

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.*Lease Serial No.  
NM114992

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
FIGHTING OKRA 18-19 FED 21H9. API Well No.  
30-025-4327510. Field and Pool or Exploratory Area  
WC-025 G-06 S263407P; UBS11. County or Parish, State  
LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

## 1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

## 2. Name of Operator

DEVON ENERGY PRODUCTION COMPANY

Contact: REBECCA DEAL

Email: Rebecca.Deal@devn.com

## 3a. Address

333 WEST SHERIDAN AVENUE  
OKLAHOMA CITY, OK 73102

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

Ph: 405-228-8429

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

Sec 18 T26S R34E 2360FNL 330FWL

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

## TYPE OF SUBMISSION

- ☒
- Notice of Intent
- 
- ☐
- Subsequent Report
- 
- ☐
- Final Abandonment Notice

## TYPE OF ACTION

- |                                               |                                               |                                                    |                                           |
|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------|-------------------------------------------|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen               | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |
| <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 A                      |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back            | <input type="checkbox"/> Water Disposal            | PD                                        |

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 respectfully requests the following changes to the original APD:

Change of MD at TD from 17,354' to 17,203'.

Please see the attached AC Report, Drill Plan &amp; Directional Survey.

*- All previous COAs still apply. Additional COA is not required.*

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

Electronic Submission #396964 verified by the BLM Well Information System  
For DEVON ENERGY PRODUCTION COMPANY, sent to the Hobbs  
Committed to AFMSS for processing by CHARLES NIMMER on 12/05/2017 ()

Name (Printed/Typed) REBECCA DEAL

Title REGULATORY COMPLIANCE PROFESSI

Signature (Electronic Submission)

Date 12/05/2017

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

*Mustafa Haguel*

Title

PETROLEUM ENGINEER

Date

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

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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)

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*



Devon Energy  
Fighting Okra 18-19 Fed 21H  
Lea County, NM

#### Plan Data for Fighting Okra 18-19 Fed 21H

| Plan Point Information:                                            |       |        |         |          |        |           |           |         |                         |
|--------------------------------------------------------------------|-------|--------|---------|----------|--------|-----------|-----------|---------|-------------------------|
| DogLeg Severity Unit: °/100.00ft Position offsets from Slot centre |       |        |         |          |        |           |           |         |                         |
| MD                                                                 | Inc   | Az     | TVD     | +N/-S    | +E/-W  | Northing  | Easting   | VSec    | DLS Comments            |
| (USft)                                                             | (°)   | (°)    | (USft)  | (USft)   | (USft) | (USft)    | (USft)    | (USft)  | (DLSU)                  |
| 0.00                                                               | 0.00  | 0.00   | 0.00    | 0.00     | 0.00   | 380777.98 | 794437.24 | 0.00    | 0.00                    |
| 9001.04                                                            | 0.00  | 0.00   | 9001.04 | 0.00     | 0.00   | 380777.98 | 794437.24 | 0.00    | 0.00 KOP- Build 10° DLS |
| 9901.04                                                            | 90.00 | 179.58 | 9574.00 | -572.94  | 4.20   | 380205.04 | 794441.44 | 572.96  | 10.00 Landing Pt        |
| 17203.00                                                           | 90.00 | 179.58 | 9574.00 | -7874.71 | 57.78  | 372903.27 | 794495.02 | 7874.92 | 0.00 PBHL 21H           |



#### Plan Data for Fighting Okra 18-19 Fed 21H

| Formation Point Information: |               |          |         |           |
|------------------------------|---------------|----------|---------|-----------|
| Name                         | TVD Elevation | MD       | Dip     | Direction |
| (USft)                       | (USft)        | (USft)   | (°)     | (°)       |
| 1B555                        | 10460.00      | 0.00     | -1.00   | 0.00      |
| Rustler                      | 783.00        | 2667.00  | 783.00  | 0.00      |
| Base of Salt                 | 5004.00       | -1614.00 | 5004.00 | 0.00      |
| Delaware                     | 5260.00       | -1870.00 | 5260.00 | 0.00      |
| Lwr Brushy                   | 9305.00       | -5915.00 | 9321.44 | 0.00      |
| 1B5LM                        | 9527.00       | -6137.00 | 9667.35 | 0.00      |
| Leonard A                    | 9558.00       | -6168.00 | 9765.32 | 0.00      |

Plan Data for Fighting Okra 18-19 Fed 21H

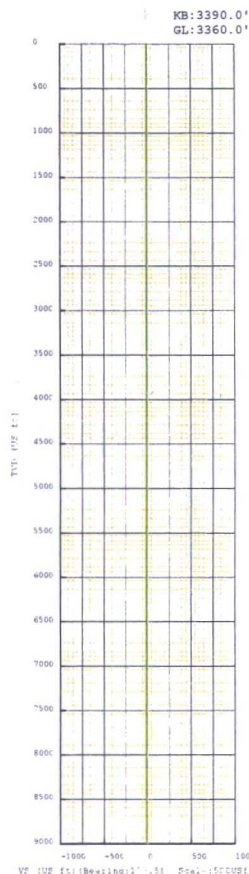
Field: Lea Co, NM Nad 83 NMEZ  
Map Unit: USft Vertical Reference Datum (VRD): Mean Sea Level  
Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Site: Fighting Okra 18-19 Fed 21H, 31H, 41H Pad  
Unit: USfeet TVD Reference:  
Company Name: Devon Energy  
Position: Northing: 380827.97USft Latitude: 32.044344°  
Easting: 794436.89USft Longitude: -103.516471°  
North Reference: Grid Grid Convergence: 0.43°  
Elevation Above VRD: 3358.00USft

Slot: Fighting Okra 18-19 Fed 21H  
Position:  
Offset is from Site centre  
+N/-S: -49.99USft Northing: 380777.98USft Latitude: 32.044207°  
+E/-W: 0.35USft Easting: 794437.24USft Longitude: -103.516471°  
Elevation Above VRD: 3360.00USft

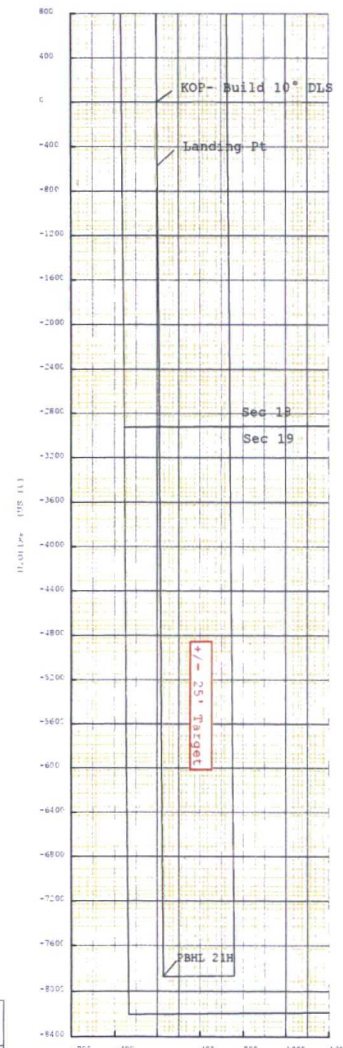
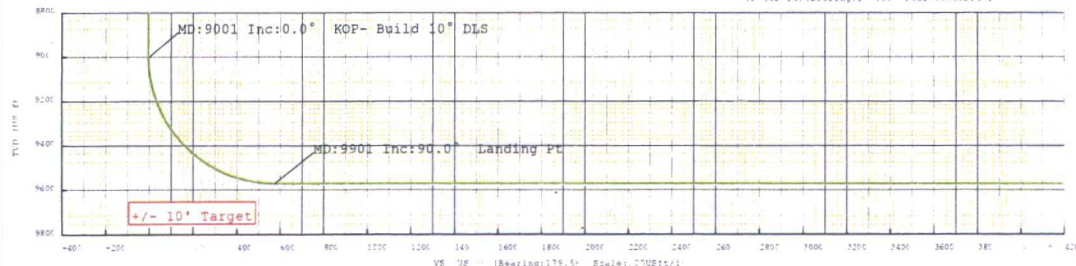
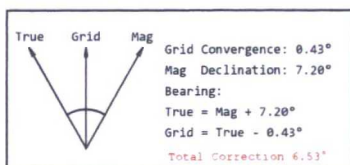
Well: Fighting Okra 18-19 Fed 21H  
Type: Main-Well  
File Number:

Plan Folder: P1 Plan: P1:V4  
Vertical Section: Position offset of origin from Slot centre:  
+N/-S: 0.00USft Azimuth: 179.58°  
+E/-W: 0.00USft  
Magnetic Parameters:  
Model: Field Strength: Declination: Dip: Date:  
BGM 48041(nT) 7.20° 59.91° 2015-10-15



Plan Data for Fighting Okra 18-19 Fed 21H

Target Set Information:  
Name: Fighting Okra 18-19 Fed 21H  
Position offsets from Slot centre  
Name TVD Elevation +N/-S +E/-W Northing Easting  
(USft) (USft) (USft) (USft) (USft) (USft)  
PBHL 21H 9574.00 -6184.00 -7874.71 57.78 372903.27 794495.02



Drawing By: Lee Winchell Date: 26 September 2017  
Office Name: Weatherford Drilling Services-Houston  
Address: 12301 Cotton Road  
Houston, TX 77066  
Phone: 713.896.8194

**5D Anti-Collision Report****Devon Energy****Field Name:** *Lea Co, NM Nad 83 NMEZ***Site Name:** *Fighting Okra 18-19 Fed 21H,31H,41H Pad***Well Name:** *Fighting Okra 18-19 Fed 21H*

26 September 2017





## Fighting Okra 18-19 Fed 21H

|                                                               |                                                                |                              |                             |                      |
|---------------------------------------------------------------|----------------------------------------------------------------|------------------------------|-----------------------------|----------------------|
| Field Name:<br><br>Lea Co, NM Nad<br>83 NMEZ                  | Map Units: US ft                                               |                              | Company Name: Devon Energy  |                      |
|                                                               | Vertical Reference Datum (VRD): Mean Sea Level                 |                              |                             |                      |
|                                                               | Projected Coordinate System: NAD83 / New Mexico East (ftUS)    |                              |                             |                      |
|                                                               | Comment:                                                       |                              |                             |                      |
| Site:<br><br>Fighting Okra<br>18-19 Fed<br>21H,31H,41H<br>Pad | Units: US ft                                                   | North Reference: Grid        | Convergence Angle: 0.43     |                      |
|                                                               | Position:                                                      | Northing: 380827.97 US ft    | Latitude: 32° 2' 39.64"     |                      |
|                                                               |                                                                | Easting: 794436.89 US ft     | Longitude: -103° 30' 59.30" |                      |
|                                                               | Elevation above MSL:3358.00 US ft                              |                              |                             |                      |
| Comment:                                                      |                                                                |                              |                             |                      |
| Slot:<br><br>Fighting Okra<br>18-19 Fed 21H                   | Position (Relative to Site Centre)                             |                              |                             |                      |
|                                                               | +N/-S: -49.99 US ft                                            | Northing: 380777.98 US ft    | Latitude: 32°2'39.15"       |                      |
|                                                               | +E/-W: 0.35 US ft                                              | Easting: 794437.24 US ft     | Longitude: -103°30'59.30"   |                      |
|                                                               | Slot TVD Reference: Ground Elevation                           |                              |                             |                      |
| Elevation above MSL: 3360.00 US ft                            |                                                                |                              |                             |                      |
| Comment:                                                      |                                                                |                              |                             |                      |
| Well:<br><br>Fighting Okra<br>18-19 Fed 21H                   | Type:Main well                                                 |                              | UWI:                        | Plan:Working Plan    |
|                                                               | File Number:                                                   | Comment:                     |                             |                      |
|                                                               | Closure Distance:7874.92US ft                                  |                              | Closure Azimuth:179.58°     |                      |
|                                                               | Vertical Section: Position of Origin (Relative to Slot centre) |                              |                             |                      |
|                                                               | +N/-S: 0.00 US ft                                              |                              | +E/-W: 0.00 US ft           |                      |
|                                                               | Az: 179.58°                                                    |                              |                             |                      |
|                                                               | Magnetic Parameters:                                           |                              |                             |                      |
| Model: BGGM                                                   |                                                                | Field Strength:<br>48041.6nT | Declination: 7.20°          | Dip: 59.91°          |
|                                                               |                                                                |                              |                             | Date:<br>15/Oct/2015 |

### Drill floor: Plan: Working Plan

|                                                     |                                           |                           |                       |
|-----------------------------------------------------|-------------------------------------------|---------------------------|-----------------------|
| <b>Rig Height (Well TVD Reference):</b> 30.00 US ft | <b>Elevation above MSL:</b> 3390.00 US ft | <b>Inclination:</b> 0.00° | <b>Azimuth:</b> 0.00° |
|-----------------------------------------------------|-------------------------------------------|---------------------------|-----------------------|

### Collision / Uncertainty Analysis

| Primary Well                    | Start MD (USft) | End MD (USft) | Collision Risk Interval | No. of Std. Deviations in Error Computation |
|---------------------------------|-----------------|---------------|-------------------------|---------------------------------------------|
| Fighting Okra 18-19 Fed 21H (p) | 0.00            | 30000.00      | 100.00                  | 2                                           |

### Secondary Well Names:

Fighting Okra Federal Com 1H ST01 (s)  
 Fighting Okra Federal Com 1H ST00 (s)  
 Fighting Okra 18-19 Fed 71H Lat (p)  
 Fighting Okra 18-19 Fed 41H (p)  
 Fighting Okra 18-19 Fed 31H (p)

## 5D Anti-Collision Report

## Anti-Collision Report Terminology

**S.Minor, S.Major:** Radii of the ellipse of uncertainty at the current location as seen in the along hole direction.

**PHI:** Angle between high-side vector and semi-minor axis

**TVD Spread:** Total TVD range of the ellipsoid of uncertainty at the current location.

**ES:** Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr.

**T.Face to Sec:** Angle between the Hi-Side vector of the primary well at the current location and line of closest approach between the two wells.

## AC Filter Info: Applied filter(s): Depth Range.

Separation factors calculated using Pedal Curve (Independent Uncertainty). Surface Uncertainty (S.U.) Not Applied. Wellpath created using minimum curvature.

## Anti-Collision Summary (TVD relative to Well TVD Reference)

| SF                |                |                                       |                   |               |               |        |      |
|-------------------|----------------|---------------------------------------|-------------------|---------------|---------------|--------|------|
| Pri MD<br>(US ft) | TVD<br>(US ft) | Secondary Well<br>Name                | Sec MD<br>(US ft) | CC<br>(US ft) | ES<br>(US ft) | SF     | Risk |
| 3580.47           | 3580.47        | Fighting Okra 18-19 Fed 31H (p)       | 3577.79           | 50.52         | 34.04         | 3.06   |      |
| 9587.50           | 9490.33        | Fighting Okra Federal Com 1H ST01 (s) | 9499.60           | 146.38        | 103.09        | 3.38   |      |
| 9625.00           | 9508.78        | Fighting Okra Federal Com 1H ST00 (s) | 9506.02           | 147.58        | 103.97        | 3.38   |      |
| 17203.00          | 9574.00        | Fighting Okra 18-19 Fed 41H (p)       | 18462.51          | 606.00        | 483.02        | 4.93   |      |
| 17203.00          | 9574.00        | Fighting Okra 18-19 Fed 71H Lat (p)   | 22347.61          | 2924.11       | 2788.60       | 21.58  |      |
| CC                |                |                                       |                   |               |               |        |      |
| Pri MD<br>(US ft) | TVD<br>(US ft) | Secondary Well<br>Name                | Sec MD<br>(US ft) | CC<br>(US ft) | ES<br>(US ft) | SF     | Risk |
| 50.00             | 50.00          | Fighting Okra 18-19 Fed 31H (p)       | 48.00             | 49.99         | 49.24         | 66.86  |      |
| 50.00             | 50.00          | Fighting Okra 18-19 Fed 41H (p)       | 45.00             | 79.94         | 79.19         | 105.91 |      |
| 9582.81           | 9487.87        | Fighting Okra Federal Com 1H ST01 (s) | 9498.93           | 146.31        | 103.08        | 3.38   |      |
| 9625.00           | 9508.78        | Fighting Okra Federal Com 1H ST00 (s) | 9506.02           | 147.58        | 103.97        | 3.38   |      |
| 17203.00          | 9574.00        | Fighting Okra 18-19 Fed 71H Lat (p)   | 22347.61          | 2924.11       | 2788.60       | 21.58  |      |

## Primary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH)

| MD<br>(US ft) | TVD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | Nearest<br>Well                 | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool | Risk |
|---------------|----------------|-------------------------|--------------------|--------------------|-----------------------|---------------------------------|---------------|---------------|-------|-------------|------|
| 0.00          | 0.00           | 359.60                  | 0.00               | 0.00               | 0.00                  | Fighting Okra 18-19 Fed 31H (p) | 49.39         | 50.03         | 78.23 | MWD         |      |
| 100.00        | 100.00         | 359.60                  | 0.11               | 0.11               | 4.60                  | Fighting Okra 18-19 Fed 31H (p) | 49.13         | 49.99         | 58.27 | MWD         |      |
| 200.00        | 200.00         | 359.60                  | 0.34               | 0.34               | 4.62                  | Fighting Okra 18-19 Fed 31H (p) | 48.69         | 49.99         | 38.30 | MWD         |      |
| 300.00        | 300.00         | 359.60                  | 0.56               | 0.56               | 4.65                  | Fighting Okra 18-19 Fed 31H (p) | 48.24         | 49.99         | 28.49 | MWD         |      |
| 400.00        | 400.00         | 359.60                  | 0.79               | 0.79               | 4.69                  | Fighting Okra 18-19 Fed 31H (p) | 47.79         | 49.99         | 22.68 | MWD         |      |
| 500.00        | 500.00         | 359.60                  | 1.01               | 1.01               | 4.75                  | Fighting Okra 18-19 Fed 31H (p) | 47.34         | 49.99         | 18.84 | MWD         |      |
| 600.00        | 600.00         | 359.60                  | 1.24               | 1.24               | 4.81                  | Fighting Okra 18-19 Fed 31H (p) | 46.89         | 49.99         | 16.11 | MWD         |      |
| 700.00        | 700.00         | 359.60                  | 1.46               | 1.46               | 4.89                  | Fighting Okra 18-19 Fed 31H (p) | 46.44         | 49.99         | 14.07 | MWD         |      |
| 800.00        | 800.00         | 359.60                  | 1.69               | 1.69               | 4.97                  | Fighting Okra 18-19 Fed 31H (p) | 45.99         | 49.99         | 12.49 | MWD         |      |
| 900.00        | 900.00         | 359.60                  | 1.91               | 1.91               | 5.06                  | Fighting Okra 18-19 Fed 31H (p) | 45.54         | 49.99         | 11.23 | MWD         |      |

