  | Sec 08-T25S-R33E |                          |                 |
| <b>Site Position:</b>        |                  | <b>Northing:</b>         | 419,281.82 usft |
| <b>From:</b>                 | Map              | <b>Easting:</b>          | 769,381.69 usft |
| <b>Position Uncertainty:</b> | 0.00 ft          | <b>Slot Radius:</b>      | 13-3/16 "       |
|                              |                  | <b>Latitude:</b>         | 32.150539       |
|                              |                  | <b>Longitude:</b>        | -103.596481     |
|                              |                  | <b>Grid Convergence:</b> | 0.39 °          |

|                             |                   |                            |                                  |
|-----------------------------|-------------------|----------------------------|----------------------------------|
| <b>Well</b>                 | Flagler 8 Fed 38H |                            |                                  |
| <b>Well Position</b>        | <b>+N-S</b>       | 0.00 ft                    | <b>Northing:</b> 415,051.09 usft |
|                             | <b>+E-W</b>       | 0.00 ft                    | <b>Easting:</b> 769,952.61 usft  |
| <b>Position Uncertainty</b> | 0.50 ft           | <b>Wellhead Elevation:</b> | <b>Latitude:</b> 32.138899       |
|                             |                   |                            | <b>Longitude:</b> -103.594730    |
|                             |                   |                            | <b>Ground Level:</b> 3,447.50 ft |

|                  |                   |                    |                       |
|------------------|-------------------|--------------------|-----------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b>    |
|                  | IGRF2015          | 2/27/2018          | 6.88                  |
|                  |                   |                    | <b>Dip Angle</b>      |
|                  |                   |                    | 59.97                 |
|                  |                   |                    | <b>Field Strength</b> |
|                  |                   |                    | 47,813.15907479       |

|                          |                         |             |                           |
|--------------------------|-------------------------|-------------|---------------------------|
| <b>Design</b>            | Permit Plan 2           |             |                           |
| <b>Audit Notes:</b>      |                         |             |                           |
| <b>Version:</b>          | <b>Phase:</b>           | PROTOTYPE   | <b>Tie On Depth:</b> 0.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N-S</b> | <b>+E-W</b>               |
|                          | (ft)                    | (ft)        | (ft)                      |
|                          | 0.00                    | 0.00        | 0.00                      |
|                          |                         |             | <b>Direction</b>          |
|                          |                         |             | (°)                       |
|                          |                         |             | 349.11                    |

|                                 |                        |                                       |                        |
|---------------------------------|------------------------|---------------------------------------|------------------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b> 10/16/2018 |                                       |                        |
| <b>Depth From</b>               | <b>Depth To</b>        | <b>Survey (Wellbore)</b>              | <b>Tool Name</b>       |
| (ft)                            | (ft)                   |                                       |                        |
| 1                               | 0.00                   | 14,477.32 Permit Plan 2 (Wellbore #1) | MWD+IGRF               |
|                                 |                        |                                       | OWSG MWD + IGRF or WMM |

|                      |                    |                |                 |             |             |               |              |             |            |                       |
|----------------------|--------------------|----------------|-----------------|-------------|-------------|---------------|--------------|-------------|------------|-----------------------|
| <b>Plan Sections</b> |                    |                |                 |             |             |               |              |             |            |                       |
| <b>Measured</b>      | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical</b> | <b>+N-S</b> | <b>+E-W</b> | <b>Dogleg</b> | <b>Build</b> | <b>Turn</b> | <b>TFO</b> | <b>Target</b>         |
| <b>Depth</b>         | (°)                | (°)            | <b>Depth</b>    | (ft)        | (ft)        | <b>Rate</b>   | <b>Rate</b>  | <b>Rate</b> | (°)        |                       |
| (ft)                 |                    |                | (ft)            |             |             | (°/100usft)   | (°/100usft)  | (°/100usft) |            |                       |
| 0.00                 | 0.00               | 0.00           | 0.00            | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00       |                       |
| 2,400.00             | 0.00               | 0.00           | 2,400.00        | 0.00        | 0.00        | 0.00          | 0.00         | 0.00        | 0.00       |                       |
| 3,366.00             | 9.66               | 257.54         | 3,361.43        | -17.53      | -79.33      | 1.00          | 1.00         | 0.00        | 257.54     |                       |
| 8,082.49             | 9.66               | 257.54         | 8,011.04        | -188.31     | -852.12     | 0.00          | 0.00         | 0.00        | 0.00       |                       |
| 8,726.49             | 0.00               | 0.00           | 8,652.00        | -200.00     | -905.00     | 1.50          | -1.50        | 0.00        | 180.00     |                       |
| 9,076.53             | 0.00               | 0.00           | 9,002.04        | -200.00     | -905.00     | 0.00          | 0.00         | 0.00        | 0.00       |                       |
| 9,976.53             | 90.00              | 359.63         | 9,575.00        | 372.95      | -908.70     | 10.00         | 10.00        | 0.00        | 359.63     | PBHL - Flagler 38H (3 |
| 14,477.32            | 90.00              | 359.63         | 9,575.00        | 4,873.64    | -937.74     | 0.00          | 0.00         | 0.00        | 0.00       | PBHL - Flagler 38H (3 |

# Planning Report - Geographic

Database: EDM r5000.141\_Prod US  
 Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Site: Sec 08-T25S-R33E  
 Well: Flagler 8 Fed 38H  
 Wellbore: Wellbore #1  
 Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude  | Longitude   |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|-----------|-------------|
| 0.00                      | 0.00               | 0.00           | 0.00                      | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 100.00                    | 0.00               | 0.00           | 100.00                    | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 200.00                    | 0.00               | 0.00           | 200.00                    | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 300.00                    | 0.00               | 0.00           | 300.00                    | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 400.00                    | 0.00               | 0.00           | 400.00                    | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 500.00                    | 0.00               | 0.00           | 500.00                    | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 600.00                    | 0.00               | 0.00           | 600.00                    | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 700.00                    | 0.00               | 0.00           | 700.00                    | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 800.00                    | 0.00               | 0.00           | 800.00                    | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 900.00                    | 0.00               | 0.00           | 900.00                    | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 1,000.00                  | 0.00               | 0.00           | 1,000.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 1,100.00                  | 0.00               | 0.00           | 1,100.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 1,200.00                  | 0.00               | 0.00           | 1,200.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 1,300.00                  | 0.00               | 0.00           | 1,300.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 1,400.00                  | 0.00               | 0.00           | 1,400.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 1,500.00                  | 0.00               | 0.00           | 1,500.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 1,600.00                  | 0.00               | 0.00           | 1,600.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 1,700.00                  | 0.00               | 0.00           | 1,700.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 1,800.00                  | 0.00               | 0.00           | 1,800.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 1,900.00                  | 0.00               | 0.00           | 1,900.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 2,000.00                  | 0.00               | 0.00           | 2,000.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 2,100.00                  | 0.00               | 0.00           | 2,100.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 2,200.00                  | 0.00               | 0.00           | 2,200.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 2,300.00                  | 0.00               | 0.00           | 2,300.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 2,400.00                  | 0.00               | 0.00           | 2,400.00                  | 0.00          | 0.00          | 415,051.09                | 769,952.61               | 32.138899 | -103.594730 |
| 2,500.00                  | 1.00               | 257.54         | 2,499.99                  | -0.19         | -0.85         | 415,050.90                | 769,951.76               | 32.138899 | -103.594733 |
| 2,600.00                  | 2.00               | 257.54         | 2,599.96                  | -0.75         | -3.41         | 415,050.34                | 769,949.20               | 32.138897 | -103.594741 |
| 2,700.00                  | 3.00               | 257.54         | 2,699.86                  | -1.69         | -7.67         | 415,049.39                | 769,944.94               | 32.138895 | -103.594755 |
| 2,800.00                  | 4.00               | 257.54         | 2,799.68                  | -3.01         | -13.63        | 415,048.08                | 769,938.98               | 32.138891 | -103.594774 |
| 2,900.00                  | 5.00               | 257.54         | 2,899.37                  | -4.70         | -21.29        | 415,046.38                | 769,931.32               | 32.138887 | -103.594799 |
| 3,000.00                  | 6.00               | 257.54         | 2,998.90                  | -6.77         | -30.65        | 415,044.32                | 769,921.96               | 32.138881 | -103.594830 |
| 3,100.00                  | 7.00               | 257.54         | 3,098.26                  | -9.22         | -41.70        | 415,041.87                | 769,910.91               | 32.138875 | -103.594865 |
| 3,200.00                  | 8.00               | 257.54         | 3,197.40                  | -12.03        | -54.45        | 415,039.06                | 769,898.16               | 32.138867 | -103.594907 |
| 3,300.00                  | 9.00               | 257.54         | 3,296.30                  | -15.22        | -68.88        | 415,035.87                | 769,883.73               | 32.138859 | -103.594953 |
| 3,366.00                  | 9.66               | 257.54         | 3,361.43                  | -17.53        | -79.33        | 415,033.56                | 769,873.28               | 32.138853 | -103.594987 |
| 3,400.00                  | 9.66               | 257.54         | 3,394.95                  | -18.76        | -84.90        | 415,032.33                | 769,867.71               | 32.138849 | -103.595005 |
| 3,500.00                  | 9.66               | 257.54         | 3,493.53                  | -22.38        | -101.28       | 415,028.71                | 769,851.33               | 32.138840 | -103.595058 |
| 3,600.00                  | 9.66               | 257.54         | 3,592.11                  | -26.00        | -117.67       | 415,025.09                | 769,834.94               | 32.138830 | -103.595111 |
| 3,700.00                  | 9.66               | 257.54         | 3,690.69                  | -29.62        | -134.05       | 415,021.46                | 769,818.56               | 32.138820 | -103.595164 |
| 3,800.00                  | 9.66               | 257.54         | 3,789.28                  | -33.25        | -150.44       | 415,017.84                | 769,802.17               | 32.138811 | -103.595217 |
| 3,900.00                  | 9.66               | 257.54         | 3,887.86                  | -36.87        | -166.82       | 415,014.22                | 769,785.79               | 32.138801 | -103.595270 |
| 4,000.00                  | 9.66               | 257.54         | 3,986.44                  | -40.49        | -183.21       | 415,010.60                | 769,769.40               | 32.138791 | -103.595323 |
| 4,100.00                  | 9.66               | 257.54         | 4,085.02                  | -44.11        | -199.59       | 415,006.98                | 769,753.02               | 32.138782 | -103.595376 |
| 4,200.00                  | 9.66               | 257.54         | 4,183.60                  | -47.73        | -215.98       | 415,003.36                | 769,736.63               | 32.138772 | -103.595429 |
| 4,300.00                  | 9.66               | 257.54         | 4,282.19                  | -51.35        | -232.36       | 414,999.74                | 769,720.25               | 32.138763 | -103.595482 |
| 4,400.00                  | 9.66               | 257.54         | 4,380.77                  | -54.97        | -248.75       | 414,996.12                | 769,703.86               | 32.138753 | -103.595535 |
| 4,500.00                  | 9.66               | 257.54         | 4,479.35                  | -58.59        | -265.13       | 414,992.50                | 769,687.48               | 32.138743 | -103.595588 |
| 4,600.00                  | 9.66               | 257.54         | 4,577.93                  | -62.21        | -281.52       | 414,988.88                | 769,671.09               | 32.138734 | -103.595641 |
| 4,700.00                  | 9.66               | 257.54         | 4,676.52                  | -65.83        | -297.90       | 414,985.26                | 769,654.71               | 32.138724 | -103.595694 |
| 4,800.00                  | 9.66               | 257.54         | 4,775.10                  | -69.46        | -314.28       | 414,981.63                | 769,638.32               | 32.138714 | -103.595747 |
| 4,900.00                  | 9.66               | 257.54         | 4,873.68                  | -73.08        | -330.67       | 414,978.01                | 769,621.94               | 32.138705 | -103.595800 |
| 5,000.00                  | 9.66               | 257.54         | 4,972.26                  | -76.70        | -347.05       | 414,974.39                | 769,605.55               | 32.138695 | -103.595853 |
| 5,100.00                  | 9.66               | 257.54         | 5,070.84                  | -80.32        | -363.44       | 414,970.77                | 769,589.17               | 32.138685 | -103.595906 |
| 5,200.00                  | 9.66               | 257.54         | 5,169.43                  | -83.94        | -379.82       | 414,967.15                | 769,572.78               | 32.138676 | -103.595959 |
| 5,300.00                  | 9.66               | 257.54         | 5,268.01                  | -87.56        | -396.21       | 414,963.53                | 769,556.40               | 32.138666 | -103.596012 |

