

## Carlsbad Field Office

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.***SUBMIT IN TRIPLICATE - Other instructions on page 2****HOBBS OGD**5. Lease Serial No.  
NMNM97151

6. If Indian, Allottee or Tribe Name

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

NOV 28 2018

8. Well Name and No.

FLAGLER 8 FED 25H

2. Name of Operator

DEVON ENERGY PRODUCTION COMPANY

Contact: REBECCA DEAL

Email: Rebecca.Deal@dvn.com

**RECEIVED**

9. API Well No.

30-025-45013-00-X1

3a. Address

333 WEST SHERIDAN AVENUE  
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 405-228-8429

10. Field and Pool or Exploratory Area

RED HILLS-UP BONE SPRING SHALE

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

Sec 8 T25S R33E SESW 380FSL 2600FWL  
32.138901 N Lat, 103.594437 W Lon

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 recomplete 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 & 2435' FEL, both Sec. 8-25S-33E

Target change from 9800' TVD/14,343' MD to 9375' TVD/14,171' MD.

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

- all previous COAs still apply.

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

Electronic Submission #442366 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 (19PP0280SE)

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 11/15/2018

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 \*\*

## Devon Energy, Flagler 8 Fed 25H

### 1. Geologic Formations

|               |         |                               |     |
|---------------|---------|-------------------------------|-----|
| TVD of target | 9,375'  | Pilot hole depth              | N/A |
| MD at TD:     | 14,171' | 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.

## Devon Energy, Flagler 8 Fed 25H

### 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               | TD     | 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?                                                                                             |        |

## Devon Energy, Flagler 8 Fed 25H

### 3. Cementing Program

| Casing | # Sk | 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.  | 457  | 9          | 3.27                      | 13.5                    | 21                          | Lead: Tuned Light Cement                                                                                                  |
|        | 1207 | 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  |   |                         |

## Devon Energy, Flagler 8 Fed 25H

|  |  |  |            |  |  |  |
|--|--|--|------------|--|--|--|
|  |  |  | 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> |

## Devon Energy, Flagler 8 Fed 25H

- 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 | 14,171 | 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? No.

Will be pre-setting casing? No.

Attachments

  x   Directional Plan

       Other, describe

# **WCDSC Permian NM**

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

**Sec 08-T25S-R33E**

**Flagler 8 Fed 25H**

**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 25H |
| <b>Project:</b>           | Lea County (NAD83 New Mexico East) | <b>TVD Reference:</b>               | RKB @ 3471.50ft        |
| <b>Reference Site:</b>    | Sec 08-T25S-R33E                   | <b>MD Reference:</b>                | RKB @ 3471.50ft        |
| <b>Site Error:</b>        | 0.00 ft                            | <b>North Reference:</b>             | Grid                   |
| <b>Reference Well:</b>    | Flagler 8 Fed 25H                  | <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>Error Model:</b>   | ISCWSA              |
| <b>Depth Range:</b>                 | Unlimited                                                           | <b>Scan Method:</b>   | Closest Approach 3D |
| <b>Results Limited by:</b>          | Maximum center-center distance of 1,500.00 ft                       | <b>Error Surface:</b> | Pedal Curve         |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          | <b>Casing Method:</b> | Not applied         |

|                            |                 |                             |                        |
|----------------------------|-----------------|-----------------------------|------------------------|
| <b>Survey Tool Program</b> | Date 10/16/2018 |                             |                        |
| <b>From (ft)</b>           | <b>To (ft)</b>  | <b>Survey (Wellbore)</b>    | <b>Tool Name</b>       |
| 0.00                       | 14,171.06       | Permit Plan 2 (Wellbore #1) | MWD+IGRF               |
|                            |                 |                             | <b>Description</b>     |
|                            |                 |                             | OWSG MWD + IGRF or WMM |

|                                                 |                                      |                                   |                                      |                              |                          |                   |
|-------------------------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|------------------------------|--------------------------|-------------------|
| <b>Summary</b>                                  |                                      |                                   |                                      |                              |                          |                   |
| <b>Site Name</b>                                | <b>Reference Measured Depth (ft)</b> | <b>Offset Measured Depth (ft)</b> | <b>Distance Between Centres (ft)</b> | <b>Between Ellipses (ft)</b> | <b>Separation Factor</b> | <b>Warning</b>    |
| <b>Offset Well - Wellbore - Design</b>          |                                      |                                   |                                      |                              |                          |                   |
| Sec 08-T25S-R33E                                |                                      |                                   |                                      |                              |                          |                   |
| Flagler 8 Fed 39H - Wellbore #1 - Permit Plan 1 | 13,850.00                            | 13,851.13                         | 1.23                                 | -181.20                      | 0.007                    | Collision, ES     |
| Flagler 8 Fed 39H - Wellbore #1 - Permit Plan 1 | 13,864.19                            | 13,865.29                         | 0.45                                 | -147.80                      | 0.003                    | Collision, CC, SF |
| Flagler Fed #1 - Wellbore #1 - Wellbore #1      | 13,523.76                            | 9,368.02                          | 891.72                               | 754.78                       | 6.512                    | CC, ES            |
| Flagler Fed #1 - Wellbore #1 - Wellbore #1      | 13,600.00                            | 9,366.98                          | 894.97                               | 757.24                       | 6.498                    | SF                |