## 5D Anti-Collision Report

| Primary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                         |                    |                    |                       |                                       |               |               |       |             |      |
|-----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|--------------------|--------------------|-----------------------|---------------------------------------|---------------|---------------|-------|-------------|------|
| MD<br>(US ft)                                                                                                         | TVD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | Nearest<br>Well                       | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool | Risk |
| 1000.00                                                                                                               | 1000.00        | 359.60                  | 2.14               | 2.14               | 5.16                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 45.09         | 49.99         | 10.20 | MWD         |      |
| 1100.00                                                                                                               | 1100.00        | 359.60                  | 2.36               | 2.36               | 5.27                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 44.64         | 49.99         | 9.34  | MWD         |      |
| 1200.00                                                                                                               | 1200.00        | 359.60                  | 2.59               | 2.59               | 5.38                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 44.19         | 49.99         | 8.62  | MWD         |      |
| 1300.00                                                                                                               | 1300.00        | 359.60                  | 2.81               | 2.81               | 5.50                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 43.74         | 49.99         | 8.00  | MWD         |      |
| 1400.00                                                                                                               | 1400.00        | 359.60                  | 3.03               | 3.03               | 5.63                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 43.29         | 49.99         | 7.46  | MWD         |      |
| 1500.00                                                                                                               | 1500.00        | 359.60                  | 3.26               | 3.26               | 5.76                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 42.84         | 49.99         | 6.99  | MWD         |      |
| 1600.00                                                                                                               | 1600.00        | 359.60                  | 3.48               | 3.48               | 5.89                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 42.39         | 49.99         | 6.58  | MWD         |      |
| 1700.00                                                                                                               | 1700.00        | 359.60                  | 3.71               | 3.71               | 6.03                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 41.94         | 49.99         | 6.21  | MWD         |      |
| 1800.00                                                                                                               | 1800.00        | 359.60                  | 3.93               | 3.93               | 6.17                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 41.49         | 49.99         | 5.88  | MWD         |      |
| 1900.00                                                                                                               | 1900.00        | 359.60                  | 4.16               | 4.16               | 6.32                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 41.04         | 49.99         | 5.59  | MWD         |      |
| 2000.00                                                                                                               | 2000.00        | 359.60                  | 4.38               | 4.38               | 6.47                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 40.59         | 49.99         | 5.32  | MWD         |      |
| 2100.00                                                                                                               | 2100.00        | 359.60                  | 4.61               | 4.61               | 6.63                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 40.14         | 49.99         | 5.08  | MWD         |      |
| 2200.00                                                                                                               | 2200.00        | 359.60                  | 4.83               | 4.83               | 6.78                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 39.69         | 49.99         | 4.86  | MWD         |      |
| 2300.00                                                                                                               | 2300.00        | 359.60                  | 5.06               | 5.06               | 6.94                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 39.25         | 49.99         | 4.65  | MWD         |      |
| 2400.00                                                                                                               | 2400.00        | 359.60                  | 5.28               | 5.28               | 7.11                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 38.80         | 49.99         | 4.47  | MWD         |      |
| 2500.00                                                                                                               | 2500.00        | 359.60                  | 5.51               | 5.51               | 7.27                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 38.35         | 49.99         | 4.29  | MWD         |      |
| 2600.00                                                                                                               | 2600.00        | 359.60                  | 5.73               | 5.73               | 7.44                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 37.90         | 49.99         | 4.13  | MWD         |      |
| 2700.00                                                                                                               | 2700.00        | 359.60                  | 5.96               | 5.96               | 7.62                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 37.45         | 49.99         | 3.99  | MWD         |      |
| 2800.00                                                                                                               | 2800.00        | 359.60                  | 6.18               | 6.18               | 7.79                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 37.00         | 49.99         | 3.85  | MWD         |      |
| 2900.00                                                                                                               | 2900.00        | 359.60                  | 6.41               | 6.41               | 7.97                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 36.55         | 49.99         | 3.72  | MWD         |      |
| 3000.00                                                                                                               | 3000.00        | 359.60                  | 6.63               | 6.63               | 8.15                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 36.10         | 49.99         | 3.60  | MWD         |      |
| 3100.00                                                                                                               | 3100.00        | 359.60                  | 6.86               | 6.86               | 8.33                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 35.65         | 49.99         | 3.49  | MWD         |      |
| 3200.00                                                                                                               | 3200.00        | 359.60                  | 7.08               | 7.08               | 8.52                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 35.20         | 49.99         | 3.38  | MWD         |      |
| 3300.00                                                                                                               | 3300.00        | 359.60                  | 7.31               | 7.31               | 8.70                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 34.75         | 49.99         | 3.28  | MWD         |      |
| 3400.00                                                                                                               | 3400.00        | 359.60                  | 7.53               | 7.53               | 8.89                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 34.30         | 49.99         | 3.19  | MWD         |      |
| 3500.00                                                                                                               | 3500.00        | 359.60                  | 7.76               | 7.76               | 9.09                  |                                       | 33.85         | 49.99         | 3.10  | MWD         |      |

## 5D Anti-Collision Report

| Primary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                         |                    |                    |                       |                                       |               |               |      |             |      |
|-----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|--------------------|--------------------|-----------------------|---------------------------------------|---------------|---------------|------|-------------|------|
| MD<br>(US ft)                                                                                                         | TVD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | Nearest<br>Well                       | ES<br>(US ft) | CC<br>(US ft) | SF   | Survey Tool | Risk |
| 3600.00                                                                                                               | 3600.00        | 359.60                  | 7.98               | 7.98               | 9.28                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 34.25         | 50.82         | 3.07 | MWD         |      |
| 3700.00                                                                                                               | 3700.00        | 359.60                  | 8.20               | 8.20               | 9.48                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 36.37         | 53.38         | 3.14 | MWD         |      |
| 3800.00                                                                                                               | 3800.00        | 359.60                  | 8.43               | 8.43               | 9.68                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 40.23         | 57.67         | 3.31 | MWD         |      |
| 3900.00                                                                                                               | 3900.00        | 359.59                  | 8.65               | 8.65               | 9.89                  | Fighting<br>Okra 18-19<br>Fed 31H (p) | 45.10         | 62.98         | 3.52 | MWD         |      |
| 4000.00                                                                                                               | 4000.00        | 359.59                  | 8.88               | 8.88               | 10.10                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 49.95         | 68.30         | 3.72 | MWD         |      |
| 4100.00                                                                                                               | 4100.00        | 359.59                  | 9.10               | 9.10               | 10.31                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 54.82         | 73.62         | 3.92 | MWD         |      |
| 4200.00                                                                                                               | 4200.00        | 359.59                  | 9.33               | 9.33               | 10.52                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 59.68         | 78.94         | 4.10 | MWD         |      |
| 4300.00                                                                                                               | 4300.00        | 359.59                  | 9.55               | 9.55               | 10.74                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 64.59         | 84.26         | 4.28 | MWD         |      |
| 4400.00                                                                                                               | 4400.00        | 359.59                  | 9.78               | 9.78               | 10.96                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 69.43         | 89.57         | 4.45 | MWD         |      |
| 4500.00                                                                                                               | 4500.00        | 359.59                  | 10.00              | 10.00              | 11.18                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 74.31         | 94.89         | 4.61 | MWD         |      |
| 4600.00                                                                                                               | 4600.00        | 359.59                  | 10.23              | 10.23              | 11.41                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 79.16         | 100.21        | 4.76 | MWD         |      |
| 4700.00                                                                                                               | 4700.00        | 359.59                  | 10.45              | 10.45              | 11.64                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 84.04         | 105.53        | 4.91 | MWD         |      |
| 4800.00                                                                                                               | 4800.00        | 359.59                  | 10.68              | 10.68              | 11.87                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 88.92         | 110.85        | 5.05 | MWD         |      |
| 4900.00                                                                                                               | 4900.00        | 359.59                  | 10.90              | 10.90              | 12.11                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 93.80         | 116.17        | 5.19 | MWD         |      |
| 5000.00                                                                                                               | 5000.00        | 359.59                  | 11.13              | 11.13              | 12.35                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 98.67         | 121.49        | 5.32 | MWD         |      |
| 5100.00                                                                                                               | 5100.00        | 359.59                  | 11.35              | 11.35              | 12.60                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 103.53        | 126.81        | 5.45 | MWD         |      |
| 5200.00                                                                                                               | 5200.00        | 359.59                  | 11.58              | 11.58              | 12.85                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 108.40        | 132.13        | 5.57 | MWD         |      |
| 5300.00                                                                                                               | 5300.00        | 359.59                  | 11.80              | 11.80              | 13.10                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 113.26        | 137.45        | 5.68 | MWD         |      |
| 5400.00                                                                                                               | 5400.00        | 359.59                  | 12.03              | 12.03              | 13.35                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 118.13        | 142.77        | 5.79 | MWD         |      |
| 5500.00                                                                                                               | 5500.00        | 359.59                  | 12.25              | 12.25              | 13.62                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 122.99        | 148.09        | 5.90 | MWD         |      |
| 5600.00                                                                                                               | 5600.00        | 359.59                  | 12.48              | 12.48              | 13.88                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 127.86        | 153.40        | 6.01 | MWD         |      |
| 5700.00                                                                                                               | 5700.00        | 359.59                  | 12.70              | 12.70              | 14.15                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 132.73        | 158.72        | 6.11 | MWD         |      |
| 5800.00                                                                                                               | 5800.00        | 359.59                  | 12.93              | 12.93              | 14.42                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 137.60        | 164.04        | 6.20 | MWD         |      |
| 5900.00                                                                                                               | 5900.00        | 359.59                  | 13.15              | 13.15              | 14.70                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 142.46        | 169.36        | 6.30 | MWD         |      |
| 6000.00                                                                                                               | 6000.00        | 359.59                  | 13.37              | 13.37              | 14.98                 |                                       | 147.33        | 174.68        | 6.39 | MWD         |      |

## 5D Anti-Collision Report

| Primary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                         |                    |                    |                       |                                       |               |               |      |             |      |
|-----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|--------------------|--------------------|-----------------------|---------------------------------------|---------------|---------------|------|-------------|------|
| MD<br>(US ft)                                                                                                         | TVD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | Nearest<br>Well                       | ES<br>(US ft) | CC<br>(US ft) | SF   | Survey Tool | Risk |
| 6100.00                                                                                                               | 6100.00        | 359.59                  | 13.60              | 13.60              | 15.27                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 152.20        | 180.00        | 6.47 | MWD         |      |
| 6200.00                                                                                                               | 6200.00        | 359.59                  | 13.82              | 13.82              | 15.56                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 157.07        | 185.32        | 6.56 | MWD         |      |
| 6300.00                                                                                                               | 6300.00        | 359.58                  | 14.05              | 14.05              | 15.86                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 161.93        | 190.64        | 6.64 | MWD         |      |
| 6400.00                                                                                                               | 6400.00        | 359.58                  | 14.27              | 14.27              | 16.16                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 166.80        | 195.96        | 6.72 | MWD         |      |
| 6500.00                                                                                                               | 6500.00        | 359.58                  | 14.50              | 14.50              | 16.46                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 171.67        | 201.28        | 6.80 | MWD         |      |
| 6600.00                                                                                                               | 6600.00        | 359.58                  | 14.72              | 14.72              | 16.77                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 176.54        | 206.60        | 6.87 | MWD         |      |
| 6700.00                                                                                                               | 6700.00        | 359.58                  | 14.95              | 14.95              | 17.09                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 181.41        | 211.91        | 6.95 | MWD         |      |
| 6800.00                                                                                                               | 6800.00        | 359.58                  | 15.17              | 15.17              | 17.41                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 186.27        | 217.23        | 7.02 | MWD         |      |
| 6900.00                                                                                                               | 6900.00        | 359.58                  | 15.40              | 15.40              | 17.73                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 191.14        | 222.55        | 7.08 | MWD         |      |
| 7000.00                                                                                                               | 7000.00        | 359.58                  | 15.62              | 15.62              | 18.06                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 196.01        | 227.87        | 7.15 | MWD         |      |
| 7100.00                                                                                                               | 7100.00        | 359.58                  | 15.85              | 15.85              | 18.40                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 200.88        | 233.19        | 7.22 | MWD         |      |
| 7200.00                                                                                                               | 7200.00        | 359.58                  | 16.07              | 16.07              | 18.74                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 205.74        | 238.51        | 7.28 | MWD         |      |
| 7300.00                                                                                                               | 7300.00        | 359.58                  | 16.30              | 16.30              | 19.08                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 210.61        | 243.83        | 7.34 | MWD         |      |
| 7400.00                                                                                                               | 7400.00        | 359.58                  | 16.52              | 16.52              | 19.43                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 215.48        | 249.15        | 7.40 | MWD         |      |
| 7500.00                                                                                                               | 7500.00        | 359.58                  | 16.75              | 16.75              | 19.79                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 220.35        | 254.47        | 7.46 | MWD         |      |
| 7600.00                                                                                                               | 7600.00        | 359.58                  | 16.97              | 16.97              | 20.15                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 225.21        | 259.79        | 7.51 | MWD         |      |
| 7700.00                                                                                                               | 7700.00        | 359.58                  | 17.20              | 17.20              | 20.52                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 230.08        | 265.11        | 7.57 | MWD         |      |
| 7800.00                                                                                                               | 7800.00        | 359.58                  | 17.42              | 17.42              | 20.89                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 234.95        | 270.42        | 7.62 | MWD         |      |
| 7900.00                                                                                                               | 7900.00        | 359.58                  | 17.65              | 17.65              | 21.26                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 239.82        | 275.74        | 7.68 | MWD         |      |
| 8000.00                                                                                                               | 8000.00        | 359.58                  | 17.87              | 17.87              | 21.65                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 244.69        | 281.06        | 7.73 | MWD         |      |
| 8100.00                                                                                                               | 8100.00        | 359.58                  | 18.10              | 18.10              | 22.03                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 249.55        | 286.38        | 7.78 | MWD         |      |
| 8200.00                                                                                                               | 8200.00        | 359.58                  | 18.32              | 18.32              | 22.43                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 254.42        | 291.70        | 7.82 | MWD         |      |
| 8300.00                                                                                                               | 8300.00        | 359.58                  | 18.54              | 18.54              | 22.83                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 259.29        | 297.02        | 7.87 | MWD         |      |
| 8400.00                                                                                                               | 8400.00        | 359.58                  | 18.77              | 18.77              | 23.23                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 264.16        | 302.34        | 7.92 | MWD         |      |
| 8500.00                                                                                                               | 8500.00        | 359.58                  | 18.99              | 18.99              | 23.64                 |                                       | 269.02        | 307.66        | 7.96 | MWD         |      |

Appendix 1: 3D Anti-Collision Report

Table 1: 3D Anti-Collision Report

Table 2: 3D Anti-Collision Report

## 5D Anti-Collision Report

| Primary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                         |                    |                    |                       |                                                   |               |               |       |             |      |
|-----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|--------------------|--------------------|-----------------------|---------------------------------------------------|---------------|---------------|-------|-------------|------|
| MD<br>(US ft)                                                                                                         | TVD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | Nearest<br>Well                                   | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool | Risk |
| 8600.00                                                                                                               | 8600.00        | 359.58                  | 19.22              | 19.22              | 24.06                 | Fighting<br>Okra 18-19<br>Fed 31H (p)             | 273.89        | 312.98        | 8.01  | MWD         |      |
| 8700.00                                                                                                               | 8700.00        | 359.58                  | 19.44              | 19.44              | 24.48                 | Fighting<br>Okra 18-19<br>Fed 31H (p)             | 278.76        | 318.30        | 8.05  | MWD         |      |
| 8800.00                                                                                                               | 8800.00        | 359.58                  | 19.67              | 19.67              | 24.90                 | Fighting<br>Okra 18-19<br>Fed 31H (p)             | 283.63        | 323.62        | 8.09  | MWD         |      |
| 8900.00                                                                                                               | 8900.00        | 359.58                  | 19.89              | 19.89              | 25.34                 | Fighting<br>Okra 18-19<br>Fed 31H (p)             | 288.49        | 328.93        | 8.13  | MWD         |      |
| 9000.00                                                                                                               | 9000.00        | 152.79                  | 20.12              | 20.12              | 25.78                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST00 (s) | 297.10        | 338.59        | 8.16  | MWD         |      |
| 9000.00                                                                                                               | 9000.00        | 359.58                  | 20.12              | 20.12              | 25.78                 | Fighting<br>Okra 18-19<br>Fed 31H (p)             | 293.36        | 334.25        | 8.17  | MWD         |      |
| 9100.00                                                                                                               | 9099.51        | 332.63                  | 20.31              | 20.13              | 26.21                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST00 (s) | 291.12        | 332.96        | 7.96  | MWD         |      |
| 9200.00                                                                                                               | 9196.03        | 329.74                  | 20.47              | 19.77              | 26.61                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST00 (s) | 269.59        | 311.78        | 7.39  | MWD         |      |
| 9300.00                                                                                                               | 9286.62        | 323.70                  | 20.63              | 19.08              | 26.97                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST00 (s) | 234.56        | 277.05        | 6.52  | MWD         |      |
| 9400.00                                                                                                               | 9368.53        | 300.38                  | 20.84              | 18.14              | 27.28                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST01 (s) | 183.65        | 225.47        | 5.39  | MWD         |      |
| 9500.00                                                                                                               | 9439.28        | 277.15                  | 21.11              | 17.06              | 27.55                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST01 (s) | 125.03        | 167.29        | 3.96  | MWD         |      |
| 9600.00                                                                                                               | 9496.72        | 265.83                  | 21.48              | 15.97              | 27.80                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST01 (s) | 103.92        | 147.31        | 3.39  | MWD         |      |
| 9700.00                                                                                                               | 9539.09        | 264.38                  | 21.96              | 15.04              | 28.05                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST00 (s) | 120.52        | 164.29        | 3.75  | MWD         |      |
| 9800.00                                                                                                               | 9565.11        | 269.45                  | 22.57              | 14.44              | 28.33                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST00 (s) | 182.84        | 226.38        | 5.20  | MWD         |      |
| 9900.00                                                                                                               | 9574.00        | 286.48                  | 23.29              | 14.32              | 28.65                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST00 (s) | 265.46        | 308.83        | 7.12  | MWD         |      |
| 10000.00                                                                                                              | 9574.00        | 290.46                  | 24.12              | 14.51              | 29.02                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST00 (s) | 355.14        | 398.42        | 9.21  | MWD         |      |
| 10100.00                                                                                                              | 9574.00        | 293.07                  | 25.05              | 14.73              | 29.46                 | Fighting<br>Okra<br>Federal<br>Com 1H<br>ST00 (s) | 448.48        | 491.75        | 11.37 | MWD         |      |
| 10100.00                                                                                                              | 9574.00        | 180.00                  | 25.05              | 14.73              | 29.46                 | Fighting<br>Okra 18-19<br>Fed 31H (p)             | 405.90        | 438.00        | 13.64 | MWD         |      |