# Planning Report - Geographic

Database: EDM r5000.141\_Prod US  
 Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Site: Sec 08-T25S-R33E  
 Well: Flagler 8 Fed 38H  
 Wellbore: Wellbore #1  
 Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

| Planned Survey                            |                    |                |                           |               |               |                           |                          |           |             |  |
|-------------------------------------------|--------------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|-----------|-------------|--|
| Measured<br>Depth<br>(ft)                 | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude  | Longitude   |  |
| 5,400.00                                  | 9.66               | 257.54         | 5,366.59                  | -91.18        | -412.59       | 414,959.91                | 769,540.01               | 32.138656 | -103.596065 |  |
| 5,500.00                                  | 9.66               | 257.54         | 5,465.17                  | -94.80        | -428.98       | 414,956.29                | 769,523.63               | 32.138647 | -103.596118 |  |
| 5,600.00                                  | 9.66               | 257.54         | 5,563.75                  | -98.42        | -445.36       | 414,952.67                | 769,507.24               | 32.138637 | -103.596171 |  |
| 5,700.00                                  | 9.66               | 257.54         | 5,662.34                  | -102.04       | -461.75       | 414,949.05                | 769,490.86               | 32.138627 | -103.596224 |  |
| 5,800.00                                  | 9.66               | 257.54         | 5,760.92                  | -105.66       | -478.13       | 414,945.42                | 769,474.48               | 32.138618 | -103.596277 |  |
| 5,900.00                                  | 9.66               | 257.54         | 5,859.50                  | -109.29       | -494.52       | 414,941.80                | 769,458.09               | 32.138608 | -103.596330 |  |
| 6,000.00                                  | 9.66               | 257.54         | 5,958.08                  | -112.91       | -510.90       | 414,938.18                | 769,441.71               | 32.138599 | -103.596383 |  |
| 6,100.00                                  | 9.66               | 257.54         | 6,056.66                  | -116.53       | -527.29       | 414,934.56                | 769,425.32               | 32.138589 | -103.596436 |  |
| 6,200.00                                  | 9.66               | 257.54         | 6,155.25                  | -120.15       | -543.67       | 414,930.94                | 769,408.94               | 32.138579 | -103.596489 |  |
| 6,300.00                                  | 9.66               | 257.54         | 6,253.83                  | -123.77       | -560.06       | 414,927.32                | 769,392.55               | 32.138570 | -103.596542 |  |
| 6,400.00                                  | 9.66               | 257.54         | 6,352.41                  | -127.39       | -576.44       | 414,923.70                | 769,376.17               | 32.138560 | -103.596595 |  |
| 6,500.00                                  | 9.66               | 257.54         | 6,450.99                  | -131.01       | -592.83       | 414,920.08                | 769,359.78               | 32.138550 | -103.596648 |  |
| 6,600.00                                  | 9.66               | 257.54         | 6,549.57                  | -134.63       | -609.21       | 414,916.46                | 769,343.40               | 32.138541 | -103.596701 |  |
| 6,700.00                                  | 9.66               | 257.54         | 6,648.16                  | -138.25       | -625.60       | 414,912.84                | 769,327.01               | 32.138531 | -103.596754 |  |
| 6,800.00                                  | 9.66               | 257.54         | 6,746.74                  | -141.87       | -641.98       | 414,909.22                | 769,310.63               | 32.138521 | -103.596807 |  |
| 6,900.00                                  | 9.66               | 257.54         | 6,845.32                  | -145.50       | -658.37       | 414,905.59                | 769,294.24               | 32.138512 | -103.596860 |  |
| 7,000.00                                  | 9.66               | 257.54         | 6,943.90                  | -149.12       | -674.75       | 414,901.97                | 769,277.86               | 32.138502 | -103.596914 |  |
| 7,100.00                                  | 9.66               | 257.54         | 7,042.48                  | -152.74       | -691.14       | 414,898.35                | 769,261.47               | 32.138492 | -103.596967 |  |
| 7,200.00                                  | 9.66               | 257.54         | 7,141.07                  | -156.36       | -707.52       | 414,894.73                | 769,245.09               | 32.138483 | -103.597020 |  |
| 7,300.00                                  | 9.66               | 257.54         | 7,239.65                  | -159.98       | -723.91       | 414,891.11                | 769,228.70               | 32.138473 | -103.597073 |  |
| 7,400.00                                  | 9.66               | 257.54         | 7,338.23                  | -163.60       | -740.29       | 414,887.49                | 769,212.32               | 32.138464 | -103.597126 |  |
| 7,500.00                                  | 9.66               | 257.54         | 7,436.81                  | -167.22       | -756.68       | 414,883.87                | 769,195.93               | 32.138454 | -103.597179 |  |
| 7,600.00                                  | 9.66               | 257.54         | 7,535.40                  | -170.84       | -773.06       | 414,880.25                | 769,179.55               | 32.138444 | -103.597232 |  |
| 7,700.00                                  | 9.66               | 257.54         | 7,633.98                  | -174.46       | -789.44       | 414,876.63                | 769,163.16               | 32.138435 | -103.597285 |  |
| 7,800.00                                  | 9.66               | 257.54         | 7,732.56                  | -178.08       | -805.83       | 414,873.01                | 769,146.78               | 32.138425 | -103.597338 |  |
| 7,900.00                                  | 9.66               | 257.54         | 7,831.14                  | -181.70       | -822.21       | 414,869.38                | 769,130.39               | 32.138415 | -103.597391 |  |
| 8,000.00                                  | 9.66               | 257.54         | 7,929.72                  | -185.33       | -838.60       | 414,865.76                | 769,114.01               | 32.138406 | -103.597444 |  |
| 8,082.49                                  | 9.66               | 257.54         | 8,011.04                  | -188.31       | -852.12       | 414,862.78                | 769,100.49               | 32.138398 | -103.597487 |  |
| 8,100.00                                  | 9.40               | 257.54         | 8,028.31                  | -188.94       | -854.95       | 414,862.15                | 769,097.66               | 32.138396 | -103.597497 |  |
| 8,200.00                                  | 7.90               | 257.54         | 8,127.17                  | -192.18       | -869.63       | 414,858.91                | 769,082.98               | 32.138387 | -103.597544 |  |
| 8,300.00                                  | 6.40               | 257.54         | 8,226.39                  | -194.87       | -881.78       | 414,856.22                | 769,070.83               | 32.138380 | -103.597583 |  |
| 8,400.00                                  | 4.90               | 257.54         | 8,325.90                  | -196.99       | -891.38       | 414,854.10                | 769,061.23               | 32.138375 | -103.597614 |  |
| 8,500.00                                  | 3.40               | 257.54         | 8,425.64                  | -198.55       | -898.45       | 414,852.54                | 769,054.16               | 32.138370 | -103.597637 |  |
| 8,600.00                                  | 1.90               | 257.54         | 8,525.53                  | -199.55       | -902.96       | 414,851.54                | 769,049.65               | 32.138368 | -103.597652 |  |
| 8,700.00                                  | 0.40               | 257.54         | 8,625.51                  | -199.98       | -904.91       | 414,851.11                | 769,047.70               | 32.138367 | -103.597658 |  |
| 8,726.49                                  | 0.00               | 0.00           | 8,652.00                  | -200.00       | -905.00       | 414,851.09                | 769,047.61               | 32.138367 | -103.597658 |  |
| 8,800.00                                  | 0.00               | 0.00           | 8,725.51                  | -200.00       | -905.00       | 414,851.09                | 769,047.61               | 32.138367 | -103.597658 |  |
| 8,900.00                                  | 0.00               | 0.00           | 8,825.51                  | -200.00       | -905.00       | 414,851.09                | 769,047.61               | 32.138367 | -103.597658 |  |
| 9,000.00                                  | 0.00               | 0.00           | 8,925.51                  | -200.00       | -905.00       | 414,851.09                | 769,047.61               | 32.138367 | -103.597658 |  |
| 9,076.53                                  | 0.00               | 0.00           | 9,002.04                  | -200.00       | -905.00       | 414,851.09                | 769,047.61               | 32.138367 | -103.597658 |  |
| KOP & FTP @ 9077' MD, 180' FSL, 1605' FWL |                    |                |                           |               |               |                           |                          |           |             |  |
| 9,100.00                                  | 2.35               | 359.63         | 9,025.50                  | -199.52       | -905.00       | 414,851.57                | 769,047.61               | 32.138368 | -103.597658 |  |
| 9,200.00                                  | 12.35              | 359.63         | 9,124.55                  | -186.75       | -905.09       | 414,864.34                | 769,047.52               | 32.138403 | -103.597658 |  |
| 9,300.00                                  | 22.35              | 359.63         | 9,219.88                  | -156.97       | -905.28       | 414,894.12                | 769,047.33               | 32.138485 | -103.597658 |  |
| 9,400.00                                  | 32.35              | 359.63         | 9,308.60                  | -111.09       | -905.57       | 414,940.00                | 769,047.04               | 32.138611 | -103.597658 |  |
| 9,500.00                                  | 42.35              | 359.63         | 9,387.99                  | -50.51        | -905.96       | 415,000.58                | 769,046.64               | 32.138777 | -103.597658 |  |
| 9,600.00                                  | 52.35              | 359.63         | 9,455.66                  | 22.94         | -906.44       | 415,074.03                | 769,046.17               | 32.138979 | -103.597658 |  |
| 9,700.00                                  | 62.35              | 359.63         | 9,509.55                  | 107.03        | -906.98       | 415,158.12                | 769,045.63               | 32.139211 | -103.597658 |  |
| 9,800.00                                  | 72.35              | 359.63         | 9,548.02                  | 199.20        | -907.58       | 415,250.28                | 769,045.03               | 32.139464 | -103.597658 |  |
| 9,900.00                                  | 82.35              | 359.63         | 9,569.90                  | 296.64        | -908.21       | 415,347.73                | 769,044.40               | 32.139732 | -103.597658 |  |
| 9,976.53                                  | 90.00              | 359.63         | 9,575.00                  | 372.95        | -908.70       | 415,424.04                | 769,043.91               | 32.139941 | -103.597658 |  |
| 10,000.00                                 | 90.00              | 359.63         | 9,575.00                  | 396.41        | -908.85       | 415,447.50                | 769,043.76               | 32.140006 | -103.597658 |  |
| 10,100.00                                 | 90.00              | 359.63         | 9,575.00                  | 496.41        | -909.49       | 415,547.50                | 769,043.11               | 32.140281 | -103.597658 |  |
| 10,200.00                                 | 90.00              | 359.63         | 9,575.00                  | 596.41        | -910.14       | 415,647.50                | 769,042.47               | 32.140556 | -103.597657 |  |