|                            |                     |                     |                     |                 |             |                   |          |                        |                      |                       |      |                    |                                                                    |                   |                            |         |  |
|----------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-------------------|----------|------------------------|----------------------|-----------------------|------|--------------------|--------------------------------------------------------------------|-------------------|----------------------------|---------|--|
| <b>Offset Design</b>       |                     |                     |                     |                 |             |                   |          |                        |                      |                       |      |                    | Sec 08-T25S-R33E - Flagler 8 Fed 39H - 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 Toolface |          | Offset Wellbore Centre |                      | Distance              |      | Minimum Separation |                                                                    | 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) | (ft) | (ft)               | (ft)                                                               |                   |                            |         |  |
| 0.00                       | 0.00                | 0.30                | 0.30                | 0.50            | 0.50        | -90.36            | -0.19    | -29.99                 | 29.99                |                       |      |                    |                                                                    |                   |                            |         |  |
| 50.00                      | 50.00               | 50.30               | 50.30               | 0.50            | 0.50        | -90.36            | -0.19    | -29.99                 | 29.99                | 28.98                 | 1.01 | 29.795             |                                                                    |                   |                            |         |  |
| 100.00                     | 100.00              | 100.30              | 100.30              | 0.52            | 0.52        | -90.36            | -0.19    | -29.99                 | 29.99                | 28.95                 | 1.04 | 28.954             |                                                                    |                   |                            |         |  |
| 150.00                     | 150.00              | 150.30              | 150.30              | 0.59            | 0.59        | -90.36            | -0.19    | -29.99                 | 29.99                | 28.81                 | 1.18 | 25.393             |                                                                    |                   |                            |         |  |
| 200.00                     | 200.00              | 200.30              | 200.30              | 0.70            | 0.70        | -90.36            | -0.19    | -29.99                 | 29.99                | 28.59                 | 1.40 | 21.346             |                                                                    |                   |                            |         |  |
| 250.00                     | 250.00              | 250.30              | 250.30              | 0.84            | 0.84        | -90.36            | -0.19    | -29.99                 | 29.99                | 28.31                 | 1.68 | 17.891             |                                                                    |                   |                            |         |  |
| 300.00                     | 300.00              | 300.30              | 300.30              | 0.99            | 0.99        | -90.36            | -0.19    | -29.99                 | 29.99                | 28.02                 | 1.98 | 15.181             |                                                                    |                   |                            |         |  |
| 350.00                     | 350.00              | 350.30              | 350.30              | 1.15            | 1.15        | -90.36            | -0.19    | -29.99                 | 29.99                | 27.70                 | 2.29 | 13.085             |                                                                    |                   |                            |         |  |
| 400.00                     | 400.00              | 400.30              | 400.30              | 1.31            | 1.31        | -90.36            | -0.19    | -29.99                 | 29.99                | 27.37                 | 2.62 | 11.450             |                                                                    |                   |                            |         |  |
| 450.00                     | 450.00              | 450.30              | 450.30              | 1.48            | 1.48        | -90.36            | -0.19    | -29.99                 | 29.99                | 27.04                 | 2.95 | 10.154             |                                                                    |                   |                            |         |  |
| 500.00                     | 500.00              | 500.30              | 500.30              | 1.65            | 1.65        | -90.36            | -0.19    | -29.99                 | 29.99                | 26.70                 | 3.29 | 9.107              |                                                                    |                   |                            |         |  |
| 550.00                     | 550.00              | 550.30              | 550.30              | 1.82            | 1.82        | -90.36            | -0.19    | -29.99                 | 29.99                | 26.35                 | 3.64 | 8.247              |                                                                    |                   |                            |         |  |
| 600.00                     | 600.00              | 600.30              | 600.30              | 1.99            | 1.99        | -90.36            | -0.19    | -29.99                 | 29.99                | 26.01                 | 3.98 | 7.531              |                                                                    |                   |                            |         |  |
| 650.00                     | 650.00              | 650.30              | 650.30              | 2.16            | 2.17        | -90.36            | -0.19    | -29.99                 | 29.99                | 25.66                 | 4.33 | 6.926              |                                                                    |                   |                            |         |  |
| 700.00                     | 700.00              | 700.30              | 700.30              | 2.34            | 2.34        | -90.36            | -0.19    | -29.99                 | 29.99                | 25.31                 | 4.68 | 6.409              |                                                                    |                   |                            |         |  |
| 750.00                     | 750.00              | 750.30              | 750.30              | 2.51            | 2.52        | -90.36            | -0.19    | -29.99                 | 29.99                | 24.96                 | 5.03 | 5.962              |                                                                    |                   |                            |         |  |
| 800.00                     | 800.00              | 800.30              | 800.30              | 2.69            | 2.69        | -90.36            | -0.19    | -29.99                 | 29.99                | 24.61                 | 5.38 | 5.572              |                                                                    |                   |                            |         |  |
| 850.00                     | 850.00              | 850.30              | 850.30              | 2.87            | 2.87        | -90.36            | -0.19    | -29.99                 | 29.99                | 24.26                 | 5.73 | 5.230              |                                                                    |                   |                            |         |  |
| 900.00                     | 900.00              | 900.30              | 900.30              | 3.04            | 3.04        | -90.36            | -0.19    | -29.99                 | 29.99                | 23.90                 | 6.09 | 4.926 Alert        |                                                                    |                   |                            |         |  |
| 950.00                     | 950.00              | 950.30              | 950.30              | 3.22            | 3.22        | -90.36            | -0.19    | -29.99                 | 29.99                | 23.55                 | 6.44 | 4.655 Alert        |                                                                    |                   |                            |         |  |
| 1,000.00                   | 1,000.00            | 1,000.30            | 1,000.30            | 3.40            | 3.40        | -90.36            | -0.19    | -29.99                 | 29.99                | 23.19                 | 6.80 | 4.413 Alert        |                                                                    |                   |                            |         |  |
| 1,050.00                   | 1,050.00            | 1,050.30            | 1,050.30            | 3.58            | 3.58        | -90.36            | -0.19    | -29.99                 | 29.99                | 22.84                 | 7.15 | 4.194 Alert        |                                                                    |                   |                            |         |  |
| 1,100.00                   | 1,100.00            | 1,100.30            | 1,100.30            | 3.75            | 3.75        | -90.36            | -0.19    | -29.99                 | 29.99                | 22.48                 | 7.51 | 3.995 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 25H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 25H  
 TVD Reference: RKB @ 3471.50ft  
 MD Reference: RKB @ 3471.50ft  
 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 1 |                     |                     |                     |                 |             |                       |                        |            |                      |                       |                         |                   | 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) |                         |                   |                            |
| 1,150.00                                                                         | 1,150.00            | 1,150.30            | 1,150.30            | 3.93            | 3.93        | -90.36                | -0.19                  | -29.99     | 29.99                | 22.13                 | 7.86                    | 3.815             | Alert                      |
| 1,200.00                                                                         | 1,200.00            | 1,200.30            | 1,200.30            | 4.11            | 4.11        | -90.36                | -0.19                  | -29.99     | 29.99                | 21.77                 | 8.22                    | 3.650             | Alert                      |
| 1,250.00                                                                         | 1,250.00            | 1,250.30            | 1,250.30            | 4.29            | 4.29        | -90.36                | -0.19                  | -29.99     | 29.99                | 21.42                 | 8.57                    | 3.498             | Alert                      |
| 1,300.00                                                                         | 1,300.00            | 1,300.30            | 1,300.30            | 4.46            | 4.47        | -90.36                | -0.19                  | -29.99     | 29.99                | 21.06                 | 8.93                    | 3.359             | Alert                      |
| 1,350.00                                                                         | 1,350.00            | 1,350.30            | 1,350.30            | 4.64            | 4.64        | -90.36                | -0.19                  | -29.99     | 29.99                | 20.70                 | 9.29                    | 3.230             | Alert                      |
| 1,400.00                                                                         | 1,400.00            | 1,400.30            | 1,400.30            | 4.82            | 4.82        | -90.36                | -0.19                  | -29.99     | 29.99                | 20.35                 | 9.64                    | 3.110             | Alert                      |
| 1,450.00                                                                         | 1,450.00            | 1,450.30            | 1,450.30            | 5.00            | 5.00        | -90.36                | -0.19                  | -29.99     | 29.99                | 19.99                 | 10.00                   | 2.999             | Alert                      |
| 1,500.00                                                                         | 1,500.00            | 1,500.30            | 1,500.30            | 5.18            | 5.18        | -90.36                | -0.19                  | -29.99     | 29.99                | 19.64                 | 10.36                   | 2.896             | Alert                      |
| 1,550.00                                                                         | 1,550.00            | 1,550.30            | 1,550.30            | 5.36            | 5.36        | -90.36                | -0.19                  | -29.99     | 29.99                | 19.28                 | 10.71                   | 2.800             | Alert                      |
| 1,600.00                                                                         | 1,600.00            | 1,600.30            | 1,600.30            | 5.53            | 5.54        | -90.36                | -0.19                  | -29.99     | 29.99                | 18.92                 | 11.07                   | 2.709             | Alert                      |
| 1,650.00                                                                         | 1,650.00            | 1,650.30            | 1,650.30            | 5.71            | 5.71        | -90.36                | -0.19                  | -29.99     | 29.99                | 18.56                 | 11.43                   | 2.625             | Alert                      |
| 1,700.00                                                                         | 1,700.00            | 1,700.30            | 1,700.30            | 5.89            | 5.89        | -90.36                | -0.19                  | -29.99     | 29.99                | 18.21                 | 11.78                   | 2.545             | Alert                      |
| 1,750.00                                                                         | 1,750.00            | 1,750.30            | 1,750.30            | 6.07            | 6.07        | -90.36                | -0.19                  | -29.99     | 29.99                | 17.85                 | 12.14                   | 2.470             | Minor Risk                 |
| 1,800.00                                                                         | 1,800.00            | 1,800.30            | 1,800.30            | 6.25            | 6.25        | -90.36                | -0.19                  | -29.99     | 29.99                | 17.49                 | 12.50                   | 2.400             | Minor Risk                 |
| 1,850.00                                                                         | 1,850.00            | 1,850.30            | 1,850.30            | 6.43            | 6.43        | -90.36                | -0.19                  | -29.99     | 29.99                | 17.14                 | 12.86                   | 2.333             | Minor Risk                 |
| 1,900.00                                                                         | 1,900.00            | 1,900.30            | 1,900.30            | 6.61            | 6.61        | -90.36                | -0.19                  | -29.99     | 29.99                | 16.78                 | 13.21                   | 2.270             | Minor Risk                 |
| 1,950.00                                                                         | 1,950.00            | 1,950.30            | 1,950.30            | 6.78            | 6.79        | -90.36                | -0.19                  | -29.99     | 29.99                | 16.42                 | 13.57                   | 2.210             | Minor Risk                 |
| 2,000.00                                                                         | 2,000.00            | 2,000.30            | 2,000.30            | 6.96            | 6.96        | -90.36                | -0.19                  | -29.99     | 29.99                | 16.06                 | 13.93                   | 2.153             | Minor Risk                 |
| 2,050.00                                                                         | 2,050.00            | 2,050.30            | 2,050.30            | 7.14            | 7.14        | -90.36                | -0.19                  | -29.99     | 29.99                | 15.71                 | 14.29                   | 2.099             | Minor Risk                 |
| 2,100.00                                                                         | 2,100.00            | 2,100.30            | 2,100.30            | 7.32            | 7.32        | -90.36                | -0.19                  | -29.99     | 29.99                | 15.35                 | 14.64                   | 2.048             | Minor Risk                 |
| 2,150.00                                                                         | 2,150.00            | 2,150.30            | 2,150.30            | 7.50            | 7.50        | -90.36                | -0.19                  | -29.99     | 29.99                | 14.99                 | 15.00                   | 1.999             | Minor Risk                 |
| 2,200.00                                                                         | 2,200.00            | 2,200.30            | 2,200.30            | 7.68            | 7.68        | -90.36                | -0.19                  | -29.99     | 29.99                | 14.63                 | 15.36                   | 1.953             | Minor Risk                 |
| 2,250.00                                                                         | 2,250.00            | 2,250.30            | 2,250.30            | 7.86            | 7.86        | -90.36                | -0.19                  | -29.99     | 29.99                | 14.27                 | 15.72                   | 1.908             | Minor Risk                 |
| 2,300.00                                                                         | 2,300.00            | 2,300.30            | 2,300.30            | 8.04            | 8.04        | -90.36                | -0.19                  | -29.99     | 29.99                | 13.92                 | 16.07                   | 1.866             | Minor Risk                 |
| 2,350.00                                                                         | 2,350.00            | 2,350.30            | 2,350.30            | 8.22            | 8.22        | -90.36                | -0.19                  | -29.99     | 29.99                | 13.56                 | 16.43                   | 1.825             | Minor Risk                 |
| 2,400.00                                                                         | 2,400.00            | 2,400.30            | 2,400.30            | 8.39            | 8.40        | -90.36                | -0.19                  | -29.99     | 29.99                | 13.20                 | 16.79                   | 1.786             | Minor Risk                 |
| 2,450.00                                                                         | 2,450.00            | 2,450.29            | 2,450.29            | 8.57            | 8.56        | -91.00                | -0.52                  | -29.99     | 29.99                | 12.86                 | 17.14                   | 1.750             | Minor Risk                 |
| 2,500.00                                                                         | 2,500.00            | 2,500.27            | 2,500.26            | 8.75            | 8.73        | -92.87                | -1.51                  | -29.99     | 30.03                | 12.54                 | 17.49                   | 1.717             | Minor Risk                 |
| 2,550.00                                                                         | 2,550.00            | 2,550.26            | 2,550.23            | 8.93            | 8.90        | -95.33                | -2.80                  | -29.99     | 30.12                | 12.29                 | 17.83                   | 1.690             | Minor Risk                 |
| 2,600.00                                                                         | 2,600.00            | 2,600.24            | 2,600.19            | 9.11            | 9.06        | -97.77                | -4.09                  | -29.99     | 30.27                | 12.10                 | 18.17                   | 1.666             | Minor Risk                 |
| 2,650.00                                                                         | 2,650.00            | 2,650.22            | 2,650.16            | 9.29            | 9.22        | -100.17               | -5.38                  | -29.99     | 30.47                | 11.96                 | 18.51                   | 1.646             | Minor Risk                 |
| 2,700.00                                                                         | 2,700.00            | 2,700.21            | 2,700.13            | 9.47            | 9.38        | -102.55               | -6.67                  | -29.99     | 30.72                | 11.87                 | 18.85                   | 1.630             | Minor Risk                 |
| 2,750.00                                                                         | 2,750.00            | 2,750.19            | 2,750.10            | 9.64            | 9.55        | -135.23               | -7.97                  | -29.99     | 31.19                | 12.00                 | 19.19                   | 1.625             | Minor Risk                 |
| 2,800.00                                                                         | 2,799.99            | 2,800.18            | 2,800.07            | 9.81            | 9.71        | -133.81               | -9.26                  | -29.99     | 31.99                | 12.46                 | 19.52                   | 1.638             | Minor Risk                 |
| 2,850.00                                                                         | 2,849.98            | 2,850.16            | 2,850.04            | 9.98            | 9.88        | -133.02               | -10.55                 | -29.99     | 33.10                | 13.25                 | 19.85                   | 1.667             | Minor Risk                 |
| 2,900.00                                                                         | 2,899.96            | 2,900.14            | 2,900.00            | 10.15           | 10.04       | -132.80               | -11.84                 | -29.99     | 34.52                | 14.33                 | 20.19                   | 1.710             | Minor Risk                 |
| 2,950.00                                                                         | 2,949.92            | 2,950.11            | 2,949.95            | 10.31           | 10.21       | -133.12               | -13.13                 | -29.99     | 36.23                | 15.71                 | 20.52                   | 1.766             | Minor Risk                 |
| 3,000.00                                                                         | 2,999.86            | 3,000.07            | 2,999.89            | 10.48           | 10.37       | -133.87               | -14.42                 | -29.99     | 38.24                | 17.39                 | 20.85                   | 1.834             | Minor Risk                 |
| 3,050.00                                                                         | 3,049.79            | 3,050.02            | 3,049.82            | 10.65           | 10.54       | -134.87               | -15.72                 | -29.99     | 40.48                | 19.29                 | 21.19                   | 1.910             | Minor Risk                 |
| 3,100.00                                                                         | 3,099.72            | 3,100.04            | 3,099.75            | 10.82           | 10.71       | -135.77               | -17.01                 | -29.99     | 42.73                | 21.21                 | 21.52                   | 1.985             | Minor Risk                 |
| 3,150.00                                                                         | 3,149.64            | 3,149.91            | 3,149.68            | 10.99           | 10.88       | -136.58               | -18.30                 | -29.99     | 44.99                | 23.13                 | 21.86                   | 2.058             | Minor Risk                 |
| 3,200.00                                                                         | 3,199.57            | 3,200.15            | 3,199.61            | 11.16           | 11.05       | -137.32               | -19.59                 | -29.99     | 47.26                | 25.06                 | 22.20                   | 2.129             | Minor Risk                 |
| 3,250.00                                                                         | 3,249.50            | 3,249.80            | 3,249.53            | 11.33           | 11.21       | -137.99               | -20.88                 | -29.99     | 49.54                | 27.01                 | 22.54                   | 2.198             | Minor Risk                 |
| 3,300.00                                                                         | 3,299.42            | 3,300.26            | 3,299.46            | 11.50           | 11.39       | -138.59               | -22.17                 | -29.99     | 51.82                | 28.95                 | 22.88                   | 2.265             | Minor Risk                 |
| 3,350.00                                                                         | 3,349.35            | 3,349.69            | 3,349.39            | 11.67           | 11.55       | -139.15               | -23.46                 | -29.99     | 54.11                | 30.90                 | 23.21                   | 2.331             | Minor Risk                 |
| 3,400.00                                                                         | 3,399.27            | 3,400.37            | 3,399.32            | 11.84           | 11.73       | -139.66               | -24.75                 | -29.99     | 56.41                | 32.85                 | 23.56                   | 2.395             | Minor Risk                 |
| 3,450.00                                                                         | 3,449.20            | 3,449.58            | 3,449.25            | 12.02           | 11.89       | -140.14               | -26.04                 | -29.99     | 58.70                | 34.81                 | 23.89                   | 2.457             | Minor Risk                 |
| 3,500.00                                                                         | 3,499.13            | 3,500.48            | 3,499.17            | 12.19           | 12.07       | -140.57               | -27.33                 | -29.99     | 61.01                | 36.77                 | 24.24                   | 2.517             | Alert                      |
| 3,550.00                                                                         | 3,549.05            | 3,549.47            | 3,549.10            | 12.36           | 12.23       | -140.98               | -28.63                 | -29.99     | 63.31                | 38.73                 | 24.58                   | 2.576             | Alert                      |
| 3,600.00                                                                         | 3,598.98            | 3,600.59            | 3,599.03            | 12.54           | 12.41       | -141.35               | -29.92                 | -29.99     | 65.62                | 40.69                 | 24.92                   | 2.633             | Alert                      |
| 3,650.00                                                                         | 3,648.91            | 3,649.36            | 3,648.96            | 12.71           | 12.58       | -141.70               | -31.21                 | -29.99     | 67.93                | 42.66                 | 25.26                   | 2.689             | Alert                      |
| 3,700.00                                                                         | 3,698.83            | 3,700.70            | 3,698.89            | 12.89           | 12.75       | -142.03               | -32.50                 | -29.99     | 70.24                | 44.63                 | 25.61                   | 2.742             | 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 25H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 25H  
**TVD Reference:** RKB @ 3471.50ft  
**MD Reference:** RKB @ 3471.50ft  
**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 1 |                     |                     |                     |                 |             |                       |                                 |                                 |                      |                       |                         |                   | 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) | Offset Wellbore Centre E-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning                    |
| 3,750.00                                                                          | 3,748.76            | 3,749.24            | 3,748.82            | 13.06           | 12.92       | 142.34                | -33.79                          | -29.99                          | 72.56                | 46.60                 | 25.95                   | 2.796             | Alert                      |
| 3,800.00                                                                          | 3,798.69            | 3,800.81            | 3,798.74            | 13.23           | 13.10       | 142.63                | -35.08                          | -29.99                          | 74.87                | 48.57                 | 26.30                   | 2.847             | Alert                      |
| 3,850.00                                                                          | 3,848.61            | 3,849.13            | 3,848.67            | 13.41           | 13.26       | 142.90                | -36.37                          | -29.99                          | 77.19                | 50.55                 | 26.64                   | 2.897             | Alert                      |
| 3,900.00                                                                          | 3,898.54            | 3,900.92            | 3,898.60            | 13.59           | 13.44       | 143.15                | -37.66                          | -29.99                          | 79.51                | 52.52                 | 27.00                   | 2.945             | Alert                      |
| 3,950.00                                                                          | 3,948.46            | 3,949.02            | 3,948.53            | 13.76           | 13.61       | 143.39                | -38.95                          | -29.99                          | 81.83                | 54.50                 | 27.34                   | 2.994             | Alert                      |
| 4,000.00                                                                          | 3,998.39            | 4,001.03            | 3,998.46            | 13.94           | 13.79       | 143.62                | -40.24                          | -29.99                          | 84.16                | 56.47                 | 27.69                   | 3.039             | Alert                      |
| 4,050.00                                                                          | 4,048.32            | 4,048.91            | 4,048.39            | 14.11           | 13.96       | 143.83                | -41.53                          | -29.99                          | 86.48                | 58.45                 | 28.03                   | 3.085             | Alert                      |
| 4,100.00                                                                          | 4,098.24            | 4,101.14            | 4,098.31            | 14.29           | 14.14       | 144.04                | -42.83                          | -29.99                          | 88.81                | 60.42                 | 28.38                   | 3.129             | Alert                      |
| 4,150.00                                                                          | 4,148.17            | 4,148.80            | 4,148.24            | 14.47           | 14.30       | 144.23                | -44.12                          | -29.99                          | 91.13                | 62.41                 | 28.72                   | 3.173             | Alert                      |
| 4,200.00                                                                          | 4,198.10            | 4,201.25            | 4,198.17            | 14.65           | 14.49       | 144.41                | -45.41                          | -29.99                          | 93.46                | 64.38                 | 29.08                   | 3.214             | Alert                      |
| 4,250.00                                                                          | 4,248.02            | 4,248.69            | 4,248.10            | 14.82           | 14.65       | 144.59                | -46.70                          | -29.99                          | 95.79                | 66.37                 | 29.42                   | 3.256             | Alert                      |
| 4,300.00                                                                          | 4,297.95            | 4,301.36            | 4,298.03            | 15.00           | 14.83       | 144.75                | -47.99                          | -29.99                          | 98.12                | 68.34                 | 29.78                   | 3.295             | Alert                      |
| 4,350.00                                                                          | 4,347.88            | 4,348.58            | 4,347.95            | 15.18           | 15.00       | 144.91                | -49.28                          | -29.99                          | 100.45               | 70.33                 | 30.12                   | 3.335             | Alert                      |
| 4,400.00                                                                          | 4,397.80            | 4,401.47            | 4,397.88            | 15.36           | 15.18       | 145.06                | -50.57                          | -29.99                          | 102.78               | 72.30                 | 30.48                   | 3.372             | Alert                      |
| 4,450.00                                                                          | 4,447.73            | 4,448.47            | 4,447.81            | 15.54           | 15.35       | 145.21                | -51.86                          | -29.99                          | 105.11               | 74.29                 | 30.82                   | 3.411             | Alert                      |
| 4,500.00                                                                          | 4,497.65            | 4,501.58            | 4,497.74            | 15.71           | 15.53       | 145.35                | -53.15                          | -29.99                          | 107.44               | 76.26                 | 31.18                   | 3.446             | Alert                      |
| 4,550.00                                                                          | 4,547.58            | 4,548.36            | 4,547.67            | 15.89           | 15.70       | 145.48                | -54.44                          | -29.99                          | 109.78               | 78.26                 | 31.52                   | 3.483             | Alert                      |
| 4,600.00                                                                          | 4,597.51            | 4,601.69            | 4,597.60            | 16.07           | 15.88       | 145.61                | -55.74                          | -29.99                          | 112.11               | 80.23                 | 31.88                   | 3.516             | Alert                      |
| 4,650.00                                                                          | 4,647.43            | 4,648.25            | 4,647.52            | 16.25           | 16.05       | 145.73                | -57.03                          | -29.99                          | 114.44               | 82.22                 | 32.22                   | 3.552             | Alert                      |
| 4,700.00                                                                          | 4,697.36            | 4,701.80            | 4,697.45            | 16.43           | 16.24       | 145.85                | -58.32                          | -29.99                          | 116.78               | 84.19                 | 32.59                   | 3.584             | Alert                      |
| 4,750.00                                                                          | 4,747.29            | 4,748.14            | 4,747.38            | 16.61           | 16.40       | 145.96                | -59.61                          | -29.99                          | 119.11               | 86.19                 | 32.93                   | 3.618             | Alert                      |
| 4,800.00                                                                          | 4,797.21            | 4,801.91            | 4,797.31            | 16.79           | 16.59       | 146.07                | -60.90                          | -29.99                          | 121.45               | 88.16                 | 33.29                   | 3.648             | Alert                      |
| 4,850.00                                                                          | 4,847.14            | 4,848.03            | 4,847.24            | 16.97           | 16.75       | 146.17                | -62.19                          | -29.99                          | 123.78               | 90.15                 | 33.63                   | 3.681             | Alert                      |
| 4,900.00                                                                          | 4,897.07            | 4,902.02            | 4,897.17            | 17.15           | 16.94       | 146.27                | -63.48                          | -29.99                          | 126.12               | 92.12                 | 34.00                   | 3.710             | Alert                      |
| 4,950.00                                                                          | 4,946.99            | 4,947.92            | 4,947.09            | 17.33           | 17.10       | 146.37                | -64.77                          | -29.99                          | 128.46               | 94.12                 | 34.33                   | 3.741             | Alert                      |
| 5,000.00                                                                          | 4,996.92            | 5,002.13            | 4,997.02            | 17.51           | 17.29       | 146.46                | -66.06                          | -29.99                          | 130.79               | 96.09                 | 34.70                   | 3.769             | Alert                      |
| 5,050.00                                                                          | 5,046.84            | 5,047.81            | 5,046.95            | 17.69           | 17.45       | 146.55                | -67.35                          | -29.99                          | 133.13               | 98.09                 | 35.04                   | 3.799             | Alert                      |
| 5,100.00                                                                          | 5,096.77            | 5,102.24            | 5,096.88            | 17.87           | 17.65       | 146.64                | -68.65                          | -29.99                          | 135.47               | 100.06                | 35.41                   | 3.826             | Alert                      |
| 5,150.00                                                                          | 5,146.70            | 5,147.70            | 5,146.81            | 18.05           | 17.81       | 146.72                | -69.94                          | -29.99                          | 137.80               | 102.06                | 35.75                   | 3.855             | Alert                      |
| 5,200.00                                                                          | 5,196.62            | 5,202.35            | 5,196.73            | 18.23           | 18.00       | 146.80                | -71.23                          | -29.99                          | 140.14               | 104.03                | 36.12                   | 3.880             | Alert                      |
| 5,250.00                                                                          | 5,246.55            | 5,247.59            | 5,246.66            | 18.41           | 18.16       | 146.88                | -72.52                          | -29.99                          | 142.48               | 106.03                | 36.45                   | 3.909             | Alert                      |
| 5,300.00                                                                          | 5,296.48            | 5,302.46            | 5,296.59            | 18.59           | 18.35       | 146.96                | -73.81                          | -29.99                          | 144.82               | 108.00                | 36.82                   | 3.933             | Alert                      |
| 5,350.00                                                                          | 5,346.40            | 5,347.48            | 5,346.52            | 18.77           | 18.51       | 147.03                | -75.10                          | -29.99                          | 147.16               | 110.00                | 37.16                   | 3.960             | Alert                      |
| 5,400.00                                                                          | 5,396.33            | 5,402.57            | 5,396.45            | 18.95           | 18.71       | 147.10                | -76.39                          | -29.99                          | 149.50               | 111.96                | 37.53                   | 3.983             | Alert                      |
| 5,450.00                                                                          | 5,446.26            | 5,447.37            | 5,446.38            | 19.13           | 18.87       | 147.17                | -77.68                          | -29.99                          | 151.84               | 113.97                | 37.87                   | 4.009             | Alert                      |
| 5,500.00                                                                          | 5,496.18            | 5,502.68            | 5,496.30            | 19.32           | 19.06       | 147.24                | -78.97                          | -29.99                          | 154.18               | 115.93                | 38.24                   | 4.031             | Alert                      |
| 5,550.00                                                                          | 5,546.11            | 5,547.26            | 5,546.23            | 19.50           | 19.22       | 147.30                | -80.26                          | -29.99                          | 156.52               | 117.94                | 38.58                   | 4.057             | Alert                      |
| 5,600.00                                                                          | 5,596.03            | 5,602.79            | 5,596.16            | 19.68           | 19.42       | 147.36                | -81.55                          | -29.99                          | 158.86               | 119.90                | 38.95                   | 4.078             | Alert                      |
| 5,650.00                                                                          | 5,645.96            | 5,647.15            | 5,646.09            | 19.86           | 19.57       | 147.42                | -82.85                          | -29.99                          | 161.20               | 121.91                | 39.29                   | 4.103             | Alert                      |
| 5,700.00                                                                          | 5,695.89            | 5,702.90            | 5,696.02            | 20.04           | 19.77       | 147.48                | -84.14                          | -29.99                          | 163.54               | 123.87                | 39.66                   | 4.123             | Alert                      |
| 5,750.00                                                                          | 5,745.81            | 5,747.04            | 5,745.95            | 20.22           | 19.93       | 147.54                | -85.43                          | -29.99                          | 165.88               | 125.88                | 40.00                   | 4.147             | Alert                      |
| 5,800.00                                                                          | 5,795.74            | 5,803.01            | 5,795.87            | 20.41           | 20.13       | 147.60                | -86.72                          | -29.99                          | 168.22               | 127.84                | 40.38                   | 4.166             | Alert                      |
| 5,850.00                                                                          | 5,845.67            | 5,846.93            | 5,845.80            | 20.59           | 20.28       | 147.65                | -88.01                          | -29.99                          | 170.56               | 129.85                | 40.71                   | 4.190             | Alert                      |
| 5,900.00                                                                          | 5,895.59            | 5,903.12            | 5,895.73            | 20.77           | 20.48       | 147.70                | -89.30                          | -29.99                          | 172.90               | 131.81                | 41.09                   | 4.208             | Alert                      |
| 5,950.00                                                                          | 5,945.52            | 5,946.82            | 5,945.66            | 20.95           | 20.64       | 147.76                | -90.59                          | -29.99                          | 175.24               | 133.82                | 41.42                   | 4.231             | Alert                      |
| 6,000.00                                                                          | 5,995.45            | 6,003.23            | 5,995.59            | 21.13           | 20.84       | 147.81                | -91.88                          | -29.99                          | 177.58               | 135.78                | 41.80                   | 4.248             | Alert                      |
| 6,050.00                                                                          | 6,045.37            | 6,046.71            | 6,045.51            | 21.32           | 20.99       | 147.86                | -93.17                          | -29.99                          | 179.92               | 137.79                | 42.13                   | 4.270             | Alert                      |
| 6,100.00                                                                          | 6,095.30            | 6,103.34            | 6,095.44            | 21.50           | 21.19       | 147.90                | -94.46                          | -29.99                          | 182.26               | 139.75                | 42.51                   | 4.287             | Alert                      |
| 6,150.00                                                                          | 6,145.22            | 6,146.60            | 6,145.37            | 21.68           | 21.35       | 147.95                | -95.76                          | -29.99                          | 184.60               | 141.76                | 42.85                   | 4.309             | Alert                      |
| 6,200.00                                                                          | 6,195.15            | 6,203.45            | 6,195.30            | 21.86           | 21.55       | 148.00                | -97.05                          | -29.99                          | 186.95               | 143.72                | 43.23                   | 4.325             | Alert                      |
| 6,250.00                                                                          | 6,245.08            | 6,246.49            | 6,245.23            | 22.05           | 21.70       | 148.04                | -98.34                          | -29.99                          | 189.29               | 145.73                | 43.56                   | 4.346             | Alert                      |
| 6,300.00                                                                          | 6,295.00            | 6,303.56            | 6,295.16            | 22.23           | 21.91       | 148.08                | -99.63                          | -29.99                          | 191.63               | 147.69                | 43.94                   | 4.361             | 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 25H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 25H  
 TVD Reference: RKB @ 3471.50ft  
 MD Reference: RKB @ 3471.50ft  
 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 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                   |                             | 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) |                               |                      |                            |
| 6,350.00                                                                         | 6,344.93                  | 6,346.38                  | 6,345.08                  | 22.41             | 22.06          | 148.12                      | -100.92                | -29.99       | 193.97                     | 149.70                      | 44.27                         | 4.381 Alert          |                            |
| 6,400.00                                                                         | 6,394.86                  | 6,403.67                  | 6,395.01                  | 22.59             | 22.26          | 148.17                      | -102.21                | -29.99       | 196.31                     | 151.66                      | 44.66                         | 4.396 Alert          |                            |
| 6,450.00                                                                         | 6,444.78                  | 6,446.27                  | 6,444.94                  | 22.78             | 22.42          | 148.21                      | -103.50                | -29.99       | 198.66                     | 153.67                      | 44.99                         | 4.416 Alert          |                            |
| 6,500.00                                                                         | 6,494.71                  | 6,503.78                  | 6,494.87                  | 22.96             | 22.62          | 148.24                      | -104.79                | -29.99       | 201.00                     | 155.63                      | 45.37                         | 4.430 Alert          |                            |
| 6,550.00                                                                         | 6,544.64                  | 6,546.16                  | 6,544.80                  | 23.14             | 22.77          | 148.28                      | -106.08                | -29.99       | 203.34                     | 157.64                      | 45.70                         | 4.449 Alert          |                            |
| 6,600.00                                                                         | 6,594.56                  | 6,603.89                  | 6,594.73                  | 23.32             | 22.98          | 148.32                      | -107.37                | -29.99       | 205.68                     | 159.60                      | 46.09                         | 4.463 Alert          |                            |
| 6,650.00                                                                         | 6,644.49                  | 6,646.05                  | 6,644.65                  | 23.51             | 23.13          | 148.36                      | -108.67                | -29.99       | 208.03                     | 161.61                      | 46.42                         | 4.482 Alert          |                            |
| 6,700.00                                                                         | 6,694.41                  | 6,704.00                  | 6,694.58                  | 23.69             | 23.34          | 148.39                      | -109.96                | -29.99       | 210.37                     | 163.57                      | 46.80                         | 4.495 Alert          |                            |
| 6,750.00                                                                         | 6,744.34                  | 6,745.94                  | 6,744.51                  | 23.87             | 23.49          | 148.43                      | -111.25                | -29.99       | 212.71                     | 165.58                      | 47.13                         | 4.513 Alert          |                            |
| 6,800.00                                                                         | 6,794.27                  | 6,804.12                  | 6,794.44                  | 24.06             | 23.69          | 148.46                      | -112.54                | -29.99       | 215.05                     | 167.54                      | 47.52                         | 4.526 Alert          |                            |
| 6,850.00                                                                         | 6,844.19                  | 6,845.83                  | 6,844.37                  | 24.24             | 23.84          | 148.50                      | -113.83                | -29.99       | 217.40                     | 169.55                      | 47.85                         | 4.544 Alert          |                            |
| 6,900.00                                                                         | 6,894.12                  | 6,904.23                  | 6,894.30                  | 24.42             | 24.05          | 148.53                      | -115.12                | -29.99       | 219.74                     | 171.51                      | 48.23                         | 4.556 Alert          |                            |
| 6,950.00                                                                         | 6,944.05                  | 6,945.72                  | 6,944.22                  | 24.61             | 24.20          | 148.56                      | -116.41                | -29.99       | 222.08                     | 173.52                      | 48.56                         | 4.573 Alert          |                            |