## 3D Anti-Collision Report

| Primary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                         |                    |                    |                       |                                       |               |               |       |             |      |
|-----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|--------------------|--------------------|-----------------------|---------------------------------------|---------------|---------------|-------|-------------|------|
| MD<br>(US ft)                                                                                                         | TVD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | Nearest<br>Well                       | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool | Risk |
| 10200.00                                                                                                              | 9574.00        | 180.00                  | 26.08              | 14.98              | 29.96                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 405.30        | 438.00        | 13.40 | MWD         |      |
| 10300.00                                                                                                              | 9574.00        | 180.00                  | 27.20              | 15.27              | 30.53                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 404.67        | 438.00        | 13.14 | MWD         |      |
| 10400.00                                                                                                              | 9574.00        | 180.00                  | 28.39              | 15.58              | 31.16                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 403.99        | 438.00        | 12.88 | MWD         |      |
| 10500.00                                                                                                              | 9574.00        | 180.00                  | 29.64              | 15.92              | 31.84                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 403.27        | 438.00        | 12.61 | MWD         |      |
| 10600.00                                                                                                              | 9574.00        | 180.00                  | 30.95              | 16.29              | 32.58                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 402.43        | 438.00        | 12.31 | MWD         |      |
| 10700.00                                                                                                              | 9574.00        | 180.00                  | 32.31              | 16.68              | 33.36                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 401.58        | 438.00        | 12.03 | MWD         |      |
| 10800.00                                                                                                              | 9574.00        | 180.00                  | 33.71              | 17.09              | 34.19                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 400.73        | 438.00        | 11.75 | MWD         |      |
| 10900.00                                                                                                              | 9574.00        | 180.00                  | 35.16              | 17.53              | 35.06                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 399.82        | 438.00        | 11.47 | MWD         |      |
| 11000.00                                                                                                              | 9574.00        | 180.00                  | 36.63              | 17.98              | 35.96                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 398.85        | 438.00        | 11.19 | MWD         |      |
| 11100.00                                                                                                              | 9574.00        | 180.00                  | 38.14              | 18.45              | 36.91                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 397.91        | 438.00        | 10.93 | MWD         |      |
| 11200.00                                                                                                              | 9574.00        | 180.00                  | 39.68              | 18.94              | 37.89                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 396.89        | 438.00        | 10.65 | MWD         |      |
| 11300.00                                                                                                              | 9574.00        | 180.00                  | 41.24              | 19.45              | 38.89                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 395.86        | 438.00        | 10.39 | MWD         |      |
| 11400.00                                                                                                              | 9574.00        | 180.00                  | 42.82              | 19.97              | 39.93                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 394.88        | 438.00        | 10.16 | MWD         |      |
| 11500.00                                                                                                              | 9574.00        | 180.00                  | 44.41              | 20.50              | 40.99                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 393.67        | 438.00        | 9.88  | MWD         |      |
| 11600.00                                                                                                              | 9574.00        | 180.00                  | 46.03              | 21.04              | 42.08                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 392.62        | 438.00        | 9.65  | MWD         |      |
| 11700.00                                                                                                              | 9574.00        | 180.00                  | 47.66              | 21.60              | 43.19                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 391.51        | 438.00        | 9.42  | MWD         |      |
| 11800.00                                                                                                              | 9574.00        | 180.00                  | 49.31              | 22.16              | 44.32                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 390.31        | 438.00        | 9.19  | MWD         |      |
| 11900.00                                                                                                              | 9574.00        | 180.00                  | 50.96              | 22.74              | 45.47                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 389.16        | 438.00        | 8.97  | MWD         |      |
| 12000.00                                                                                                              | 9574.00        | 180.00                  | 52.63              | 23.32              | 46.64                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 388.09        | 438.00        | 8.78  | MWD         |      |
| 12100.00                                                                                                              | 9574.00        | 180.00                  | 54.31              | 23.91              | 47.82                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 386.86        | 438.00        | 8.56  | MWD         |      |
| 12200.00                                                                                                              | 9574.00        | 180.00                  | 56.00              | 24.51              | 49.02                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 385.60        | 438.00        | 8.36  | MWD         |      |
| 12300.00                                                                                                              | 9574.00        | 180.00                  | 57.70              | 25.12              | 50.24                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 384.35        | 438.00        | 8.16  | MWD         |      |
| 12400.00                                                                                                              | 9574.00        | 180.00                  | 59.40              | 25.73              | 51.46                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 383.10        | 438.00        | 7.98  | MWD         |      |
| 12500.00                                                                                                              | 9574.00        | 180.00                  | 61.11              | 26.35              | 52.70                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 381.85        | 438.00        | 7.80  | MWD         |      |
| 12600.00                                                                                                              | 9574.00        | 180.00                  | 62.83              | 26.98              | 53.95                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 380.59        | 438.00        | 7.63  | MWD         |      |
| 12700.00                                                                                                              | 9574.00        | 180.00                  | 64.55              | 27.61              | 55.21                 |                                       | 379.33        | 438.00        | 7.47  | MWD         |      |

## 5D Anti-Collision Report

| Primary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                         |                    |                    |                       |                                       |               |               |      |             |      |
|-----------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|--------------------|--------------------|-----------------------|---------------------------------------|---------------|---------------|------|-------------|------|
| MD<br>(US ft)                                                                                                         | TVD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | Nearest<br>Well                       | ES<br>(US ft) | CC<br>(US ft) | SF   | Survey Tool | Risk |
| 12800.00                                                                                                              | 9574.00        | 180.00                  | 66.28              | 28.24              | 56.48                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 378.07        | 438.00        | 7.31 | MWD         |      |
| 12900.00                                                                                                              | 9574.00        | 180.00                  | 68.02              | 28.88              | 57.76                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 376.79        | 438.00        | 7.16 | MWD         |      |
| 13000.00                                                                                                              | 9574.00        | 180.00                  | 69.76              | 29.53              | 59.05                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 375.52        | 438.00        | 7.01 | MWD         |      |
| 13100.00                                                                                                              | 9574.00        | 180.00                  | 71.50              | 30.17              | 60.35                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 374.23        | 438.00        | 6.87 | MWD         |      |
| 13200.00                                                                                                              | 9574.00        | 180.00                  | 73.25              | 30.83              | 61.65                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 372.94        | 438.00        | 6.73 | MWD         |      |
| 13300.00                                                                                                              | 9574.00        | 180.00                  | 75.00              | 31.48              | 62.97                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 371.64        | 438.00        | 6.60 | MWD         |      |
| 13400.00                                                                                                              | 9574.00        | 180.00                  | 76.76              | 32.14              | 64.29                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 370.33        | 438.00        | 6.47 | MWD         |      |
| 13500.00                                                                                                              | 9574.00        | 180.00                  | 78.52              | 32.80              | 65.61                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 369.01        | 438.00        | 6.35 | MWD         |      |
| 13600.00                                                                                                              | 9574.00        | 180.00                  | 80.28              | 33.47              | 66.94                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 367.67        | 438.00        | 6.23 | MWD         |      |
| 13700.00                                                                                                              | 9574.00        | 180.00                  | 82.04              | 34.14              | 68.28                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 366.32        | 438.00        | 6.11 | MWD         |      |
| 13800.00                                                                                                              | 9574.00        | 180.00                  | 83.81              | 34.81              | 69.62                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 364.97        | 438.00        | 6.00 | MWD         |      |
| 13900.00                                                                                                              | 9574.00        | 180.00                  | 85.58              | 35.48              | 70.97                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 363.62        | 438.00        | 5.89 | MWD         |      |
| 14000.00                                                                                                              | 9574.00        | 180.00                  | 87.35              | 36.16              | 72.32                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 362.26        | 438.00        | 5.78 | MWD         |      |
| 14100.00                                                                                                              | 9574.00        | 180.00                  | 89.12              | 36.84              | 73.67                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 360.90        | 438.00        | 5.68 | MWD         |      |
| 14200.00                                                                                                              | 9574.00        | 180.00                  | 90.90              | 37.52              | 75.03                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 359.53        | 438.00        | 5.58 | MWD         |      |
| 14300.00                                                                                                              | 9574.00        | 180.00                  | 92.68              | 38.20              | 76.40                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 358.16        | 438.00        | 5.49 | MWD         |      |
| 14400.00                                                                                                              | 9574.00        | 180.00                  | 94.46              | 38.88              | 77.76                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 356.79        | 438.00        | 5.39 | MWD         |      |
| 14500.00                                                                                                              | 9574.00        | 180.00                  | 96.24              | 39.57              | 79.13                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 355.41        | 438.00        | 5.30 | MWD         |      |
| 14600.00                                                                                                              | 9574.00        | 180.00                  | 98.03              | 40.25              | 80.51                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 354.04        | 438.00        | 5.22 | MWD         |      |
| 14700.00                                                                                                              | 9574.00        | 180.00                  | 99.81              | 40.94              | 81.89                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 352.66        | 438.00        | 5.13 | MWD         |      |
| 14800.00                                                                                                              | 9574.00        | 180.00                  | 101.60             | 41.63              | 83.27                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 351.27        | 438.00        | 5.05 | MWD         |      |
| 14900.00                                                                                                              | 9574.00        | 180.00                  | 103.39             | 42.33              | 84.65                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 349.89        | 438.00        | 4.97 | MWD         |      |
| 15000.00                                                                                                              | 9574.00        | 180.00                  | 105.17             | 43.02              | 86.04                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 348.50        | 438.00        | 4.89 | MWD         |      |
| 15100.00                                                                                                              | 9574.00        | 180.00                  | 106.97             | 43.71              | 87.43                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 347.11        | 438.00        | 4.82 | MWD         |      |
| 15200.00                                                                                                              | 9574.00        | 180.00                  | 108.76             | 44.41              | 88.82                 |                                       | 345.71        | 438.00        | 4.75 | MWD         |      |

## 5D Anti-Collision Report

| Primary Well: Fighting Okra 18-19 Fed 21H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH)         |                |                         |                         |                    |                       |                                       |               |               |        |               |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|-------------------------|--------------------|-----------------------|---------------------------------------|---------------|---------------|--------|---------------|------|
| MD<br>(US ft)                                                                                                                 | TVD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft)      | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | Nearest<br>Well                       | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool   | Risk |
| 15300.00                                                                                                                      | 9574.00        | 180.00                  | 110.55                  | 45.11              | 90.21                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 344.32        | 438.00        | 4.68   | MWD           |      |
| 15400.00                                                                                                                      | 9574.00        | 180.00                  | 112.34                  | 45.80              | 91.61                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 342.92        | 438.00        | 4.61   | MWD           |      |
| 15500.00                                                                                                                      | 9574.00        | 180.00                  | 114.14                  | 46.50              | 93.01                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 341.52        | 438.00        | 4.54   | MWD           |      |
| 15600.00                                                                                                                      | 9574.00        | 180.00                  | 115.94                  | 47.20              | 94.41                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 340.12        | 438.00        | 4.47   | MWD           |      |
| 15700.00                                                                                                                      | 9574.00        | 180.00                  | 117.73                  | 47.90              | 95.81                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 338.72        | 438.00        | 4.41   | MWD           |      |
| 15800.00                                                                                                                      | 9574.00        | 180.00                  | 119.53                  | 48.61              | 97.21                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 337.31        | 438.00        | 4.35   | MWD           |      |
| 15900.00                                                                                                                      | 9574.00        | 180.00                  | 121.33                  | 49.31              | 98.62                 | Fighting<br>Okra 18-19<br>Fed 31H (p) | 335.91        | 438.00        | 4.29   | MWD           |      |
| 16000.00                                                                                                                      | 9574.00        | 180.00                  | 123.13                  | 50.01              | 100.03                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 334.50        | 438.00        | 4.23   | MWD           |      |
| 16100.00                                                                                                                      | 9574.00        | 180.00                  | 124.93                  | 50.72              | 101.44                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 333.09        | 438.00        | 4.17   | MWD           |      |
| 16200.00                                                                                                                      | 9574.00        | 180.00                  | 126.73                  | 51.42              | 102.85                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 331.68        | 438.00        | 4.12   | MWD           |      |
| 16300.00                                                                                                                      | 9574.00        | 180.00                  | 128.54                  | 52.13              | 104.26                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 330.26        | 438.00        | 4.07   | MWD           |      |
| 16400.00                                                                                                                      | 9574.00        | 180.00                  | 130.34                  | 52.84              | 105.67                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 328.85        | 438.00        | 4.01   | MWD           |      |
| 16500.00                                                                                                                      | 9574.00        | 180.00                  | 132.14                  | 53.55              | 107.09                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 327.43        | 438.00        | 3.96   | MWD           |      |
| 16600.00                                                                                                                      | 9574.00        | 180.00                  | 133.95                  | 54.25              | 108.51                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 326.02        | 438.00        | 3.91   | MWD           |      |
| 16700.00                                                                                                                      | 9574.00        | 180.00                  | 135.75                  | 54.96              | 109.93                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 324.60        | 438.00        | 3.86   | MWD           |      |
| 16800.00                                                                                                                      | 9574.00        | 180.00                  | 137.56                  | 55.67              | 111.35                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 323.18        | 438.00        | 3.81   | MWD           |      |
| 16900.00                                                                                                                      | 9574.00        | 180.00                  | 139.36                  | 56.38              | 112.77                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 321.76        | 438.00        | 3.77   | MWD           |      |
| 17000.00                                                                                                                      | 9574.00        | 180.00                  | 141.17                  | 57.09              | 114.19                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 320.34        | 438.00        | 3.72   | MWD           |      |
| 17100.00                                                                                                                      | 9574.00        | 180.00                  | 142.98                  | 57.81              | 115.61                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 318.92        | 438.00        | 3.68   | MWD           |      |
| 17200.00                                                                                                                      | 9574.00        | 180.00                  | 144.78                  | 58.52              | 117.03                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 317.49        | 438.00        | 3.63   | MWD           |      |
| 17203.00                                                                                                                      | 9574.00        | 180.00                  | 144.84                  | 58.54              | 117.08                | Fighting<br>Okra 18-19<br>Fed 31H (p) | 317.45        | 438.00        | 3.63   | MWD           |      |
| Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                         |                         |                    |                       |                                       |               |               |        |               |      |
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft)       | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft)    | TVD Spread<br>(US ft)                 | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool   | Risk |
| 0.00                                                                                                                          | 9326.90        | 9323.46                 | 153.87                  | 21.36              | 21.30                 | 27.25                                 | 9319.02       | 9333.26       | 655.63 | MWD<br>(Gyro) |      |
| 100.00                                                                                                                        | 9326.90        | 9323.46                 | 153.87                  | 21.36              | 21.30                 | 27.25                                 | 9216.79       | 9233.33       | 558.53 | MWD<br>(Gyro) |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |        |               |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|--------|---------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool   | Risk |
| 200.00                                                                                                                        | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 9116.85       | 9133.40       | 552.16 | MWD<br>(Gyro) |      |
| 300.00                                                                                                                        | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 9016.91       | 9033.47       | 545.60 | MWD<br>(Gyro) |      |
| 400.00                                                                                                                        | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 8916.96       | 8933.54       | 538.87 | MWD<br>(Gyro) |      |
| 500.00                                                                                                                        | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 8817.01       | 8833.62       | 531.98 | MWD<br>(Gyro) |      |
| 600.00                                                                                                                        | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 8717.06       | 8733.69       | 524.94 | MWD<br>(Gyro) |      |
| 700.00                                                                                                                        | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 8617.10       | 8633.77       | 517.78 | MWD<br>(Gyro) |      |
| 800.00                                                                                                                        | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 8517.14       | 8533.85       | 510.52 | MWD<br>(Gyro) |      |
| 900.00                                                                                                                        | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 8417.17       | 8433.93       | 503.17 | MWD<br>(Gyro) |      |
| 1000.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 8317.21       | 8334.02       | 495.74 | MWD<br>(Gyro) |      |
| 1100.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 8217.24       | 8234.11       | 488.26 | MWD<br>(Gyro) |      |
| 1200.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 8117.27       | 8134.19       | 480.72 | MWD<br>(Gyro) |      |
| 1300.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 8017.30       | 8034.28       | 473.16 | MWD<br>(Gyro) |      |
| 1400.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 7917.34       | 7934.38       | 465.57 | MWD<br>(Gyro) |      |
| 1500.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 7817.37       | 7834.47       | 457.97 | MWD<br>(Gyro) |      |
| 1600.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 7717.40       | 7734.57       | 450.36 | MWD<br>(Gyro) |      |
| 1700.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 7617.43       | 7634.67       | 442.76 | MWD<br>(Gyro) |      |
| 1800.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 7517.46       | 7534.78       | 435.16 | MWD<br>(Gyro) |      |
| 1900.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 7417.49       | 7434.88       | 427.58 | MWD<br>(Gyro) |      |
| 2000.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 7317.53       | 7334.99       | 420.02 | MWD<br>(Gyro) |      |
| 2100.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 7217.56       | 7235.10       | 412.49 | MWD<br>(Gyro) |      |
| 2200.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 7117.60       | 7135.22       | 404.99 | MWD<br>(Gyro) |      |
| 2300.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 7017.64       | 7035.33       | 397.52 | MWD<br>(Gyro) |      |
| 2400.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 6917.68       | 6935.46       | 390.08 | MWD<br>(Gyro) |      |
| 2500.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 6817.72       | 6835.58       | 382.68 | MWD<br>(Gyro) |      |
| 2600.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 6717.76       | 6735.71       | 375.32 | MWD<br>(Gyro) |      |
| 2700.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 6617.81       | 6635.84       | 368.01 | MWD<br>(Gyro) |      |
| 2800.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 6517.86       | 6535.98       | 360.73 | MWD<br>(Gyro) |      |
| 2900.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 6417.91       | 6436.12       | 353.51 | MWD<br>(Gyro) |      |
| 3000.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 6317.97       | 6336.27       | 346.31 | MWD<br>(Gyro) |      |
| 3100.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 6218.03       | 6236.42       | 339.14 | MWD<br>(Gyro) |      |
| 3200.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 6118.09       | 6136.57       | 332.02 | MWD<br>(Gyro) |      |
| 3300.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 6018.15       | 6036.73       | 324.94 | MWD<br>(Gyro) |      |
| 3400.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 5918.22       | 5936.90       | 317.92 | MWD<br>(Gyro) |      |
| 3500.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 5818.30       | 5837.07       | 310.94 | MWD<br>(Gyro) |      |
| 3600.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 5718.37       | 5737.25       | 304.02 | MWD<br>(Gyro) |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |        |               |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|--------|---------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool   | Risk |
| 3700.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 5618.46       | 5637.43       | 297.14 | MWD<br>(Gyro) |      |
| 3800.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 5518.55       | 5537.62       | 290.32 | MWD<br>(Gyro) |      |
| 3900.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 5418.64       | 5437.82       | 283.54 | MWD<br>(Gyro) |      |
| 4000.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 5318.74       | 5338.02       | 276.82 | MWD<br>(Gyro) |      |
| 4100.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 5218.84       | 5238.23       | 270.15 | MWD<br>(Gyro) |      |
| 4200.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 5118.95       | 5138.45       | 263.51 | MWD<br>(Gyro) |      |
| 4300.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 5019.07       | 5038.68       | 256.89 | MWD<br>(Gyro) |      |
| 4400.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 4919.19       | 4938.92       | 250.33 | MWD<br>(Gyro) |      |
| 4500.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 4819.32       | 4839.17       | 243.82 | MWD<br>(Gyro) |      |
| 4600.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 4719.46       | 4739.43       | 237.37 | MWD<br>(Gyro) |      |
| 4700.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 4619.61       | 4639.70       | 230.96 | MWD<br>(Gyro) |      |
| 4800.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 4519.77       | 4539.98       | 224.61 | MWD<br>(Gyro) |      |
| 4900.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 4419.94       | 4440.28       | 218.32 | MWD<br>(Gyro) |      |
| 5000.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 4320.12       | 4340.58       | 212.07 | MWD<br>(Gyro) |      |
| 5100.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 4220.31       | 4240.91       | 205.89 | MWD<br>(Gyro) |      |
| 5200.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 4120.51       | 4141.25       | 199.76 | MWD<br>(Gyro) |      |
| 5300.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 4020.73       | 4041.60       | 193.69 | MWD<br>(Gyro) |      |
| 5400.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 3920.97       | 3941.97       | 187.68 | MWD<br>(Gyro) |      |
| 5500.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 3821.22       | 3842.37       | 181.72 | MWD<br>(Gyro) |      |
| 5600.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 3721.49       | 3742.78       | 175.83 | MWD<br>(Gyro) |      |
| 5700.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 3621.78       | 3643.21       | 169.99 | MWD<br>(Gyro) |      |
| 5800.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 3522.10       | 3543.67       | 164.21 | MWD<br>(Gyro) |      |
| 5900.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 3422.43       | 3444.16       | 158.50 | MWD<br>(Gyro) |      |
| 6000.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 3322.79       | 3344.68       | 152.83 | MWD<br>(Gyro) |      |
| 6100.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 3223.18       | 3245.23       | 147.23 | MWD<br>(Gyro) |      |
| 6200.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 3123.61       | 3145.81       | 141.69 | MWD<br>(Gyro) |      |
| 6300.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 3024.07       | 3046.43       | 136.22 | MWD<br>(Gyro) |      |
| 6400.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 2924.56       | 2947.09       | 130.81 | MWD<br>(Gyro) |      |
| 6500.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 2825.10       | 2847.80       | 125.46 | MWD<br>(Gyro) |      |
| 6600.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 2725.69       | 2748.56       | 120.17 | MWD<br>(Gyro) |      |
| 6700.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 2626.33       | 2649.38       | 114.95 | MWD<br>(Gyro) |      |
| 6800.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 2527.03       | 2550.26       | 109.80 | MWD<br>(Gyro) |      |
| 6900.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 2427.81       | 2451.21       | 104.71 | MWD<br>(Gyro) |      |
| 7000.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 2328.65       | 2352.25       | 99.70  | MWD<br>(Gyro) |      |
| 7100.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 2229.59       | 2253.37       | 94.75  | MWD<br>(Gyro) |      |