# Planning Report - Geographic

Database: EDM r5000.141\_Prod US  
 Company: WCDSC Permian NM  
 Project: Lea County (NAD83 New Mexico East)  
 Site: Sec 08-T25S-R33E  
 Well: Flagler 8 Fed 38H  
 Wellbore: Wellbore #1  
 Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 38H  
 TVD Reference: RKB @ 3472.50ft  
 MD Reference: RKB @ 3472.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured<br>Depth<br>(ft)                   | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude  | Longitude   |
|---------------------------------------------|--------------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|-----------|-------------|
| 10,300.00                                   | 90.00              | 359.63         | 9,575.00                  | 696.41        | -910.78       | 415,747.49                | 769,041.82               | 32.140831 | -103.597657 |
| 10,400.00                                   | 90.00              | 359.63         | 9,575.00                  | 796.40        | -911.43       | 415,847.49                | 769,041.18               | 32.141106 | -103.597657 |
| 10,500.00                                   | 90.00              | 359.63         | 9,575.00                  | 896.40        | -912.08       | 415,947.49                | 769,040.53               | 32.141380 | -103.597657 |
| 10,600.00                                   | 90.00              | 359.63         | 9,575.00                  | 996.40        | -912.72       | 416,047.49                | 769,039.89               | 32.141655 | -103.597657 |
| 10,700.00                                   | 90.00              | 359.63         | 9,575.00                  | 1,096.40      | -913.37       | 416,147.48                | 769,039.24               | 32.141930 | -103.597657 |
| 10,800.00                                   | 90.00              | 359.63         | 9,575.00                  | 1,196.40      | -914.01       | 416,247.48                | 769,038.60               | 32.142205 | -103.597657 |
| 10,900.00                                   | 90.00              | 359.63         | 9,575.00                  | 1,296.39      | -914.66       | 416,347.48                | 769,037.95               | 32.142480 | -103.597657 |
| 11,000.00                                   | 90.00              | 359.63         | 9,575.00                  | 1,396.39      | -915.30       | 416,447.48                | 769,037.31               | 32.142755 | -103.597657 |
| 11,100.00                                   | 90.00              | 359.63         | 9,575.00                  | 1,496.39      | -915.95       | 416,547.48                | 769,036.66               | 32.143030 | -103.597656 |
| 11,200.00                                   | 90.00              | 359.63         | 9,575.00                  | 1,596.39      | -916.59       | 416,647.47                | 769,036.02               | 32.143305 | -103.597656 |
| 11,300.00                                   | 90.00              | 359.63         | 9,575.00                  | 1,696.38      | -917.24       | 416,747.47                | 769,035.37               | 32.143579 | -103.597656 |
| 11,400.00                                   | 90.00              | 359.63         | 9,575.00                  | 1,796.38      | -917.88       | 416,847.47                | 769,034.73               | 32.143854 | -103.597656 |
| 11,500.00                                   | 90.00              | 359.63         | 9,575.00                  | 1,896.38      | -918.53       | 416,947.47                | 769,034.08               | 32.144129 | -103.597656 |
| 11,600.00                                   | 90.00              | 359.63         | 9,575.00                  | 1,996.38      | -919.17       | 417,047.46                | 769,033.44               | 32.144404 | -103.597656 |
| 11,700.00                                   | 90.00              | 359.63         | 9,575.00                  | 2,096.38      | -919.82       | 417,147.46                | 769,032.79               | 32.144679 | -103.597656 |
| 11,800.00                                   | 90.00              | 359.63         | 9,575.00                  | 2,196.37      | -920.46       | 417,247.46                | 769,032.14               | 32.144954 | -103.597656 |
| 11,900.00                                   | 90.00              | 359.63         | 9,575.00                  | 2,296.37      | -921.11       | 417,347.46                | 769,031.50               | 32.145229 | -103.597655 |
| 12,000.00                                   | 90.00              | 359.63         | 9,575.00                  | 2,396.37      | -921.76       | 417,447.45                | 769,030.85               | 32.145504 | -103.597655 |
| 12,100.00                                   | 90.00              | 359.63         | 9,575.00                  | 2,496.37      | -922.40       | 417,547.45                | 769,030.21               | 32.145778 | -103.597655 |
| 12,200.00                                   | 90.00              | 359.63         | 9,575.00                  | 2,596.37      | -923.05       | 417,647.45                | 769,029.56               | 32.146053 | -103.597655 |
| 12,300.00                                   | 90.00              | 359.63         | 9,575.00                  | 2,696.36      | -923.69       | 417,747.45                | 769,028.92               | 32.146328 | -103.597655 |
| 12,400.00                                   | 90.00              | 359.63         | 9,575.00                  | 2,796.36      | -924.34       | 417,847.45                | 769,028.27               | 32.146603 | -103.597655 |
| 12,500.00                                   | 90.00              | 359.63         | 9,575.00                  | 2,896.36      | -924.98       | 417,947.44                | 769,027.63               | 32.146878 | -103.597655 |
| 12,600.00                                   | 90.00              | 359.63         | 9,575.00                  | 2,996.36      | -925.63       | 418,047.44                | 769,026.98               | 32.147153 | -103.597655 |
| 12,700.00                                   | 90.00              | 359.63         | 9,575.00                  | 3,096.36      | -926.27       | 418,147.44                | 769,026.34               | 32.147428 | -103.597654 |
| 12,800.00                                   | 90.00              | 359.63         | 9,575.00                  | 3,196.35      | -926.92       | 418,247.44                | 769,025.69               | 32.147703 | -103.597654 |
| 12,900.00                                   | 90.00              | 359.63         | 9,575.00                  | 3,296.35      | -927.56       | 418,347.43                | 769,025.05               | 32.147977 | -103.597654 |
| 13,000.00                                   | 90.00              | 359.63         | 9,575.00                  | 3,396.35      | -928.21       | 418,447.43                | 769,024.40               | 32.148252 | -103.597654 |
| 13,100.00                                   | 90.00              | 359.63         | 9,575.00                  | 3,496.35      | -928.85       | 418,547.43                | 769,023.76               | 32.148527 | -103.597654 |
| 13,200.00                                   | 90.00              | 359.63         | 9,575.00                  | 3,596.35      | -929.50       | 418,647.43                | 769,023.11               | 32.148802 | -103.597654 |
| 13,300.00                                   | 90.00              | 359.63         | 9,575.00                  | 3,696.34      | -930.14       | 418,747.43                | 769,022.46               | 32.149077 | -103.597654 |
| 13,400.00                                   | 90.00              | 359.63         | 9,575.00                  | 3,796.34      | -930.79       | 418,847.42                | 769,021.82               | 32.149352 | -103.597654 |
| 13,500.00                                   | 90.00              | 359.63         | 9,575.00                  | 3,896.34      | -931.44       | 418,947.42                | 769,021.17               | 32.149627 | -103.597653 |
| 13,600.00                                   | 90.00              | 359.63         | 9,575.00                  | 3,996.34      | -932.08       | 419,047.42                | 769,020.53               | 32.149902 | -103.597653 |
| 13,700.00                                   | 90.00              | 359.63         | 9,575.00                  | 4,096.33      | -932.73       | 419,147.42                | 769,019.88               | 32.150176 | -103.597653 |
| 13,800.00                                   | 90.00              | 359.63         | 9,575.00                  | 4,196.33      | -933.37       | 419,247.41                | 769,019.24               | 32.150451 | -103.597653 |
| 13,900.00                                   | 90.00              | 359.63         | 9,575.00                  | 4,296.33      | -934.02       | 419,347.41                | 769,018.59               | 32.150726 | -103.597653 |
| 14,000.00                                   | 90.00              | 359.63         | 9,575.00                  | 4,396.33      | -934.66       | 419,447.41                | 769,017.95               | 32.151001 | -103.597653 |
| 14,100.00                                   | 90.00              | 359.63         | 9,575.00                  | 4,496.33      | -935.31       | 419,547.41                | 769,017.30               | 32.151276 | -103.597653 |
| 14,200.00                                   | 90.00              | 359.63         | 9,575.00                  | 4,596.32      | -935.95       | 419,647.40                | 769,016.66               | 32.151551 | -103.597653 |
| 14,300.00                                   | 90.00              | 359.63         | 9,575.00                  | 4,696.32      | -936.60       | 419,747.40                | 769,016.01               | 32.151826 | -103.597652 |
| 14,397.32                                   | 90.00              | 359.63         | 9,575.00                  | 4,793.64      | -937.23       | 419,844.72                | 769,015.38               | 32.152093 | -103.597652 |
| <b>LTP @ 14397' MD, 100' FNL, 1605' FWL</b> |                    |                |                           |               |               |                           |                          |           |             |
| 14,400.00                                   | 90.00              | 359.63         | 9,575.00                  | 4,796.32      | -937.24       | 419,847.40                | 769,015.37               | 32.152101 | -103.597652 |
| 14,477.32                                   | 90.00              | 359.63         | 9,575.00                  | 4,873.64      | -937.74       | 419,924.72                | 769,014.87               | 32.152313 | -103.597652 |
| <b>PBHL; 20' FNL, 1605' FWL</b>             |                    |                |                           |               |               |                           |                          |           |             |

Planning Report - Geographic

|           |                                    |                              |                        |
|-----------|------------------------------------|------------------------------|------------------------|
| Database: | EDM r5000.141_Prod US              | Local Co-ordinate Reference: | Well Flagler 8 Fed 38H |
| Company:  | WCDSC Permian NM                   | TVD Reference:               | RKB @ 3472.50ft        |
| Project:  | Lea County (NAD83 New Mexico East) | MD Reference:                | RKB @ 3472.50ft        |
| Site:     | Sec 08-T25S-R33E                   | North Reference:             | Grid                   |
| Well:     | Flagler 8 Fed 38H                  | Survey Calculation Method:   | Minimum Curvature      |
| Wellbore: | Wellbore #1                        |                              |                        |
| Design:   | Permit Plan 2                      |                              |                        |