| 7,000.00                                                                         | 6,993.97                  | 7,004.34                  | 6,994.15                  | 24.79             | 24.41          | 148.59                      | -117.70                | -29.99       | 224.42                     | 175.48                      | 48.95                         | 4.585 Alert          |                            |
| 7,050.00                                                                         | 7,043.90                  | 7,045.61                  | 7,044.08                  | 24.97             | 24.56          | 148.62                      | -118.99                | -29.99       | 226.77                     | 177.49                      | 49.28                         | 4.602 Alert          |                            |
| 7,100.00                                                                         | 7,093.83                  | 7,104.45                  | 7,094.01                  | 25.16             | 24.77          | 148.65                      | -120.28                | -29.99       | 229.11                     | 179.44                      | 49.67                         | 4.613 Alert          |                            |
| 7,150.00                                                                         | 7,143.75                  | 7,145.50                  | 7,143.94                  | 25.34             | 24.91          | 148.68                      | -121.57                | -29.99       | 231.45                     | 181.46                      | 49.99                         | 4.630 Alert          |                            |
| 7,200.00                                                                         | 7,193.68                  | 7,204.56                  | 7,193.86                  | 25.52             | 25.12          | 148.71                      | -122.87                | -29.99       | 233.80                     | 183.41                      | 50.38                         | 4.640 Alert          |                            |
| 7,250.00                                                                         | 7,243.60                  | 7,245.39                  | 7,243.79                  | 25.71             | 25.27          | 148.74                      | -124.16                | -29.99       | 236.14                     | 185.43                      | 50.71                         | 4.657 Alert          |                            |
| 7,300.00                                                                         | 7,293.53                  | 7,304.67                  | 7,293.72                  | 25.89             | 25.48          | 148.77                      | -125.45                | -29.99       | 238.48                     | 187.38                      | 51.10                         | 4.667 Alert          |                            |
| 7,350.00                                                                         | 7,343.46                  | 7,345.28                  | 7,343.65                  | 26.07             | 25.63          | 148.79                      | -126.74                | -29.99       | 240.83                     | 189.40                      | 51.43                         | 4.683 Alert          |                            |
| 7,400.00                                                                         | 7,393.38                  | 7,404.78                  | 7,393.58                  | 26.26             | 25.84          | 148.82                      | -128.03                | -29.99       | 243.17                     | 191.35                      | 51.82                         | 4.693 Alert          |                            |
| 7,450.00                                                                         | 7,443.31                  | 7,445.17                  | 7,443.51                  | 26.44             | 25.99          | 148.85                      | -129.32                | -29.99       | 245.51                     | 193.37                      | 52.14                         | 4.709 Alert          |                            |
| 7,500.00                                                                         | 7,493.24                  | 7,504.89                  | 7,493.43                  | 26.63             | 26.20          | 148.87                      | -130.61                | -29.99       | 247.86                     | 195.32                      | 52.54                         | 4.718 Alert          |                            |
| 7,550.00                                                                         | 7,543.16                  | 7,545.06                  | 7,543.36                  | 26.81             | 26.34          | 148.90                      | -131.90                | -29.99       | 250.20                     | 197.34                      | 52.86                         | 4.733 Alert          |                            |
| 7,600.00                                                                         | 7,593.09                  | 7,605.00                  | 7,593.29                  | 26.99             | 26.56          | 148.92                      | -133.19                | -29.99       | 252.55                     | 199.29                      | 53.25                         | 4.742 Alert          |                            |
| 7,650.00                                                                         | 7,643.02                  | 7,644.95                  | 7,643.22                  | 27.18             | 26.70          | 148.95                      | -134.48                | -29.99       | 254.89                     | 201.31                      | 53.58                         | 4.757 Alert          |                            |
| 7,700.00                                                                         | 7,692.94                  | 7,705.11                  | 7,693.15                  | 27.36             | 26.92          | 148.97                      | -135.78                | -29.99       | 257.23                     | 203.26                      | 53.97                         | 4.766 Alert          |                            |
| 7,750.00                                                                         | 7,742.87                  | 7,744.84                  | 7,743.08                  | 27.54             | 27.06          | 148.99                      | -137.07                | -29.99       | 259.58                     | 205.28                      | 54.29                         | 4.781 Alert          |                            |
| 7,800.00                                                                         | 7,792.79                  | 7,805.22                  | 7,793.00                  | 27.73             | 27.28          | 149.02                      | -138.36                | -29.99       | 261.92                     | 207.23                      | 54.69                         | 4.789 Alert          |                            |
| 7,850.00                                                                         | 7,842.72                  | 7,844.73                  | 7,842.93                  | 27.91             | 27.42          | 149.04                      | -139.65                | -29.99       | 264.26                     | 209.25                      | 55.01                         | 4.804 Alert          |                            |
| 7,900.00                                                                         | 7,892.65                  | 7,905.33                  | 7,892.86                  | 28.10             | 27.63          | 149.06                      | -140.94                | -29.99       | 266.61                     | 211.20                      | 55.41                         | 4.812 Alert          |                            |
| 7,950.00                                                                         | 7,942.57                  | 7,944.62                  | 7,942.79                  | 28.28             | 27.78          | 149.08                      | -142.23                | -29.99       | 268.95                     | 213.22                      | 55.73                         | 4.826 Alert          |                            |
| 8,000.00                                                                         | 7,992.50                  | 8,005.44                  | 7,992.72                  | 28.47             | 27.99          | 149.10                      | -143.52                | -29.99       | 271.30                     | 215.17                      | 56.13                         | 4.833 Alert          |                            |
| 8,050.00                                                                         | 8,042.43                  | 8,044.51                  | 8,042.64                  | 28.65             | 28.13          | 149.13                      | -144.81                | -29.99       | 273.64                     | 217.19                      | 56.45                         | 4.848 Alert          |                            |
| 8,100.00                                                                         | 8,092.35                  | 8,105.55                  | 8,092.57                  | 28.83             | 28.35          | 149.15                      | -146.10                | -29.99       | 275.98                     | 219.14                      | 56.85                         | 4.855 Alert          |                            |
| 8,150.00                                                                         | 8,142.28                  | 8,144.40                  | 8,142.50                  | 29.02             | 28.49          | 149.17                      | -147.39                | -29.99       | 278.33                     | 221.16                      | 57.17                         | 4.869 Alert          |                            |
| 8,200.00                                                                         | 8,192.21                  | 8,194.34                  | 8,192.43                  | 29.20             | 28.67          | 149.19                      | -148.69                | -29.99       | 280.67                     | 223.15                      | 57.53                         | 4.879 Alert          |                            |
| 8,250.00                                                                         | 8,242.13                  | 8,244.32                  | 8,242.39                  | 29.39             | 28.85          | 149.25                      | -149.76                | -29.99       | 283.02                     | 225.13                      | 57.88                         | 4.890 Alert          |                            |
| 8,300.00                                                                         | 8,292.07                  | 8,294.30                  | 8,292.37                  | 29.57             | 29.02          | 149.43                      | -150.18                | -29.99       | 285.10                     | 226.87                      | 58.23                         | 4.896 Alert          |                            |
| 8,350.00                                                                         | 8,342.04                  | 8,344.27                  | 8,342.34                  | 29.75             | 29.19          | 149.62                      | -150.19                | -29.99       | 286.62                     | 228.04                      | 58.58                         | 4.893 Alert          |                            |
| 8,400.00                                                                         | 8,392.03                  | 8,405.74                  | 8,392.33                  | 29.93             | 29.40          | 149.74                      | -150.19                | -29.99       | 287.58                     | 228.62                      | 58.97                         | 4.877 Alert          |                            |
| 8,450.00                                                                         | 8,442.03                  | 8,444.25                  | 8,442.33                  | 30.10             | 29.53          | 149.79                      | -150.19                | -29.99       | 287.98                     | 228.71                      | 59.27                         | 4.859 Alert          |                            |
| 8,500.00                                                                         | 8,492.03                  | 8,505.75                  | 8,492.33                  | 30.27             | 29.74          | -90.04                      | -150.19                | -29.99       | 287.99                     | 228.34                      | 59.65                         | 4.828 Alert          |                            |
| 8,550.00                                                                         | 8,542.03                  | 8,544.25                  | 8,542.33                  | 30.44             | 29.87          | -90.04                      | -150.19                | -29.99       | 287.99                     | 228.04                      | 59.95                         | 4.804 Alert          |                            |
| 8,600.00                                                                         | 8,592.03                  | 8,605.75                  | 8,592.33                  | 30.61             | 30.07          | -90.04                      | -150.19                | -29.99       | 287.99                     | 227.66                      | 60.33                         | 4.773 Alert          |                            |
| 8,650.00                                                                         | 8,642.03                  | 8,644.25                  | 8,642.33                  | 30.78             | 30.20          | -90.04                      | -150.19                | -29.99       | 287.99                     | 227.36                      | 60.63                         | 4.750 Alert          |                            |
| 8,700.00                                                                         | 8,692.03                  | 8,705.75                  | 8,692.33                  | 30.95             | 30.41          | -90.04                      | -150.19                | -29.99       | 287.99                     | 226.98                      | 61.01                         | 4.720 Alert          |                            |
| 8,750.00                                                                         | 8,742.03                  | 8,744.25                  | 8,742.33                  | 31.12             | 30.54          | -90.04                      | -150.19                | -29.99       | 287.99                     | 226.67                      | 61.32                         | 4.697 Alert          |                            |
| 8,800.00                                                                         | 8,792.03                  | 8,794.25                  | 8,792.33                  | 31.29             | 30.71          | -90.04                      | -150.19                | -29.99       | 287.99                     | 226.33                      | 61.66                         | 4.671 Alert          |                            |
| 8,850.00                                                                         | 8,841.99                  | 8,845.40                  | 8,843.44                  | 31.46             | 30.88          | -89.68                      | -148.69                | -29.91       | 287.90                     | 225.90                      | 62.00                         | 4.644 Alert          |                            |
| 8,900.00                                                                         | 8,891.66                  | 8,896.81                  | 8,894.48                  | 31.62             | 31.05          | -89.67                      | -142.70                | -29.58       | 287.55                     | 225.22                      | 62.33                         | 4.613 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 25H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 25H  
 TVD Reference: RKB @ 3471.50ft  
 MD Reference: RKB @ 3471.50ft  
 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 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 Tooface (ft) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning                    |
| 8,950.00                                                                         | 8,940.64            | 8,948.19            | 8,944.75            | 31.78          | 31.21       | -89.68                | -132.16                           | -29.01     | 286.93               | 224.28                | 62.65                   | 4.580             | Alert                      |
| 9,000.00                                                                         | 8,988.56            | 8,999.53            | 8,993.83            | 31.92          | 31.36       | -89.68                | -117.19                           | -28.19     | 286.04               | 223.09                | 62.95                   | 4.544             | Alert                      |
| 9,050.00                                                                         | 9,035.07            | 9,050.82            | 9,041.33            | 32.06          | 31.51       | -89.69                | -97.91                            | -27.14     | 284.90               | 221.66                | 63.24                   | 4.505             | Alert                      |
| 9,100.00                                                                         | 9,079.80            | 9,102.04            | 9,086.85            | 32.18          | 31.65       | -89.70                | -74.50                            | -25.86     | 283.51               | 220.00                | 63.51                   | 4.464             | Alert                      |
| 9,150.00                                                                         | 9,122.42            | 9,153.19            | 9,130.04            | 32.29          | 31.79       | -89.71                | -47.17                            | -24.37     | 281.89               | 218.10                | 63.79                   | 4.419             | Alert                      |
| 9,200.00                                                                         | 9,162.60            | 9,204.25            | 9,170.55            | 32.39          | 31.93       | -89.72                | -16.16                            | -22.67     | 280.05               | 215.98                | 64.06                   | 4.371             | Alert                      |
| 9,250.00                                                                         | 9,200.04            | 9,255.21            | 9,208.06            | 32.48          | 32.08       | -89.74                | 18.26                             | -20.80     | 278.00               | 213.65                | 64.34                   | 4.320             | Alert                      |
| 9,300.00                                                                         | 9,234.45            | 9,306.07            | 9,242.30            | 32.55          | 32.23       | -89.76                | 55.79                             | -18.75     | 275.75               | 211.12                | 64.64                   | 4.266             | Alert                      |
| 9,350.00                                                                         | 9,265.56            | 9,356.82            | 9,273.01            | 32.62          | 32.38       | -89.78                | 96.11                             | -16.55     | 273.34               | 208.40                | 64.94                   | 4.206             | Alert                      |
| 9,400.00                                                                         | 9,293.15            | 9,407.46            | 9,299.97            | 32.73          | 32.55       | -89.79                | 138.89                            | -14.21     | 270.77               | 205.51                | 65.26                   | 4.149             | Alert                      |
| 9,450.00                                                                         | 9,317.01            | 9,457.98            | 9,323.00            | 32.91          | 32.73       | -89.81                | 183.77                            | -11.76     | 268.07               | 202.46                | 65.61                   | 4.086             | Alert                      |
| 9,500.00                                                                         | 9,336.94            | 9,508.38            | 9,341.94            | 33.09          | 32.92       | -89.83                | 230.39                            | -9.22      | 265.26               | 199.28                | 65.98                   | 4.020             | Alert                      |
| 9,550.00                                                                         | 9,352.80            | 9,558.66            | 9,356.67            | 33.29          | 33.12       | -89.85                | 278.38                            | -6.60      | 262.36               | 195.98                | 66.38                   | 3.952             | Alert                      |
| 9,600.00                                                                         | 9,364.47            | 9,608.83            | 9,367.12            | 33.51          | 33.33       | -89.86                | 327.35                            | -3.93      | 259.39               | 192.59                | 66.80                   | 3.883             | Alert                      |
| 9,650.00                                                                         | 9,371.86            | 9,658.87            | 9,373.22            | 33.73          | 33.56       | -89.87                | 376.93                            | -1.22      | 256.38               | 189.13                | 67.25                   | 3.812             | Alert                      |
| 9,700.00                                                                         | 9,374.91            | 9,708.80            | 9,375.00            | 33.97          | 33.80       | -89.89                | 426.74                            | 1.50       | 253.35               | 185.62                | 67.73                   | 3.741             | Alert                      |
| 9,750.00                                                                         | 9,375.00            | 9,758.71            | 9,375.00            | 34.24          | 34.07       | -89.93                | 476.57                            | 4.22       | 250.31               | 182.05                | 68.25                   | 3.667             | Alert                      |
| 9,800.00                                                                         | 9,375.00            | 9,808.61            | 9,375.00            | 34.51          | 34.35       | -89.93                | 526.41                            | 6.94       | 247.27               | 178.47                | 68.80                   | 3.594             | Alert                      |
| 9,850.00                                                                         | 9,375.00            | 9,858.52            | 9,375.00            | 34.82          | 34.67       | -89.93                | 576.24                            | 9.66       | 244.23               | 174.81                | 69.42                   | 3.518             | Alert                      |
| 9,900.00                                                                         | 9,375.00            | 9,908.43            | 9,375.00            | 35.13          | 34.99       | -89.93                | 626.07                            | 12.38      | 241.20               | 171.14                | 70.06                   | 3.443             | Alert                      |
| 9,950.00                                                                         | 9,375.00            | 9,958.34            | 9,375.00            | 35.49          | 35.35       | -89.93                | 675.91                            | 15.10      | 238.16               | 167.38                | 70.78                   | 3.365             | Alert                      |
| 10,000.00                                                                        | 9,375.00            | 10,008.24           | 9,375.00            | 35.84          | 35.72       | -89.93                | 725.74                            | 17.82      | 235.12               | 163.62                | 71.50                   | 3.288             | Alert                      |
| 10,050.00                                                                        | 9,375.00            | 10,058.15           | 9,375.00            | 36.24          | 36.12       | -89.93                | 775.57                            | 20.54      | 232.08               | 159.78                | 72.30                   | 3.210             | Alert                      |
| 10,100.00                                                                        | 9,375.00            | 10,108.06           | 9,375.00            | 36.64          | 36.53       | -89.92                | 825.41                            | 23.26      | 229.04               | 155.93                | 73.11                   | 3.133             | Alert                      |
| 10,150.00                                                                        | 9,375.00            | 10,157.97           | 9,375.00            | 37.08          | 36.97       | -89.92                | 875.24                            | 25.98      | 226.01               | 152.01                | 74.00                   | 3.054             | Alert                      |
| 10,200.00                                                                        | 9,375.00            | 10,207.87           | 9,375.00            | 37.52          | 37.42       | -89.92                | 925.07                            | 28.70      | 222.97               | 148.08                | 74.89                   | 2.977             | Alert                      |
| 10,250.00                                                                        | 9,375.00            | 10,257.78           | 9,375.00            | 38.00          | 37.90       | -89.92                | 974.91                            | 31.42      | 219.93               | 144.08                | 75.85                   | 2.900             | Alert                      |
| 10,300.00                                                                        | 9,375.00            | 10,307.69           | 9,375.00            | 38.48          | 38.39       | -89.92                | 1,024.74                          | 34.14      | 216.89               | 140.08                | 76.81                   | 2.824             | Alert                      |
| 10,350.00                                                                        | 9,375.00            | 10,357.60           | 9,375.00            | 38.99          | 38.90       | -89.92                | 1,074.57                          | 36.86      | 213.85               | 136.02                | 77.84                   | 2.747             | Alert                      |
| 10,400.00                                                                        | 9,375.00            | 10,407.50           | 9,375.00            | 39.50          | 39.42       | -89.92                | 1,124.41                          | 39.58      | 210.82               | 131.95                | 78.87                   | 2.673             | Alert                      |
| 10,450.00                                                                        | 9,375.00            | 10,457.41           | 9,375.00            | 40.04          | 39.96       | -89.92                | 1,174.24                          | 42.30      | 207.78               | 127.82                | 79.96                   | 2.598             | Alert                      |
| 10,500.00                                                                        | 9,375.00            | 10,507.32           | 9,375.00            | 40.59          | 40.51       | -89.92                | 1,224.07                          | 45.02      | 204.74               | 123.68                | 81.06                   | 2.526             | Alert                      |
| 10,550.00                                                                        | 9,375.00            | 10,557.23           | 9,375.00            | 41.16          | 41.09       | -89.91                | 1,273.91                          | 47.74      | 201.70               | 119.49                | 82.21                   | 2.454             | Minor Risk                 |
| 10,600.00                                                                        | 9,375.00            | 10,607.14           | 9,375.00            | 41.73          | 41.67       | -89.91                | 1,323.74                          | 50.46      | 198.66               | 115.30                | 83.36                   | 2.383             | Minor Risk                 |
| 10,650.00                                                                        | 9,375.00            | 10,657.04           | 9,375.00            | 42.33          | 42.27       | -89.91                | 1,373.57                          | 53.18      | 195.63               | 111.06                | 84.57                   | 2.313             | Minor Risk                 |
| 10,700.00                                                                        | 9,375.00            | 10,706.95           | 9,375.00            | 42.93          | 42.87       | -89.91                | 1,423.41                          | 55.90      | 192.59               | 106.81                | 85.77                   | 2.245             | Minor Risk                 |
| 10,750.00                                                                        | 9,375.00            | 10,756.86           | 9,375.00            | 43.56          | 43.50       | -89.91                | 1,473.24                          | 58.62      | 189.55               | 102.52                | 87.03                   | 2.178             | Minor Risk                 |
| 10,800.00                                                                        | 9,375.00            | 10,806.77           | 9,375.00            | 44.19          | 44.13       | -89.91                | 1,523.08                          | 61.34      | 186.51               | 98.23                 | 88.28                   | 2.113             | Minor Risk                 |
| 10,850.00                                                                        | 9,375.00            | 10,856.67           | 9,375.00            | 44.84          | 44.77       | -89.91                | 1,572.91                          | 64.06      | 183.47               | 93.89                 | 89.58                   | 2.048             | Minor Risk                 |
| 10,900.00                                                                        | 9,375.00            | 10,906.58           | 9,375.00            | 45.49          | 45.43       | -89.90                | 1,622.74                          | 66.78      | 180.44               | 89.55                 | 90.89                   | 1.985             | Minor Risk                 |
| 10,950.00                                                                        | 9,375.00            | 10,956.49           | 9,375.00            | 46.16          | 46.09       | -89.90                | 1,672.58                          | 69.50      | 177.40               | 85.17                 | 92.23                   | 1.923             | Minor Risk                 |
| 11,000.00                                                                        | 9,375.00            | 11,006.40           | 9,375.00            | 46.83          | 46.77       | -89.90                | 1,722.41                          | 72.22      | 174.36               | 80.79                 | 93.57                   | 1.863             | Minor Risk                 |
| 11,050.00                                                                        | 9,375.00            | 11,056.30           | 9,375.00            | 47.52          | 47.45       | -89.90                | 1,772.24                          | 74.94      | 171.32               | 76.37                 | 94.95                   | 1.804             | Minor Risk                 |
| 11,100.00                                                                        | 9,375.00            | 11,106.21           | 9,375.00            | 48.21          | 48.14       | -89.90                | 1,822.08                          | 77.66      | 168.28               | 71.95                 | 96.33                   | 1.747             | Minor Risk                 |
| 11,150.00                                                                        | 9,375.00            | 11,156.12           | 9,375.00            | 48.91          | 48.85       | -89.90                | 1,871.91                          | 80.38      | 165.25               | 67.50                 | 97.75                   | 1.691             | Minor Risk                 |
| 11,200.00                                                                        | 9,375.00            | 11,206.03           | 9,375.00            | 49.62          | 49.56       | -89.89                | 1,921.74                          | 83.10      | 162.21               | 63.04                 | 99.16                   | 1.636             | Minor Risk                 |
| 11,250.00                                                                        | 9,375.00            | 11,255.93           | 9,375.00            | 50.35          | 50.28       | -89.89                | 1,971.58                          | 85.82      | 159.17               | 58.56                 | 100.61                  | 1.582             | Minor Risk                 |
| 11,300.00                                                                        | 9,375.00            | 11,305.84           | 9,375.00            | 51.07          | 51.00       | -89.89                | 2,021.41                          | 88.54      | 156.13               | 54.07                 | 102.06                  | 1.530             | Minor Risk                 |
| 11,350.00                                                                        | 9,375.00            | 11,355.75           | 9,375.00            | 51.81          | 51.74       | -89.89                | 2,071.24                          | 91.26      | 153.09               | 49.56                 | 103.53                  | 1.479             | Major Risk                 |
| 11,400.00                                                                        | 9,375.00            | 11,405.66           | 9,375.00            | 52.55          | 52.47       | -89.88                | 2,121.08                          | 93.98      | 150.06               | 45.04                 | 105.01                  | 1.429             | Major Risk                 |
| 11,450.00                                                                        | 9,375.00            | 11,455.56           | 9,375.00            | 53.30          | 53.22       | -89.88                | 2,170.91                          | 96.70      | 147.02               | 40.50                 | 106.52                  | 1.380             | Major Risk                 |
| 11,500.00                                                                        | 9,375.00            | 11,505.47           | 9,375.00            | 54.06          | 53.97       | -89.88                | 2,220.74                          | 99.42      | 143.98               | 35.96                 | 108.02                  | 1.333             | Major 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 25H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 25H  
**TVD Reference:** RKB @ 3471.50ft  
**MD Reference:** RKB @ 3471.50ft  
**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 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 Topface (") | Offset Wellbore Centre N/S (ft) | Offset Wellbore Centre E/W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor       |                            |
| 11,550.00                                                                        | 9,375.00            | 11,555.38           | 9,375.00            | 54.82          | 54.73       | -89.88               | 2,270.58                        | 102.14                          | 140.94               | 31.39                 | 109.55                  | 1.287 Major Risk        |                            |
| 11,600.00                                                                        | 9,375.00            | 11,605.29           | 9,375.00            | 55.59          | 55.50       | -89.87               | 2,320.41                        | 104.86                          | 137.90               | 26.83                 | 111.08                  | 1.242 Major Risk        |                            |
| 11,650.00                                                                        | 9,375.00            | 11,655.20           | 9,375.00            | 56.37          | 56.27       | -89.87               | 2,370.24                        | 107.58                          | 134.87               | 22.24                 | 112.63                  | 1.197 Major Risk        |                            |
| 11,700.00                                                                        | 9,375.00            | 11,705.10           | 9,375.00            | 57.14          | 57.04       | -89.87               | 2,420.08                        | 110.30                          | 131.83               | 17.65                 | 114.18                  | 1.155 Major Risk        |                            |
| 11,750.00                                                                        | 9,375.00            | 11,755.01           | 9,375.00            | 57.93          | 57.83       | -89.87               | 2,469.91                        | 113.02                          | 128.79               | 13.04                 | 115.75                  | 1.113 Major Risk        |                            |
| 11,800.00                                                                        | 9,375.00            | 11,804.92           | 9,375.00            | 58.72          | 58.61       | -89.86               | 2,519.74                        | 115.74                          | 125.75               | 8.43                  | 117.33                  | 1.072 Major Risk        |                            |
| 11,850.00                                                                        | 9,375.00            | 11,854.83           | 9,375.00            | 59.52          | 59.40       | -89.86               | 2,569.58                        | 118.46                          | 122.71               | 3.80                  | 118.92                  | 1.032 Major Risk        |                            |
| 11,900.00                                                                        | 9,375.00            | 11,904.73           | 9,375.00            | 60.32          | 60.20       | -89.86               | 2,619.41                        | 121.18                          | 119.68               | -0.83                 | 120.51                  | 0.993 Collision         |                            |
| 11,950.00                                                                        | 9,375.00            | 11,954.64           | 9,375.00            | 61.13          | 61.00       | -89.85               | 2,669.24                        | 123.90                          | 116.64               | -5.48                 | 122.12                  | 0.955 Collision         |                            |
| 12,000.00                                                                        | 9,375.00            | 12,004.55           | 9,375.00            | 61.93          | 61.80       | -89.85               | 2,719.08                        | 126.62                          | 113.60               | -10.13                | 123.73                  | 0.918 Collision         |                            |
| 12,050.00                                                                        | 9,375.00            | 12,054.46           | 9,375.00            | 62.75          | 62.61       | -89.84               | 2,768.91                        | 129.34                          | 110.56               | -14.79                | 125.35                  | 0.882 Collision         |                            |
| 12,100.00                                                                        | 9,375.00            | 12,104.36           | 9,375.00            | 63.56          | 63.42       | -89.84               | 2,818.74                        | 132.06                          | 107.52               | -19.46                | 126.98                  | 0.847 Collision         |                            |
| 12,150.00                                                                        | 9,375.00            | 12,154.27           | 9,375.00            | 64.39          | 64.24       | -89.83               | 2,868.58                        | 134.78                          | 104.49               | -24.14                | 128.62                  | 0.812 Collision         |                            |
| 12,200.00                                                                        | 9,375.00            | 12,204.18           | 9,375.00            | 65.21          | 65.05       | -89.83               | 2,918.41                        | 137.50                          | 101.45               | -28.82                | 130.26                  | 0.779 Collision         |                            |
| 12,250.00                                                                        | 9,375.00            | 12,254.09           | 9,375.00            | 66.04          | 65.88       | -89.82               | 2,968.25                        | 140.22                          | 98.41                | -33.51                | 131.92                  | 0.746 Collision         |                            |
| 12,300.00                                                                        | 9,375.00            | 12,303.99           | 9,375.00            | 66.87          | 66.70       | -89.82               | 3,018.08                        | 142.94                          | 95.37                | -38.20                | 133.57                  | 0.714 Collision         |                            |
| 12,350.00                                                                        | 9,375.00            | 12,353.90           | 9,375.00            | 67.71          | 67.53       | -89.81               | 3,067.91                        | 145.66                          | 92.33                | -42.91                | 135.24                  | 0.683 Collision         |                            |
| 12,400.00                                                                        | 9,375.00            | 12,403.81           | 9,375.00            | 68.55          | 68.37       | -89.81               | 3,117.75                        | 148.38                          | 89.30                | -47.62                | 136.91                  | 0.652 Collision         |                            |
| 12,450.00                                                                        | 9,375.00            | 12,453.72           | 9,375.00            | 69.39          | 69.20       | -89.80               | 3,167.58                        | 151.10                          | 86.26                | -52.33                | 138.59                  | 0.622 Collision         |                            |
| 12,500.00                                                                        | 9,375.00            | 12,503.62           | 9,375.00            | 70.24          | 70.04       | -89.79               | 3,217.41                        | 153.81                          | 83.22                | -57.05                | 140.27                  | 0.593 Collision         |                            |
| 12,550.00                                                                        | 9,375.00            | 12,553.53           | 9,375.00            | 71.09          | 70.88       | -89.78               | 3,267.25                        | 156.53                          | 80.18                | -61.78                | 141.96                  | 0.565 Collision         |                            |
| 12,600.00                                                                        | 9,375.00            | 12,603.44           | 9,375.00            | 71.94          | 71.72       | -89.78               | 3,317.08                        | 159.25                          | 77.14                | -66.51                | 143.66                  | 0.537 Collision         |                            |
| 12,650.00                                                                        | 9,375.00            | 12,653.35           | 9,375.00            | 72.79          | 72.57       | -89.77               | 3,366.91                        | 161.97                          | 74.11                | -71.25                | 145.36                  | 0.510 Collision         |                            |
| 12,700.00                                                                        | 9,375.00            | 12,703.26           | 9,375.00            | 73.65          | 73.42       | -89.76               | 3,416.75                        | 164.69                          | 71.07                | -75.99                | 147.06                  | 0.483 Collision         |                            |
| 12,750.00                                                                        | 9,375.00            | 12,753.16           | 9,375.00            | 74.51          | 74.27       | -89.75               | 3,466.58                        | 167.41                          | 68.03                | -80.74                | 148.77                  | 0.457 Collision         |                            |
| 12,800.00                                                                        | 9,375.00            | 12,803.07           | 9,375.00            | 75.37          | 75.13       | -89.73               | 3,516.41                        | 170.13                          | 64.99                | -85.49                | 150.48                  | 0.432 Collision         |                            |
| 12,850.00                                                                        | 9,375.00            | 12,852.98           | 9,375.00            | 76.23          | 75.98       | -89.72               | 3,566.25                        | 172.85                          | 61.95                | -90.25                | 152.21                  | 0.407 Collision         |                            |
| 12,900.00                                                                        | 9,375.00            | 12,902.89           | 9,375.00            | 77.10          | 76.84       | -89.71               | 3,616.08                        | 175.57                          | 58.92                | -95.01                | 153.93                  | 0.383 Collision         |                            |
| 12,950.00                                                                        | 9,375.00            | 12,952.79           | 9,375.00            | 77.97          | 77.70       | -89.69               | 3,665.91                        | 178.29                          | 55.88                | -99.78                | 155.66                  | 0.359 Collision         |                            |
| 13,000.00                                                                        | 9,375.00            | 13,002.70           | 9,375.00            | 78.84          | 78.56       | -89.67               | 3,715.75                        | 181.01                          | 52.84                | -104.55               | 157.39                  | 0.336 Collision         |                            |
| 13,050.00                                                                        | 9,375.00            | 13,052.61           | 9,375.00            | 79.71          | 79.43       | -89.65               | 3,765.58                        | 183.73                          | 49.80                | -109.32               | 159.12                  | 0.313 Collision         |                            |
| 13,100.00                                                                        | 9,375.00            | 13,102.52           | 9,375.00            | 80.58          | 80.29       | -89.63               | 3,815.41                        | 186.45                          | 46.76                | -114.10               | 160.86                  | 0.291 Collision         |                            |
| 13,150.00                                                                        | 9,375.00            | 13,152.42           | 9,375.00            | 81.46          | 81.16       | -89.60               | 3,865.25                        | 189.17                          | 43.73                | -118.88               | 162.61                  | 0.269 Collision         |                            |
| 13,200.00                                                                        | 9,375.00            | 13,202.33           | 9,375.00            | 82.34          | 82.03       | -89.58               | 3,915.08                        | 191.89                          | 40.69                | -123.66               | 164.35                  | 0.248 Collision         |                            |
| 13,250.00                                                                        | 9,375.00            | 13,252.24           | 9,375.00            | 83.22          | 82.90       | -89.54               | 3,964.91                        | 194.61                          | 37.65                | -128.45               | 166.10                  | 0.227 Collision         |                            |
| 13,300.00                                                                        | 9,375.00            | 13,302.15           | 9,375.00            | 84.10          | 83.78       | -89.50               | 4,014.75                        | 197.33                          | 34.61                | -133.24               | 167.85                  | 0.206 Collision         |                            |
| 13,350.00                                                                        | 9,375.00            | 13,352.05           | 9,375.00            | 84.99          | 84.65       | -89.45               | 4,064.58                        | 200.05                          | 31.57                | -138.04               | 169.61                  | 0.186 Collision         |                            |
| 13,400.00                                                                        | 9,375.00            | 13,401.96           | 9,375.00            | 85.87          | 85.53       | -89.39               | 4,114.41                        | 202.77                          | 28.54                | -142.83               | 171.37                  | 0.167 Collision         |                            |
| 13,450.00                                                                        | 9,375.00            | 13,451.87           | 9,375.00            | 86.76          | 86.41       | -89.32               | 4,164.25                        | 205.49                          | 25.50                | -147.63               | 173.13                  | 0.147 Collision         |                            |
| 13,500.00                                                                        | 9,375.00            | 13,501.78           | 9,375.00            | 87.64          | 87.29       | -89.23               | 4,214.08                        | 208.21                          | 22.46                | -152.43               | 174.89                  | 0.128 Collision         |                            |
| 13,550.00                                                                        | 9,375.00            | 13,551.68           | 9,375.00            | 88.53          | 88.17       | -89.11               | 4,263.91                        | 210.93                          | 19.42                | -157.23               | 176.65                  | 0.110 Collision         |                            |
| 13,600.00                                                                        | 9,375.00            | 13,601.59           | 9,375.00            | 89.43          | 89.05       | -88.95               | 4,313.75                        | 213.65                          | 16.39                | -162.03               | 178.42                  | 0.092 Collision         |                            |
| 13,650.00                                                                        | 9,375.00            | 13,651.50           | 9,375.00            | 90.32          | 89.93       | -88.71               | 4,363.58                        | 216.37                          | 13.35                | -166.83               | 180.17                  | 0.074 Collision         |                            |
| 13,700.00                                                                        | 9,375.00            | 13,701.41           | 9,375.00            | 91.21          | 90.82       | -88.32               | 4,413.42                        | 219.09                          | 10.31                | -171.61               | 181.92                  | 0.057 Collision         |                            |
| 13,750.00                                                                        | 9,375.00            | 13,751.32           | 9,375.00            | 92.11          | 91.70       | -87.62               | 4,463.25                        | 221.81                          | 7.27                 | -176.35               | 183.62                  | 0.040 Collision         |                            |
| 13,800.00                                                                        | 9,375.00            | 13,801.22           | 9,375.00            | 93.00          | 92.59       | -85.92               | 4,513.08                        | 224.53                          | 4.24                 | -180.87               | 185.11                  | 0.023 Collision         |                            |
| 13,850.00                                                                        | 9,375.00            | 13,851.13           | 9,375.00            | 93.90          | 93.48       | -75.81               | 4,562.92                        | 227.25                          | 1.23                 | -181.20               | 182.43                  | 0.007 Collision, ES     |                            |
| 13,864.19                                                                        | 9,375.00            | 13,865.29           | 9,375.00            | 94.16          | 93.73       | -47.62               | 4,577.06                        | 228.02                          | 0.45                 | -147.80               | 148.25                  | 0.003 Collision, CC, SF |                            |
| 13,900.00                                                                        | 9,375.00            | 13,861.11           | 9,375.00            | 94.80          | 93.66       | -62.74               | 4,572.88                        | 227.80                          | 39.97                | -27.52                | 67.49                   | 0.592 Collision         |                            |
| 13,950.00                                                                        | 9,375.00            | 13,861.11           | 9,375.00            | 95.70          | 93.66       | -62.74               | 4,572.88                        | 227.80                          | 89.97                | 22.33                 | 67.64                   | 1.330 Major Risk        |                            |
| 14,000.00                                                                        | 9,375.00            | 13,861.11           | 9,375.00            | 96.60          | 93.66       | -62.74               | 4,572.88                        | 227.80                          | 139.97               | 72.27                 | 67.71                   | 2.067 Minor Risk        |                            |
| 14,050.00                                                                        | 9,375.00            | 13,861.11           | 9,375.00            | 97.51          | 93.66       | -62.74               | 4,572.88                        | 227.80                          | 189.97               | 122.22                | 67.75                   | 2.804 Alert             |                            |