Fighting Okra Federal Com 1H ST01

T.D. = 125.14 ft

Report Date: 2012-04-30 11:09:29

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |                              |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|------------------------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool                  | Risk |
| 7200.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 2130.61       | 2154.60       | 89.81 | MWD<br>(Gyro)                |      |
| 7300.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 2031.74       | 2055.95       | 84.93 | MWD<br>(Gyro)                |      |
| 7400.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 1933.00       | 1957.43       | 80.12 | MWD<br>(Gyro)                |      |
| 7500.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 1834.42       | 1859.08       | 75.39 | MWD<br>(Gyro)                |      |
| 7600.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 1735.98       | 1760.91       | 70.65 | MWD<br>(Gyro)                |      |
| 7700.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 1637.74       | 1662.95       | 65.97 | MWD<br>(Gyro)                |      |
| 7800.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 1539.75       | 1565.26       | 61.37 | MWD<br>(Gyro)                |      |
| 7900.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 1442.06       | 1467.87       | 56.86 | MWD<br>(Gyro)                |      |
| 8000.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 1344.73       | 1370.86       | 52.45 | MWD<br>(Gyro)                |      |
| 8100.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 1247.84       | 1274.32       | 48.13 | MWD<br>(Gyro)                |      |
| 8200.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 1151.47       | 1178.35       | 43.84 | MWD<br>(Gyro)                |      |
| 8300.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 1055.74       | 1083.11       | 39.58 | MWD<br>(Gyro)                |      |
| 8400.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 960.86        | 988.81        | 35.38 | MWD<br>(Gyro)                |      |
| 8500.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 867.18        | 895.75        | 31.35 | MWD<br>(Gyro)                |      |
| 8600.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 775.02        | 804.36        | 27.42 | MWD<br>(Gyro)                |      |
| 8700.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 684.85        | 715.27        | 23.52 | MWD<br>(Gyro)                |      |
| 8800.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 597.83        | 629.47        | 19.90 | MWD<br>(Gyro)                |      |
| 8900.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 515.10        | 548.50        | 16.42 | MWD<br>(Gyro)                |      |
| 9000.00                                                                                                                       | 9326.90        | 9323.46           | 153.87                  | 21.36              | 21.30              | 27.25                 | 439.27        | 474.84        | 13.35 | MWD<br>(Gyro)                |      |
| 9100.00                                                                                                                       | 9326.90        | 9323.46           | 329.94                  | 21.36              | 21.30              | 27.25                 | 368.32        | 406.32        | 10.69 | MWD<br>(Gyro)                |      |
| 9200.00                                                                                                                       | 9326.90        | 9323.46           | 325.21                  | 21.36              | 21.30              | 27.25                 | 299.78        | 340.12        | 8.43  | MWD<br>(Gyro)                |      |
| 9300.00                                                                                                                       | 9326.90        | 9323.46           | 320.75                  | 21.36              | 21.30              | 27.25                 | 238.48        | 280.58        | 6.66  | MWD<br>(Gyro)                |      |
| 9400.00                                                                                                                       | 9423.85        | 9422.41           | 300.38                  | 21.33              | 20.54              | 27.41                 | 183.65        | 225.47        | 5.39  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 9500.00                                                                                                                       | 9475.01        | 9476.83           | 277.15                  | 21.34              | 20.17              | 27.63                 | 125.03        | 167.29        | 3.96  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 9600.00                                                                                                                       | 9497.28        | 9501.11           | 265.83                  | 21.35              | 19.91              | 27.72                 | 103.92        | 147.31        | 3.39  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 9700.00                                                                                                                       | 9498.07        | 9501.98           | 270.14                  | 21.35              | 19.90              | 27.73                 | 144.85        | 187.84        | 4.37  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 9800.00                                                                                                                       | 9486.23        | 9489.01           | 286.05                  | 21.35              | 20.05              | 27.68                 | 219.51        | 261.89        | 6.18  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 9900.00                                                                                                                       | 9466.27        | 9467.42           | 306.00                  | 21.34              | 20.25              | 27.59                 | 303.51        | 345.71        | 8.19  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 10000.00                                                                                                                      | 9443.73        | 9443.39           | 311.29                  | 21.34              | 20.43              | 27.50                 | 390.64        | 432.87        | 10.25 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 10100.00                                                                                                                      | 9422.56        | 9421.05           | 315.48                  | 21.33              | 20.55              | 27.41                 | 480.78        | 523.15        | 12.35 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 10200.00                                                                                                                      | 9407.81        | 9405.61           | 318.09                  | 21.33              | 20.68              | 27.35                 | 572.96        | 615.49        | 14.47 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 10300.00                                                                                                                      | 9395.38        | 9392.70           | 320.13                  | 21.33              | 20.78              | 27.30                 | 666.74        | 709.35        | 16.65 |                              |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |                              |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|------------------------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool                  | Risk |
| 10400.00                                                                                                                      | 9388.00        | 9385.09           | 321.26                  | 21.33              | 20.88              | 27.28                 | 761.62        | 804.34        | 18.83 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 10500.00                                                                                                                      | 9383.21        | 9380.17           | 321.98                  | 21.33              | 20.96              | 27.28                 | 857.36        | 900.27        | 20.98 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 10600.00                                                                                                                      | 9379.16        | 9376.03           | 322.56                  | 21.34              | 21.02              | 27.28                 | 953.87        | 996.90        | 23.16 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 10700.00                                                                                                                      | 9375.70        | 9372.50           | 323.04                  | 21.34              | 21.06              | 27.28                 | 1050.96       | 1094.07       | 25.38 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 10800.00                                                                                                                      | 9372.70        | 9369.46           | 323.46                  | 21.34              | 21.10              | 27.28                 | 1148.51       | 1191.66       | 27.62 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 10900.00                                                                                                                      | 9370.09        | 9366.81           | 323.81                  | 21.34              | 21.13              | 27.27                 | 1246.42       | 1289.57       | 29.88 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 11000.00                                                                                                                      | 9367.80        | 9364.49           | 324.11                  | 21.34              | 21.15              | 27.27                 | 1344.55       | 1387.76       | 32.11 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 11100.00                                                                                                                      | 9365.76        | 9362.43           | 324.38                  | 21.35              | 21.17              | 27.27                 | 1442.91       | 1486.17       | 34.35 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 11200.00                                                                                                                      | 9363.94        | 9360.60           | 324.61                  | 21.35              | 21.18              | 27.27                 | 1541.43       | 1584.76       | 36.58 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 11300.00                                                                                                                      | 9362.31        | 9358.95           | 324.82                  | 21.35              | 21.20              | 27.27                 | 1640.10       | 1683.50       | 38.79 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 11400.00                                                                                                                      | 9360.84        | 9357.47           | 325.01                  | 21.35              | 21.21              | 27.27                 | 1738.91       | 1782.37       | 41.01 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 11500.00                                                                                                                      | 9359.51        | 9356.13           | 325.17                  | 21.35              | 21.22              | 27.27                 | 1837.86       | 1881.35       | 43.26 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 11600.00                                                                                                                      | 9358.29        | 9354.90           | 325.32                  | 21.36              | 21.22              | 27.27                 | 1936.91       | 1980.43       | 45.51 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 11700.00                                                                                                                      | 9357.18        | 9353.79           | 325.46                  | 21.36              | 21.23              | 27.27                 | 2036.06       | 2079.58       | 47.78 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 11800.00                                                                                                                      | 9356.16        | 9352.76           | 325.59                  | 21.36              | 21.23              | 27.27                 | 2135.25       | 2178.81       | 50.01 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 11900.00                                                                                                                      | 9355.22        | 9351.81           | 325.70                  | 21.36              | 21.24              | 27.27                 | 2234.52       | 2278.11       | 52.27 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 12000.00                                                                                                                      | 9354.35        | 9350.94           | 325.81                  | 21.36              | 21.24              | 27.27                 | 2333.90       | 2377.46       | 54.58 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 12100.00                                                                                                                      | 9353.54        | 9350.13           | 325.90                  | 21.36              | 21.25              | 27.26                 | 2433.24       | 2476.85       | 56.79 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 12200.00                                                                                                                      | 9352.79        | 9349.38           | 325.99                  | 21.36              | 21.25              | 27.26                 | 2532.63       | 2576.30       | 59.01 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 12300.00                                                                                                                      | 9352.10        | 9348.68           | 326.08                  | 21.36              | 21.25              | 27.26                 | 2632.05       | 2675.78       | 61.20 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 12400.00                                                                                                                      | 9351.44        | 9348.03           | 326.15                  | 21.37              | 21.26              | 27.26                 | 2731.51       | 2775.29       | 63.39 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 12500.00                                                                                                                      | 9350.83        | 9347.41           | 326.23                  | 21.37              | 21.26              | 27.26                 | 2831.01       | 2874.84       | 65.58 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 12600.00                                                                                                                      | 9350.26        | 9346.84           | 326.29                  | 21.37              | 21.26              | 27.26                 | 2930.53       | 2974.42       | 67.78 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 12700.00                                                                                                                      | 9349.72        | 9346.30           | 326.36                  | 21.37              | 21.26              | 27.26                 | 3030.09       | 3074.02       | 69.97 | MWD (Wft<br>MWD Svy<br>ST01) |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |        |                              |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|--------|------------------------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool                  | Risk |
| 12800.00                                                                                                                      | 9349.22        | 9345.79           | 326.41                  | 21.37              | 21.26              | 27.26                 | 3129.66       | 3173.65       | 72.15  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 12900.00                                                                                                                      | 9348.74        | 9345.31           | 326.47                  | 21.37              | 21.27              | 27.26                 | 3229.26       | 3273.30       | 74.34  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 13000.00                                                                                                                      | 9348.29        | 9344.86           | 326.52                  | 21.37              | 21.27              | 27.26                 | 3328.89       | 3372.96       | 76.52  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 13100.00                                                                                                                      | 9347.86        | 9344.43           | 326.57                  | 21.37              | 21.27              | 27.26                 | 3428.53       | 3472.65       | 78.70  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 13200.00                                                                                                                      | 9347.45        | 9344.02           | 326.62                  | 21.37              | 21.27              | 27.26                 | 3528.18       | 3572.35       | 80.87  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 13300.00                                                                                                                      | 9347.07        | 9343.64           | 326.66                  | 21.37              | 21.27              | 27.26                 | 3627.86       | 3672.07       | 83.05  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 13400.00                                                                                                                      | 9346.70        | 9343.27           | 326.71                  | 21.37              | 21.27              | 27.26                 | 3727.54       | 3771.81       | 85.21  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 13500.00                                                                                                                      | 9346.36        | 9342.93           | 326.75                  | 21.37              | 21.27              | 27.26                 | 3827.24       | 3871.55       | 87.38  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 13600.00                                                                                                                      | 9346.03        | 9342.59           | 326.78                  | 21.37              | 21.27              | 27.26                 | 3926.96       | 3971.31       | 89.53  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 13700.00                                                                                                                      | 9345.71        | 9342.28           | 326.82                  | 21.37              | 21.27              | 27.26                 | 4026.68       | 4071.08       | 91.69  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 13800.00                                                                                                                      | 9345.41        | 9341.97           | 326.85                  | 21.37              | 21.27              | 27.26                 | 4126.41       | 4170.86       | 93.84  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 13900.00                                                                                                                      | 9345.12        | 9341.69           | 326.89                  | 21.37              | 21.27              | 27.26                 | 4226.16       | 4270.65       | 95.98  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 14000.00                                                                                                                      | 9344.84        | 9341.41           | 326.92                  | 21.37              | 21.28              | 27.26                 | 4325.91       | 4370.45       | 98.12  | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 14100.00                                                                                                                      | 9344.58        | 9341.15           | 326.95                  | 21.37              | 21.28              | 27.26                 | 4425.67       | 4470.26       | 100.25 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 14200.00                                                                                                                      | 9344.33        | 9340.89           | 326.98                  | 21.37              | 21.28              | 27.26                 | 4525.44       | 4570.08       | 102.38 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 14300.00                                                                                                                      | 9344.08        | 9340.65           | 327.00                  | 21.38              | 21.28              | 27.26                 | 4625.21       | 4669.90       | 104.50 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 14400.00                                                                                                                      | 9343.85        | 9340.41           | 327.03                  | 21.38              | 21.28              | 27.26                 | 4724.99       | 4769.73       | 106.62 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 14500.00                                                                                                                      | 9343.63        | 9340.19           | 327.06                  | 21.38              | 21.28              | 27.26                 | 4824.78       | 4869.57       | 108.73 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 14600.00                                                                                                                      | 9343.41        | 9339.97           | 327.08                  | 21.38              | 21.28              | 27.26                 | 4924.58       | 4969.41       | 110.83 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 14700.00                                                                                                                      | 9343.20        | 9339.77           | 327.10                  | 21.38              | 21.28              | 27.26                 | 5024.38       | 5069.26       | 112.93 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 14800.00                                                                                                                      | 9343.00        | 9339.57           | 327.13                  | 21.38              | 21.28              | 27.26                 | 5124.18       | 5169.12       | 115.03 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 14900.00                                                                                                                      | 9342.81        | 9339.37           | 327.15                  | 21.38              | 21.28              | 27.26                 | 5223.99       | 5268.98       | 117.11 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 15000.00                                                                                                                      | 9342.62        | 9339.19           | 327.17                  | 21.38              | 21.28              | 27.26                 | 5323.80       | 5368.84       | 119.19 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 15100.00                                                                                                                      | 9342.45        | 9339.01           | 327.19                  | 21.38              | 21.28              | 27.26                 | 5423.62       | 5468.72       | 121.26 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 15200.00                                                                                                                      | 9342.27        | 9338.84           | 327.21                  | 21.38              | 21.28              | 27.26                 | 5523.44       | 5568.59       | 123.33 | MWD (Wft<br>MWD Svy<br>ST01) |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST01 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |        |                              |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|--------|------------------------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool                  | Risk |
| 15300.00                                                                                                                      | 9342.11        | 9338.67           | 327.23                  | 21.38              | 21.28              | 27.26                 | 5623.26       | 5668.47       | 125.39 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 15400.00                                                                                                                      | 9341.94        | 9338.51           | 327.24                  | 21.38              | 21.28              | 27.26                 | 5723.09       | 5768.35       | 127.44 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 15500.00                                                                                                                      | 9341.79        | 9338.35           | 327.26                  | 21.38              | 21.28              | 27.26                 | 5822.92       | 5868.24       | 129.49 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 15600.00                                                                                                                      | 9341.64        | 9338.20           | 327.28                  | 21.38              | 21.28              | 27.26                 | 5922.76       | 5968.13       | 131.52 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 15700.00                                                                                                                      | 9341.49        | 9338.05           | 327.29                  | 21.38              | 21.28              | 27.26                 | 6022.59       | 6068.03       | 133.56 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 15800.00                                                                                                                      | 9341.35        | 9337.91           | 327.31                  | 21.38              | 21.28              | 27.26                 | 6122.43       | 6167.92       | 135.58 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 15900.00                                                                                                                      | 9341.21        | 9337.77           | 327.33                  | 21.38              | 21.28              | 27.26                 | 6222.27       | 6267.83       | 137.60 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 16000.00                                                                                                                      | 9341.08        | 9337.64           | 327.34                  | 21.38              | 21.28              | 27.26                 | 6322.12       | 6367.73       | 139.61 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 16100.00                                                                                                                      | 9340.95        | 9337.51           | 327.35                  | 21.38              | 21.28              | 27.26                 | 6421.96       | 6467.64       | 141.61 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 16200.00                                                                                                                      | 9340.82        | 9337.38           | 327.37                  | 21.38              | 21.28              | 27.26                 | 6521.81       | 6567.55       | 143.60 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 16300.00                                                                                                                      | 9340.70        | 9337.26           | 327.38                  | 21.38              | 21.28              | 27.26                 | 6621.66       | 6667.46       | 145.59 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 16400.00                                                                                                                      | 9340.58        | 9337.14           | 327.39                  | 21.38              | 21.28              | 27.26                 | 6721.52       | 6767.37       | 147.57 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 16500.00                                                                                                                      | 9340.47        | 9337.03           | 327.41                  | 21.38              | 21.28              | 27.26                 | 6821.37       | 6867.29       | 149.54 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 16600.00                                                                                                                      | 9340.35        | 9336.92           | 327.42                  | 21.38              | 21.28              | 27.26                 | 6921.23       | 6967.21       | 151.51 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 16700.00                                                                                                                      | 9340.24        | 9336.81           | 327.43                  | 21.38              | 21.28              | 27.26                 | 7021.08       | 7067.13       | 153.46 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 16800.00                                                                                                                      | 9340.14        | 9336.70           | 327.44                  | 21.38              | 21.28              | 27.26                 | 7120.94       | 7167.06       | 155.41 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 16900.00                                                                                                                      | 9340.03        | 9336.60           | 327.45                  | 21.38              | 21.28              | 27.26                 | 7220.80       | 7266.98       | 157.35 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 17000.00                                                                                                                      | 9339.93        | 9336.50           | 327.47                  | 21.38              | 21.28              | 27.26                 | 7320.66       | 7366.91       | 159.29 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 17100.00                                                                                                                      | 9339.84        | 9336.40           | 327.48                  | 21.38              | 21.28              | 27.26                 | 7420.52       | 7466.84       | 161.21 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 17200.00                                                                                                                      | 9339.74        | 9336.30           | 327.49                  | 21.38              | 21.28              | 27.26                 | 7520.39       | 7566.77       | 163.13 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| 17203.00                                                                                                                      | 9339.74        | 9336.30           | 327.49                  | 21.38              | 21.28              | 27.26                 | 7523.39       | 7569.77       | 163.19 | MWD (Wft<br>MWD Svy<br>ST01) |      |
| Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |        |                              |      |
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool                  | Risk |
| 0.00                                                                                                                          | 7.00           | 0.00              | 179.91                  | 0.00               | 0.00               | 0.00                  | 228.69        | 229.33        | 358.57 | NSG Cont<br>(Gyro)           |      |
| 100.00                                                                                                                        | 100.07         | 93.07             | 179.86                  | 0.12               | 0.12               | 2.06                  | 228.33        | 229.21        | 262.90 | NSG Cont<br>(Gyro)           |      |
| 200.00                                                                                                                        | 199.53         | 192.53            | 179.67                  | 0.35               | 0.35               | 2.63                  | 227.93        | 229.26        | 173.11 | NSG Cont<br>(Gyro)           |      |
| 300.00                                                                                                                        | 299.68         | 292.69            | 179.35                  | 0.62               | 0.62               | 2.63                  | 227.66        | 229.47        | 126.60 | NSG Cont<br>(Gyro)           |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |                    |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|--------------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool        | Risk |
| 400.00                                                                                                                        | 400.24         | 393.26            | 178.95                  | 0.88               | 0.88               | 2.63                  | 227.19        | 229.49        | 99.63 | NSG Cont<br>(Gyro) |      |
| 500.00                                                                                                                        | 499.66         | 492.70            | 178.55                  | 1.15               | 1.15               | 2.64                  | 226.70        | 229.49        | 82.20 | NSG Cont<br>(Gyro) |      |
| 600.00                                                                                                                        | 599.49         | 592.54            | 178.18                  | 1.41               | 1.41               | 2.65                  | 226.40        | 229.68        | 70.05 | NSG Cont<br>(Gyro) |      |
| 700.00                                                                                                                        | 699.51         | 692.57            | 177.84                  | 1.68               | 1.68               | 2.65                  | 226.14        | 229.91        | 61.02 | NSG Cont<br>(Gyro) |      |
| 800.00                                                                                                                        | 799.99         | 793.06            | 177.50                  | 1.94               | 1.94               | 2.66                  | 225.74        | 230.00        | 54.02 | NSG Cont<br>(Gyro) |      |
| 900.00                                                                                                                        | 899.74         | 892.82            | 177.13                  | 2.21               | 2.21               | 2.67                  | 225.31        | 230.06        | 48.48 | NSG Cont<br>(Gyro) |      |
| 1000.00                                                                                                                       | 999.29         | 992.38            | 176.76                  | 2.47               | 2.47               | 2.68                  | 225.00        | 230.23        | 44.00 | NSG Cont<br>(Gyro) |      |
| 1100.00                                                                                                                       | 1098.54        | 1091.64           | 176.51                  | 2.72               | 2.72               | 2.69                  | 225.06        | 230.77        | 40.41 | NSG Cont<br>(Gyro) |      |
| 1200.00                                                                                                                       | 1198.66        | 1191.76           | 176.29                  | 2.97               | 2.97               | 2.70                  | 225.14        | 231.33        | 37.38 | NSG Cont<br>(Gyro) |      |
| 1300.00                                                                                                                       | 1298.51        | 1291.62           | 175.99                  | 3.23               | 3.23               | 2.71                  | 225.33        | 232.00        | 34.79 | NSG Cont<br>(Gyro) |      |
| 1400.00                                                                                                                       | 1398.33        | 1391.45           | 175.70                  | 3.47               | 3.47               | 2.72                  | 225.47        | 232.59        | 32.66 | NSG Cont<br>(Gyro) |      |
| 1500.00                                                                                                                       | 1497.58        | 1490.70           | 175.66                  | 3.65               | 3.65               | 2.73                  | 225.98        | 233.51        | 31.02 | NSG Cont<br>(Gyro) |      |
| 1600.00                                                                                                                       | 1597.25        | 1590.38           | 175.65                  | 3.83               | 3.82               | 2.74                  | 226.68        | 234.61        | 29.57 | NSG Cont<br>(Gyro) |      |
| 1700.00                                                                                                                       | 1697.07        | 1690.21           | 175.56                  | 4.03               | 4.03               | 2.76                  | 227.48        | 235.83        | 28.23 | NSG Cont<br>(Gyro) |      |
| 1800.00                                                                                                                       | 1796.48        | 1789.63           | 175.51                  | 4.24               | 4.23               | 2.77                  | 228.37        | 237.16        | 26.99 | NSG Cont<br>(Gyro) |      |
| 1900.00                                                                                                                       | 1897.15        | 1890.31           | 175.44                  | 4.45               | 4.45               | 2.78                  | 229.37        | 238.60        | 25.85 | NSG Cont<br>(Gyro) |      |
| 2000.00                                                                                                                       | 1997.90        | 1991.07           | 175.39                  | 4.68               | 4.67               | 2.79                  | 229.93        | 239.60        | 24.76 | NSG Cont<br>(Gyro) |      |
| 2100.00                                                                                                                       | 2097.58        | 2090.75           | 175.30                  | 4.92               | 4.91               | 2.81                  | 230.38        | 240.51        | 23.74 | NSG Cont<br>(Gyro) |      |
| 2200.00                                                                                                                       | 2197.04        | 2190.22           | 175.19                  | 5.16               | 5.16               | 2.82                  | 231.03        | 241.63        | 22.80 | NSG Cont<br>(Gyro) |      |
| 2300.00                                                                                                                       | 2299.01        | 2292.19           | 175.02                  | 5.42               | 5.42               | 2.84                  | 231.41        | 242.49        | 21.88 | NSG Cont<br>(Gyro) |      |
| 2400.00                                                                                                                       | 2399.19        | 2392.37           | 174.87                  | 5.68               | 5.68               | 2.85                  | 231.29        | 242.87        | 20.99 | NSG Cont<br>(Gyro) |      |
| 2500.00                                                                                                                       | 2500.58        | 2493.77           | 174.69                  | 5.92               | 5.92               | 2.86                  | 230.85        | 242.88        | 20.19 | NSG Cont<br>(Gyro) |      |
| 2600.00                                                                                                                       | 2600.34        | 2593.54           | 174.28                  | 6.15               | 6.14               | 2.88                  | 230.21        | 242.70        | 19.44 | NSG Cont<br>(Gyro) |      |
| 2700.00                                                                                                                       | 2700.27        | 2693.50           | 173.75                  | 6.38               | 6.38               | 2.89                  | 229.60        | 242.56        | 18.72 | NSG Cont<br>(Gyro) |      |
| 2800.00                                                                                                                       | 2799.43        | 2792.70           | 173.11                  | 6.62               | 6.62               | 2.91                  | 229.11        | 242.54        | 18.06 | NSG Cont<br>(Gyro) |      |
| 2900.00                                                                                                                       | 2896.54        | 2889.88           | 172.28                  | 6.87               | 6.86               | 2.93                  | 229.41        | 243.31        | 17.51 | NSG Cont<br>(Gyro) |      |
| 3000.00                                                                                                                       | 2992.99        | 2986.43           | 171.32                  | 7.12               | 7.11               | 2.95                  | 231.13        | 245.51        | 17.07 | NSG Cont<br>(Gyro) |      |
| 3100.00                                                                                                                       | 3091.37        | 3084.97           | 170.32                  | 7.39               | 7.37               | 2.96                  | 233.94        | 248.81        | 16.73 | NSG Cont<br>(Gyro) |      |
| 3200.00                                                                                                                       | 3193.11        | 3186.87           | 169.26                  | 7.66               | 7.64               | 2.99                  | 236.70        | 252.06        | 16.41 | NSG Cont<br>(Gyro) |      |
| 3300.00                                                                                                                       | 3296.47        | 3290.36           | 168.13                  | 7.93               | 7.91               | 3.01                  | 238.22        | 254.08        | 16.03 | NSG Cont<br>(Gyro) |      |
| 3400.00                                                                                                                       | 3398.98        | 3393.01           | 166.96                  | 8.18               | 8.17               | 3.04                  | 238.61        | 254.94        | 15.61 | NSG Cont<br>(Gyro) |      |
| 3500.00                                                                                                                       | 3498.18        | 3492.33           | 165.89                  | 8.43               | 8.41               | 3.06                  | 238.49        | 255.29        | 15.20 | NSG Cont<br>(Gyro) |      |
| 3600.00                                                                                                                       | 3597.61        | 3591.88           | 164.78                  | 8.68               | 8.66               | 3.09                  | 238.98        | 256.24        | 14.84 | NSG Cont<br>(Gyro) |      |
| 3700.00                                                                                                                       | 3697.62        | 3692.00           | 163.78                  | 8.93               | 8.91               | 3.12                  | 239.40        | 257.15        | 14.49 | NSG Cont<br>(Gyro) |      |
| 3800.00                                                                                                                       | 3799.30        | 3793.78           | 162.77                  | 9.18               | 9.16               | 3.15                  | 239.59        | 257.82        | 14.14 | NSG Cont<br>(Gyro) |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |                    |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|--------------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool        | Risk |
| 3900.00                                                                                                                       | 3903.23        | 3897.81           | 161.77                  | 9.42               | 9.39               | 3.18                  | 238.69        | 257.38        | 13.77 | NSG Cont<br>(Gyro) |      |