| Design Targets                                                                              |           |          |          |          |         |            |            |           |             |
|---------------------------------------------------------------------------------------------|-----------|----------|----------|----------|---------|------------|------------|-----------|-------------|
| Target Name                                                                                 |           |          |          |          |         |            |            |           |             |
| - hit/miss target                                                                           | Dip Angle | Dip Dir. | TVD      | +N/-S    | +E/-W   | Northing   | Easting    | Latitude  | Longitude   |
| - Shape                                                                                     | (°)       | (°)      | (ft)     | (ft)     | (ft)    | (usft)     | (usft)     |           |             |
| PBHL - Flagler 38H (31F                                                                     | 0.00      | 0.00     | 0.00     | 4,873.64 | -937.74 | 419,924.72 | 769,014.87 | 32.152313 | -103.597652 |
| - plan misses target center by 4963.04ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)            |           |          |          |          |         |            |            |           |             |
| - Point                                                                                     |           |          |          |          |         |            |            |           |             |
| PBHL - Flagler 8 Fed 38                                                                     | 0.00      | 0.00     | 0.00     | 4,567.13 | -360.77 | 419,618.21 | 769,591.84 | 32.151460 | -103.595795 |
| - plan misses target center by 4581.36ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)            |           |          |          |          |         |            |            |           |             |
| - Point                                                                                     |           |          |          |          |         |            |            |           |             |
| Vertical Point 2 - Flagler                                                                  | 0.00      | 0.00     | 8,300.00 | -122.14  | -510.77 | 414,928.95 | 769,441.84 | 32.138573 | -103.596383 |
| - plan misses target center by 383.77ft at 8336.06ft MD (8262.24 TVD, -195.70 N, -885.53 E) |           |          |          |          |         |            |            |           |             |
| - Point                                                                                     |           |          |          |          |         |            |            |           |             |
| Vertical Point - Falgler F                                                                  | 0.00      | 0.00     | 8,300.00 | -182.14  | -360.77 | 414,868.95 | 769,591.84 | 32.138405 | -103.595900 |
| - plan misses target center by 526.06ft at 8322.92ft MD (8249.18 TVD, -195.40 N, -884.20 E) |           |          |          |          |         |            |            |           |             |
| - Point                                                                                     |           |          |          |          |         |            |            |           |             |

| Plan Annotations |                |                   |            |                                           |
|------------------|----------------|-------------------|------------|-------------------------------------------|
| Measured Depth   | Vertical Depth | Local Coordinates |            | Comment                                   |
| (ft)             | (ft)           | +N/-S (ft)        | +E/-W (ft) |                                           |
| 9,076.53         | 9,002.04       | -200.00           | -905.00    | KOP & FTP @ 9077' MD, 180' FSL, 1605' FWL |
| 14,397.32        | 9,575.00       | 4,793.64          | -937.23    | LTP @ 14397' MD, 100' FNL, 1605' FWL      |
| 14,477.32        | 9,575.00       | 4,873.64          | -937.74    | PBHL; 20' FNL, 1605' FWL                  |

# WCDSC Permian NM

WELL DETAILS: Flagler 8 Fed 38H

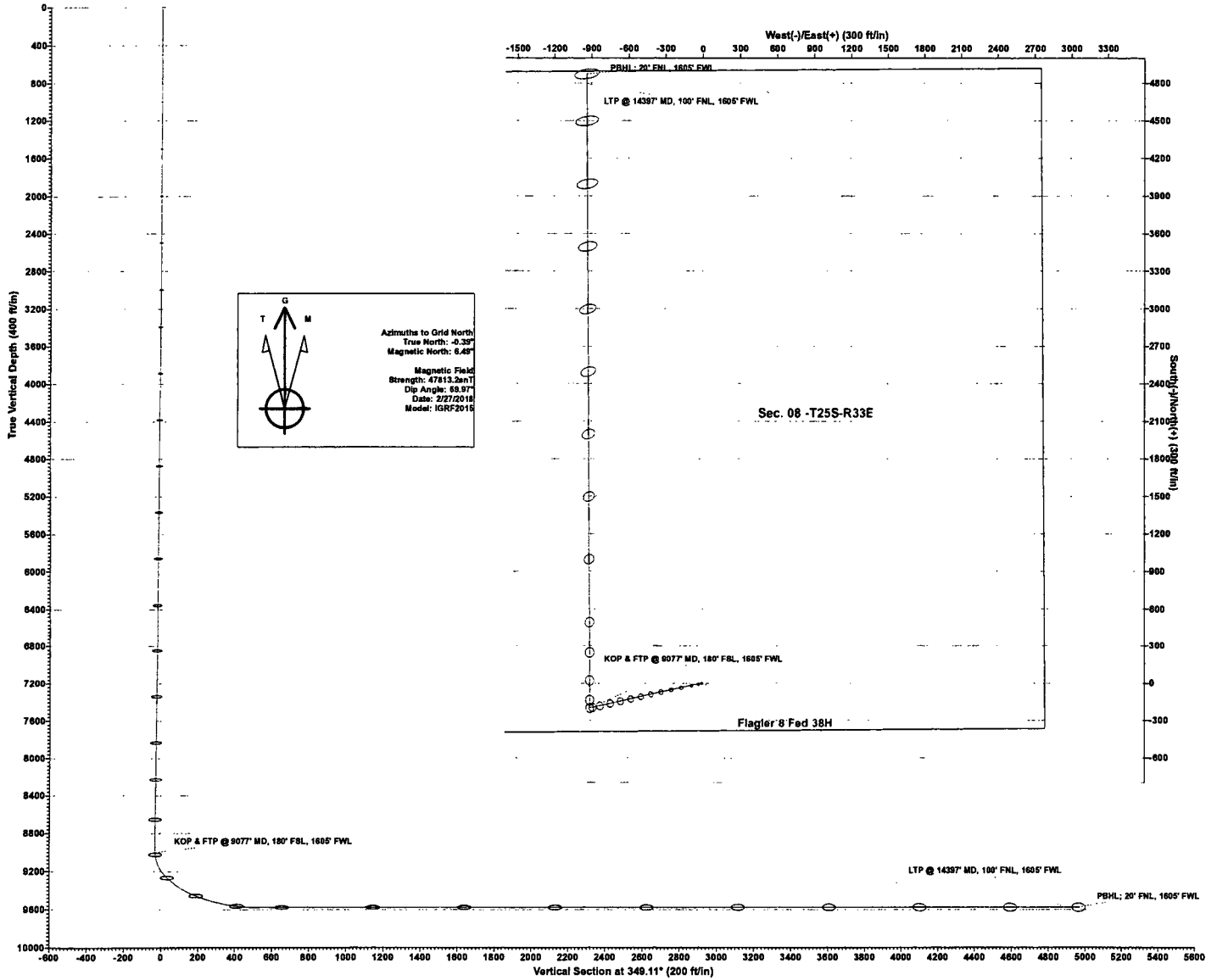
RKB @ 3472.50ft  
3447.50

Northing 415051.09 Easting 769952.61 Latitude 32.138699 Longitude -103.564730

SECTION DETAILS Permit Plan 2

| MD       | Inc   | Azi    | TVD     | +N-S    | +E-W    | Dleg  | Vsect   | Annotation                               |
|----------|-------|--------|---------|---------|---------|-------|---------|------------------------------------------|
| 0.00     | 0.00  | 0.00   | 0.00    | 0.00    | 0.00    | 0.00  | 0.00    |                                          |
| 2400.00  | 0.00  | 0.00   | 2400.00 | 0.00    | 0.00    | 0.00  | 0.00    |                                          |
| 3368.00  | 9.86  | 257.54 | 3361.43 | -17.53  | -79.33  | 1.00  | -2.23   |                                          |
| 8082.49  | 9.86  | 257.54 | 8011.04 | -188.31 | -852.12 | 0.00  | -23.92  |                                          |
| 8726.49  | 0.00  | 0.00   | 8652.00 | -200.00 | -905.00 | 1.50  | -25.40  |                                          |
| 9076.53  | 0.00  | 0.00   | 9002.04 | -200.00 | -905.00 | 0.00  | -25.40  | KOP & FTP @ 9077 MD, 180° FSL, 1605' FWL |
| 9076.53  | 90.00 | 359.63 | 9575.00 | 372.95  | -908.70 | 10.00 | 537.92  |                                          |
| 14477.32 | 90.00 | 359.63 | 9575.00 | 4873.64 | -937.74 | 0.00  | 4963.04 | PBHL: 20° FNL, 1605' FWL                 |

devon



## Devon Energy, Flagler 8 Fed 38H

### 1. Geologic Formations

|               |         |                               |     |
|---------------|---------|-------------------------------|-----|
| TVD of target | 9,575'  | Pilot hole depth              | N/A |
| MD at TD:     | 14,477' | Deepest expected fresh water: |     |

#### Basin

| Formation       | Depth (TVD)<br>from KB | Water/Mineral Bearing/<br>Target Zone? | Hazards* |
|-----------------|------------------------|----------------------------------------|----------|
| RUSTLER         | 1145                   |                                        |          |
| TOP SALT        | 1508                   |                                        |          |
| BASE OF SALT    | 5000                   |                                        |          |
| BELL CANYON     | 5000                   |                                        |          |
| CHERRY CANYON   | 6040                   |                                        |          |
| BRUSHY CANYON   | 7690                   |                                        |          |
| BONE SPRING     | 9110                   |                                        |          |
| BONE SPRING 1ST | 10016                  |                                        |          |
| BONE SPRING 2ND | 10610                  |                                        |          |
|                 |                        |                                        |          |
|                 |                        |                                        |          |
|                 |                        |                                        |          |
|                 |                        |                                        |          |
|                 |                        |                                        |          |
|                 |                        |                                        |          |
|                 |                        |                                        |          |

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

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### 2. Casing Program

| Hole Size                 | Casing Interval |         | Csg. Size | Weight (lbs) | Grade | Conn. | SF Collapse | SF Burst | SF Tension         |
|---------------------------|-----------------|---------|-----------|--------------|-------|-------|-------------|----------|--------------------|
|                           | From            | To      |           |              |       |       |             |          |                    |
| 17.5"                     | 0               | 1,150'  | 13.375"   | 48           | H40   | STC   | 1.125       | 1.25     | 1.6                |
| 12.25"                    | 0               | 5,000'  | 9.625"    | 40           | J55   | LTC   | 1.125       | 1.25     | 1.6                |
| 8.75"                     | 0               | 14,477' | 5.5"      | 17           | P110  | BTC   | 1.125       | 1.25     | 1.6                |
| BLM Minimum Safety Factor |                 |         |           |              |       |       | 1.125       | 1.25     | 1.6 Dry<br>1.8 Wet |

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

|                                                                                                                                                  | Y or N |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1                                                                     | Y      |
| Does casing meet API specifications? If no, attach casing specification sheet.                                                                   | Y      |
| Is premium or uncommon casing planned? If yes attach casing specification sheet.                                                                 | N      |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). | Y      |
| Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?                | Y      |
| Is well located within Capitan Reef?                                                                                                             | N      |
| If yes, does production casing cement tie back a minimum of 50' above the Reef?                                                                  |        |
| Is well within the designated 4 string boundary.                                                                                                 |        |
| Is well located in SOPA but not in R-111-P?                                                                                                      | N      |
| If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?                       |        |
| Is well located in R-111-P and SOPA?                                                                                                             | N      |
| If yes, are the first three strings cemented to surface?                                                                                         |        |
| Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?                                                                               |        |
| Is well located in high Cave/Karst?                                                                                                              | N      |
| If yes, are there two strings cemented to surface?                                                                                               |        |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?                                                           |        |
| Is well located in critical Cave/Karst?                                                                                                          | N      |
| If yes, are there three strings cemented to surface?                                                                                             |        |

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### 3. Cementing Program

| Casing | # Sks | Wt. lb/gal | Yld ft <sup>3</sup> /sack | H <sub>2</sub> O gal/sk | 500# Comp. Strength (hours) | Slurry Description                                                                                                        |
|--------|-------|------------|---------------------------|-------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Surf.  | 901   | 14.8       | 1.33                      | 6.32                    | 6                           | Lead: Class C Cement + 0.125 lbs/sack Poly-F-Flake                                                                        |
| Inter. | 511   | 10.3       | 3.65                      | 22.06                   | 24                          | Lead: (50:50) Poz (Silica) 3 lbm/sk Kol-Seal, .125 lbm/sk Poly-E-Flake                                                    |
|        | 306   | 14.8       | 1.33                      | 6.32                    | 6                           | Tail: Class C Cement + 0.125 lbs/sack Poly-F-Flake                                                                        |
| Prod.  | 426   | 9          | 3.27                      | 13.5                    | 21                          | Lead: Tuned Light Cement                                                                                                  |
|        | 1222  | 14.5       | 1.2                       | 5.31                    | 25                          | Tail: (50:50) Clas H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite |

| Casing String       | TOC   | % Excess |
|---------------------|-------|----------|
| 13-3/8" Surface     | 0'    | 50%      |
| 9-5/8" Intermediate | 0'    | 30%      |
| 5-1/2" Production   | 4800' | 25%      |