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 25H |
| <b>Project:</b>           | Lea County (NAD83 New Mexico East) | <b>TVD Reference:</b>               | RKB @ 3471.50ft        |
| <b>Reference Site:</b>    | Sec 08-T25S-R33E                   | <b>MD Reference:</b>                | RKB @ 3471.50ft        |
| <b>Site Error:</b>        | 0.00 ft                            | <b>North Reference:</b>             | Grid                   |
| <b>Reference Well:</b>    | Flagler 8 Fed 25H                  | <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           |

|                 |          |           |          |                 |        |          |                        |        |         |          |            |            |                                                                    |  |                    |  |         |  |
|-----------------|----------|-----------|----------|-----------------|--------|----------|------------------------|--------|---------|----------|------------|------------|--------------------------------------------------------------------|--|--------------------|--|---------|--|
| Offset Design   |          |           |          |                 |        |          |                        |        |         |          |            |            | Sec 08-T25S-R33E - Flagler 8 Fed 39H - 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               |        |         |          |            |            |                                                                    |  |                    |  |         |  |
| Measured Depth  | Vertical | Measured  | Vertical | Reference       | Offset | Highside | Offset Wellbore Centre |        | Between | Between  | Minimum    | Separation | Warning                                                            |  |                    |  |         |  |
| Depth           | Depth    | Depth     | Depth    |                 |        | Toolface | +N/-S                  | +E/-W  | Centres | Ellipses | Separation | Factor     |                                                                    |  |                    |  |         |  |
| (ft)            | (ft)     | (ft)      | (ft)     | (ft)            | (ft)   | (°)      | (ft)                   | (ft)   | (ft)    | (ft)     | (ft)       |            |                                                                    |  |                    |  |         |  |
| 14,100.00       | 9,375.00 | 13,861.11 | 9,375.00 | 98.41           | 93.66  | -62.74   | 4,572.88               | 227.80 | 239.97  | 172.18   | 67.79      | 3.540      | Alert                                                              |  |                    |  |         |  |
| 14,150.00       | 9,375.00 | 13,861.11 | 9,375.00 | 99.31           | 93.66  | -62.74   | 4,572.88               | 227.80 | 289.97  | 222.15   | 67.82      | 4.276      | Alert                                                              |  |                    |  |         |  |
| 14,171.06       | 9,375.00 | 13,861.11 | 9,375.00 | 99.69           | 93.66  | -62.74   | 4,572.88               | 227.80 | 311.03  | 243.19   | 67.83      | 4.585      | Alert                                                              |  |                    |  |         |  |