| 4000.00                                                                                                                       | 4002.83        | 3997.51           | 160.85                  | 9.63               | 9.60               | 3.21                  | 237.04        | 256.16        | 13.40 | NSG Cont<br>(Gyro) |      |
| 4100.00                                                                                                                       | 4105.67        | 4100.43           | 160.01                  | 9.82               | 9.80               | 3.25                  | 234.92        | 254.43        | 13.04 | NSG Cont<br>(Gyro) |      |
| 4200.00                                                                                                                       | 4204.53        | 4199.36           | 159.34                  | 10.00              | 9.97               | 3.28                  | 232.43        | 252.37        | 12.66 | NSG Cont<br>(Gyro) |      |
| 4300.00                                                                                                                       | 4301.88        | 4296.73           | 158.86                  | 10.18              | 10.15              | 3.32                  | 230.81        | 251.17        | 12.34 | NSG Cont<br>(Gyro) |      |
| 4400.00                                                                                                                       | 4401.32        | 4396.20           | 158.45                  | 10.39              | 10.36              | 3.36                  | 229.72        | 250.51        | 12.05 | NSG Cont<br>(Gyro) |      |
| 4500.00                                                                                                                       | 4499.59        | 4494.51           | 157.83                  | 10.62              | 10.59              | 3.40                  | 228.99        | 250.23        | 11.78 | NSG Cont<br>(Gyro) |      |
| 4600.00                                                                                                                       | 4595.94        | 4590.92           | 157.03                  | 10.87              | 10.83              | 3.44                  | 229.42        | 251.11        | 11.57 | NSG Cont<br>(Gyro) |      |
| 4700.00                                                                                                                       | 4692.24        | 4687.33           | 156.09                  | 11.12              | 11.08              | 3.48                  | 231.33        | 253.47        | 11.44 | NSG Cont<br>(Gyro) |      |
| 4800.00                                                                                                                       | 4790.02        | 4785.25           | 155.26                  | 11.38              | 11.34              | 3.53                  | 234.51        | 257.11        | 11.38 | NSG Cont<br>(Gyro) |      |
| 4900.00                                                                                                                       | 4890.49        | 4885.83           | 154.71                  | 11.64              | 11.59              | 3.59                  | 237.77        | 260.87        | 11.29 | NSG Cont<br>(Gyro) |      |
| 5000.00                                                                                                                       | 4991.46        | 4986.88           | 154.26                  | 11.90              | 11.85              | 3.64                  | 240.75        | 264.36        | 11.20 | NSG Cont<br>(Gyro) |      |
| 5100.00                                                                                                                       | 5091.94        | 5087.43           | 153.78                  | 12.16              | 12.11              | 3.70                  | 243.27        | 267.37        | 11.09 | NSG Cont<br>(Gyro) |      |
| 5200.00                                                                                                                       | 5192.77        | 5188.33           | 153.32                  | 12.42              | 12.37              | 3.76                  | 245.75        | 270.34        | 10.99 | NSG Cont<br>(Gyro) |      |
| 5300.00                                                                                                                       | 5294.65        | 5290.25           | 152.93                  | 12.69              | 12.64              | 3.83                  | 247.56        | 272.64        | 10.87 | NSG Cont<br>(Gyro) |      |
| 5400.00                                                                                                                       | 5395.41        | 5391.05           | 152.46                  | 12.96              | 12.91              | 3.89                  | 248.83        | 274.41        | 10.73 | NSG Cont<br>(Gyro) |      |
| 5500.00                                                                                                                       | 5493.44        | 5489.12           | 152.05                  | 13.21              | 13.16              | 3.96                  | 250.28        | 276.33        | 10.61 | NSG Cont<br>(Gyro) |      |
| 5600.00                                                                                                                       | 5594.85        | 5590.56           | 151.79                  | 13.47              | 13.42              | 4.03                  | 252.09        | 278.61        | 10.51 | NSG Cont<br>(Gyro) |      |
| 5700.00                                                                                                                       | 5696.23        | 5691.97           | 151.45                  | 13.74              | 13.69              | 4.10                  | 253.17        | 280.17        | 10.38 | NSG Cont<br>(Gyro) |      |
| 5800.00                                                                                                                       | 5793.16        | 5788.92           | 151.21                  | 13.99              | 13.93              | 4.18                  | 254.51        | 282.00        | 10.26 | NSG Cont<br>(Gyro) |      |
| 5900.00                                                                                                                       | 5894.16        | 5889.95           | 151.09                  | 14.23              | 14.17              | 4.26                  | 256.32        | 284.28        | 10.17 | NSG Cont<br>(Gyro) |      |
| 6000.00                                                                                                                       | 5994.69        | 5990.50           | 150.96                  | 14.48              | 14.42              | 4.34                  | 257.76        | 286.21        | 10.06 | NSG Cont<br>(Gyro) |      |
| 6100.00                                                                                                                       | 6093.27        | 6089.11           | 150.77                  | 14.73              | 14.68              | 4.43                  | 259.40        | 288.34        | 9.97  | NSG Cont<br>(Gyro) |      |
| 6200.00                                                                                                                       | 6193.12        | 6189.00           | 150.57                  | 14.99              | 14.93              | 4.52                  | 261.26        | 290.68        | 9.88  | NSG Cont<br>(Gyro) |      |
| 6300.00                                                                                                                       | 6293.29        | 6289.20           | 150.52                  | 15.22              | 15.16              | 4.61                  | 263.22        | 293.10        | 9.81  | NSG Cont<br>(Gyro) |      |
| 6400.00                                                                                                                       | 6395.53        | 6391.45           | 150.48                  | 15.47              | 15.40              | 4.71                  | 264.58        | 294.92        | 9.72  | NSG Cont<br>(Gyro) |      |
| 6500.00                                                                                                                       | 6495.35        | 6491.28           | 150.38                  | 15.72              | 15.65              | 4.80                  | 265.54        | 296.37        | 9.62  | NSG Cont<br>(Gyro) |      |
| 6600.00                                                                                                                       | 6594.28        | 6590.23           | 150.29                  | 15.96              | 15.90              | 4.90                  | 266.91        | 298.20        | 9.53  | NSG Cont<br>(Gyro) |      |
| 6700.00                                                                                                                       | 6695.10        | 6691.07           | 150.27                  | 16.20              | 16.14              | 5.01                  | 268.28        | 300.03        | 9.45  | NSG Cont<br>(Gyro) |      |
| 6800.00                                                                                                                       | 6796.44        | 6792.42           | 150.18                  | 16.45              | 16.39              | 5.12                  | 269.19        | 301.42        | 9.35  | NSG Cont<br>(Gyro) |      |
| 6900.00                                                                                                                       | 6894.96        | 6890.95           | 150.09                  | 16.70              | 16.64              | 5.23                  | 269.96        | 302.65        | 9.26  | NSG Cont<br>(Gyro) |      |
| 7000.00                                                                                                                       | 6995.18        | 6991.19           | 150.16                  | 16.90              | 16.83              | 5.34                  | 271.41        | 304.52        | 9.20  | NSG Cont<br>(Gyro) |      |
| 7100.00                                                                                                                       | 7096.58        | 7092.60           | 150.38                  | 17.06              | 16.99              | 5.46                  | 272.32        | 305.80        | 9.13  | NSG Cont<br>(Gyro) |      |
| 7200.00                                                                                                                       | 7197.57        | 7193.60           | 150.52                  | 17.21              | 17.15              | 5.59                  | 272.91        | 306.77        | 9.06  | NSG Cont<br>(Gyro) |      |
| 7300.00                                                                                                                       | 7295.45        | 7291.49           | 150.60                  | 17.39              | 17.33              | 5.71                  | 273.54        | 307.80        | 8.99  | NSG Cont<br>(Gyro) |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |                              |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|------------------------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool                  | Risk |
| 7400.00                                                                                                                       | 7397.27        | 7393.32           | 150.59                  | 17.62              | 17.56              | 5.84                  | 274.41        | 309.11        | 8.91  | NSG Cont<br>(Gyro)           |      |
| 7500.00                                                                                                                       | 7497.68        | 7493.73           | 150.57                  | 17.86              | 17.80              | 5.97                  | 274.74        | 309.89        | 8.82  | NSG Cont<br>(Gyro)           |      |
| 7600.00                                                                                                                       | 7595.84        | 7591.90           | 150.46                  | 18.12              | 18.05              | 6.10                  | 275.29        | 310.92        | 8.73  | NSG Cont<br>(Gyro)           |      |
| 7700.00                                                                                                                       | 7694.84        | 7690.90           | 150.40                  | 18.36              | 18.30              | 6.24                  | 276.31        | 312.41        | 8.66  | NSG Cont<br>(Gyro)           |      |
| 7800.00                                                                                                                       | 7792.52        | 7788.61           | 150.49                  | 18.57              | 18.51              | 6.38                  | 277.91        | 314.45        | 8.61  | NSG Cont<br>(Gyro)           |      |
| 7900.00                                                                                                                       | 7892.91        | 7889.03           | 150.60                  | 18.78              | 18.72              | 6.52                  | 279.77        | 316.77        | 8.56  | NSG Cont<br>(Gyro)           |      |
| 8000.00                                                                                                                       | 7993.11        | 7989.26           | 150.76                  | 18.99              | 18.93              | 6.67                  | 281.46        | 318.90        | 8.52  | NSG Cont<br>(Gyro)           |      |
| 8100.00                                                                                                                       | 8091.90        | 8088.08           | 150.80                  | 19.21              | 19.15              | 6.82                  | 283.46        | 321.35        | 8.48  | NSG Cont<br>(Gyro)           |      |
| 8200.00                                                                                                                       | 8192.62        | 8188.82           | 150.87                  | 19.44              | 19.37              | 6.97                  | 285.28        | 323.62        | 8.44  | NSG Cont<br>(Gyro)           |      |
| 8300.00                                                                                                                       | 8291.58        | 8287.82           | 151.00                  | 19.65              | 19.58              | 7.13                  | 287.38        | 326.16        | 8.41  | NSG Cont<br>(Gyro)           |      |
| 8400.00                                                                                                                       | 8392.43        | 8388.71           | 151.18                  | 19.86              | 19.80              | 7.29                  | 289.36        | 328.58        | 8.38  | NSG Cont<br>(Gyro)           |      |
| 8500.00                                                                                                                       | 8493.42        | 8489.72           | 151.26                  | 20.07              | 20.01              | 7.46                  | 291.10        | 330.76        | 8.34  | NSG Cont<br>(Gyro)           |      |
| 8600.00                                                                                                                       | 8594.35        | 8590.68           | 151.49                  | 20.26              | 20.19              | 7.63                  | 292.50        | 332.57        | 8.30  | NSG Cont<br>(Gyro)           |      |
| 8700.00                                                                                                                       | 8695.79        | 8692.14           | 151.79                  | 20.41              | 20.34              | 7.80                  | 293.68        | 334.11        | 8.26  | NSG Cont<br>(Gyro)           |      |
| 8800.00                                                                                                                       | 8795.25        | 8791.63           | 152.12                  | 20.55              | 20.48              | 7.97                  | 294.53        | 335.31        | 8.22  | NSG Cont<br>(Gyro)           |      |
| 8900.00                                                                                                                       | 8894.80        | 8891.21           | 152.45                  | 20.69              | 20.63              | 8.15                  | 295.72        | 336.86        | 8.19  | NSG Cont<br>(Gyro)           |      |
| 9000.00                                                                                                                       | 8993.00        | 8989.44           | 152.79                  | 20.84              | 20.78              | 8.32                  | 297.10        | 338.59        | 8.16  | NSG Cont<br>(Gyro)           |      |
| 9100.00                                                                                                                       | 9094.06        | 9090.54           | 332.63                  | 21.01              | 20.94              | 8.51                  | 291.12        | 332.96        | 7.96  | NSG Cont<br>(Gyro)           |      |
| 9200.00                                                                                                                       | 9191.15        | 9187.67           | 329.74                  | 21.16              | 21.10              | 8.69                  | 269.59        | 311.78        | 7.39  | NSG Cont<br>(Gyro)           |      |
| 9300.00                                                                                                                       | 9282.56        | 9279.11           | 323.70                  | 21.31              | 21.25              | 8.86                  | 234.56        | 277.05        | 6.52  | NSG Cont<br>(Gyro)           |      |
| 9400.00                                                                                                                       | 9366.96        | 9363.53           | 312.67                  | 21.42              | 21.35              | 16.65                 | 189.20        | 231.95        | 5.43  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 9500.00                                                                                                                       | 9442.65        | 9439.23           | 294.35                  | 21.47              | 21.39              | 27.79                 | 140.29        | 183.31        | 4.26  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 9600.00                                                                                                                       | 9499.76        | 9496.47           | 273.43                  | 21.46              | 21.32              | 28.05                 | 106.01        | 149.40        | 3.44  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 9700.00                                                                                                                       | 9528.33        | 9525.33           | 264.38                  | 21.46              | 21.23              | 28.18                 | 120.52        | 164.29        | 3.75  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 9800.00                                                                                                                       | 9536.36        | 9533.48           | 269.45                  | 21.46              | 21.19              | 28.22                 | 182.84        | 226.38        | 5.20  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 9900.00                                                                                                                       | 9529.87        | 9526.89           | 286.48                  | 21.46              | 21.22              | 28.19                 | 265.46        | 308.83        | 7.12  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 10000.00                                                                                                                      | 9518.96        | 9515.85           | 290.46                  | 21.46              | 21.26              | 28.14                 | 355.14        | 398.42        | 9.21  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 10100.00                                                                                                                      | 9511.14        | 9507.94           | 293.07                  | 21.46              | 21.29              | 28.11                 | 448.48        | 491.75        | 11.37 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 10200.00                                                                                                                      | 9504.74        | 9501.49           | 295.14                  | 21.46              | 21.31              | 28.08                 | 543.78        | 587.11        | 13.55 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 10300.00                                                                                                                      | 9499.40        | 9496.11           | 296.81                  | 21.46              | 21.32              | 28.05                 | 640.37        | 683.69        | 15.78 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 10400.00                                                                                                                      | 9494.88        | 9491.56           | 298.19                  | 21.46              | 21.33              | 28.03                 | 737.75        | 781.07        | 18.03 | MWD (Wft<br>MWD Svy<br>ST00) |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |                              |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|------------------------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool                  | Risk |
| 10500.00                                                                                                                      | 9491.01        | 9487.67           | 299.34                  | 21.46              | 21.34              | 28.01                 | 835.63        | 878.98        | 20.28 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 10600.00                                                                                                                      | 9487.65        | 9484.30           | 300.32                  | 21.46              | 21.35              | 28.00                 | 933.92        | 977.28        | 22.54 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 10700.00                                                                                                                      | 9484.73        | 9481.37           | 301.16                  | 21.47              | 21.35              | 27.98                 | 1032.44       | 1075.86       | 24.78 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 10800.00                                                                                                                      | 9482.16        | 9478.79           | 301.88                  | 21.47              | 21.36              | 27.97                 | 1131.19       | 1174.67       | 27.02 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 10900.00                                                                                                                      | 9479.86        | 9476.48           | 302.52                  | 21.47              | 21.36              | 27.96                 | 1230.13       | 1273.65       | 29.27 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 11000.00                                                                                                                      | 9477.80        | 9474.42           | 303.08                  | 21.47              | 21.36              | 27.95                 | 1329.20       | 1372.76       | 31.51 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 11100.00                                                                                                                      | 9475.95        | 9472.56           | 303.58                  | 21.47              | 21.36              | 27.94                 | 1428.39       | 1471.99       | 33.76 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 11200.00                                                                                                                      | 9474.27        | 9470.88           | 304.03                  | 21.47              | 21.37              | 27.94                 | 1527.67       | 1571.30       | 36.01 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 11300.00                                                                                                                      | 9472.74        | 9469.35           | 304.43                  | 21.47              | 21.37              | 27.93                 | 1627.03       | 1670.69       | 38.27 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 11400.00                                                                                                                      | 9471.34        | 9467.95           | 304.80                  | 21.47              | 21.37              | 27.92                 | 1726.47       | 1770.14       | 40.53 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 11500.00                                                                                                                      | 9470.06        | 9466.66           | 305.13                  | 21.47              | 21.37              | 27.92                 | 1826.02       | 1869.65       | 42.85 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 11600.00                                                                                                                      | 9468.88        | 9465.48           | 305.43                  | 21.47              | 21.37              | 27.91                 | 1925.53       | 1969.21       | 45.09 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 11700.00                                                                                                                      | 9467.79        | 9464.39           | 305.71                  | 21.47              | 21.37              | 27.91                 | 2025.06       | 2068.80       | 47.30 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 11800.00                                                                                                                      | 9466.78        | 9463.37           | 305.97                  | 21.47              | 21.38              | 27.90                 | 2124.64       | 2168.43       | 49.52 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 11900.00                                                                                                                      | 9465.84        | 9462.43           | 306.20                  | 21.47              | 21.38              | 27.90                 | 2224.34       | 2268.09       | 51.84 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 12000.00                                                                                                                      | 9464.96        | 9461.56           | 306.42                  | 21.47              | 21.38              | 27.89                 | 2323.95       | 2367.78       | 54.03 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 12100.00                                                                                                                      | 9464.15        | 9460.74           | 306.62                  | 21.47              | 21.38              | 27.89                 | 2423.62       | 2467.49       | 56.25 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 12200.00                                                                                                                      | 9463.38        | 9459.98           | 306.81                  | 21.47              | 21.38              | 27.89                 | 2523.32       | 2567.22       | 58.48 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 12300.00                                                                                                                      | 9462.67        | 9459.26           | 306.99                  | 21.47              | 21.38              | 27.88                 | 2623.03       | 2666.97       | 60.70 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 12400.00                                                                                                                      | 9461.99        | 9458.58           | 307.15                  | 21.47              | 21.38              | 27.88                 | 2722.77       | 2766.73       | 62.93 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 12500.00                                                                                                                      | 9461.36        | 9457.95           | 307.31                  | 21.47              | 21.38              | 27.88                 | 2822.52       | 2866.52       | 65.15 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 12600.00                                                                                                                      | 9460.76        | 9457.35           | 307.45                  | 21.47              | 21.38              | 27.87                 | 2922.28       | 2966.31       | 67.37 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 12700.00                                                                                                                      | 9460.20        | 9456.78           | 307.59                  | 21.47              | 21.38              | 27.87                 | 3022.06       | 3066.12       | 69.58 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 12800.00                                                                                                                      | 9459.66        | 9456.25           | 307.72                  | 21.47              | 21.38              | 27.87                 | 3121.84       | 3165.94       | 71.79 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 12900.00                                                                                                                      | 9459.15        | 9455.74           | 307.84                  | 21.47              | 21.38              | 27.87                 | 3221.64       | 3265.77       | 73.99 | MWD (Wft<br>MWD Svy<br>ST00) |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |        |                              |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|--------|------------------------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool                  | Risk |
| 13000.00                                                                                                                      | 9458.67        | 9455.26           | 307.96                  | 21.47              | 21.38              | 27.86                 | 3321.44       | 3365.61       | 76.19  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 13100.00                                                                                                                      | 9458.22        | 9454.80           | 308.06                  | 21.47              | 21.38              | 27.86                 | 3421.25       | 3465.46       | 78.39  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 13200.00                                                                                                                      | 9457.78        | 9454.37           | 308.17                  | 21.47              | 21.38              | 27.86                 | 3521.07       | 3565.32       | 80.58  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 13300.00                                                                                                                      | 9457.37        | 9453.95           | 308.27                  | 21.47              | 21.38              | 27.86                 | 3620.90       | 3665.18       | 82.76  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 13400.00                                                                                                                      | 9456.97        | 9453.56           | 308.36                  | 21.47              | 21.38              | 27.86                 | 3720.73       | 3765.05       | 84.94  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 13500.00                                                                                                                      | 9456.59        | 9453.18           | 308.45                  | 21.47              | 21.38              | 27.85                 | 3820.57       | 3864.93       | 87.11  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 13600.00                                                                                                                      | 9456.16        | 9452.75           | 308.55                  | 21.47              | 21.38              | 27.85                 | 3920.41       | 3964.82       | 89.28  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 13700.00                                                                                                                      | 9455.67        | 9452.26           | 308.66                  | 21.47              | 21.38              | 27.85                 | 4020.25       | 4064.70       | 91.44  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 13800.00                                                                                                                      | 9455.21        | 9451.79           | 308.77                  | 21.47              | 21.38              | 27.85                 | 4120.11       | 4164.60       | 93.60  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 13900.00                                                                                                                      | 9454.76        | 9451.34           | 308.88                  | 21.47              | 21.38              | 27.85                 | 4219.96       | 4264.50       | 95.75  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 14000.00                                                                                                                      | 9454.32        | 9450.91           | 308.98                  | 21.47              | 21.38              | 27.84                 | 4319.82       | 4364.40       | 97.90  | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 14100.00                                                                                                                      | 9453.91        | 9450.49           | 309.07                  | 21.47              | 21.39              | 27.84                 | 4419.68       | 4464.31       | 100.03 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 14200.00                                                                                                                      | 9453.51        | 9450.09           | 309.17                  | 21.47              | 21.39              | 27.84                 | 4519.54       | 4564.22       | 102.17 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 14300.00                                                                                                                      | 9453.12        | 9449.71           | 309.26                  | 21.47              | 21.39              | 27.84                 | 4619.41       | 4664.13       | 104.29 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 14400.00                                                                                                                      | 9452.75        | 9449.34           | 309.34                  | 21.47              | 21.39              | 27.84                 | 4719.28       | 4764.05       | 106.41 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 14500.00                                                                                                                      | 9452.39        | 9448.98           | 309.42                  | 21.47              | 21.39              | 27.83                 | 4819.15       | 4863.97       | 108.52 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 14600.00                                                                                                                      | 9452.05        | 9448.63           | 309.50                  | 21.47              | 21.39              | 27.83                 | 4919.03       | 4963.89       | 110.63 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 14700.00                                                                                                                      | 9451.71        | 9448.30           | 309.58                  | 21.47              | 21.39              | 27.83                 | 5018.90       | 5063.82       | 112.73 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 14800.00                                                                                                                      | 9451.39        | 9447.98           | 309.65                  | 21.47              | 21.39              | 27.83                 | 5118.78       | 5163.75       | 114.82 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 14900.00                                                                                                                      | 9451.08        | 9447.66           | 309.72                  | 21.47              | 21.39              | 27.83                 | 5218.66       | 5263.68       | 116.91 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 15000.00                                                                                                                      | 9450.78        | 9447.36           | 309.79                  | 21.47              | 21.39              | 27.83                 | 5318.54       | 5363.62       | 118.99 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 15100.00                                                                                                                      | 9450.48        | 9447.07           | 309.86                  | 21.47              | 21.39              | 27.83                 | 5418.42       | 5463.55       | 121.06 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 15200.00                                                                                                                      | 9450.20        | 9446.79           | 309.92                  | 21.47              | 21.39              | 27.82                 | 5518.31       | 5563.49       | 123.12 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 15300.00                                                                                                                      | 9449.93        | 9446.51           | 309.98                  | 21.47              | 21.39              | 27.82                 | 5618.19       | 5663.43       | 125.18 | MWD (Wft<br>MWD Svy<br>ST00) |      |
| 15400.00                                                                                                                      | 9449.66        | 9446.24           | 310.04                  | 21.47              | 21.39              | 27.82                 | 5718.08       | 5763.38       | 127.23 | MWD (Wft<br>MWD Svy<br>ST00) |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra Federal Com 1H ST00 (s)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |        |                        |      |
|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|--------|------------------------|------|
| Pri MD<br>(US ft)                                                                                                             | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool            | Risk |
| 15500.00                                                                                                                      | 9449.40        | 9445.99           | 310.10                  | 21.47              | 21.39              | 27.82                 | 5817.97       | 5863.32       | 129.28 | MWD (Wft MWD Svy ST00) |      |
| 15600.00                                                                                                                      | 9449.15        | 9445.74           | 310.16                  | 21.47              | 21.39              | 27.82                 | 5917.85       | 5963.27       | 131.31 | MWD (Wft MWD Svy ST00) |      |
| 15700.00                                                                                                                      | 9448.91        | 9445.49           | 310.21                  | 21.47              | 21.39              | 27.82                 | 6017.74       | 6063.22       | 133.34 | MWD (Wft MWD Svy ST00) |      |
| 15800.00                                                                                                                      | 9448.67        | 9445.26           | 310.26                  | 21.47              | 21.39              | 27.82                 | 6117.63       | 6163.16       | 135.36 | MWD (Wft MWD Svy ST00) |      |
| 15900.00                                                                                                                      | 9448.44        | 9445.03           | 310.31                  | 21.47              | 21.39              | 27.82                 | 6217.52       | 6263.12       | 137.37 | MWD (Wft MWD Svy ST00) |      |
| 16000.00                                                                                                                      | 9448.22        | 9444.80           | 310.36                  | 21.47              | 21.39              | 27.82                 | 6317.42       | 6363.07       | 139.38 | MWD (Wft MWD Svy ST00) |      |
| 16100.00                                                                                                                      | 9448.00        | 9444.59           | 310.41                  | 21.47              | 21.39              | 27.81                 | 6417.31       | 6463.02       | 141.38 | MWD (Wft MWD Svy ST00) |      |
| 16200.00                                                                                                                      | 9447.79        | 9444.38           | 310.46                  | 21.47              | 21.39              | 27.81                 | 6517.20       | 6562.98       | 143.37 | MWD (Wft MWD Svy ST00) |      |
| 16300.00                                                                                                                      | 9447.59        | 9444.17           | 310.50                  | 21.47              | 21.39              | 27.81                 | 6617.10       | 6662.94       | 145.35 | MWD (Wft MWD Svy ST00) |      |
| 16400.00                                                                                                                      | 9447.39        | 9443.97           | 310.55                  | 21.47              | 21.39              | 27.81                 | 6716.99       | 6762.89       | 147.33 | MWD (Wft MWD Svy ST00) |      |
| 16500.00                                                                                                                      | 9447.19        | 9443.78           | 310.59                  | 21.47              | 21.39              | 27.81                 | 6816.88       | 6862.85       | 149.29 | MWD (Wft MWD Svy ST00) |      |
| 16600.00                                                                                                                      | 9447.00        | 9443.59           | 310.63                  | 21.47              | 21.39              | 27.81                 | 6916.78       | 6962.81       | 151.25 | MWD (Wft MWD Svy ST00) |      |
| 16700.00                                                                                                                      | 9446.82        | 9443.40           | 310.67                  | 21.47              | 21.39              | 27.81                 | 7016.67       | 7062.77       | 153.21 | MWD (Wft MWD Svy ST00) |      |
| 16800.00                                                                                                                      | 9446.64        | 9443.22           | 310.71                  | 21.47              | 21.39              | 27.81                 | 7116.57       | 7162.74       | 155.15 | MWD (Wft MWD Svy ST00) |      |
| 16900.00                                                                                                                      | 9446.46        | 9443.05           | 310.75                  | 21.47              | 21.39              | 27.81                 | 7216.47       | 7262.70       | 157.08 | MWD (Wft MWD Svy ST00) |      |
| 17000.00                                                                                                                      | 9446.29        | 9442.87           | 310.79                  | 21.47              | 21.39              | 27.81                 | 7316.36       | 7362.66       | 159.01 | MWD (Wft MWD Svy ST00) |      |
| 17100.00                                                                                                                      | 9446.12        | 9442.71           | 310.83                  | 21.47              | 21.39              | 27.81                 | 7416.26       | 7462.63       | 160.93 | MWD (Wft MWD Svy ST00) |      |
| 17200.00                                                                                                                      | 9445.96        | 9442.54           | 310.86                  | 21.47              | 21.39              | 27.80                 | 7516.15       | 7562.59       | 162.84 | MWD (Wft MWD Svy ST00) |      |
| 17203.00                                                                                                                      | 9445.96        | 9442.54           | 310.86                  | 21.47              | 21.39              | 27.80                 | 7519.16       | 7565.60       | 162.90 | MWD (Wft MWD Svy ST00) |      |