### 4. Pressure Control Equipment

|   |                                                                                                      |
|---|------------------------------------------------------------------------------------------------------|
| N | A variance is requested for the use of a diverter on the surface casing. See attached for schematic. |
|---|------------------------------------------------------------------------------------------------------|

| BOP installed and tested before drilling which hole? | Size?   | Min. Required WP | Type       | ✓ | Tested to:              |
|------------------------------------------------------|---------|------------------|------------|---|-------------------------|
| 12-1/4"                                              | 13-5/8" | 3M               | Annular    | x | 50% of working pressure |
|                                                      |         |                  | Blind Ram  |   | 3M                      |
|                                                      |         |                  | Pipe Ram   |   |                         |
|                                                      |         |                  | Double Ram | x |                         |
|                                                      |         |                  | Other*     |   |                         |
| 8-3/4"                                               | 13-5/8" | 3M               | Annular    | x | 50% of working pressure |
|                                                      |         |                  | Blind Ram  |   | 3M                      |
|                                                      |         |                  | Pipe Ram   |   |                         |
|                                                      |         |                  | Double Ram | x |                         |
|                                                      |         |                  | Other*     |   |                         |
|                                                      |         |                  | Annular    |   |                         |
|                                                      |         |                  | Blind Ram  |   |                         |

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|  |  |  |            |  |  |  |
|--|--|--|------------|--|--|--|
|  |  |  | Pipe Ram   |  |  |  |
|  |  |  | Double Ram |  |  |  |
|  |  |  | Other<br>* |  |  |  |

\*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y | Formation integrity test will be performed per Onshore Order #2.<br>On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Y | A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Y | Are anchors required by manufacturer?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Y | <p>A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.</p> <p>Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.</p> <ul style="list-style-type: none"> <li>Wellhead will be installed by wellhead representatives.</li> <li>If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.</li> <li>Wellhead representative will install the test plug for the initial BOP test.</li> <li>Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the packoff, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.</li> </ul> |

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- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi. Low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a Kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon's proposed wellhead manufactures will be EMC Technologies, Cactus Wellhead, or Cameron.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

### 5. Mud Program

| Depth |        | Type            | Weight (ppg) | Viscosity | Water Loss |
|-------|--------|-----------------|--------------|-----------|------------|
| From  | To     |                 |              |           |            |
| 0     | 1150   | FW Gel          | 8.5-9.0      | 28-34     | N/C        |
| 1150  | 5,000  | Saturated Brine | 10.0-11.0    | 28-34     | N/C        |
| 5,000 | 14,477 | Cut Brine       | 8.5-9.3      | 28-34     | N/C        |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

|                                                         |                             |
|---------------------------------------------------------|-----------------------------|
| What will be used to monitor the loss or gain of fluid? | PVT/Pason/Visual Monitoring |
|---------------------------------------------------------|-----------------------------|

## 6. Logging and Testing Procedures

| <b>Logging, Coring and Testing.</b> |                                                                                                                                                             |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| X                                   | Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
|                                     | No Logs are planned based on well control or offset log information.                                                                                        |
|                                     | Drill stem test? If yes, explain                                                                                                                            |
|                                     | Coring? If yes, explain                                                                                                                                     |

| <b>Additional logs planned</b> |             | <b>Interval</b>   |
|--------------------------------|-------------|-------------------|
|                                | Resistivity | Int. shoe to KOP  |
|                                | Density     | Int. shoe to KOP  |
| X                              | CBL         | Production casing |
| X                              | Mud log     | KOP to TD         |
|                                | PEX         |                   |

## 7. Drilling Conditions

| <b>Condition</b>           | <b>Specify what type and where?</b> |
|----------------------------|-------------------------------------|
| BH Pressure at deepest TVD | 4720 psi                            |
| Abnormal Temperature       | No                                  |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

|                                                                                                                                                                                                                                                                                                                                                              |                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Hydrogen Sulfide (H <sub>2</sub> S) monitors will be installed prior to drilling out the surface shoe. If H <sub>2</sub> S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM. |                                |
| N                                                                                                                                                                                                                                                                                                                                                            | H <sub>2</sub> S is present    |
| Y                                                                                                                                                                                                                                                                                                                                                            | H <sub>2</sub> S Plan attached |

## 8. Other facets of operation

Is this a walking operation? Yes

Will be pre-setting casing? Yes

- Spudder rig will move in and drill surface hole.
  - Rig will utilize fresh water based mud to drill 17½" surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).

## **Devon Energy, Flagler 8 Fed 38H**

3. The wellhead will be installed and tested once the 13-3/8" surface casing is cut off and the WOC time has been reached.
4. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
5. Spudder rig operations is expected to take 4-5 days per well on a multi well pad.
6. The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
7. Drilling operations will be performed with the drilling rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
  - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

### Attachments

☒ Directional Plan

☐ Other, describe

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                |                                                                            |                                                                     |
|------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-025-45260</b> | <sup>2</sup> Pool Code<br><b>97900</b>                                     | <sup>3</sup> Pool Name<br><b>RED HILLS; UPPER BONE SPRING SHALE</b> |
| <sup>4</sup> Property Code<br><b>322149</b>    | <sup>5</sup> Property Name<br><b>FLAGLER 8 FEDERAL</b>                     |                                                                     |
| <sup>7</sup> OGRID No.<br><b>6137</b>          | <sup>8</sup> Operator Name<br><b>DEVON ENERGY PRODUCTION COMPANY, L.P.</b> |                                                                     |
|                                                |                                                                            | <sup>6</sup> Well Number<br><b>38H</b>                              |
|                                                |                                                                            | <sup>9</sup> Elevation<br><b>3447.5</b>                             |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N             | 8       | 25 S     | 33 E  |         | 380           | SOUTH            | 2510          | WEST           | LEA    |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| C             | 8       | 25 S     | 33 E  |         | 20            | NORTH            | 1605          | WEST           | LEA    |

| <sup>12</sup> Dedicated Acres | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| 160                           |                               |                                  |                         |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>N89°39'28"E 2646.90 FT</p> <p>1605'</p> <p>NW CORNER SEC. 8<br/>LAT. = 32.1523717°N<br/>LONG. = 103.6028369°W<br/>NMSP EAST (FT)<br/>N = 419935.12<br/>E = 767410.07</p> <p>W/4 CORNER SEC. 8<br/>LAT. = 32.1451155°N<br/>LONG. = 103.6028369°W<br/>NMSP EAST (FT)<br/>N = 417295.40<br/>E = 767427.98</p> <p>SW CORNER SEC. 8<br/>LAT. = 32.1378576°N<br/>LONG. = 103.6028383°W<br/>NMSP EAST (FT)<br/>N = 414655.05<br/>E = 767445.46</p> <p>FTP - 100' FSL<br/>1605' FWL</p> <p>S89°37'55"W 2646.65 FT</p>                                                                                                                                                                            |  | <p>N89°33'52"E 2647.55 FT</p> <p>NE CORNER SEC. 8<br/>LAT. = 32.1523705°N<br/>LONG. = 103.5857333°W<br/>NMSP EAST (FT)<br/>N = 419971.05<br/>E = 772703.39</p> <p>E/4 CORNER SEC. 8<br/>LAT. = 32.1451079°N<br/>LONG. = 103.5857466°W<br/>NMSP EAST (FT)<br/>N = 417328.96<br/>E = 772717.63</p> <p>SE CORNER SEC. 8<br/>LAT. = 32.1378519°N<br/>LONG. = 103.5857514°W<br/>NMSP EAST (FT)<br/>N = 414689.28<br/>E = 772734.46</p> <p>S89°37'35"W 2643.46 FT</p> |  | <p><b>" OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location, or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Rebecca Deal</i> <b>11/1/2018</b><br/>Signature Date</p> <p><b>Rebecca Deal, Regulatory Analyst</b><br/>Printed Name</p> <p><b>rebecca.deal@dvn.com</b><br/>E-mail Address</p> <p><b>"SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p><b>OCTOBER 4, 2018</b><br/>Date of Survey</p> <p><i>[Signature]</i><br/>Signature and Seal of Professional Surveyor</p> <p>Certificate Number: <b>ELAMON F. JARAMILLO, PLS 12797</b><br/>SURVEY NO. <b>5845B</b></p> |
| <p>100' FNL<br/>1605' FWL</p> <p><b>BOTTOM OF HOLE</b><br/>LAT. = 32.1523130°N<br/>LONG. = 103.5976520°W<br/>NMSP EAST (FT)<br/>N = 419924.72<br/>E = 769014.87</p> <p>NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAD83.</p> <p><b>FLAGLER 8 FEDERAL 38H</b><br/>ELEV. = 3447.5'<br/>LAT. = 32.1388992°N (NAD83)<br/>LONG. = 103.5947301°W<br/>NMSP EAST (FT)<br/>N = 415051.09<br/>E = 769952.61</p> <p><b>SURFACE LOCATION</b></p> |  | <p><b>LAST TAKE POINT</b><br/>100' FNL, 1605' FWL<br/>LAT. = 32.1520932°N<br/>LONG. = 103.5976520°W</p> <p><b>FIRST TAKE POINT</b><br/>100' FSL, 1605' FWL<br/>LAT. = 32.1381307°N<br/>LONG. = 103.5976541°W</p>                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Intent ☒ As Drilled ☐

API #  
30-025-45260

|                                                            |                                     |                    |
|------------------------------------------------------------|-------------------------------------|--------------------|
| Operator Name:<br>DEVON ENERGY PRODUCTION<br>COMPANY, L.P. | Property Name:<br>FLAGLER 8 FEDERAL | Well Number<br>38H |
|------------------------------------------------------------|-------------------------------------|--------------------|

Kick Off Point (KOP)

|                       |              |                 |              |     |                          |                 |              |                 |               |
|-----------------------|--------------|-----------------|--------------|-----|--------------------------|-----------------|--------------|-----------------|---------------|
| UL                    | Section<br>8 | Township<br>25S | Range<br>33E | Lot | Feet<br>180              | From N/S<br>FSL | Feet<br>1605 | From E/W<br>FWL | County<br>LEA |
| Latitude<br>32.138367 |              |                 |              |     | Longitude<br>-103.597658 |                 |              | NAD<br>83       |               |

First Take Point (FTP)

|                        |              |                 |              |     |                          |                   |              |                  |               |
|------------------------|--------------|-----------------|--------------|-----|--------------------------|-------------------|--------------|------------------|---------------|
| UL<br>N                | Section<br>8 | Township<br>25S | Range<br>33E | Lot | Feet<br>100              | From N/S<br>SOUTH | Feet<br>1605 | From E/W<br>WEST | County<br>LEA |
| Latitude<br>32.1381307 |              |                 |              |     | Longitude<br>103.5976541 |                   |              | NAD<br>83        |               |

Last Take Point (LTP)

|                        |              |                 |              |     |                          |                   |              |                  |               |
|------------------------|--------------|-----------------|--------------|-----|--------------------------|-------------------|--------------|------------------|---------------|
| UL<br>C                | Section<br>8 | Township<br>25S | Range<br>33E | Lot | Feet<br>100              | From N/S<br>NORTH | Feet<br>1605 | From E/W<br>WEST | County<br>LEA |
| Latitude<br>32.1520932 |              |                 |              |     | Longitude<br>103.5976520 |                   |              | NAD<br>83        |               |

Is this well the defining well for the Horizontal Spacing Unit?