# 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 25H  
 Well Error: 0.50 ft  
 Reference Wellbore: Wellbore #1  
 Reference Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 25H  
 TVD Reference: RKB @ 3471.50ft  
 MD Reference: RKB @ 3471.50ft  
 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 |                            |
| 12,350.00                                                                   | 9,375.00            | 9,384.26            | 9,382.85            | 67.71           | 49.04       | -90.86                | 4,230.80                         | -661.25   | 1,473.98             | 1,374.16              | 99.82                   | 14.767            |                            |
| 12,400.00                                                                   | 9,375.00            | 9,383.59            | 9,382.18            | 68.55           | 49.03       | -90.81                | 4,230.81                         | -661.25   | 1,434.49             | 1,333.50              | 100.99                  | 14.204            |                            |
| 12,450.00                                                                   | 9,375.00            | 9,382.93            | 9,381.52            | 69.39           | 49.03       | -90.77                | 4,230.82                         | -661.25   | 1,395.67             | 1,293.43              | 102.24                  | 13.651            |                            |
| 12,500.00                                                                   | 9,375.00            | 9,382.26            | 9,380.85            | 70.24           | 49.02       | -90.73                | 4,230.83                         | -661.25   | 1,357.59             | 1,254.03              | 103.56                  | 13.110            |                            |
| 12,550.00                                                                   | 9,375.00            | 9,381.59            | 9,380.18            | 71.09           | 49.02       | -90.69                | 4,230.84                         | -661.25   | 1,320.30             | 1,215.35              | 104.95                  | 12.580            |                            |
| 12,600.00                                                                   | 9,375.00            | 9,381.02            | 9,379.61            | 71.94           | 49.02       | -90.65                | 4,230.85                         | -661.24   | 1,283.87             | 1,177.46              | 106.42                  | 12.065            |                            |
| 12,650.00                                                                   | 9,375.00            | 9,380.28            | 9,378.87            | 72.79           | 49.01       | -90.60                | 4,230.86                         | -661.24   | 1,248.39             | 1,140.43              | 107.96                  | 11.564            |                            |
| 12,700.00                                                                   | 9,375.00            | 9,379.54            | 9,378.13            | 73.65           | 49.01       | -90.55                | 4,230.87                         | -661.24   | 1,213.93             | 1,104.35              | 109.57                  | 11.079            |                            |
| 12,750.00                                                                   | 9,375.00            | 9,378.81            | 9,377.40            | 74.51           | 49.01       | -90.51                | 4,230.88                         | -661.24   | 1,180.57             | 1,069.31              | 111.26                  | 10.611            |                            |
| 12,800.00                                                                   | 9,375.00            | 9,378.09            | 9,376.67            | 75.37           | 49.00       | -90.46                | 4,230.89                         | -661.24   | 1,148.43             | 1,035.42              | 113.01                  | 10.162            |                            |
| 12,850.00                                                                   | 9,375.00            | 9,377.36            | 9,375.95            | 76.23           | 49.00       | -90.41                | 4,230.90                         | -661.23   | 1,117.60             | 1,002.77              | 114.83                  | 9.732             |                            |
| 12,900.00                                                                   | 9,375.00            | 9,376.65            | 9,375.24            | 77.10           | 49.00       | -90.37                | 4,230.91                         | -661.23   | 1,088.19             | 971.49                | 116.70                  | 9.324             |                            |
| 12,950.00                                                                   | 9,375.00            | 9,375.93            | 9,374.52            | 77.97           | 48.99       | -90.32                | 4,230.92                         | -661.23   | 1,060.33             | 941.71                | 118.62                  | 8.939             |                            |
| 13,000.00                                                                   | 9,375.00            | 9,375.22            | 9,373.81            | 78.84           | 48.99       | -90.28                | 4,230.93                         | -661.23   | 1,034.13             | 913.57                | 120.56                  | 8.578             |                            |
| 13,050.00                                                                   | 9,375.00            | 9,374.52            | 9,373.11            | 79.71           | 48.98       | -90.23                | 4,230.94                         | -661.23   | 1,009.74             | 887.22                | 122.52                  | 8.242             |                            |
| 13,100.00                                                                   | 9,375.00            | 9,373.82            | 9,372.41            | 80.58           | 48.98       | -90.19                | 4,230.95                         | -661.22   | 987.27               | 862.81                | 124.46                  | 7.932             |                            |
| 13,150.00                                                                   | 9,375.00            | 9,373.12            | 9,371.71            | 81.46           | 48.98       | -90.14                | 4,230.96                         | -661.22   | 966.87               | 840.49                | 126.38                  | 7.651             |                            |
| 13,200.00                                                                   | 9,375.00            | 9,372.43            | 9,371.02            | 82.34           | 48.97       | -90.10                | 4,230.97                         | -661.22   | 948.66               | 820.43                | 128.24                  | 7.398             |                            |
| 13,250.00                                                                   | 9,375.00            | 9,371.74            | 9,370.33            | 83.22           | 48.97       | -90.05                | 4,230.97                         | -661.22   | 932.79               | 802.78                | 130.01                  | 7.175             |                            |
| 13,300.00                                                                   | 9,375.00            | 9,371.06            | 9,369.65            | 84.10           | 48.97       | -90.01                | 4,230.98                         | -661.21   | 919.36               | 787.70                | 131.66                  | 6.983             |                            |
| 13,350.00                                                                   | 9,375.00            | 9,370.38            | 9,368.97            | 84.99           | 48.96       | -89.97                | 4,230.99                         | -661.21   | 908.49               | 775.31                | 133.17                  | 6.822             |                            |
| 13,400.00                                                                   | 9,375.00            | 9,369.70            | 9,368.29            | 85.87           | 48.96       | -89.92                | 4,231.00                         | -661.21   | 900.26               | 765.75                | 134.51                  | 6.693             |                            |
| 13,450.00                                                                   | 9,375.00            | 9,369.02            | 9,367.61            | 86.76           | 48.96       | -89.88                | 4,231.01                         | -661.21   | 894.76               | 759.11                | 135.66                  | 6.596             |                            |
| 13,500.00                                                                   | 9,375.00            | 9,368.34            | 9,366.93            | 87.64           | 48.95       | -89.83                | 4,231.02                         | -661.21   | 892.03               | 755.45                | 136.58                  | 6.531             |                            |
| 13,523.76                                                                   | 9,375.00            | 9,368.02            | 9,366.61            | 88.07           | 48.95       | -89.81                | 4,231.02                         | -661.21   | 891.72               | 754.78                | 136.94                  | 6.512 CC, ES      |                            |
| 13,550.00                                                                   | 9,375.00            | 9,367.66            | 9,366.25            | 88.53           | 48.95       | -89.79                | 4,231.03                         | -661.20   | 892.10               | 754.83                | 137.28                  | 6.499             |                            |
| 13,600.00                                                                   | 9,375.00            | 9,366.98            | 9,365.57            | 89.43           | 48.94       | -89.75                | 4,231.04                         | -661.20   | 894.97               | 757.24                | 137.73                  | 6.498 SF          |                            |
| 13,650.00                                                                   | 9,375.00            | 9,366.31            | 9,364.90            | 90.32           | 48.94       | -89.70                | 4,231.05                         | -661.20   | 900.61               | 762.65                | 137.95                  | 6.528             |                            |
| 13,700.00                                                                   | 9,375.00            | 9,365.63            | 9,364.22            | 91.21           | 48.94       | -89.66                | 4,231.06                         | -661.20   | 908.96               | 771.02                | 137.94                  | 6.590             |                            |
| 13,750.00                                                                   | 9,375.00            | 9,364.95            | 9,363.54            | 92.11           | 48.93       | -89.62                | 4,231.06                         | -661.20   | 919.96               | 782.26                | 137.71                  | 6.680             |                            |
| 13,800.00                                                                   | 9,375.00            | 9,364.28            | 9,362.87            | 93.00           | 48.93       | -89.57                | 4,231.07                         | -661.19   | 933.52               | 796.24                | 137.28                  | 6.800             |                            |
| 13,850.00                                                                   | 9,375.00            | 9,363.60            | 9,362.19            | 93.90           | 48.93       | -89.53                | 4,231.08                         | -661.19   | 949.51               | 812.85                | 136.66                  | 6.948             |                            |
| 13,900.00                                                                   | 9,375.00            | 9,362.93            | 9,361.52            | 94.80           | 48.92       | -89.49                | 4,231.09                         | -661.19   | 967.83               | 831.93                | 135.90                  | 7.122             |                            |
| 13,950.00                                                                   | 9,375.00            | 9,362.25            | 9,360.85            | 95.70           | 48.92       | -89.44                | 4,231.10                         | -661.19   | 988.34               | 853.34                | 135.00                  | 7.321             |                            |
| 14,000.00                                                                   | 9,375.00            | 9,361.58            | 9,360.17            | 96.60           | 48.92       | -89.40                | 4,231.11                         | -661.18   | 1,010.90             | 876.91                | 133.99                  | 7.545             |                            |
| 14,050.00                                                                   | 9,375.00            | 9,360.91            | 9,359.50            | 97.51           | 48.91       | -89.36                | 4,231.12                         | -661.18   | 1,035.39             | 902.50                | 132.90                  | 7.791             |                            |
| 14,100.00                                                                   | 9,375.00            | 9,360.24            | 9,358.83            | 98.41           | 48.91       | -89.31                | 4,231.13                         | -661.18   | 1,061.67             | 929.93                | 131.74                  | 8.059             |                            |
| 14,150.00                                                                   | 9,375.00            | 9,359.60            | 9,358.19            | 99.31           | 48.91       | -89.27                | 4,231.14                         | -661.18   | 1,089.62             | 959.08                | 130.54                  | 8.347             |                            |
| 14,171.06                                                                   | 9,375.00            | 9,359.34            | 9,357.93            | 99.69           | 48.90       | -89.26                | 4,231.14                         | -661.18   | 1,101.85             | 971.82                | 130.03                  | 8.474             |                            |

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

# Anticollision Report

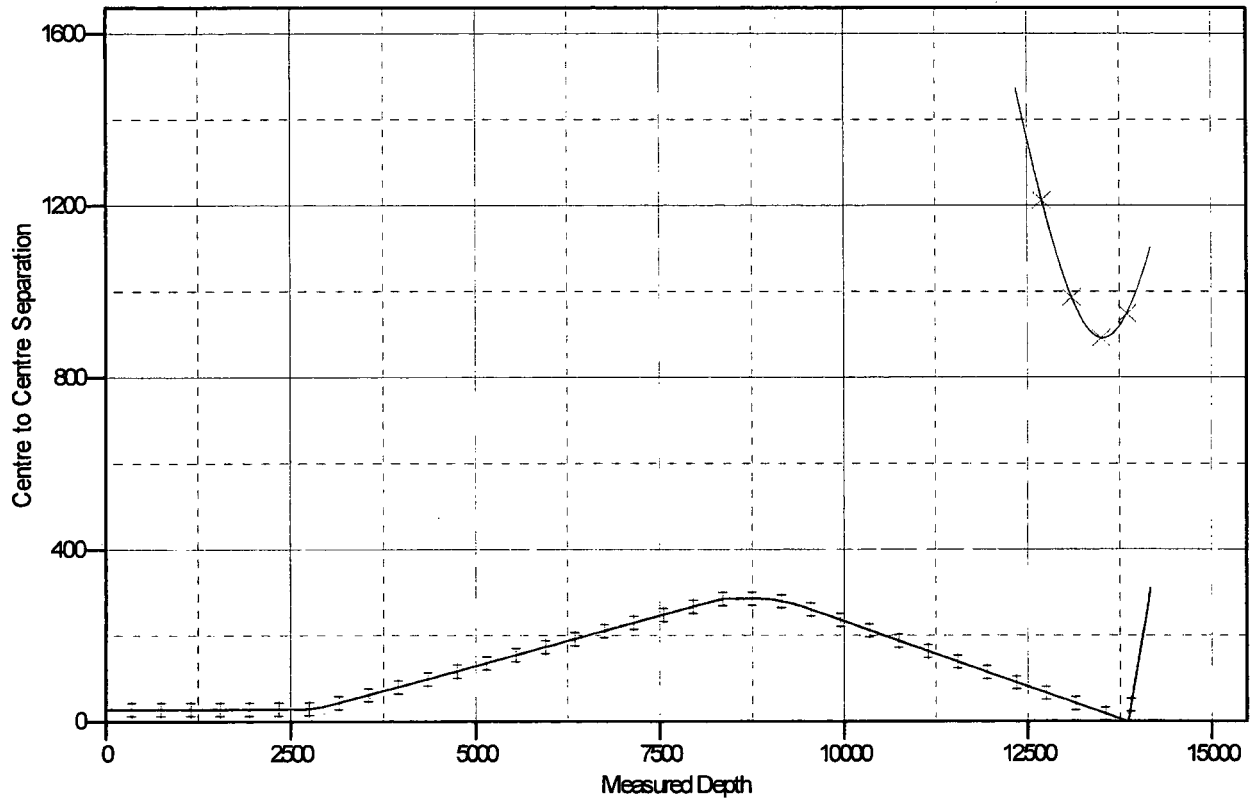
**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 25H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 25H  
**TVD Reference:** RKB @ 3471.50ft  
**MD Reference:** RKB @ 3471.50ft  
**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 @ 3471.50ft  
Offset Depths are relative to Offset Datum  
Central Meridian is -104.333334

Coordinates are relative to: Flagler 8 Fed 25H  
Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
Grid Convergence at Surface is: 0.39°

## Ladder Plot



### LEGEND

—x— Flagler Fed #1, Wellbore #1, Wellbore #1 VO      —●— Flagler 8 Fed 30H, Wellbore #1, Permit Plan 1 VO

# Anticollision Report

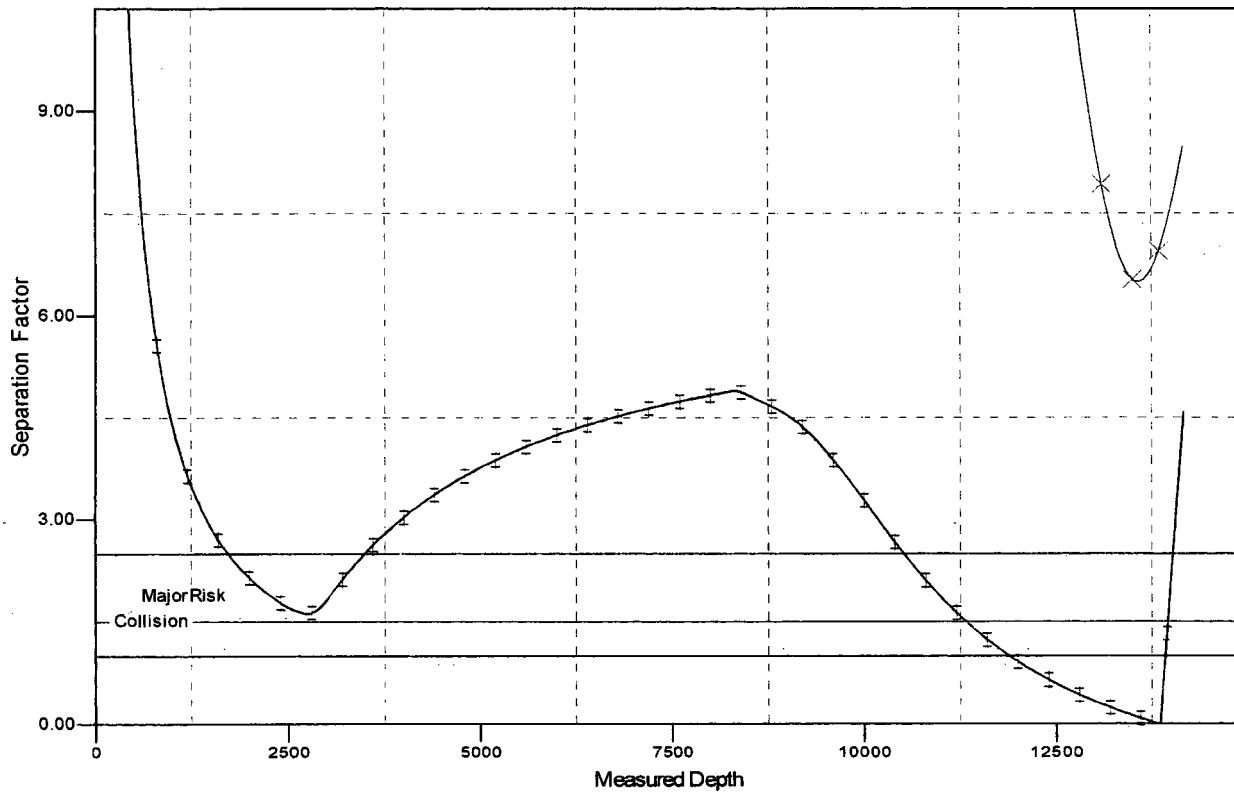
**Company:** WCDSC Permian NM  
**Project:** Lea County (NAD83 New Mexico East)  
**Reference Site:** Sec 08-T25S-R33E  
**Site Error:** 0.00 ft  
**Reference Well:** Flagler 8 Fed 25H  
**Well Error:** 0.50 ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 25H  
**TVD Reference:** RKB @ 3471.50ft  
**MD Reference:** RKB @ 3471.50ft  
**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 @ 3471.50ft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -104.333334

Coordinates are relative to: Flagler 8 Fed 25H  
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Grid Convergence at Surface is: 0.39°

## Separation Factor Plot



### LEGEND

✕ Flagler Fed #1, Wellbore #1, Wellbore #1 VD      ● Flagler 8 Fed 25H, Wellbore #1, Permit Plan 1 VD

# **WCDSC Permian NM**

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

**Sec 08-T25S-R33E**

**Flagler 8 Fed 25H**

**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 25H |
| Company:  | WCDSC Permian NM                   | TVD Reference:               | RKB @ 3471.50ft        |
| Project:  | Lea County (NAD83 New Mexico East) | MD Reference:                | RKB @ 3471.50ft        |
| Site:     | Sec 08-T25S-R33E                   | North Reference:             | Grid                   |
| Well:     | Flagler 8 Fed 25H                  | Survey Calculation Method:   | Minimum Curvature      |
| Wellbore: | Wellbore #1                        |                              |                        |
| Design:   | Permit Plan 2                      |                              |                        |

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

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

|                      |                   |                     |             |
|----------------------|-------------------|---------------------|-------------|
| Well                 | Flagler 8 Fed 25H |                     |             |
| Well Position        | +N-S              | 0.00 ft             | Northing:   |
|                      | +E-W              | 0.00 ft             | Easting:    |
| Position Uncertainty | 0.50 ft           | Wellhead Elevation: |             |
|                      |                   | Latitude:           | 32.138899   |
|                      |                   | Longitude:          | -103.594440 |
|                      |                   | Ground Level:       | 3,446.50 ft |

|           |             |             |                 |
|-----------|-------------|-------------|-----------------|
| Wellbore  | Wellbore #1 |             |                 |
| Magnetics | Model Name  | Sample Date | Declination     |
|           | IGRF2015    | 2/27/2018   | 6.88            |
|           |             |             | 59.97           |
|           |             |             | 47,813.19687410 |

|                   |                  |           |               |
|-------------------|------------------|-----------|---------------|
| Design            | Permit Plan 2    |           |               |
| Audit Notes:      |                  |           |               |
| Version:          | Phase:           | PROTOTYPE | Tie On Depth: |
|                   |                  |           | 0.00          |
| Vertical Section: | Depth From (TVD) | +N-S      | +E-W          |
|                   | (ft)             | (ft)      | (ft)          |
|                   | 0.00             | 0.00      | 0.00          |
|                   |                  |           | 2.65          |

|                          |                 |                                       |                        |
|--------------------------|-----------------|---------------------------------------|------------------------|
| Plan Survey Tool Program | Date 10/16/2018 |                                       |                        |
| Depth From               | Depth To        | Survey (Wellbore)                     | Tool Name              |
| (ft)                     | (ft)            |                                       | Remarks                |
| 1                        | 0.00            | 14,171.06 Permit Plan 2 (Wellbore #1) | MWD+IGRF               |
|                          |                 |                                       | OWSG MWD + IGRF or WMM |

|               |             |         |          |          |        |             |             |             |        |                      |
|---------------|-------------|---------|----------|----------|--------|-------------|-------------|-------------|--------|----------------------|
| Plan Sections |             |         |          |          |        |             |             |             |        |                      |
| Measured      | Inclination | Azimuth | Vertical | +N-S     | +E-W   | Dogleg      | Build       | Turn        | TFO    | Target               |
| Depth         | (°)         | (°)     | Depth    | (ft)     | (ft)   | Rate        | Rate        | Rate        | (°)    |                      |
| (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   |                      |
| 2,700.00      | 0.00        | 0.00    | 2,700.00 | 0.00     | 0.00   | 0.00        | 0.00        | 0.00        | 0.00   |                      |
| 3,011.00      | 3.11        | 120.17  | 3,010.84 | -4.24    | 7.29   | 1.00        | 1.00        | 0.00        | 120.17 |                      |
| 8,252.64      | 3.11        | 120.17  | 8,244.77 | -147.17  | 253.14 | 0.00        | 0.00        | 0.00        | 0.00   |                      |
| 8,459.97      | 0.00        | 0.00    | 8,452.00 | -150.00  | 258.00 | 1.50        | -1.50       | 0.00        | 180.00 |                      |
| 8,810.01      | 0.00        | 0.00    | 8,802.04 | -150.00  | 258.00 | 0.00        | 0.00        | 0.00        | 0.00   |                      |
| 9,710.02      | 90.00       | 359.64  | 9,375.00 | 422.95   | 254.41 | 10.00       | 10.00       | 0.00        | 359.64 | PBHL - Flagler Fed 2 |
| 14,171.06     | 90.00       | 359.64  | 9,375.00 | 4,883.90 | 226.43 | 0.00        | 0.00        | 0.00        | 0.00   | PBHL - Flagler Fed 2 |

# 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 25H  
 Wellbore: Wellbore #1  
 Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 25H  
 TVD Reference: RKB @ 3471.50ft  
 MD Reference: RKB @ 3471.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude  | Longitude   |
|---------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-----------|-------------|
| 0.00                | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 100.00              | 0.00            | 0.00        | 100.00              | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 200.00              | 0.00            | 0.00        | 200.00              | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 300.00              | 0.00            | 0.00        | 300.00              | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 400.00              | 0.00            | 0.00        | 400.00              | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 500.00              | 0.00            | 0.00        | 500.00              | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 600.00              | 0.00            | 0.00        | 600.00              | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 700.00              | 0.00            | 0.00        | 700.00              | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 800.00              | 0.00            | 0.00        | 800.00              | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 900.00              | 0.00            | 0.00        | 900.00              | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 1,000.00            | 0.00            | 0.00        | 1,000.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 1,100.00            | 0.00            | 0.00        | 1,100.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 1,200.00            | 0.00            | 0.00        | 1,200.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 1,300.00            | 0.00            | 0.00        | 1,300.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 1,400.00            | 0.00            | 0.00        | 1,400.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 1,500.00            | 0.00            | 0.00        | 1,500.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 1,600.00            | 0.00            | 0.00        | 1,600.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 1,700.00            | 0.00            | 0.00        | 1,700.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 1,800.00            | 0.00            | 0.00        | 1,800.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 1,900.00            | 0.00            | 0.00        | 1,900.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 2,000.00            | 0.00            | 0.00        | 2,000.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 2,100.00            | 0.00            | 0.00        | 2,100.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 2,200.00            | 0.00            | 0.00        | 2,200.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 2,300.00            | 0.00            | 0.00        | 2,300.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 2,400.00            | 0.00            | 0.00        | 2,400.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 2,500.00            | 0.00            | 0.00        | 2,500.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 2,600.00            | 0.00            | 0.00        | 2,600.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 2,700.00            | 0.00            | 0.00        | 2,700.00            | 0.00       | 0.00       | 415,051.66          | 770,042.59         | 32.138899 | -103.594440 |
| 2,800.00            | 1.00            | 120.17      | 2,799.99            | -0.44      | 0.75       | 415,051.22          | 770,043.34         | 32.138898 | -103.594437 |
| 2,900.00            | 2.00            | 120.17      | 2,899.96            | -1.75      | 3.02       | 415,049.90          | 770,045.60         | 32.138894 | -103.594430 |
| 3,000.00            | 3.00            | 120.17      | 2,999.86            | -3.95      | 6.79       | 415,047.71          | 770,049.38         | 32.138888 | -103.594418 |
| 3,011.00            | 3.11            | 120.17      | 3,010.84            | -4.24      | 7.29       | 415,047.42          | 770,049.88         | 32.138887 | -103.594416 |
| 3,100.00            | 3.11            | 120.17      | 3,099.72            | -6.67      | 11.47      | 415,044.99          | 770,054.06         | 32.138881 | -103.594403 |
| 3,200.00            | 3.11            | 120.17      | 3,199.57            | -9.40      | 16.16      | 415,042.26          | 770,058.75         | 32.138873 | -103.594388 |
| 3,300.00            | 3.11            | 120.17      | 3,299.42            | -12.12     | 20.85      | 415,039.54          | 770,063.44         | 32.138865 | -103.594373 |
| 3,400.00            | 3.11            | 120.17      | 3,399.27            | -14.85     | 25.54      | 415,036.81          | 770,068.13         | 32.138858 | -103.594358 |
| 3,500.00            | 3.11            | 120.17      | 3,499.13            | -17.58     | 30.23      | 415,034.08          | 770,072.82         | 32.138850 | -103.594342 |
| 3,600.00            | 3.11            | 120.17      | 3,598.98            | -20.30     | 34.92      | 415,031.36          | 770,077.51         | 32.138843 | -103.594327 |
| 3,700.00            | 3.11            | 120.17      | 3,698.83            | -23.03     | 39.61      | 415,028.63          | 770,082.20         | 32.138835 | -103.594312 |
| 3,800.00            | 3.11            | 120.17      | 3,798.69            | -25.76     | 44.30      | 415,025.90          | 770,086.89         | 32.138828 | -103.594297 |
| 3,900.00            | 3.11            | 120.17      | 3,898.54            | -28.48     | 48.99      | 415,023.18          | 770,091.58         | 32.138820 | -103.594282 |
| 4,000.00            | 3.11            | 120.17      | 3,998.39            | -31.21     | 53.68      | 415,020.45          | 770,096.27         | 32.138812 | -103.594267 |
| 4,100.00            | 3.11            | 120.17      | 4,098.24            | -33.94     | 58.37      | 415,017.72          | 770,100.96         | 32.138805 | -103.594252 |
| 4,200.00            | 3.11            | 120.17      | 4,198.10            | -36.66     | 63.06      | 415,015.00          | 770,105.65         | 32.138797 | -103.594237 |
| 4,300.00            | 3.11            | 120.17      | 4,297.95            | -39.39     | 67.75      | 415,012.27          | 770,110.34         | 32.138790 | -103.594222 |
| 4,400.00            | 3.11            | 120.17      | 4,397.80            | -42.12     | 72.44      | 415,009.54          | 770,115.03         | 32.138782 | -103.594207 |
| 4,500.00            | 3.11            | 120.17      | 4,497.65            | -44.84     | 77.13      | 415,006.82          | 770,119.72         | 32.138774 | -103.594192 |
| 4,600.00            | 3.11            | 120.17      | 4,597.51            | -47.57     | 81.82      | 415,004.09          | 770,124.41         | 32.138767 | -103.594176 |
| 4,700.00            | 3.11            | 120.17      | 4,697.36            | -50.30     | 86.51      | 415,001.36          | 770,129.10         | 32.138759 | -103.594161 |
| 4,800.00            | 3.11            | 120.17      | 4,797.21            | -53.02     | 91.20      | 414,998.63          | 770,133.79         | 32.138752 | -103.594146 |
| 4,900.00            | 3.11            | 120.17      | 4,897.07            | -55.75     | 95.89      | 414,995.91          | 770,138.48         | 32.138744 | -103.594131 |
| 5,000.00            | 3.11            | 120.17      | 4,996.92            | -58.48     | 100.58     | 414,993.18          | 770,143.17         | 32.138737 | -103.594116 |
| 5,100.00            | 3.11            | 120.17      | 5,096.77            | -61.20     | 105.27     | 414,990.45          | 770,147.86         | 32.138729 | -103.594101 |
| 5,200.00            | 3.11            | 120.17      | 5,196.62            | -63.93     | 109.96     | 414,987.73          | 770,152.55         | 32.138721 | -103.594086 |
| 5,300.00            | 3.11            | 120.17      | 5,296.48            | -66.66     | 114.65     | 414,985.00          | 770,157.24         | 32.138714 | -103.594071 |