| Secondary Well: Fighting Okra 18-19 Fed 71H Lat (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |        |             |      |
|-----------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|--------|-------------|------|
| Pri MD<br>(US ft)                                                                                                           | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool | Risk |
| 0.00                                                                                                                        | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 12143.64      | 12165.11      | 566.80 | MWD         |      |
| 100.00                                                                                                                      | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 12043.00      | 12066.72      | 508.62 | MWD         |      |
| 200.00                                                                                                                      | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 11944.63      | 11968.36      | 504.25 | MWD         |      |
| 300.00                                                                                                                      | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 11846.28      | 11870.03      | 499.77 | MWD         |      |
| 400.00                                                                                                                      | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 11747.96      | 11771.73      | 495.17 | MWD         |      |
| 500.00                                                                                                                      | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 11649.66      | 11673.46      | 490.48 | MWD         |      |
| 600.00                                                                                                                      | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 11551.38      | 11575.22      | 485.60 | MWD         |      |
| 700.00                                                                                                                      | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 11453.12      | 11477.00      | 480.59 | MWD         |      |
| 800.00                                                                                                                      | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 11354.89      | 11378.82      | 475.52 | MWD         |      |
| 900.00                                                                                                                      | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 11256.69      | 11280.67      | 470.38 | MWD         |      |
| 1000.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 11158.51      | 11182.55      | 465.19 | MWD         |      |