☒

Is this well an infill well?

☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

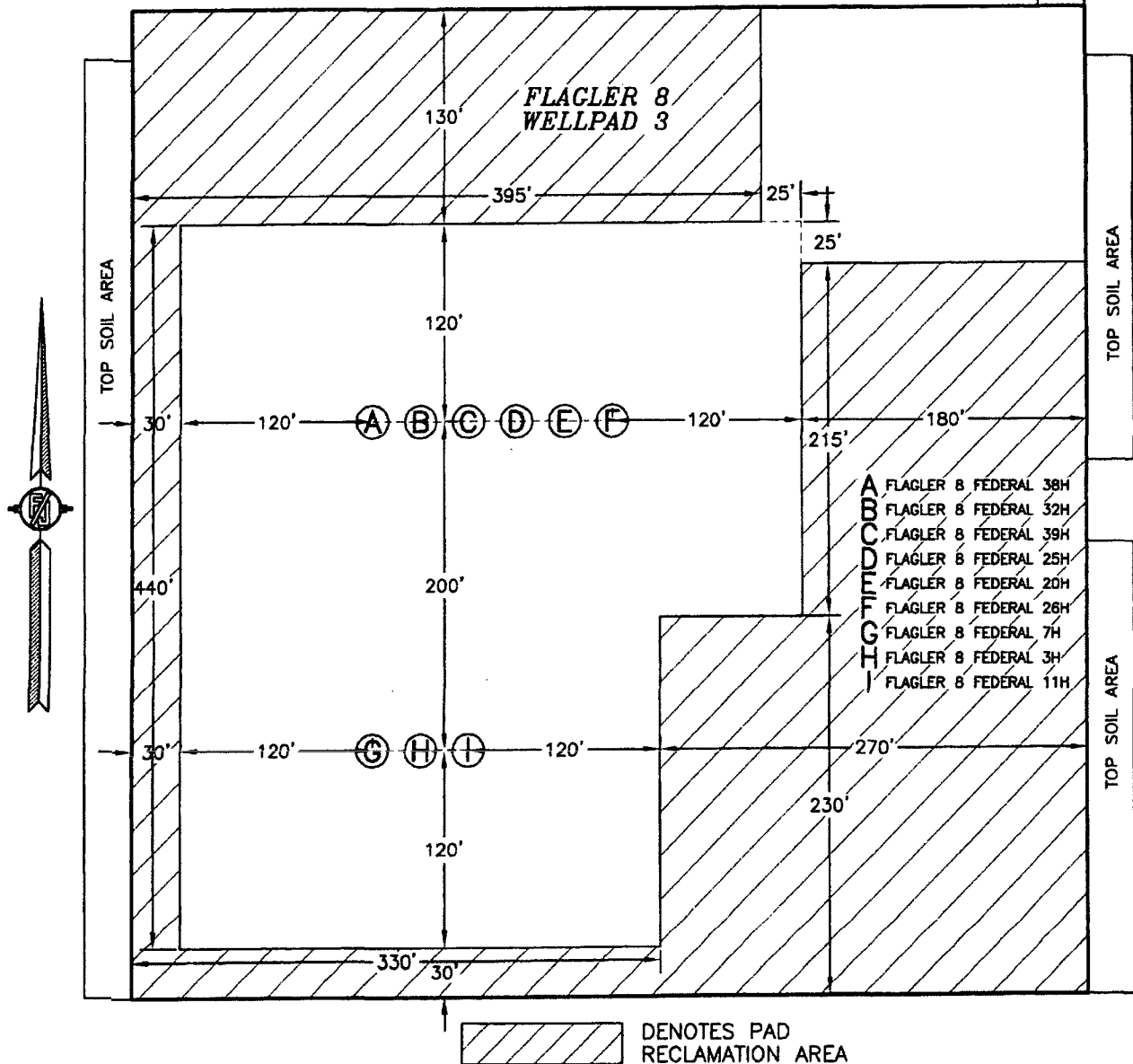
|                |                |             |
|----------------|----------------|-------------|
| Operator Name: | Property Name: | Well Number |
|----------------|----------------|-------------|

KZ 06/29/2018

301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3341

SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO  
SITE BUILD PLAN

PROPOSED 913 L.F.  
ACCESS ROAD



010 50 100 200  
SCALE 1" = 100'

4.023± ACRES PAD RECLAMATION AREA  
4.241± ACRES NON-RECLAIMED AREA  
8.264± ACRES FLAGLER 8 WELLPAD 3

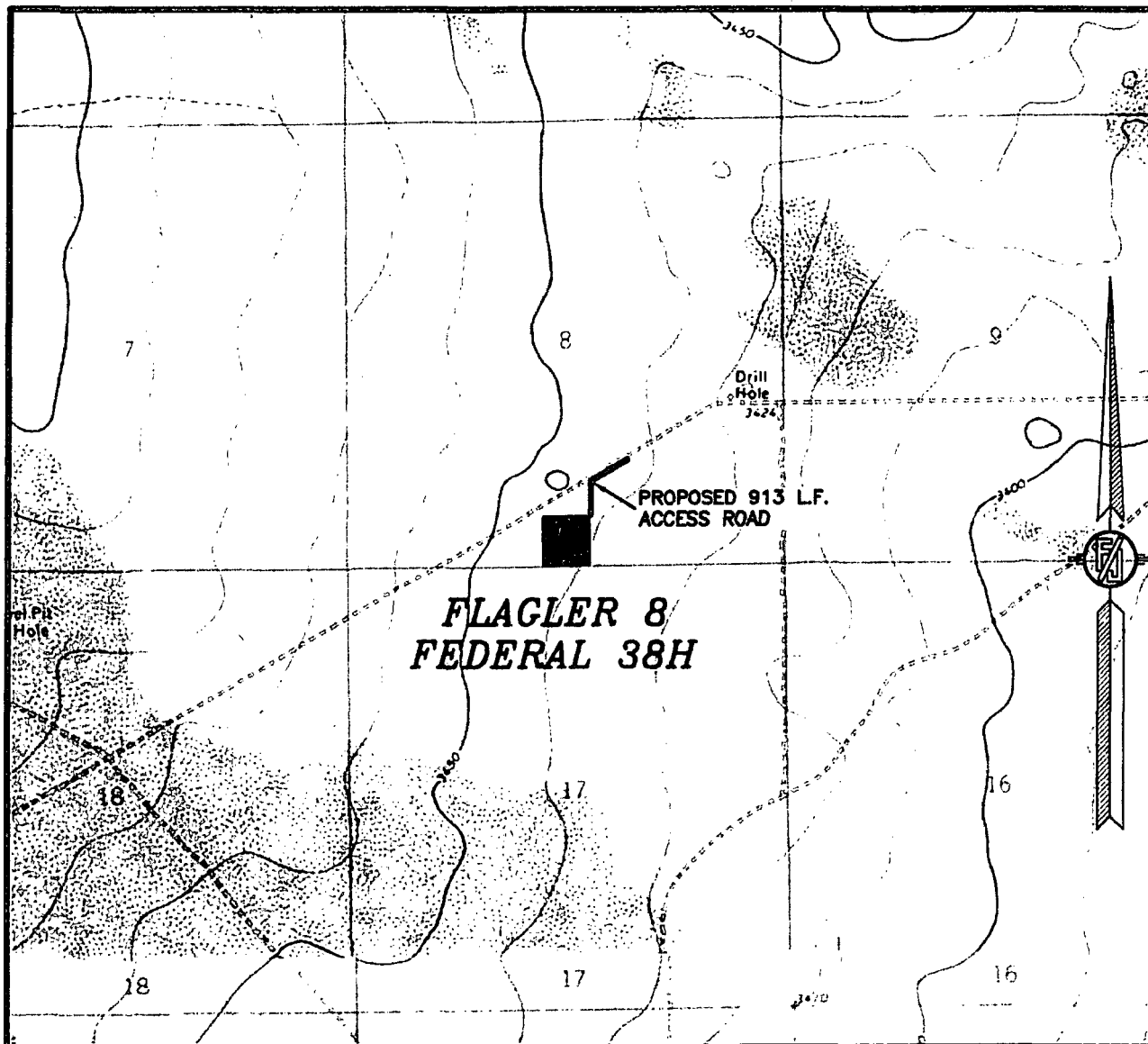
DEVON ENERGY PRODUCTION COMPANY, L.P.  
**FLAGLER 8 FEDERAL 38H**  
LOCATED 380 FT. FROM THE SOUTH LINE  
AND 2510 FT. FROM THE WEST LINE OF  
SECTION 8, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 4, 2018

SURVEY NO. 5845B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3341

SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO  
LOCATION VERIFICATION MAP



USGS QUAD MAP:  
BELL LAKE

NOT TO SCALE

**DEVON ENERGY PRODUCTION COMPANY, L.P.**  
**FLAGLER 8 FEDERAL 38H**

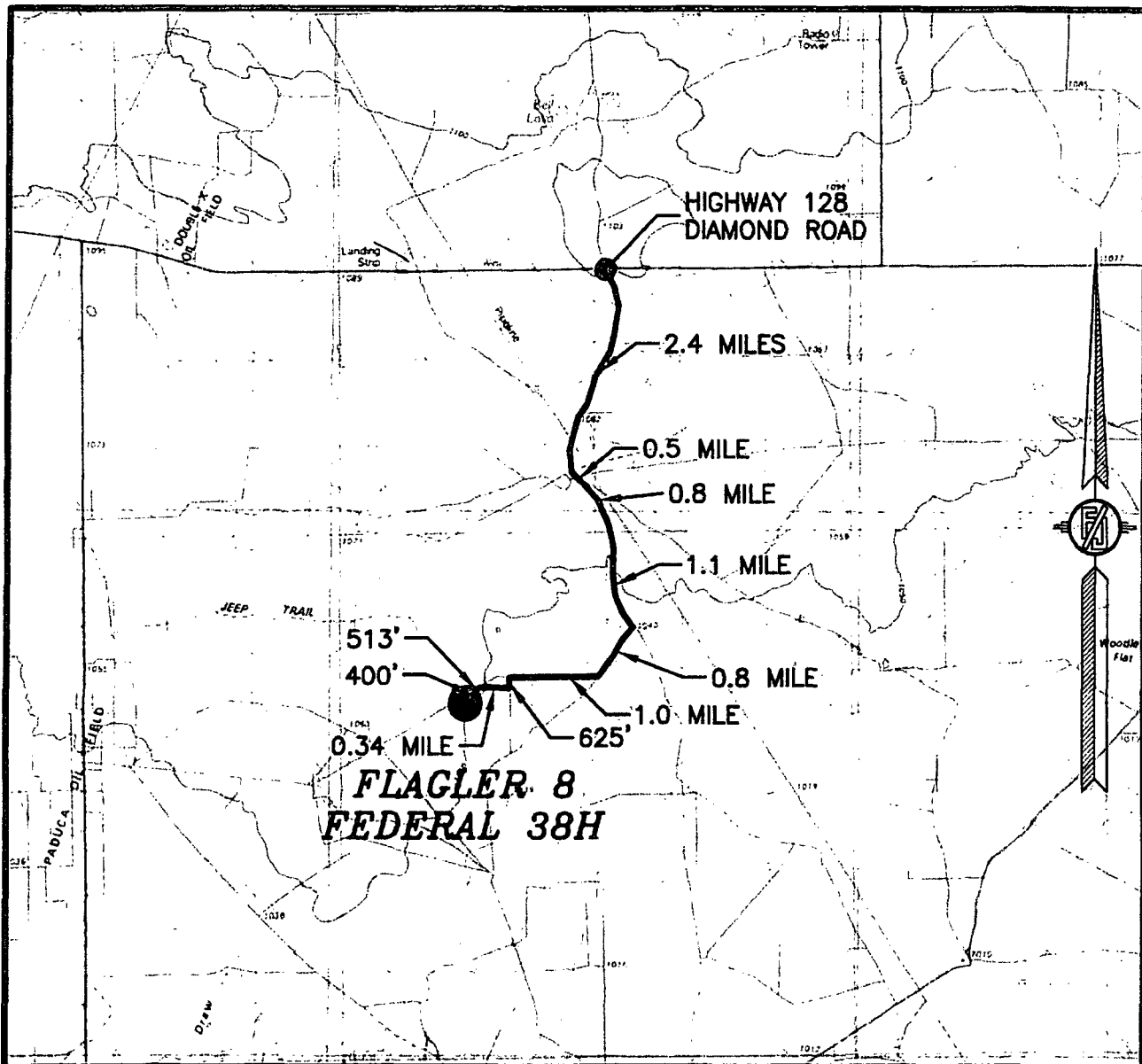
LOCATED 380 FT. FROM THE SOUTH LINE  
AND 2510 FT. FROM THE WEST LINE OF  
SECTION 8, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 4, 2018