# 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 25H  
 Wellbore: Wellbore #1  
 Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 25H  
 TVD Reference: RKB @ 3471.50ft  
 MD Reference: RKB @ 3471.50ft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

| Planned Survey                            |                 |             |                     |            |            |                     |                    |           |             |
|-------------------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (ft)                       | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude  | Longitude   |
| 5,400.00                                  | 3.11            | 120.17      | 5,396.33            | -69.39     | 119.34     | 414,982.27          | 770,161.93         | 32.138706 | -103.594056 |
| 5,500.00                                  | 3.11            | 120.17      | 5,496.18            | -72.11     | 124.03     | 414,979.55          | 770,166.62         | 32.138699 | -103.594041 |
| 5,600.00                                  | 3.11            | 120.17      | 5,596.03            | -74.84     | 128.72     | 414,976.82          | 770,171.31         | 32.138691 | -103.594026 |
| 5,700.00                                  | 3.11            | 120.17      | 5,695.89            | -77.57     | 133.41     | 414,974.09          | 770,176.00         | 32.138683 | -103.594010 |
| 5,800.00                                  | 3.11            | 120.17      | 5,795.74            | -80.29     | 138.10     | 414,971.37          | 770,180.69         | 32.138676 | -103.593995 |
| 5,900.00                                  | 3.11            | 120.17      | 5,895.59            | -83.02     | 142.79     | 414,968.64          | 770,185.38         | 32.138668 | -103.593980 |
| 6,000.00                                  | 3.11            | 120.17      | 5,995.45            | -85.75     | 147.48     | 414,965.91          | 770,190.07         | 32.138661 | -103.593965 |
| 6,100.00                                  | 3.11            | 120.17      | 6,095.30            | -88.47     | 152.17     | 414,963.19          | 770,194.76         | 32.138653 | -103.593950 |
| 6,200.00                                  | 3.11            | 120.17      | 6,195.15            | -91.20     | 156.86     | 414,960.46          | 770,199.45         | 32.138646 | -103.593935 |
| 6,300.00                                  | 3.11            | 120.17      | 6,295.00            | -93.93     | 161.55     | 414,957.73          | 770,204.14         | 32.138638 | -103.593920 |
| 6,400.00                                  | 3.11            | 120.17      | 6,394.86            | -96.65     | 166.24     | 414,955.01          | 770,208.83         | 32.138630 | -103.593905 |
| 6,500.00                                  | 3.11            | 120.17      | 6,494.71            | -99.38     | 170.93     | 414,952.28          | 770,213.52         | 32.138623 | -103.593890 |
| 6,600.00                                  | 3.11            | 120.17      | 6,594.56            | -102.11    | 175.63     | 414,949.55          | 770,218.21         | 32.138615 | -103.593875 |
| 6,700.00                                  | 3.11            | 120.17      | 6,694.41            | -104.83    | 180.32     | 414,946.83          | 770,222.90         | 32.138608 | -103.593860 |
| 6,800.00                                  | 3.11            | 120.17      | 6,794.27            | -107.56    | 185.01     | 414,944.10          | 770,227.59         | 32.138600 | -103.593844 |
| 6,900.00                                  | 3.11            | 120.17      | 6,894.12            | -110.29    | 189.70     | 414,941.37          | 770,232.28         | 32.138592 | -103.593829 |
| 7,000.00                                  | 3.11            | 120.17      | 6,993.97            | -113.01    | 194.39     | 414,938.64          | 770,236.97         | 32.138585 | -103.593814 |
| 7,100.00                                  | 3.11            | 120.17      | 7,093.83            | -115.74    | 199.08     | 414,935.92          | 770,241.66         | 32.138577 | -103.593799 |
| 7,200.00                                  | 3.11            | 120.17      | 7,193.68            | -118.47    | 203.77     | 414,933.19          | 770,246.35         | 32.138570 | -103.593784 |
| 7,300.00                                  | 3.11            | 120.17      | 7,293.53            | -121.20    | 208.46     | 414,930.46          | 770,251.04         | 32.138562 | -103.593769 |
| 7,400.00                                  | 3.11            | 120.17      | 7,393.38            | -123.92    | 213.15     | 414,927.74          | 770,255.73         | 32.138554 | -103.593754 |
| 7,500.00                                  | 3.11            | 120.17      | 7,493.24            | -126.65    | 217.84     | 414,925.01          | 770,260.42         | 32.138547 | -103.593739 |
| 7,600.00                                  | 3.11            | 120.17      | 7,593.09            | -129.38    | 222.53     | 414,922.28          | 770,265.11         | 32.138539 | -103.593724 |
| 7,700.00                                  | 3.11            | 120.17      | 7,692.94            | -132.10    | 227.22     | 414,919.56          | 770,269.80         | 32.138532 | -103.593709 |
| 7,800.00                                  | 3.11            | 120.17      | 7,792.79            | -134.83    | 231.91     | 414,916.83          | 770,274.49         | 32.138524 | -103.593694 |
| 7,900.00                                  | 3.11            | 120.17      | 7,892.65            | -137.56    | 236.60     | 414,914.10          | 770,279.18         | 32.138517 | -103.593678 |
| 8,000.00                                  | 3.11            | 120.17      | 7,992.50            | -140.28    | 241.29     | 414,911.38          | 770,283.87         | 32.138509 | -103.593663 |
| 8,100.00                                  | 3.11            | 120.17      | 8,092.35            | -143.01    | 245.98     | 414,908.65          | 770,288.56         | 32.138501 | -103.593648 |
| 8,200.00                                  | 3.11            | 120.17      | 8,192.21            | -145.74    | 250.67     | 414,905.92          | 770,293.25         | 32.138494 | -103.593633 |
| 8,252.64                                  | 3.11            | 120.17      | 8,244.77            | -147.17    | 253.14     | 414,904.49          | 770,295.72         | 32.138490 | -103.593625 |
| 8,300.00                                  | 2.40            | 120.17      | 8,292.07            | -148.32    | 255.10     | 414,903.34          | 770,297.69         | 32.138487 | -103.593619 |
| 8,400.00                                  | 0.90            | 120.17      | 8,392.03            | -149.76    | 257.59     | 414,901.90          | 770,300.18         | 32.138483 | -103.593611 |
| 8,459.97                                  | 0.00            | 0.00        | 8,452.00            | -150.00    | 258.00     | 414,901.66          | 770,300.59         | 32.138482 | -103.593610 |
| 8,500.00                                  | 0.00            | 0.00        | 8,492.03            | -150.00    | 258.00     | 414,901.66          | 770,300.59         | 32.138482 | -103.593610 |
| 8,600.00                                  | 0.00            | 0.00        | 8,592.03            | -150.00    | 258.00     | 414,901.66          | 770,300.59         | 32.138482 | -103.593610 |
| 8,700.00                                  | 0.00            | 0.00        | 8,692.03            | -150.00    | 258.00     | 414,901.66          | 770,300.59         | 32.138482 | -103.593610 |
| 8,800.00                                  | 0.00            | 0.00        | 8,792.03            | -150.00    | 258.00     | 414,901.66          | 770,300.59         | 32.138482 | -103.593610 |
| 8,810.01                                  | 0.00            | 0.00        | 8,802.04            | -150.00    | 258.00     | 414,901.66          | 770,300.59         | 32.138482 | -103.593610 |
| KOP & FTP @ 8810' MD, 230' FSL, 2435' FEL |                 |             |                     |            |            |                     |                    |           |             |
| 8,900.00                                  | 9.00            | 359.64      | 8,891.66            | -142.95    | 257.96     | 414,908.71          | 770,300.54         | 32.138501 | -103.593610 |
| 9,000.00                                  | 19.00           | 359.64      | 8,988.56            | -118.79    | 257.80     | 414,932.87          | 770,300.39         | 32.138568 | -103.593609 |
| 9,100.00                                  | 29.00           | 359.64      | 9,079.80            | -78.17     | 257.55     | 414,973.49          | 770,300.14         | 32.138679 | -103.593609 |
| 9,200.00                                  | 39.00           | 359.64      | 9,162.60            | -22.33     | 257.20     | 415,029.33          | 770,299.79         | 32.138833 | -103.593609 |
| 9,300.00                                  | 49.00           | 359.64      | 9,234.45            | 47.05      | 256.76     | 415,098.71          | 770,299.35         | 32.139024 | -103.593609 |
| 9,400.00                                  | 59.00           | 359.64      | 9,293.15            | 127.84     | 256.26     | 415,179.50          | 770,298.84         | 32.139246 | -103.593609 |
| 9,500.00                                  | 69.00           | 359.64      | 9,336.94            | 217.61     | 255.69     | 415,269.27          | 770,298.28         | 32.139492 | -103.593609 |
| 9,600.00                                  | 79.00           | 359.64      | 9,364.47            | 313.61     | 255.09     | 415,365.27          | 770,297.68         | 32.139756 | -103.593609 |
| 9,700.00                                  | 89.00           | 359.64      | 9,374.91            | 412.93     | 254.47     | 415,464.59          | 770,297.06         | 32.140029 | -103.593608 |
| 9,710.02                                  | 90.00           | 359.64      | 9,375.00            | 422.95     | 254.41     | 415,474.61          | 770,296.99         | 32.140057 | -103.593608 |
| 9,800.00                                  | 90.00           | 359.64      | 9,375.00            | 512.93     | 253.84     | 415,564.59          | 770,296.43         | 32.140304 | -103.593608 |
| 9,900.00                                  | 90.00           | 359.64      | 9,375.00            | 612.93     | 253.22     | 415,664.59          | 770,295.80         | 32.140579 | -103.593608 |
| 10,000.00                                 | 90.00           | 359.64      | 9,375.00            | 712.93     | 252.59     | 415,764.58          | 770,295.17         | 32.140854 | -103.593608 |
| 10,100.00                                 | 90.00           | 359.64      | 9,375.00            | 812.92     | 251.96     | 415,864.58          | 770,294.55         | 32.141129 | -103.593608 |
| 10,200.00                                 | 90.00           | 359.64      | 9,375.00            | 912.92     | 251.33     | 415,964.58          | 770,293.92         | 32.141404 | -103.593608 |

# 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 25H  
 Wellbore: Wellbore #1  
 Design: Permit Plan 2

Local Co-ordinate Reference: Well Flagler 8 Fed 25H  
 TVD Reference: RKB @ 3471.50ft  
 MD Reference: RKB @ 3471.50ft  
 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              | 359.64         | 9,375.00                  | 1,012.92      | 250.71        | 416,064.58                | 770,293.29               | 32.141679 | -103.593607 |  |
| 10,400.00                            | 90.00              | 359.64         | 9,375.00                  | 1,112.92      | 250.08        | 416,164.58                | 770,292.67               | 32.141954 | -103.593607 |  |
| 10,500.00                            | 90.00              | 359.64         | 9,375.00                  | 1,212.92      | 249.45        | 416,264.57                | 770,292.04               | 32.142228 | -103.593607 |  |
| 10,600.00                            | 90.00              | 359.64         | 9,375.00                  | 1,312.91      | 248.83        | 416,364.57                | 770,291.41               | 32.142503 | -103.593607 |  |
| 10,700.00                            | 90.00              | 359.64         | 9,375.00                  | 1,412.91      | 248.20        | 416,464.57                | 770,290.79               | 32.142778 | -103.593607 |  |
| 10,800.00                            | 90.00              | 359.64         | 9,375.00                  | 1,512.91      | 247.57        | 416,564.57                | 770,290.16               | 32.143053 | -103.593606 |  |
| 10,900.00                            | 90.00              | 359.64         | 9,375.00                  | 1,612.91      | 246.94        | 416,664.56                | 770,289.53               | 32.143328 | -103.593606 |  |
| 11,000.00                            | 90.00              | 359.64         | 9,375.00                  | 1,712.91      | 246.32        | 416,764.56                | 770,288.90               | 32.143603 | -103.593606 |  |
| 11,100.00                            | 90.00              | 359.64         | 9,375.00                  | 1,812.90      | 245.69        | 416,864.56                | 770,288.28               | 32.143878 | -103.593606 |  |
| 11,200.00                            | 90.00              | 359.64         | 9,375.00                  | 1,912.90      | 245.06        | 416,964.56                | 770,287.65               | 32.144153 | -103.593606 |  |
| 11,300.00                            | 90.00              | 359.64         | 9,375.00                  | 2,012.90      | 244.44        | 417,064.56                | 770,287.02               | 32.144427 | -103.593605 |  |
| 11,400.00                            | 90.00              | 359.64         | 9,375.00                  | 2,112.90      | 243.81        | 417,164.55                | 770,286.40               | 32.144702 | -103.593605 |  |
| 11,500.00                            | 90.00              | 359.64         | 9,375.00                  | 2,212.90      | 243.18        | 417,264.55                | 770,285.77               | 32.144977 | -103.593605 |  |
| 11,600.00                            | 90.00              | 359.64         | 9,375.00                  | 2,312.89      | 242.55        | 417,364.55                | 770,285.14               | 32.145252 | -103.593605 |  |
| 11,700.00                            | 90.00              | 359.64         | 9,375.00                  | 2,412.89      | 241.93        | 417,464.55                | 770,284.51               | 32.145527 | -103.593605 |  |
| 11,800.00                            | 90.00              | 359.64         | 9,375.00                  | 2,512.89      | 241.30        | 417,564.54                | 770,283.89               | 32.145802 | -103.593604 |  |
| 11,900.00                            | 90.00              | 359.64         | 9,375.00                  | 2,612.89      | 240.67        | 417,664.54                | 770,283.26               | 32.146077 | -103.593604 |  |
| 12,000.00                            | 90.00              | 359.64         | 9,375.00                  | 2,712.89      | 240.05        | 417,764.54                | 770,282.63               | 32.146352 | -103.593604 |  |
| 12,100.00                            | 90.00              | 359.64         | 9,375.00                  | 2,812.88      | 239.42        | 417,864.54                | 770,282.01               | 32.146626 | -103.593604 |  |
| 12,200.00                            | 90.00              | 359.64         | 9,375.00                  | 2,912.88      | 238.79        | 417,964.54                | 770,281.38               | 32.146901 | -103.593604 |  |
| 12,300.00                            | 90.00              | 359.64         | 9,375.00                  | 3,012.88      | 238.16        | 418,064.53                | 770,280.75               | 32.147176 | -103.593603 |  |
| 12,400.00                            | 90.00              | 359.64         | 9,375.00                  | 3,112.88      | 237.54        | 418,164.53                | 770,280.12               | 32.147451 | -103.593603 |  |
| 12,500.00                            | 90.00              | 359.64         | 9,375.00                  | 3,212.88      | 236.91        | 418,264.53                | 770,279.50               | 32.147726 | -103.593603 |  |
| 12,600.00                            | 90.00              | 359.64         | 9,375.00                  | 3,312.87      | 236.28        | 418,364.53                | 770,278.87               | 32.148001 | -103.593603 |  |
| 12,700.00                            | 90.00              | 359.64         | 9,375.00                  | 3,412.87      | 235.66        | 418,464.53                | 770,278.24               | 32.148276 | -103.593603 |  |
| 12,800.00                            | 90.00              | 359.64         | 9,375.00                  | 3,512.87      | 235.03        | 418,564.52                | 770,277.62               | 32.148551 | -103.593602 |  |
| 12,900.00                            | 90.00              | 359.64         | 9,375.00                  | 3,612.87      | 234.40        | 418,664.52                | 770,276.99               | 32.148825 | -103.593602 |  |
| 13,000.00                            | 90.00              | 359.64         | 9,375.00                  | 3,712.87      | 233.77        | 418,764.52                | 770,276.36               | 32.149100 | -103.593602 |  |
| 13,100.00                            | 90.00              | 359.64         | 9,375.00                  | 3,812.87      | 233.15        | 418,864.52                | 770,275.73               | 32.149375 | -103.593602 |  |
| 13,200.00                            | 90.00              | 359.64         | 9,375.00                  | 3,912.86      | 232.52        | 418,964.51                | 770,275.11               | 32.149650 | -103.593602 |  |
| 13,300.00                            | 90.00              | 359.64         | 9,375.00                  | 4,012.86      | 231.89        | 419,064.51                | 770,274.48               | 32.149925 | -103.593602 |  |
| 13,400.00                            | 90.00              | 359.64         | 9,375.00                  | 4,112.86      | 231.27        | 419,164.51                | 770,273.85               | 32.150200 | -103.593601 |  |
| 13,500.00                            | 90.00              | 359.64         | 9,375.00                  | 4,212.86      | 230.64        | 419,264.51                | 770,273.23               | 32.150475 | -103.593601 |  |
| 13,600.00                            | 90.00              | 359.64         | 9,375.00                  | 4,312.86      | 230.01        | 419,364.51                | 770,272.60               | 32.150750 | -103.593601 |  |
| 13,700.00                            | 90.00              | 359.64         | 9,375.00                  | 4,412.85      | 229.38        | 419,464.50                | 770,271.97               | 32.151024 | -103.593601 |  |
| 13,800.00                            | 90.00              | 359.64         | 9,375.00                  | 4,512.85      | 228.76        | 419,564.50                | 770,271.34               | 32.151299 | -103.593601 |  |
| 13,900.00                            | 90.00              | 359.64         | 9,375.00                  | 4,612.85      | 228.13        | 419,664.50                | 770,270.72               | 32.151574 | -103.593600 |  |
| 14,000.00                            | 90.00              | 359.64         | 9,375.00                  | 4,712.85      | 227.50        | 419,764.50                | 770,270.09               | 32.151849 | -103.593600 |  |
| 14,100.00                            | 90.00              | 359.64         | 9,375.00                  | 4,812.85      | 226.88        | 419,864.50                | 770,269.46               | 32.152124 | -103.593600 |  |
| 14,112.23                            | 90.00              | 359.64         | 9,375.00                  | 4,825.08      | 226.80        | 419,876.72                | 770,269.39               | 32.152158 | -103.593600 |  |
| LTP @ 14112' MD, 100' FNL, 2435' FEL |                    |                |                           |               |               |                           |                          |           |             |  |
| 14,171.06                            | 90.00              | 359.64         | 9,375.00                  | 4,883.90      | 226.43        | 419,935.55                | 770,269.02               | 32.152319 | -103.593600 |  |

# 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 25H  
**Wellbore:** Wellbore #1  
**Design:** Permit Plan 2

**Local Co-ordinate Reference:** Well Flagler 8 Fed 25H  
**TVD Reference:** RKB @ 3471.50ft  
**MD Reference:** RKB @ 3471.50ft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