## 5D Anti-Collision Report

| Secondary Well: Fighting Okra 18-19 Fed 71H Lat (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |        |             |      |
|-----------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|--------|-------------|------|
| Pri MD<br>(US ft)                                                                                                           | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool | Risk |
| 6900.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 5482.28       | 5514.64       | 170.45 | MWD         |      |
| 7000.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 5390.23       | 5422.84       | 166.29 | MWD         |      |
| 7100.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 5298.46       | 5331.34       | 162.19 | MWD         |      |
| 7200.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 5207.01       | 5240.14       | 158.14 | MWD         |      |
| 7300.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 5115.87       | 5149.28       | 154.15 | MWD         |      |
| 7400.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 5025.08       | 5058.76       | 150.22 | MWD         |      |
| 7500.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 4934.65       | 4968.60       | 146.34 | MWD         |      |
| 7600.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 4844.59       | 4878.83       | 142.52 | MWD         |      |
| 7700.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 4754.94       | 4789.46       | 138.76 | MWD         |      |
| 7800.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 4665.71       | 4700.52       | 135.06 | MWD         |      |
| 7900.00                                                                                                                     | 11970.19       | 11973.07          | 5.34                    | 26.40              | 26.08              | 41.46                 | 4576.94       | 4612.03       | 131.42 | MWD         |      |
| 8000.00                                                                                                                     | 12515.00       | 14472.72          | 89.58                   | 46.98              | 26.99              | 53.99                 | 4476.70       | 4515.07       | 117.66 | MWD         |      |
| 8100.00                                                                                                                     | 12515.00       | 14472.72          | 89.58                   | 46.98              | 26.99              | 53.99                 | 4376.50       | 4415.07       | 114.47 | MWD         |      |
| 8200.00                                                                                                                     | 12515.00       | 14472.72          | 89.58                   | 46.98              | 26.99              | 53.99                 | 4276.31       | 4315.07       | 111.31 | MWD         |      |
| 8300.00                                                                                                                     | 12515.00       | 14472.72          | 89.58                   | 46.98              | 26.99              | 53.99                 | 4176.11       | 4215.08       | 108.18 | MWD         |      |
| 8400.00                                                                                                                     | 12515.00       | 14472.72          | 89.58                   | 46.98              | 26.99              | 53.99                 | 4075.91       | 4115.08       | 105.07 | MWD         |      |
| 8500.00                                                                                                                     | 12515.00       | 14472.72          | 89.58                   | 46.98              | 26.99              | 53.99                 | 3975.71       | 4015.08       | 101.98 | MWD         |      |
| 8600.00                                                                                                                     | 12515.00       | 14472.72          | 89.58                   | 46.98              | 26.99              | 53.99                 | 3875.50       | 3915.08       | 98.92  | MWD         |      |
| 8700.00                                                                                                                     | 12515.00       | 14472.72          | 89.58                   | 46.98              | 26.99              | 53.99                 | 3775.29       | 3815.08       | 95.88  | MWD         |      |
| 8800.00                                                                                                                     | 12515.00       | 14472.72          | 89.58                   | 46.98              | 26.99              | 53.99                 | 3675.08       | 3715.08       | 92.87  | MWD         |      |
| 8900.00                                                                                                                     | 12515.00       | 14472.72          | 89.58                   | 46.98              | 26.99              | 53.99                 | 3574.87       | 3615.09       | 89.88  | MWD         |      |
| 9000.00                                                                                                                     | 12515.00       | 14472.72          | 89.58                   | 46.98              | 26.99              | 53.99                 | 3474.65       | 3515.09       | 86.92  | MWD         |      |
| 9100.00                                                                                                                     | 12515.00       | 14481.25          | 182.43                  | 47.11              | 27.03              | 54.06                 | 3374.89       | 3415.58       | 83.94  | MWD         |      |
| 9200.00                                                                                                                     | 12515.00       | 14506.92          | 181.26                  | 47.49              | 27.13              | 54.27                 | 3278.09       | 3319.07       | 80.99  | MWD         |      |
| 9300.00                                                                                                                     | 12515.00       | 14548.96          | 180.89                  | 48.12              | 27.31              | 54.64                 | 3187.21       | 3228.48       | 78.23  | MWD         |      |
| 9400.00                                                                                                                     | 12515.00       | 14606.10          | 180.71                  | 48.98              | 27.56              | 55.13                 | 3104.82       | 3146.57       | 75.38  | MWD         |      |
| 9500.00                                                                                                                     | 12515.00       | 14676.59          | 180.61                  | 50.06              | 27.87              | 55.75                 | 3033.63       | 3075.82       | 72.90  | MWD         |      |
| 9600.00                                                                                                                     | 12515.00       | 14758.30          | 180.55                  | 51.32              | 28.24              | 56.48                 | 2975.75       | 3018.39       | 70.79  | MWD         |      |
| 9700.00                                                                                                                     | 12514.88       | 14855.44          | 180.51                  | 52.83              | 28.69              | 57.38                 | 2932.62       | 2975.90       | 68.76  | MWD         |      |
| 9800.00                                                                                                                     | 12514.66       | 14951.80          | 180.49                  | 54.35              | 29.14              | 58.28                 | 2905.87       | 2949.66       | 67.36  | MWD         |      |
| 9900.00                                                                                                                     | 12514.44       | 15051.26          | 180.48                  | 55.93              | 29.62              | 59.24                 | 2896.08       | 2940.55       | 66.12  | MWD         |      |
| 10000.00                                                                                                                    | 12514.21       | 15151.26          | 180.48                  | 57.54              | 30.11              | 60.22                 | 2895.14       | 2940.33       | 65.07  | MWD         |      |
| 10100.00                                                                                                                    | 12513.99       | 15251.26          | 180.48                  | 59.15              | 30.61              | 61.23                 | 2894.22       | 2940.10       | 64.07  | MWD         |      |
| 10200.00                                                                                                                    | 12513.76       | 15351.26          | 180.48                  | 60.78              | 31.12              | 62.25                 | 2893.28       | 2939.88       | 63.09  | MWD         |      |
| 10300.00                                                                                                                    | 12513.54       | 15451.26          | 180.48                  | 62.42              | 31.64              | 63.28                 | 2892.28       | 2939.65       | 62.06  | MWD         |      |
| 10400.00                                                                                                                    | 12513.31       | 15551.26          | 180.48                  | 64.07              | 32.17              | 64.34                 | 2891.17       | 2939.43       | 60.91  | MWD         |      |
| 10500.00                                                                                                                    | 12513.09       | 15651.26          | 180.48                  | 65.73              | 32.71              | 65.41                 | 2890.04       | 2939.20       | 59.78  | MWD         |      |
| 10600.00                                                                                                                    | 12512.86       | 15751.26          | 180.48                  | 67.39              | 33.25              | 66.49                 | 2888.89       | 2938.97       | 58.67  | MWD         |      |
| 10700.00                                                                                                                    | 12512.63       | 15851.26          | 180.49                  | 69.07              | 33.80              | 67.59                 | 2887.71       | 2938.75       | 57.58  | MWD         |      |
| 10800.00                                                                                                                    | 12512.41       | 15951.26          | 180.49                  | 70.75              | 34.36              | 68.71                 | 2886.52       | 2938.52       | 56.50  | MWD         |      |
| 10900.00                                                                                                                    | 12512.18       | 16051.26          | 180.49                  | 72.44              | 34.92              | 69.83                 | 2885.30       | 2938.30       | 55.44  | MWD         |      |
| 11000.00                                                                                                                    | 12511.96       | 16151.26          | 180.49                  | 74.14              | 35.49              | 70.97                 | 2884.06       | 2938.07       | 54.39  | MWD         |      |
| 11100.00                                                                                                                    | 12511.73       | 16251.26          | 180.49                  | 75.84              | 36.07              | 72.12                 | 2882.80       | 2937.85       | 53.37  | MWD         |      |
| 11200.00                                                                                                                    | 12511.51       | 16351.26          | 180.49                  | 77.55              | 36.65              | 73.29                 | 2881.53       | 2937.62       | 52.37  | MWD         |      |
| 11300.00                                                                                                                    | 12511.28       | 16451.26          | 180.49                  | 79.27              | 37.23              | 74.46                 | 2880.25       | 2937.40       | 51.40  | MWD         |      |
| 11400.00                                                                                                                    | 12511.06       | 16551.26          | 180.49                  | 80.98              | 37.82              | 75.64                 | 2878.93       | 2937.17       | 50.43  | MWD         |      |
| 11500.00                                                                                                                    | 12510.83       | 16651.26          | 180.49                  | 82.71              | 38.42              | 76.83                 | 2877.54       | 2936.95       | 49.44  | MWD         |      |
| 11600.00                                                                                                                    | 12510.61       | 16751.26          | 180.49                  | 84.44              | 39.02              | 78.04                 | 2876.19       | 2936.72       | 48.52  | MWD         |      |
| 11700.00                                                                                                                    | 12510.38       | 16851.26          | 180.49                  | 86.17              | 39.63              | 79.25                 | 2874.88       | 2936.50       | 47.65  | MWD         |      |
| 11800.00                                                                                                                    | 12510.16       | 16951.26          | 180.49                  | 87.90              | 40.24              | 80.47                 | 2873.46       | 2936.27       | 46.75  | MWD         |      |
| 11900.00                                                                                                                    | 12509.93       | 17051.26          | 180.49                  | 89.64              | 40.85              | 81.70                 | 2872.05       | 2936.05       | 45.88  | MWD         |      |
| 12000.00                                                                                                                    | 12509.71       | 17151.26          | 180.49                  | 91.39              | 41.47              | 82.93                 | 2870.70       | 2935.82       | 45.08  | MWD         |      |
| 12100.00                                                                                                                    | 12509.48       | 17251.26          | 180.49                  | 93.13              | 42.09              | 84.17                 | 2869.25       | 2935.60       | 44.25  | MWD         |      |
| 12200.00                                                                                                                    | 12509.26       | 17351.26          | 180.49                  | 94.88              | 42.72              | 85.43                 | 2867.77       | 2935.37       | 43.42  | MWD         |      |
| 12300.00                                                                                                                    | 12509.03       | 17451.26          | 180.49                  | 96.63              | 43.35              | 86.68                 | 2866.29       | 2935.15       | 42.62  | MWD         |      |
| 12400.00                                                                                                                    | 12508.81       | 17551.26          | 180.49                  | 98.39              | 43.98              | 87.95                 | 2864.80       | 2934.92       | 41.85  | MWD         |      |
| 12500.00                                                                                                                    | 12508.58       | 17651.26          | 180.49                  | 100.15             | 44.61              | 89.22                 | 2863.31       | 2934.70       | 41.11  | MWD         |      |
| 12600.00                                                                                                                    | 12508.36       | 17751.25          | 180.49                  | 101.91             | 45.25              | 90.49                 | 2861.81       | 2934.47       | 40.39  | MWD         |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra 18-19 Fed 71H Lat (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |             |      |
|-----------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|-------------|------|
| Pri MD<br>(US ft)                                                                                                           | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool | Risk |
| 12700.00                                                                                                                    | 12508.13       | 17851.25          | 180.49                  | 103.67             | 45.89              | 91.77                 | 2860.30       | 2934.24       | 39.68 | MWD         |      |
| 12800.00                                                                                                                    | 12507.90       | 17951.25          | 180.49                  | 105.43             | 46.53              | 93.06                 | 2858.79       | 2934.02       | 39.00 | MWD         |      |
| 12900.00                                                                                                                    | 12507.68       | 18051.25          | 180.49                  | 107.20             | 47.18              | 94.35                 | 2857.27       | 2933.79       | 38.34 | MWD         |      |
| 13000.00                                                                                                                    | 12507.45       | 18151.25          | 180.49                  | 108.97             | 47.83              | 95.65                 | 2855.75       | 2933.57       | 37.70 | MWD         |      |
| 13100.00                                                                                                                    | 12507.23       | 18251.25          | 180.49                  | 110.74             | 48.48              | 96.95                 | 2854.22       | 2933.34       | 37.07 | MWD         |      |
| 13200.00                                                                                                                    | 12507.00       | 18351.25          | 180.49                  | 112.51             | 49.13              | 98.26                 | 2852.68       | 2933.12       | 36.46 | MWD         |      |
| 13300.00                                                                                                                    | 12506.78       | 18451.25          | 180.49                  | 114.28             | 49.79              | 99.57                 | 2851.14       | 2932.89       | 35.87 | MWD         |      |
| 13400.00                                                                                                                    | 12506.55       | 18551.25          | 180.49                  | 116.06             | 50.45              | 100.88                | 2849.59       | 2932.67       | 35.30 | MWD         |      |
| 13500.00                                                                                                                    | 12506.33       | 18651.25          | 180.49                  | 117.84             | 51.11              | 102.20                | 2848.04       | 2932.44       | 34.74 | MWD         |      |
| 13600.00                                                                                                                    | 12506.10       | 18751.25          | 180.49                  | 119.62             | 51.77              | 103.53                | 2846.49       | 2932.22       | 34.20 | MWD         |      |
| 13700.00                                                                                                                    | 12505.88       | 18851.25          | 180.49                  | 121.40             | 52.43              | 104.85                | 2844.93       | 2931.99       | 33.68 | MWD         |      |
| 13800.00                                                                                                                    | 12505.65       | 18951.25          | 180.49                  | 123.18             | 53.10              | 106.18                | 2843.36       | 2931.77       | 33.16 | MWD         |      |
| 13900.00                                                                                                                    | 12505.43       | 19051.25          | 180.49                  | 124.96             | 53.76              | 107.52                | 2841.79       | 2931.54       | 32.66 | MWD         |      |
| 14000.00                                                                                                                    | 12505.20       | 19151.25          | 180.49                  | 126.74             | 54.43              | 108.86                | 2840.22       | 2931.32       | 32.18 | MWD         |      |
| 14100.00                                                                                                                    | 12504.98       | 19251.25          | 180.49                  | 128.53             | 55.10              | 110.20                | 2838.64       | 2931.09       | 31.71 | MWD         |      |
| 14200.00                                                                                                                    | 12504.75       | 19351.25          | 180.49                  | 130.32             | 55.78              | 111.54                | 2837.06       | 2930.87       | 31.25 | MWD         |      |
| 14300.00                                                                                                                    | 12504.53       | 19451.25          | 180.49                  | 132.10             | 56.45              | 112.89                | 2835.48       | 2930.64       | 30.80 | MWD         |      |
| 14400.00                                                                                                                    | 12504.30       | 19551.25          | 180.49                  | 133.89             | 57.13              | 114.24                | 2833.89       | 2930.42       | 30.36 | MWD         |      |
| 14500.00                                                                                                                    | 12504.08       | 19651.25          | 180.49                  | 135.68             | 57.80              | 115.59                | 2832.30       | 2930.19       | 29.94 | MWD         |      |
| 14600.00                                                                                                                    | 12503.85       | 19751.25          | 180.49                  | 137.47             | 58.48              | 116.95                | 2830.71       | 2929.96       | 29.52 | MWD         |      |
| 14700.00                                                                                                                    | 12503.62       | 19851.25          | 180.49                  | 139.27             | 59.16              | 118.31                | 2829.12       | 2929.74       | 29.12 | MWD         |      |
| 14800.00                                                                                                                    | 12503.40       | 19951.25          | 180.49                  | 141.06             | 59.84              | 119.67                | 2827.52       | 2929.51       | 28.72 | MWD         |      |
| 14900.00                                                                                                                    | 12503.17       | 20051.25          | 180.49                  | 142.85             | 60.52              | 121.03                | 2825.92       | 2929.29       | 28.34 | MWD         |      |
| 15000.00                                                                                                                    | 12502.95       | 20151.25          | 180.49                  | 144.65             | 61.21              | 122.40                | 2824.32       | 2929.06       | 27.96 | MWD         |      |
| 15100.00                                                                                                                    | 12502.72       | 20251.25          | 180.49                  | 146.44             | 61.89              | 123.77                | 2822.71       | 2928.84       | 27.60 | MWD         |      |
| 15200.00                                                                                                                    | 12502.50       | 20351.25          | 180.49                  | 148.24             | 62.57              | 125.14                | 2821.10       | 2928.61       | 27.24 | MWD         |      |
| 15300.00                                                                                                                    | 12502.27       | 20451.25          | 180.49                  | 150.03             | 63.26              | 126.51                | 2819.49       | 2928.39       | 26.89 | MWD         |      |
| 15400.00                                                                                                                    | 12502.05       | 20551.25          | 180.49                  | 151.83             | 63.95              | 127.89                | 2817.88       | 2928.16       | 26.55 | MWD         |      |
| 15500.00                                                                                                                    | 12501.82       | 20651.25          | 180.49                  | 153.63             | 64.64              | 129.26                | 2816.27       | 2927.94       | 26.22 | MWD         |      |
| 15600.00                                                                                                                    | 12501.60       | 20751.25          | 180.49                  | 155.43             | 65.33              | 130.64                | 2814.65       | 2927.71       | 25.90 | MWD         |      |
| 15700.00                                                                                                                    | 12501.37       | 20851.25          | 180.49                  | 157.23             | 66.02              | 132.02                | 2813.03       | 2927.49       | 25.58 | MWD         |      |
| 15800.00                                                                                                                    | 12501.15       | 20951.25          | 180.49                  | 159.03             | 66.71              | 133.40                | 2811.41       | 2927.26       | 25.27 | MWD         |      |
| 15900.00                                                                                                                    | 12500.92       | 21051.25          | 180.49                  | 160.83             | 67.40              | 134.79                | 2809.79       | 2927.04       | 24.97 | MWD         |      |
| 16000.00                                                                                                                    | 12500.70       | 21151.25          | 180.49                  | 162.63             | 68.09              | 136.17                | 2808.17       | 2926.81       | 24.67 | MWD         |      |
| 16100.00                                                                                                                    | 12500.47       | 21251.25          | 180.49                  | 164.43             | 68.79              | 137.56                | 2806.55       | 2926.59       | 24.38 | MWD         |      |
| 16200.00                                                                                                                    | 12500.25       | 21351.25          | 180.49                  | 166.23             | 69.48              | 138.95                | 2804.92       | 2926.36       | 24.10 | MWD         |      |
| 16300.00                                                                                                                    | 12500.02       | 21451.25          | 180.49                  | 168.04             | 70.18              | 140.34                | 2803.29       | 2926.14       | 23.82 | MWD         |      |
| 16400.00                                                                                                                    | 12499.80       | 21551.25          | 180.49                  | 169.84             | 70.87              | 141.73                | 2801.66       | 2925.91       | 23.55 | MWD         |      |
| 16500.00                                                                                                                    | 12499.57       | 21651.25          | 180.49                  | 171.65             | 71.57              | 143.13                | 2800.03       | 2925.68       | 23.28 | MWD         |      |
| 16600.00                                                                                                                    | 12499.35       | 21751.24          | 180.49                  | 173.45             | 72.27              | 144.52                | 2798.40       | 2925.46       | 23.02 | MWD         |      |
| 16700.00                                                                                                                    | 12499.12       | 21851.24          | 180.49                  | 175.25             | 72.97              | 145.92                | 2796.77       | 2925.23       | 22.77 | MWD         |      |
| 16800.00                                                                                                                    | 12498.89       | 21951.24          | 180.49                  | 177.06             | 73.67              | 147.32                | 2795.13       | 2925.01       | 22.52 | MWD         |      |
| 16900.00                                                                                                                    | 12498.67       | 22051.24          | 180.49                  | 178.87             | 74.37              | 148.72                | 2793.50       | 2924.78       | 22.28 | MWD         |      |
| 17000.00                                                                                                                    | 12498.44       | 22151.24          | 180.49                  | 180.67             | 75.07              | 150.12                | 2791.86       | 2924.56       | 22.04 | MWD         |      |
| 17100.00                                                                                                                    | 12498.22       | 22251.24          | 180.49                  | 182.48             | 75.77              | 151.52                | 2790.22       | 2924.33       | 21.81 | MWD         |      |
| 17200.00                                                                                                                    | 12498.00       | 22347.61          | 180.49                  | 184.22             | 76.44              | 152.87                | 2788.61       | 2924.11       | 21.58 | MWD         |      |
| 17203.00                                                                                                                    | 12498.00       | 22347.61          | 180.49                  | 184.22             | 76.44              | 152.87                | 2788.60       | 2924.11       | 21.58 | MWD         |      |