SURVEY NO. 5845B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO  
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

**DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF HWY. 128 & DIAMOND ROAD, GO SOUTH ON DIAMOND ROAD APPROX. 2.4 MILES WHERE PAVEMENT ENDS & RANCH HOUSE, CONTINUE SOUTH APPROX. 0.5 MILE TO A "Y" INTERSECTION, GO SOUTH APPROX. 0.8 MILE TO A CATTLE GUARD, CONTINUE SOUTH APPROX. 1.1 MILE TO A "Y" INTERSECTION, GO SOUTHWEST ON LEASE ROAD APPROX. 0.8 MILE TO A LEASE ROAD ON RIGHT (WEST), TURN WEST (RIGHT) GO 1.0 MILE TO GATE, GO THROUGH GATE TO A PROPOSED ROAD SURVEY, FOLLOW PROPOSED ROAD SOUTH 625' TO A PROPOSED "T" INTERSECTION, GO WEST 0.34 MILE TO A PROPOSED "Y" INTERSECTION, GO SOUTHWEST 513' AND SOUTH 400' TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

**DEVON ENERGY PRODUCTION COMPANY, L.P.  
FLAGLER 8 FEDERAL 38H**

LOCATED 380 FT. FROM THE SOUTH LINE  
AND 2510 FT. FROM THE WEST LINE OF  
SECTION 8, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

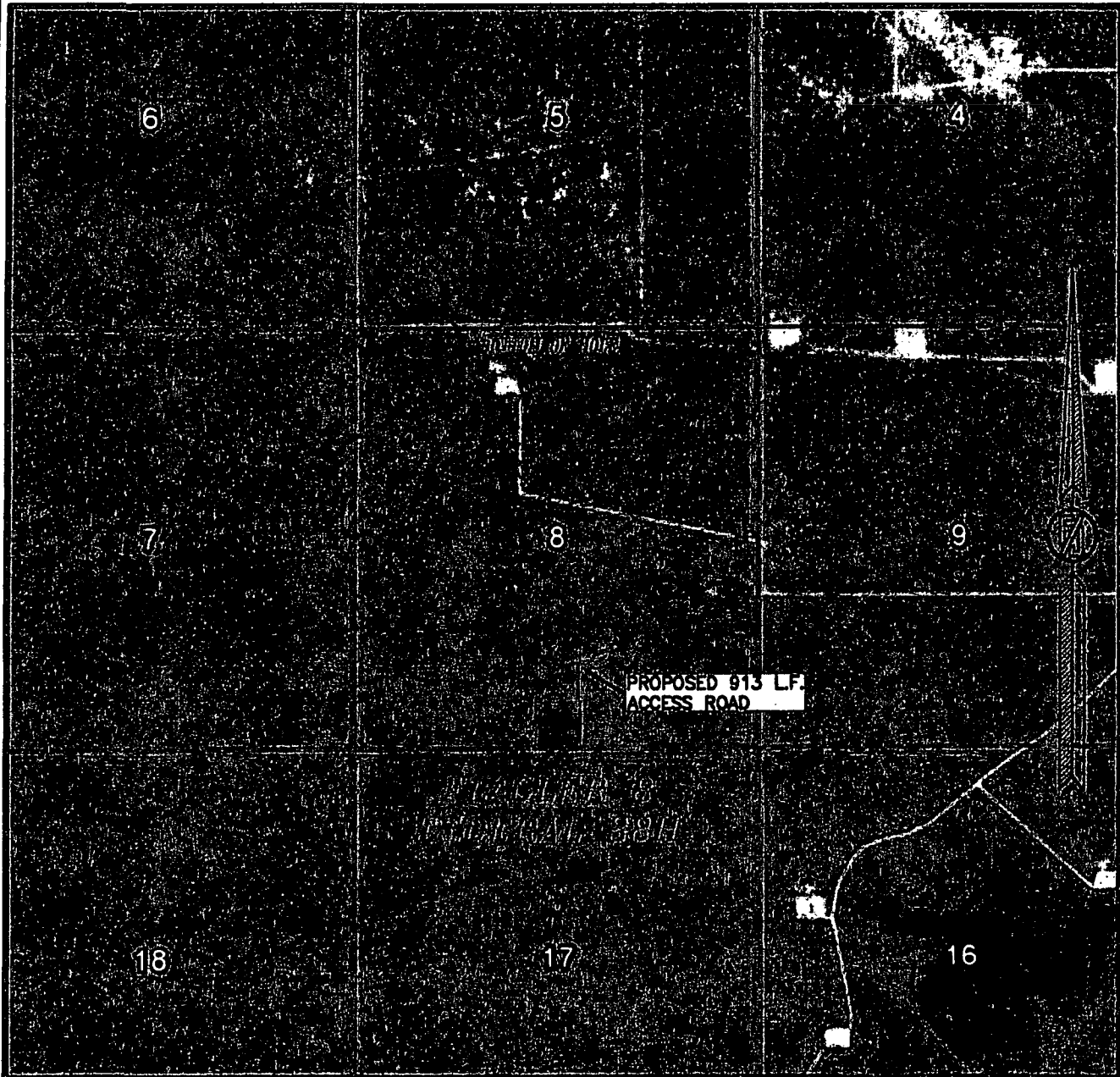
OCTOBER 4, 2018

SURVEY NO. 5845B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO  
**AERIAL PHOTO**



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
NOV. 2017

**DEVON ENERGY PRODUCTION COMPANY, L.P.**  
**FLAGLER 8 FEDERAL 38H**

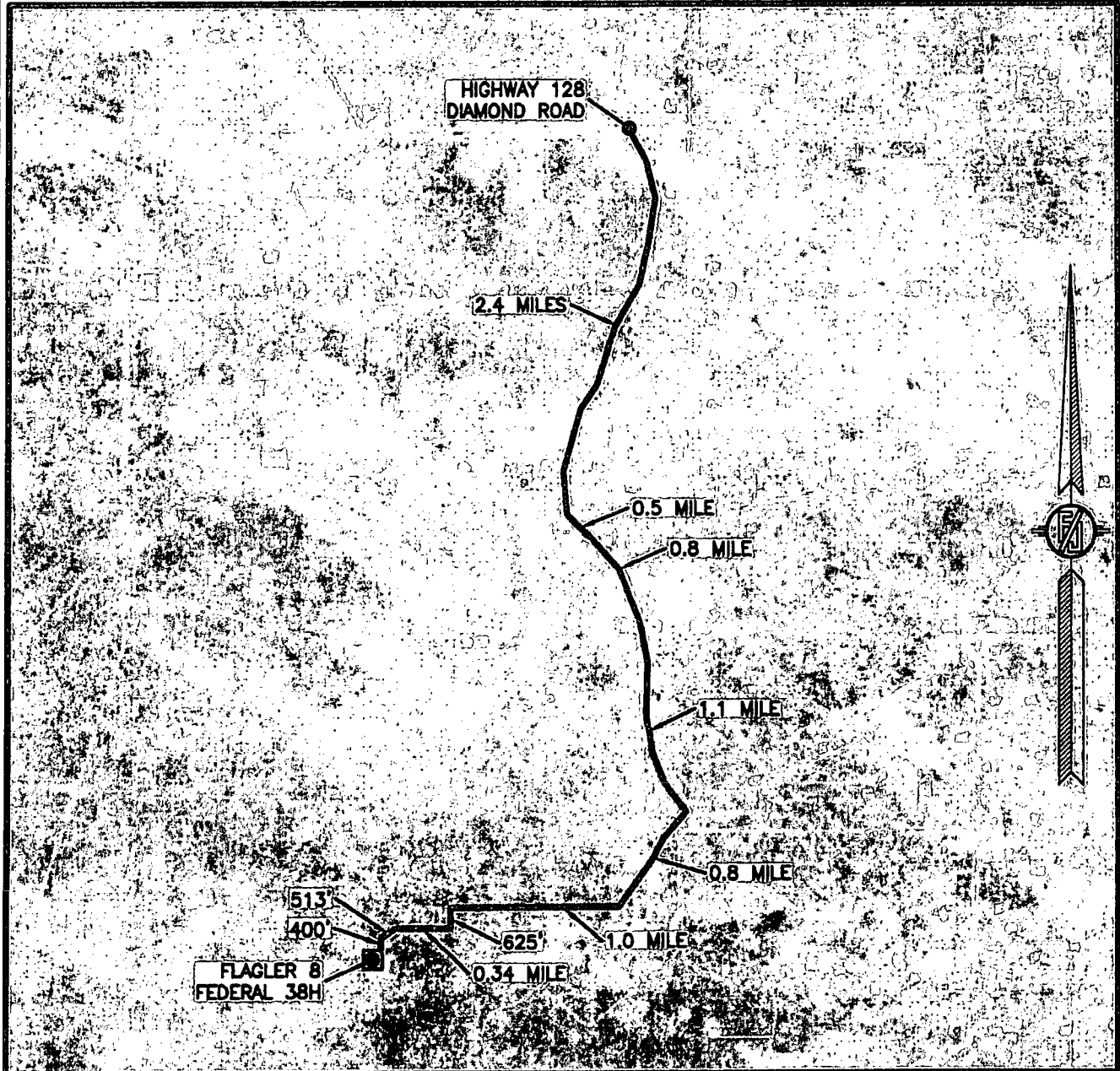
LOCATED 380 FT. FROM THE SOUTH LINE  
AND 2510 FT. FROM THE WEST LINE OF  
SECTION 8, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 4, 2018

SURVEY NO. 5845B

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO  
**AERIAL ACCESS ROUTE MAP**



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
NOV. 2017

**DEVON ENERGY PRODUCTION COMPANY, L.P.**  
**FLAGLER 8 FEDERAL 38H**

LOCATED 380 FT. FROM THE SOUTH LINE  
AND 2510 FT. FROM THE WEST LINE OF  
SECTION 8, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 4, 2018

SURVEY NO. 5845B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3341

# PLAN VIEW

LIMITS OF  
EARTHWORK  
3:1 SLOPE (TYP.)