## Design Targets

| Target Name<br>- hit/miss target<br>- Shape                                                                                         | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Northing<br>(usft) | Easting<br>(usft) | Latitude  | Longitude   |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|-------------|---------------|---------------|--------------------|-------------------|-----------|-------------|
| PBHL - Flagler Fed 25 (;<br>- plan misses target center by 4889.15ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)<br>- Point             | 0.00             | 0.00            | 0.00        | 4,883.90      | 226.43        | 419,935.55         | 770,269.02        | 32.152319 | -103.593600 |
| PBHL - Flagler 8 25H Pe<br>- plan misses target center by 4569.25ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)<br>- Point              | 0.00             | 0.00            | 0.00        | 4,569.25      | -0.83         | 419,620.90         | 770,041.76        | 32.151459 | -103.594341 |
| PBHL - Flagler 8 Fed 25<br>- plan misses target center by 4588.75ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)<br>- Point              | 0.00             | 0.00            | 0.00        | 4,566.56      | -450.75       | 419,618.21         | 769,591.84        | 32.151460 | -103.595795 |
| Vertical Point - Flagler 8<br>- plan misses target center by 707.56ft at 8279.84ft MD (8271.93 TVD, -147.87 N, 254.33 E)<br>- Point | 0.00             | 0.00            | 8,300.00    | -200.00       | -450.75       | 414,851.66         | 769,591.84        | 32.138358 | -103.595900 |
| Vertical Point - Flagler 8<br>- plan misses target center by 258.00ft at 8302.01ft MD (8294.08 TVD, -148.36 N, 255.18 E)<br>- Point | 0.00             | 0.00            | 8,300.00    | -179.80       | -0.83         | 414,871.86         | 770,041.76        | 32.138405 | -103.594446 |

## Plan Annotations

| Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates |               | Comment                                   |
|---------------------------|---------------------------|-------------------|---------------|-------------------------------------------|
|                           |                           | +N/-S<br>(ft)     | +E/-W<br>(ft) |                                           |
| 8,810.01                  | 8,802.04                  | -150.00           | 258.00        | KOP & FTP @ 8810' MD, 230' FSL, 2435' FEL |
| 14,112.23                 | 9,375.00                  | 4,819.37          | 17.69         | LTP @ 14112' MD, 100' FNL, 2435' FEL      |
| 14,192.23                 | 9,375.00                  | 4,899.27          | 13.83         | PBHL; 20' FNL, 2435' FEL                  |

# WCDSC Permian NM

WELL DETAILS: Fläglar 8 Fed 25H

RKB @ 3471.50R  
3446.50

Northings  
415051.06

Easting  
770042.59

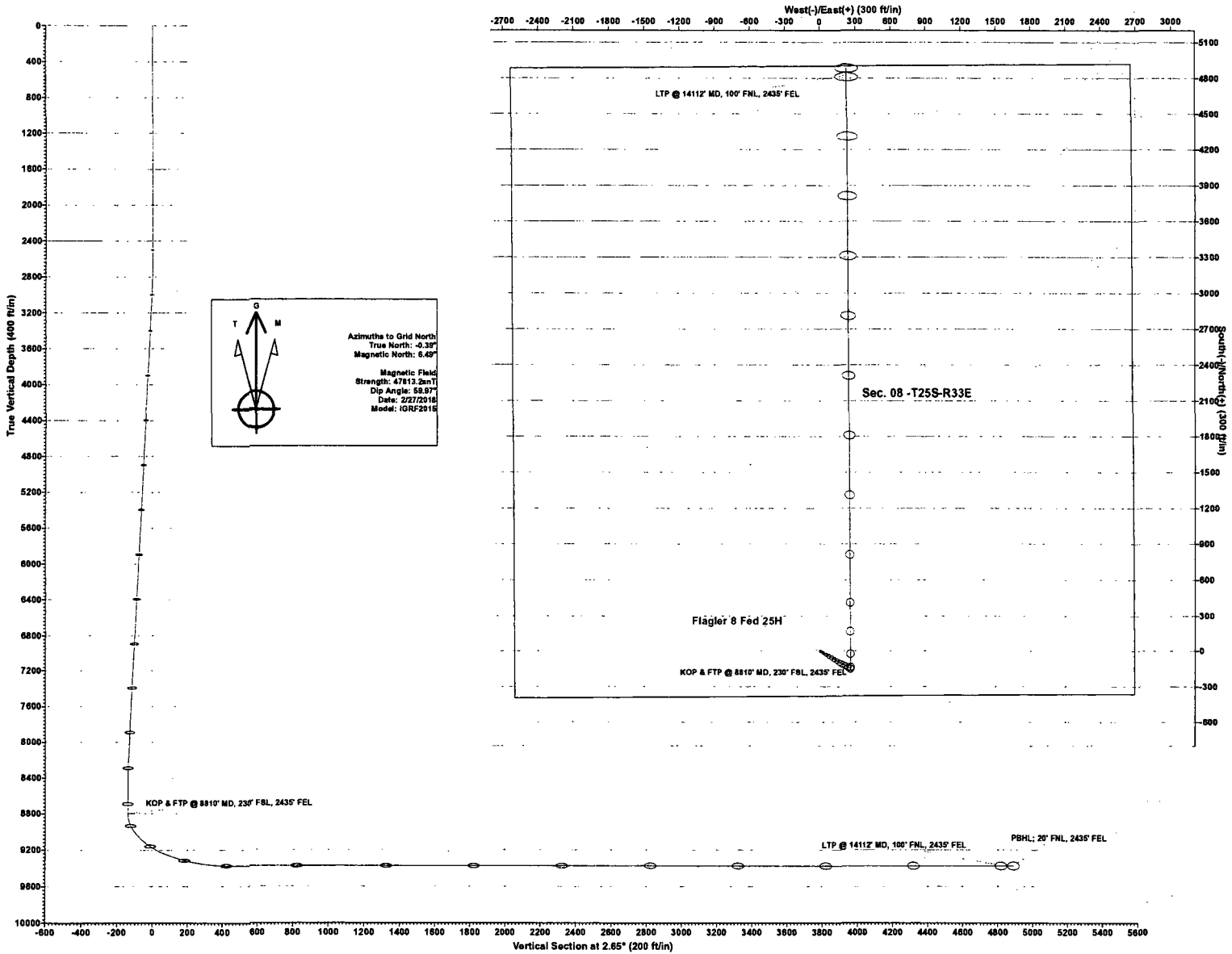
Latitude  
32.138899

Longitude  
-103.594439

devon

## 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    |                                           |
| 2700.00  | 0.00  | 0.00   | 2700.00 | 0.00    | 0.00   | 0.00  | 0.00    |                                           |
| 3011.00  | 3.11  | 120.17 | 3010.84 | -4.24   | 7.29   | 1.00  | -3.90   |                                           |
| 8252.64  | 3.11  | 120.17 | 8244.77 | -147.17 | 253.14 | 0.00  | -135.29 |                                           |
| 8459.97  | 0.00  | 0.00   | 8452.00 | -150.00 | 258.00 | 1.50  | -137.89 |                                           |
| 8810.01  | 0.00  | 0.00   | 8802.04 | -150.00 | 258.00 | 0.00  | -137.89 | KOP & FTP @ 8810' MD, 230' FSL, 2435' FEL |
| 9710.02  | 90.00 | 359.64 | 9375.00 | 422.95  | 254.41 | 10.00 | 434.28  |                                           |
| 14171.06 | 90.00 | 359.64 | 9375.00 | 4883.90 | 226.43 | 0.00  | 4889.15 |                                           |



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>30-025-45013</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>6</sup> Well Number<br><b>25H</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>9</sup> Elevation<br><b>3446.5</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     |
|---------------|----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|------------|
| <b>N</b>      | <b>8</b> | <b>25 S</b> | <b>33 E</b> |         | <b>380</b>    | <b>SOUTH</b>     | <b>2600</b>   | <b>WEST</b>    | <b>LEA</b> |

<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     |
|---------------|----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|------------|
| <b>B</b>      | <b>8</b> | <b>25 S</b> | <b>33 E</b> |         | <b>20</b>     | <b>NORTH</b>     | <b>2435</b>   | <b>EAST</b>    | <b>LEA</b> |

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

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>N/4 CORNER SEC. 8<br/>LAT. = 32.1523655°N<br/>LONG. = 103.5942861°W</p> <p>NW CORNER SEC. 8<br/>LAT. = 32.1523717°N<br/>LONG. = 103.6028369°W</p> <p>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</p> <p>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</p> <p>NMSP EAST (FT)<br/>N = 414655.05<br/>E = 767445.46</p>                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | <p>N89°33'52"E 2647.55 FT</p> <p>2435'</p> <p>NE CORNER SEC. 8<br/>LAT. = 32.1523705°N<br/>LONG. = 103.5857333°W</p> <p>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</p> <p>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</p> <p>NMSP EAST (FT)<br/>N = 414689.28<br/>E = 772734.46</p>                 |  | <p><sup>17</sup> OPERATOR CERTIFICATION</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 unless 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> 11/1/2018<br/>Signature Date</p> <p><b>Rebecca Deal, Regulatory Analyst</b><br/>Printed Name</p> <p><b>rebecca.deal@dmv.com</b><br/>E-mail Address</p> |  |
| <p>20'</p> <p>BOTTOM OF HOME LTP</p> <p>100' FNL</p> <p>2435' FEL</p> <p>LAST TAKE POINT</p> <p>100' FNL, 2435' FEL</p> <p>LAT. = 32.1520911°N<br/>LONG. = 103.5936000°W</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 NAVD83.</p> <p>FLAGLER 8 FEDERAL 25H</p> <p>ELEV. = 3446.5'</p> <p>LAT. = 32.1388991°N (NAD83)<br/>LONG. = 103.5944394°W</p> <p>NMSP EAST (FT)<br/>N = 415051.66<br/>E = 770042.59</p> <p>FIRST TAKE POINT</p> <p>100' FSL, 2435' FEL</p> <p>LAT. = 32.1381293°N<br/>LONG. = 103.5936162°W</p> <p>FTP - 100' FSL, 2435' FEL</p> <p>S/4 CORNER SEC. 8<br/>LAT. = 32.1378547°N<br/>LONG. = 103.5942897°W</p> <p>NMSP EAST (FT)<br/>N = 414672.04<br/>E = 770091.56</p> |  | <p><sup>18</sup> SURVEYOR CERTIFICATION</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>OCTOBER 4, 2018<br/>Date of Survey</p> <p><i>[Signature]</i><br/>Signature and Seal of Professional Surveyor</p> <p>Certificate Number: JILIMON E. JARAMILLO, PLS 12797</p> <p>SURVEY NO. 5832B</p> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |

Intent ☒ As Drilled ☐

API #  
**30-025-45013**

|                                                                    |                                            |                           |
|--------------------------------------------------------------------|--------------------------------------------|---------------------------|
| Operator Name:<br><b>DEVON ENERGY PRODUCTION<br/>COMPANY, L.P.</b> | Property Name:<br><b>FLAGLER 8 FEDERAL</b> | Well Number<br><b>25H</b> |
|--------------------------------------------------------------------|--------------------------------------------|---------------------------|

**Kick Off Point (KOP)**

|                              |                     |                        |                     |     |                                 |                        |                     |                        |                      |
|------------------------------|---------------------|------------------------|---------------------|-----|---------------------------------|------------------------|---------------------|------------------------|----------------------|
| UL                           | Section<br><b>8</b> | Township<br><b>23S</b> | Range<br><b>33E</b> | Lot | Feet<br><b>230</b>              | From N/S<br><b>FSL</b> | Feet<br><b>2435</b> | From E/W<br><b>FEL</b> | County<br><b>LEA</b> |
| Latitude<br><b>32.138482</b> |                     |                        |                     |     | Longitude<br><b>-103.593610</b> |                        |                     |                        | NAD<br><b>83</b>     |

**First Take Point (FTP)**

|                               |                     |                        |                     |     |                                 |                          |                     |                         |                      |
|-------------------------------|---------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|---------------------|-------------------------|----------------------|
| UL<br><b>O</b>                | Section<br><b>8</b> | Township<br><b>25S</b> | Range<br><b>33E</b> | Lot | Feet<br><b>100</b>              | From N/S<br><b>SOUTH</b> | Feet<br><b>2435</b> | From E/W<br><b>EAST</b> | County<br><b>LEA</b> |
| Latitude<br><b>32.1381293</b> |                     |                        |                     |     | Longitude<br><b>103.5936162</b> |                          |                     |                         | NAD<br><b>83</b>     |

**Last Take Point (LTP)**

|                               |                     |                        |                     |     |                                 |                          |                     |                         |                      |
|-------------------------------|---------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|---------------------|-------------------------|----------------------|
| UL<br><b>B</b>                | Section<br><b>8</b> | Township<br><b>25S</b> | Range<br><b>33E</b> | Lot | Feet<br><b>100</b>              | From N/S<br><b>NORTH</b> | Feet<br><b>2435</b> | From E/W<br><b>EAST</b> | County<br><b>LEA</b> |
| Latitude<br><b>32.1520911</b> |                     |                        |                     |     | Longitude<br><b>103.5936000</b> |                          |                     |                         | NAD<br><b>83</b>     |

Is this well the defining well for the Horizontal Spacing Unit? ☒ **Y**

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 #

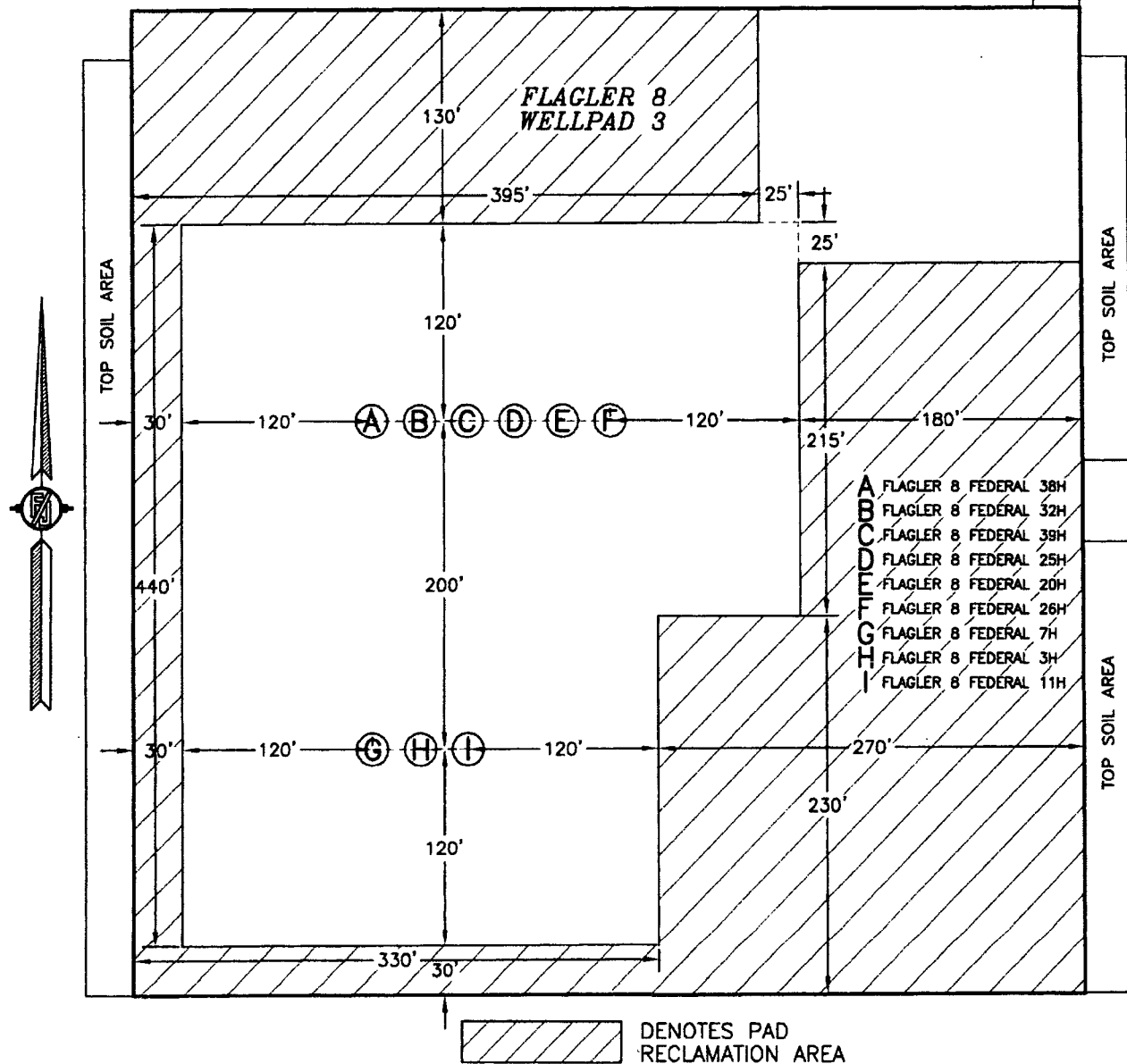
|                |                |             |
|----------------|----------------|-------------|
| Operator Name: | Property Name: | Well Number |
|----------------|----------------|-------------|

KZ 06/29/2018

CARLSBAD, NEW MEXICO

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



0 10 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

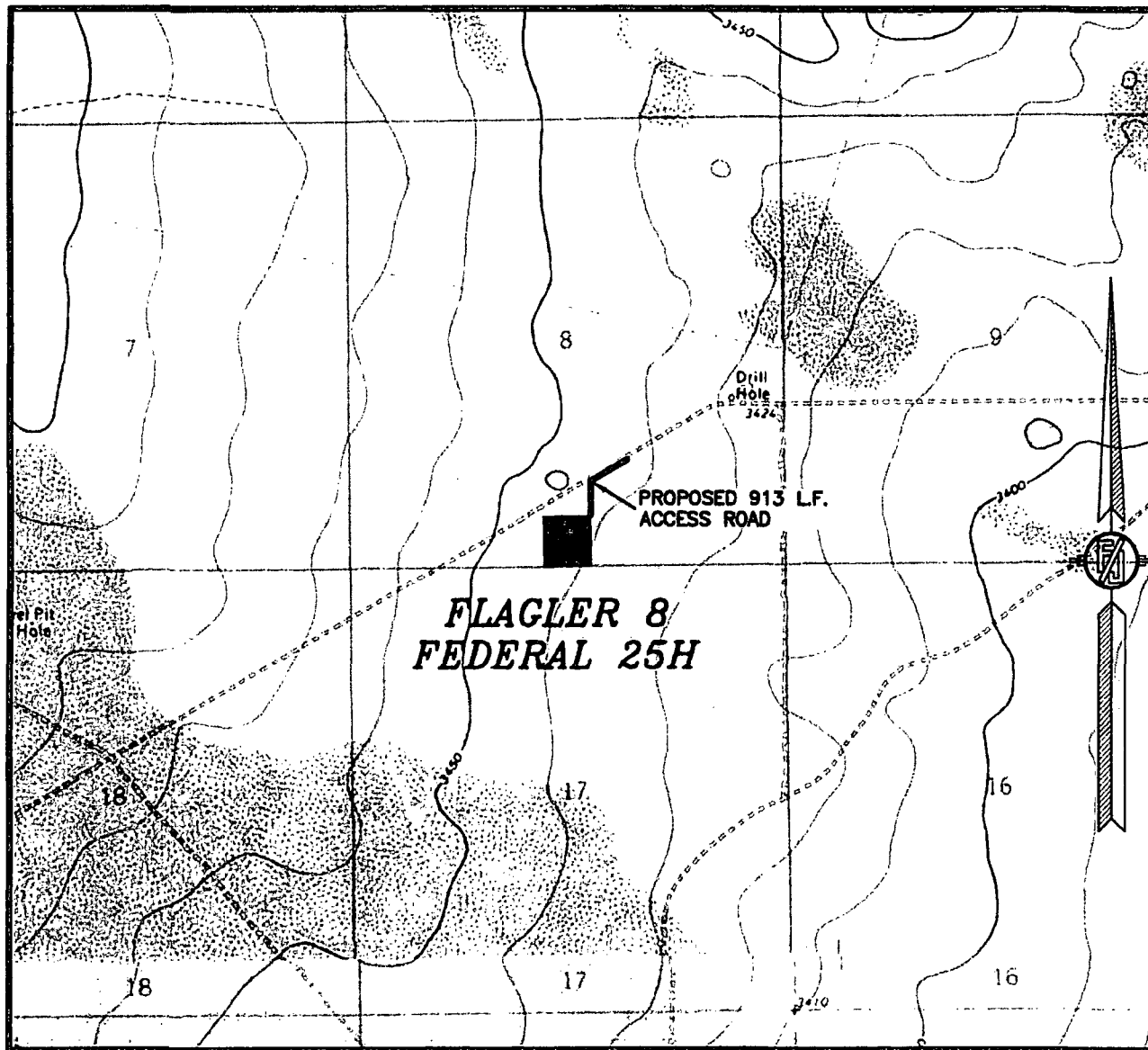
DEVON ENERGY PRODUCTION COMPANY, L.P.  
**FLAGLER 8 FEDERAL 25H**  
LOCATED 380 FT. FROM THE SOUTH LINE  
AND 2600 FT. FROM THE WEST LINE OF  
SECTION 8, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 4, 2018

SURVEY NO. 5832B

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  
LOCATION VERIFICATION MAP



USGS QUAD MAP:  
BELL LAKE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.  
**FLAGLER 8 FEDERAL 25H**

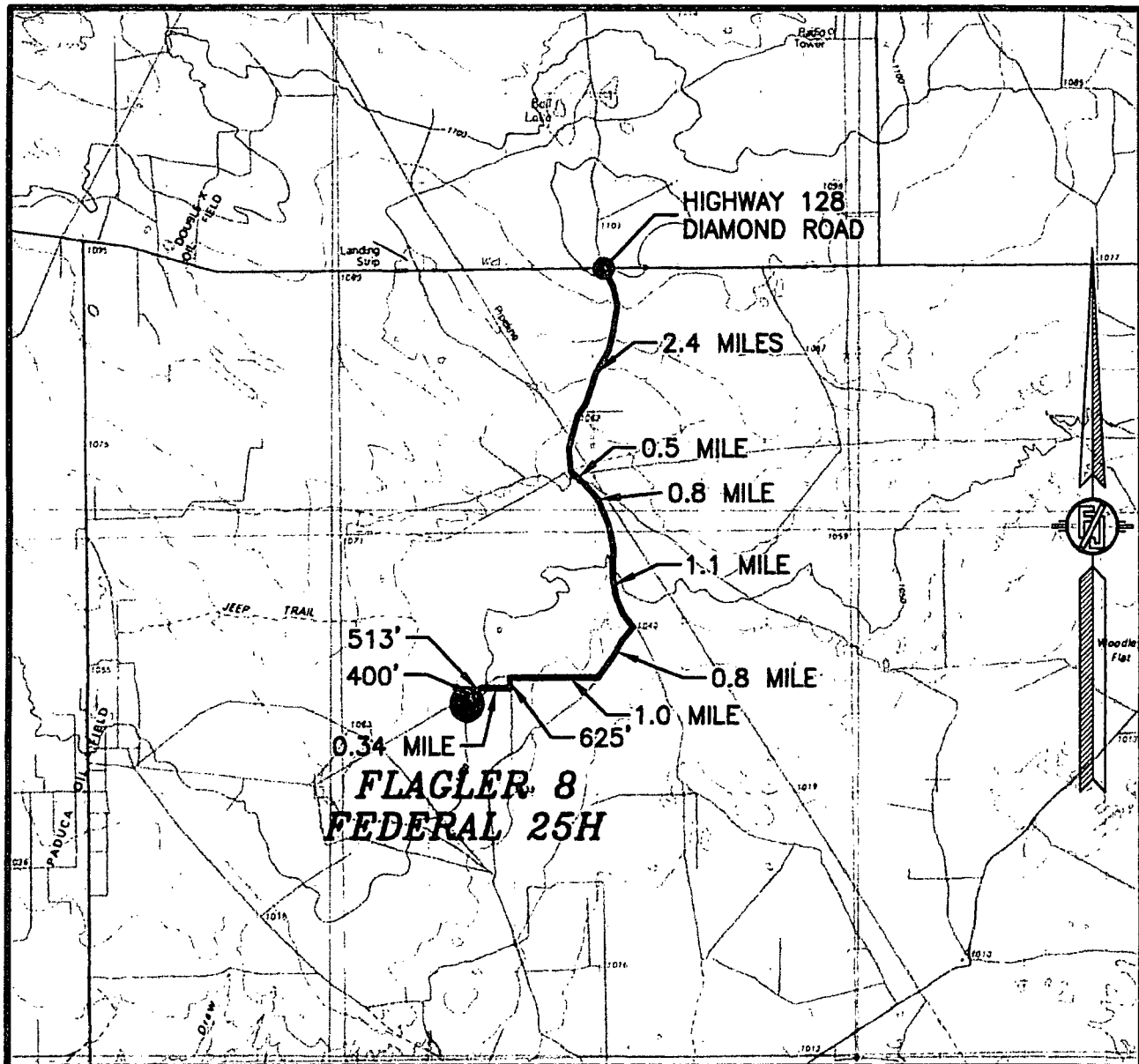
LOCATED 380 FT. FROM THE SOUTH LINE  
AND 2600 FT. FROM THE WEST LINE OF  
SECTION 8, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 4, 2018

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

SURVEY NO. 5832B  
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 25H**

LOCATED 380 FT. FROM THE SOUTH LINE  
AND 2600 FT. FROM THE WEST LINE OF  
SECTION 8, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

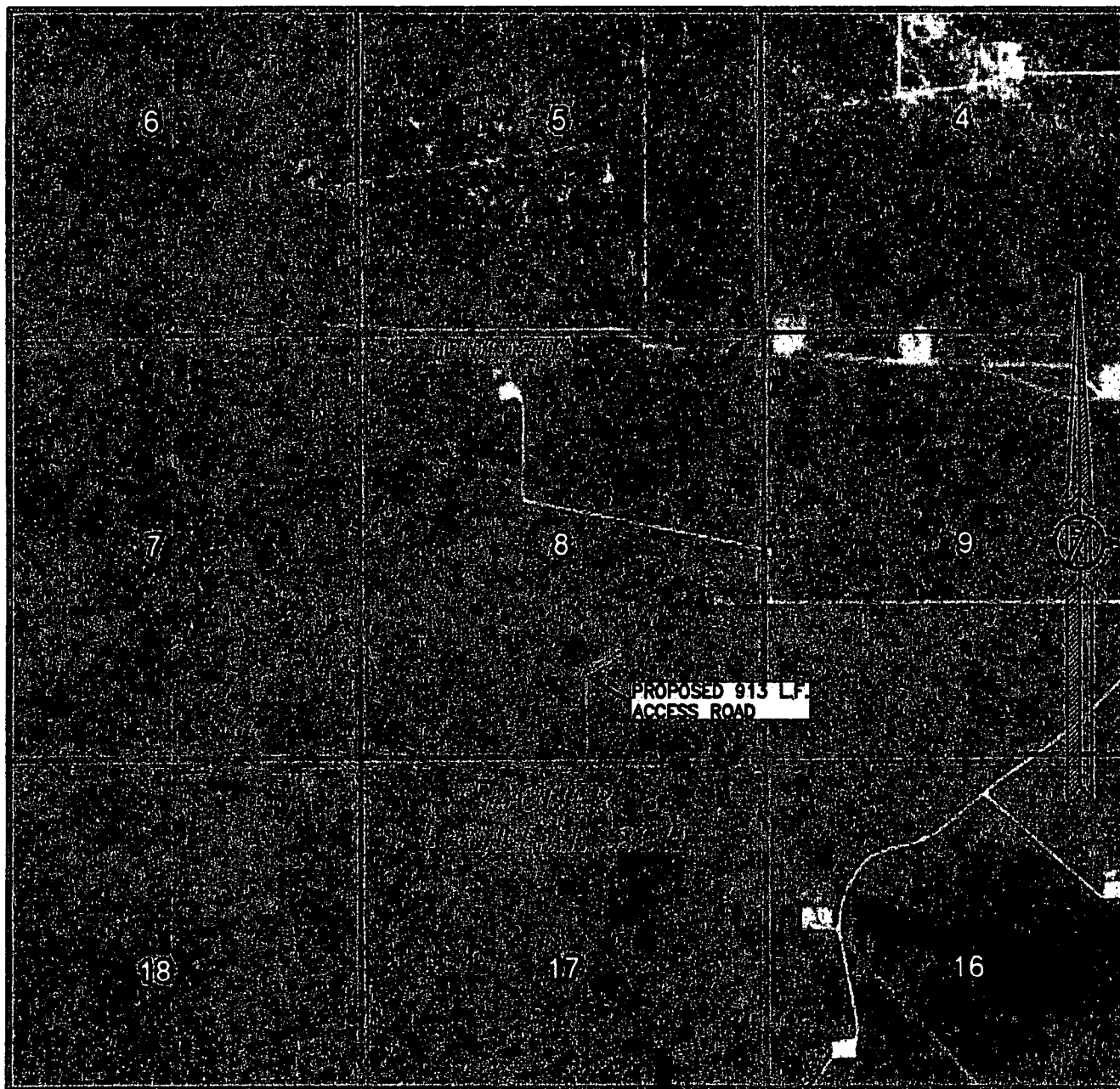
OCTOBER 4, 2018

SURVEY NO. 5832B

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 25H**

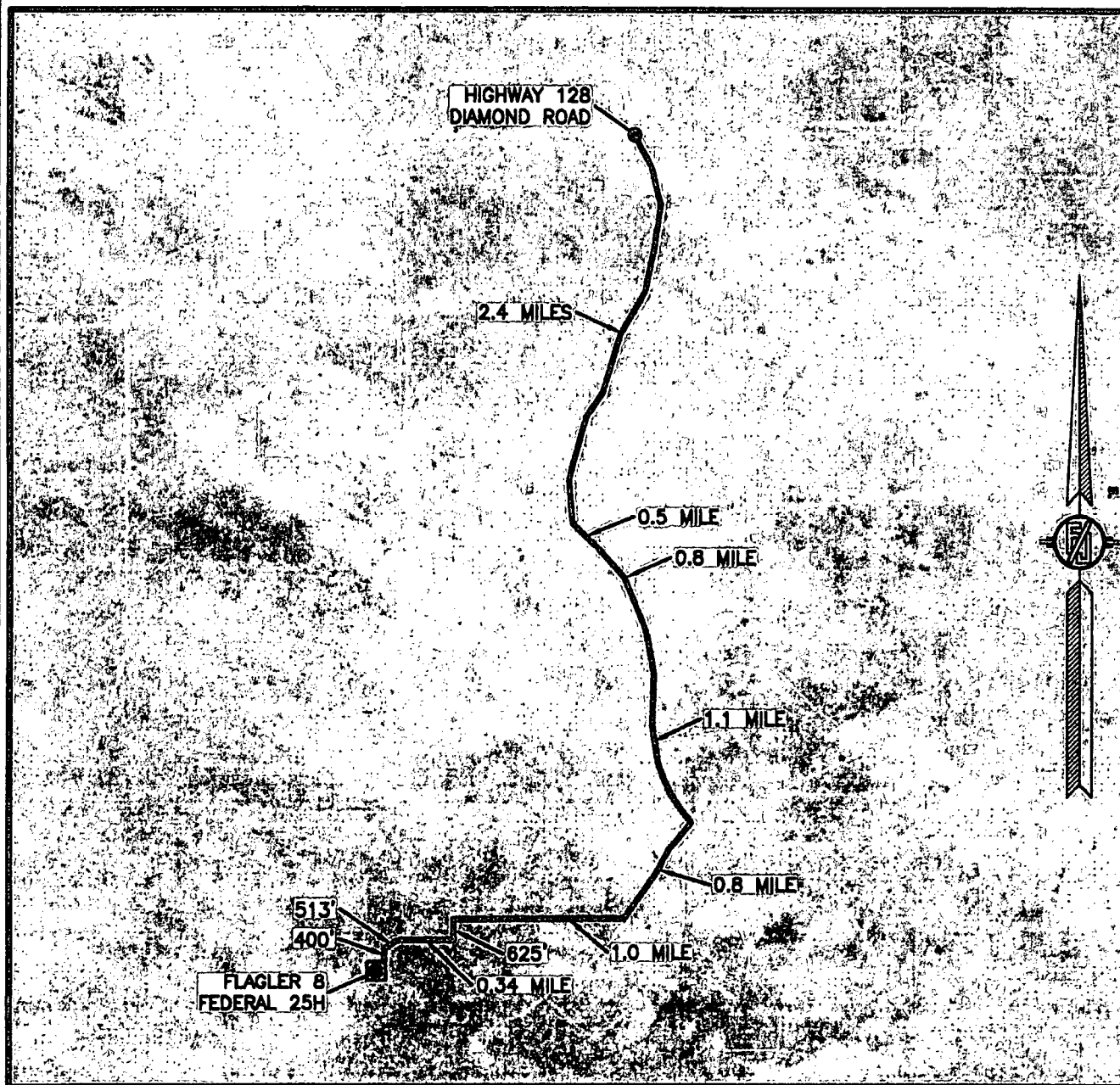
LOCATED 380 FT. FROM THE SOUTH LINE  
AND 2600 FT. FROM THE WEST LINE OF  
SECTION 8, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, STATE OF NEW MEXICO

OCTOBER 4, 2018

SURVEY NO. 5832B

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 25H**

LOCATED 380 FT. FROM THE SOUTH LINE  
AND 2600 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. 5832B

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

# 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 36H
- 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

012 60 120 240  
SCALE 1" = 120'

**DEVON ENERGY PRODUCTION COMPANY, L.P.  
PAD GRADING AND CROSS SECTIONS  
FOR FLAGLER 8 FEDERAL 25H  
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

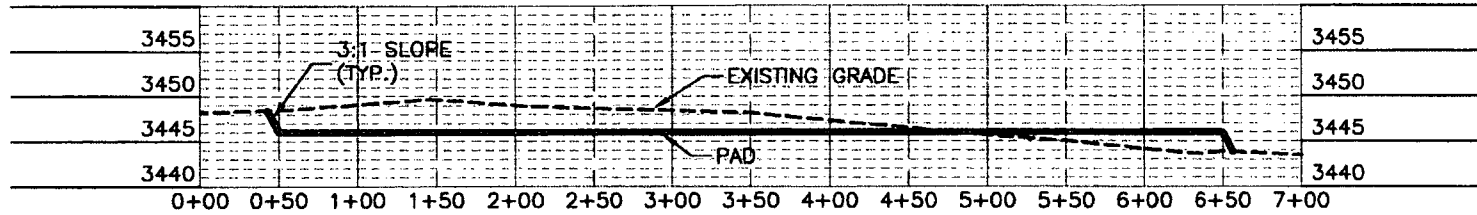
OCTOBER 4, 2018

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

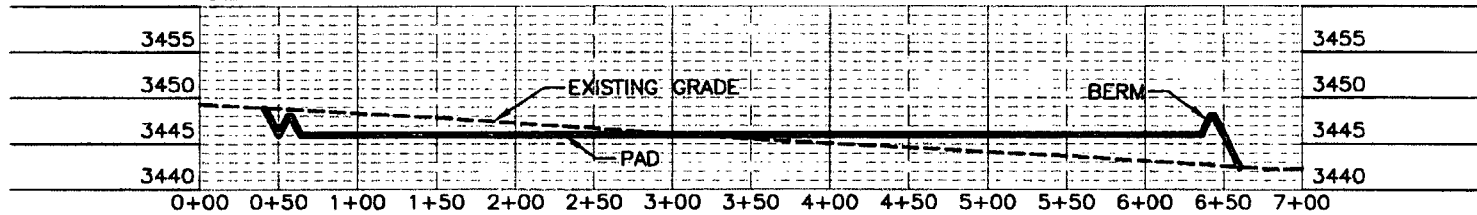
**SHEET 1-2  
SURVEY NO. 5832B**

# CROSS-SECTIONS

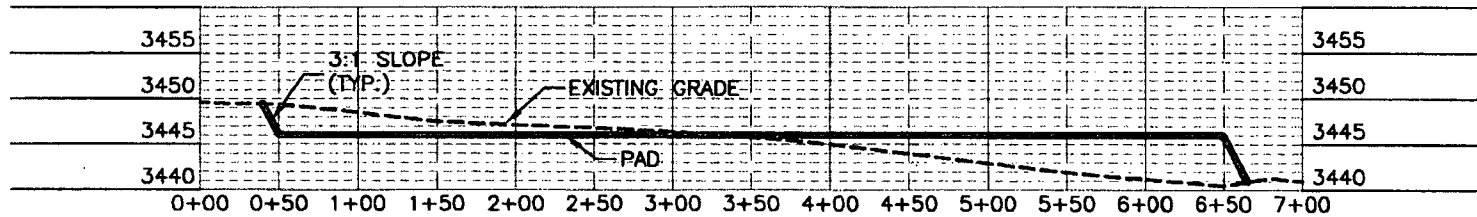
SECTION A-A'



SECTION B-B'



SECTION C-C'



012 60 120 240  
SCALE 1" = 120' - 1" = 20' VER

DEVON ENERGY PRODUCTION COMPANY, L.P.  
PAD GRADING AND CROSS SECTIONS  
FOR FLAGLER & FEDERAL 25H  
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

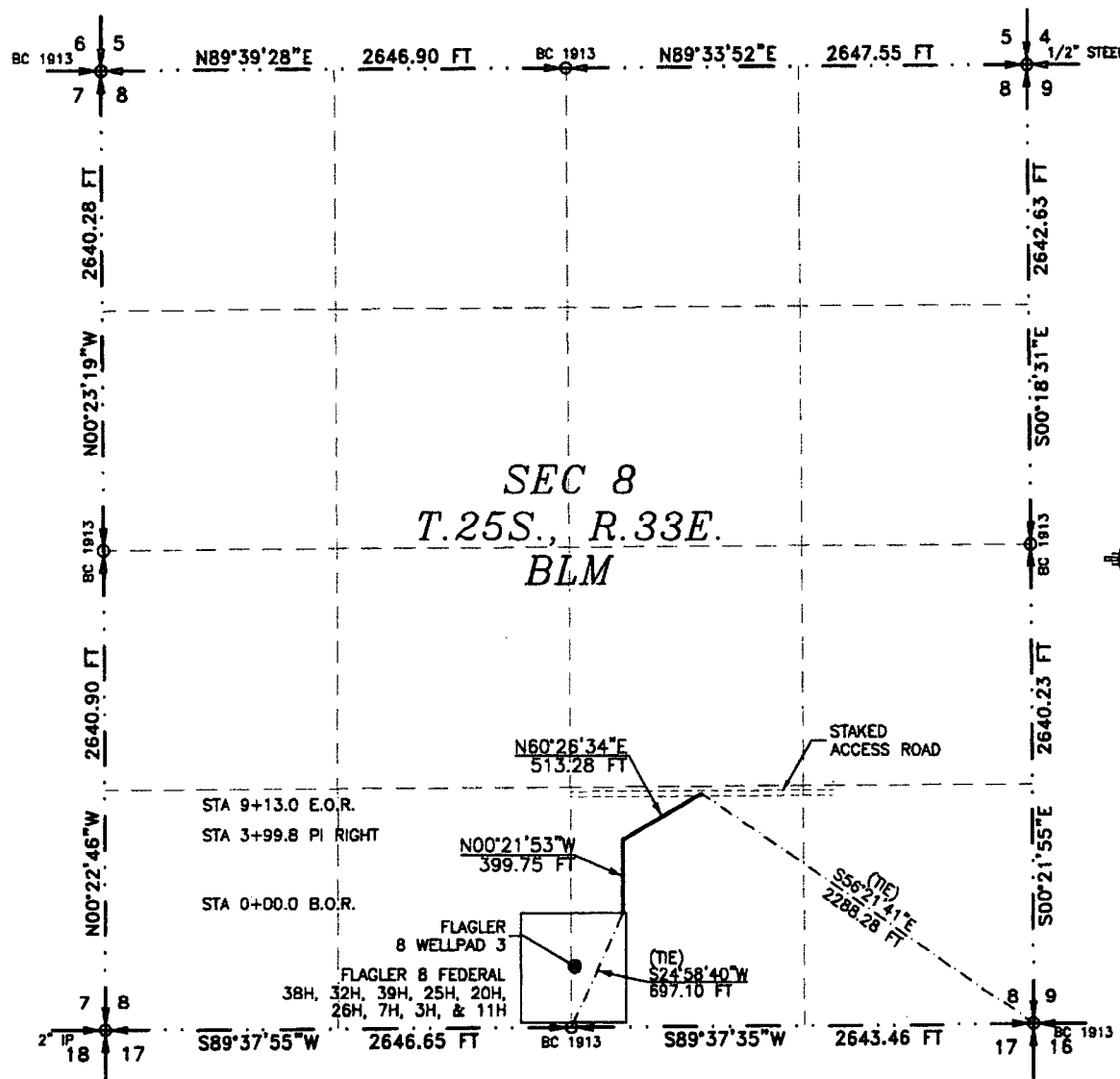
MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SHEET 2-2  
SURVEY NO. 5832B

# ACCESS ROAD PLAT

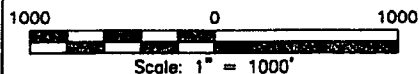
ACCESS ROAD FOR FLAGLER 8 WELLPAD 3  
(FLAGLER 8 FEDERAL 38H, 32H, 39H, 25H, 20H, 26H, 7H, 3H, & 11H)

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



SEC 8  
T.25S., R.33E.  
BLM

SEE NEXT SHEET (2-2) FOR DESCRIPTION



## 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

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

## 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 DAY OF OCTOBER 2018

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

MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 86220  
Phone (575) 234-3341

SURVEY NO. 5832B

301 SOUTH CANAL  
(575) 234-3341

# 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;

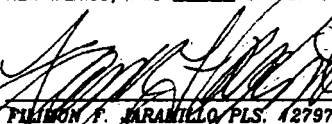
SAID STRIP OF LAND BEING 913.03 FEET OR 55.34 RODS IN LENGTH, CONTAINING 0.629 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

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

  
FILIMON F. JARAMILLO, PLS. 12797

MADRON SURVEYING, INC.  
301 SOUTH CANAL  
CARLSBAD, NEW MEXICO 88220  
Phone (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: 2-2

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SURVEY NO. 5832B