LIMITS OF  
EARTHWORK  
3:1 SLOPE (TYP.)

**FLAGLER  
8 WELLPAD 3  
PROPOSED PAD  
EL. = 3446.0'**

PAD  
CENTER  
POINT

A FLAGLER 8 FEDERAL 38H  
B FLAGLER 8 FEDERAL 32H  
C FLAGLER 8 FEDERAL 39H  
D FLAGLER 8 FEDERAL 25H  
E FLAGLER 8 FEDERAL 20H  
F FLAGLER 8 FEDERAL 26H  
G FLAGLER 8 FEDERAL 7H  
H FLAGLER 8 FEDERAL 3H  
I FLAGLER 8 FEDERAL 11H

0 12 60 120 240  
SCALE 1" = 120'

DEVON ENERGY PRODUCTION COMPANY, L.P.  
PAD GRADING AND CROSS SECTIONS  
**FOR FLAGLER 8 FEDERAL 38H**  
SECTION 8, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

| CUT          | FILL         | NET                |
|--------------|--------------|--------------------|
| 11477 CU. YD | 14191 CU. YD | 2714 CU. YD (FILL) |

EARTHWORK QUANTITIES ARE ESTIMATED

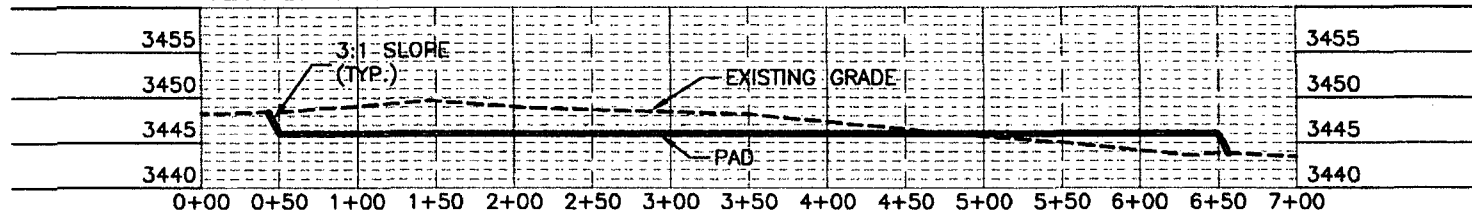
OCTOBER 4, 2018

MADRON SURVEYING, INC. 301 SOUTH CANAL (S/S) 234-3341 CARLSBAD, NEW MEXICO

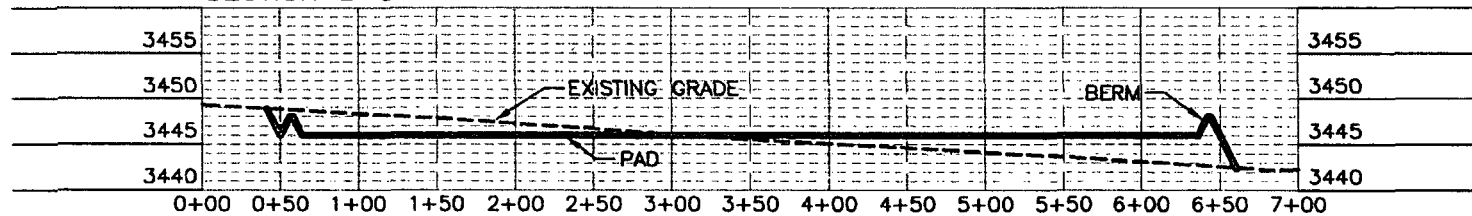
SHEET 1-2  
SURVEY NO. 5845B

# CROSS-SECTIONS

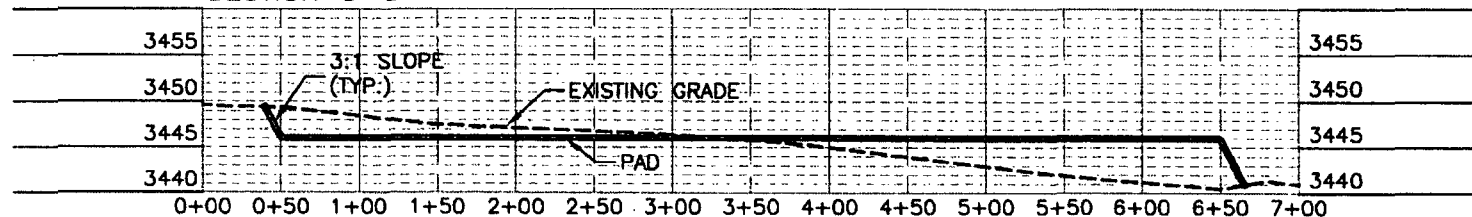
SECTION A-A'



SECTION B-B'



SECTION C-C'



0 12 60 120 240  
SCALE 1" = 120' - 1" = 20' VER

DEVON ENERGY PRODUCTION COMPANY, L.P.  
PAD GRADING AND CROSS SECTIONS  
FOR FLAGLER & FEDERAL 38H  
SECTION 8, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

| CUT          | FILL         | NET                |
|--------------|--------------|--------------------|
| 11477 CU. YD | 14191 CU. YD | 2714 CU. YD (FILL) |

EARTHWORK QUANTITIES ARE ESTIMATED

OCTOBER 4, 2018

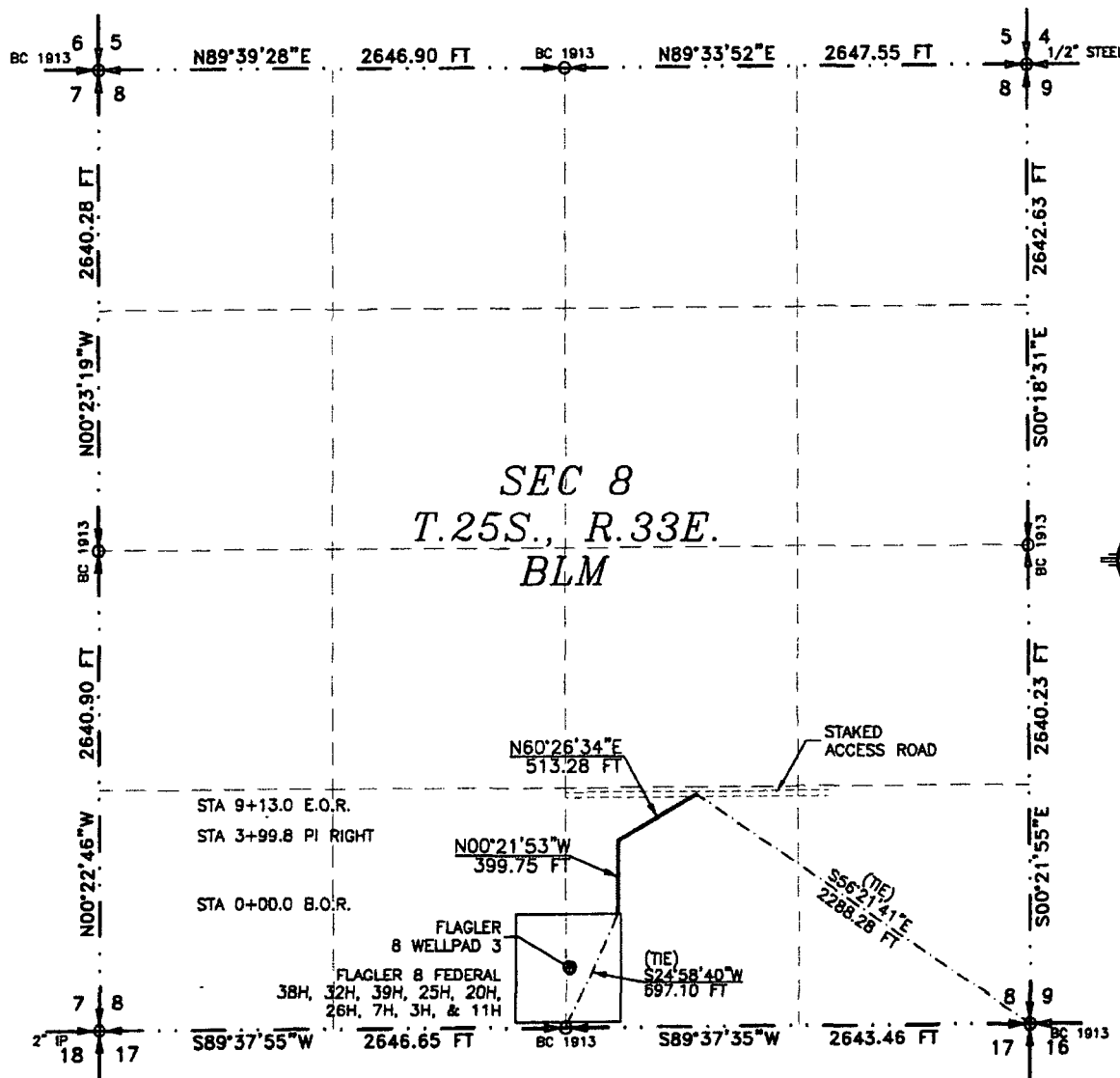
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SHEET 2-2  
SURVEY NO. 5845B

# ACCESS ROAD PLAT

ACCESS ROAD FOR FLAGLER 8 WELLPAD 3  
(FLAGLER 8 FEDERAL 38H, 32H, 39H, 25H, 20H, 26H, 7H, 3H, & 11H)

DEVON ENERGY PRODUCTION COMPANY, L.P.  
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO  
OCTOBER 4, 2018



SEE NEXT SHEET (2-2) FOR DESCRIPTION

## SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

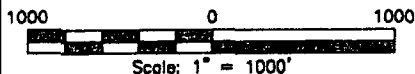
NEW MEXICO, THIS 4 DAY OF OCTOBER 2018

*[Signature]*  
FILMON F. JARAMILLO PLS. 12797

MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

SURVEY NO. 5845B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341



## GENERAL NOTES

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

# ACCESS ROAD PLAT

ACCESS ROAD FOR FLAGLER 8 WELLPAD 3  
(FLAGLER 8 FEDERAL 38H, 32H, 39H, 25H, 20H, 26H, 7H, 3H, & 11H)

DEVON ENERGY PRODUCTION COMPANY, L.P.  
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 4, 2018

## DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SW/4 SE/4 OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS S24°58'40"W, A DISTANCE OF 697.10 FEET;  
THENCE N00°21'53"W A DISTANCE OF 399.75 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;  
THENCE N60°26'34"E A DISTANCE OF 513.28 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M. BEARS S56°21'41"E, A DISTANCE OF 2288.28 FEET;

SAID STRIP OF LAND BEING 913.03 FEET OR 55.34 RODS IN LENGTH, CONTAINING 0.629 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4 913.03 L.F. 55.34 RODS 0.629 ACRES

## SURVEYOR CERTIFICATE

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,  
NEW MEXICO, THIS 9 DAY OF OCTOBER 2018

## GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 2-2

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220  
(575) 234-3341

MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (575) 234-3341

SURVEY NO. 5845B