| Secondary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |        |             |      |
|-------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|--------|-------------|------|
| Pri MD<br>(US ft)                                                                                                       | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF     | Survey Tool | Risk |
| 0.00                                                                                                                    | 5.00           | 0.00              | 359.58                  | 0.00               | 0.00               | 0.00                  | 79.45         | 80.10         | 123.23 | MWD         |      |
| 100.00                                                                                                                  | 100.00         | 95.00             | 359.58                  | 0.11               | 0.11               | 4.37                  | 79.08         | 79.94         | 92.41  | MWD         |      |
| 200.00                                                                                                                  | 200.00         | 195.00            | 359.58                  | 0.33               | 0.33               | 4.62                  | 78.63         | 79.94         | 61.07  | MWD         |      |
| 300.00                                                                                                                  | 300.00         | 295.00            | 359.58                  | 0.55               | 0.55               | 4.65                  | 78.18         | 79.94         | 45.46  | MWD         |      |
| 400.00                                                                                                                  | 400.00         | 395.00            | 359.58                  | 0.78               | 0.78               | 4.69                  | 77.73         | 79.94         | 36.20  | MWD         |      |
| 500.00                                                                                                                  | 500.00         | 495.00            | 359.58                  | 1.00               | 1.00               | 4.75                  | 77.28         | 79.94         | 30.08  | MWD         |      |
| 600.00                                                                                                                  | 600.00         | 595.00            | 359.58                  | 1.23               | 1.23               | 4.81                  | 76.84         | 79.94         | 25.73  | MWD         |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |             |      |
|-------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|-------------|------|
| Pri MD<br>(US ft)                                                                                                       | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool | Risk |
| 700.00                                                                                                                  | 700.00         | 695.00            | 359.58                  | 1.45               | 1.45               | 4.88                  | 76.39         | 79.94         | 22.48 | MWD         |      |
| 800.00                                                                                                                  | 800.00         | 795.00            | 359.58                  | 1.67               | 1.67               | 4.97                  | 75.94         | 79.94         | 19.95 | MWD         |      |
| 900.00                                                                                                                  | 900.00         | 895.00            | 359.58                  | 1.90               | 1.90               | 5.06                  | 75.49         | 79.94         | 17.94 | MWD         |      |
| 1000.00                                                                                                                 | 1000.00        | 995.00            | 359.58                  | 2.12               | 2.12               | 5.16                  | 75.04         | 79.94         | 16.30 | MWD         |      |
| 1100.00                                                                                                                 | 1100.00        | 1095.00           | 359.58                  | 2.35               | 2.35               | 5.26                  | 74.59         | 79.94         | 14.93 | MWD         |      |
| 1200.00                                                                                                                 | 1200.00        | 1195.00           | 359.58                  | 2.57               | 2.57               | 5.38                  | 74.14         | 79.94         | 13.77 | MWD         |      |
| 1300.00                                                                                                                 | 1300.00        | 1295.00           | 359.58                  | 2.80               | 2.80               | 5.49                  | 73.69         | 79.94         | 12.78 | MWD         |      |
| 1400.00                                                                                                                 | 1400.00        | 1395.00           | 359.58                  | 3.02               | 3.02               | 5.62                  | 73.24         | 79.94         | 11.93 | MWD         |      |
| 1500.00                                                                                                                 | 1500.00        | 1495.00           | 359.58                  | 3.25               | 3.25               | 5.75                  | 72.79         | 79.94         | 11.18 | MWD         |      |
| 1600.00                                                                                                                 | 1600.00        | 1595.00           | 359.58                  | 3.47               | 3.47               | 5.88                  | 72.34         | 79.94         | 10.51 | MWD         |      |
| 1700.00                                                                                                                 | 1700.00        | 1695.00           | 359.58                  | 3.70               | 3.70               | 6.02                  | 71.89         | 79.94         | 9.93  | MWD         |      |
| 1800.00                                                                                                                 | 1800.00        | 1795.00           | 359.58                  | 3.92               | 3.92               | 6.17                  | 71.44         | 79.94         | 9.40  | MWD         |      |
| 1900.00                                                                                                                 | 1900.00        | 1895.00           | 359.58                  | 4.15               | 4.15               | 6.31                  | 70.99         | 79.94         | 8.93  | MWD         |      |
| 2000.00                                                                                                                 | 2000.00        | 1995.00           | 359.58                  | 4.37               | 4.37               | 6.46                  | 70.54         | 79.94         | 8.50  | MWD         |      |
| 2100.00                                                                                                                 | 2100.00        | 2095.00           | 359.58                  | 4.60               | 4.60               | 6.62                  | 70.09         | 79.94         | 8.12  | MWD         |      |
| 2200.00                                                                                                                 | 2200.00        | 2195.00           | 359.58                  | 4.82               | 4.82               | 6.78                  | 69.64         | 79.94         | 7.76  | MWD         |      |
| 2300.00                                                                                                                 | 2300.00        | 2295.00           | 359.58                  | 5.05               | 5.05               | 6.94                  | 69.19         | 79.94         | 7.44  | MWD         |      |
| 2400.00                                                                                                                 | 2400.00        | 2395.00           | 359.58                  | 5.27               | 5.27               | 7.10                  | 68.74         | 79.94         | 7.14  | MWD         |      |
| 2500.00                                                                                                                 | 2500.00        | 2495.00           | 359.58                  | 5.50               | 5.50               | 7.27                  | 68.29         | 79.94         | 6.86  | MWD         |      |
| 2600.00                                                                                                                 | 2600.00        | 2595.00           | 359.58                  | 5.72               | 5.72               | 7.43                  | 67.84         | 79.94         | 6.61  | MWD         |      |
| 2700.00                                                                                                                 | 2700.00        | 2695.00           | 359.58                  | 5.95               | 5.95               | 7.61                  | 67.39         | 79.94         | 6.37  | MWD         |      |
| 2800.00                                                                                                                 | 2800.00        | 2795.00           | 359.58                  | 6.17               | 6.17               | 7.78                  | 66.94         | 79.94         | 6.15  | MWD         |      |
| 2900.00                                                                                                                 | 2900.00        | 2895.00           | 359.58                  | 6.40               | 6.40               | 7.96                  | 66.50         | 79.94         | 5.94  | MWD         |      |
| 3000.00                                                                                                                 | 3000.00        | 2995.00           | 359.58                  | 6.62               | 6.62               | 8.14                  | 66.05         | 79.94         | 5.75  | MWD         |      |
| 3100.00                                                                                                                 | 3100.00        | 3095.00           | 359.58                  | 6.84               | 6.84               | 8.32                  | 65.60         | 79.94         | 5.57  | MWD         |      |
| 3200.00                                                                                                                 | 3200.00        | 3195.00           | 359.58                  | 7.07               | 7.07               | 8.51                  | 65.15         | 79.94         | 5.40  | MWD         |      |
| 3300.00                                                                                                                 | 3300.00        | 3295.00           | 359.58                  | 7.29               | 7.29               | 8.69                  | 64.70         | 79.94         | 5.24  | MWD         |      |
| 3400.00                                                                                                                 | 3398.68        | 3393.69           | 359.55                  | 7.52               | 7.52               | 8.88                  | 65.04         | 80.72         | 5.15  | MWD         |      |
| 3500.00                                                                                                                 | 3497.21        | 3492.25           | 359.46                  | 7.74               | 7.73               | 9.07                  | 67.09         | 83.21         | 5.16  | MWD         |      |
| 3600.00                                                                                                                 | 3595.57        | 3590.70           | 359.32                  | 7.96               | 7.95               | 9.26                  | 70.88         | 87.42         | 5.29  | MWD         |      |
| 3700.00                                                                                                                 | 3693.67        | 3688.97           | 359.14                  | 8.18               | 8.17               | 9.46                  | 76.36         | 93.34         | 5.50  | MWD         |      |
| 3800.00                                                                                                                 | 3791.44        | 3787.02           | 358.95                  | 8.40               | 8.38               | 9.65                  | 83.56         | 100.97        | 5.80  | MWD         |      |
| 3900.00                                                                                                                 | 3889.25        | 3885.26           | 358.75                  | 8.62               | 8.59               | 9.85                  | 92.41         | 110.25        | 6.18  | MWD         |      |
| 4000.00                                                                                                                 | 3988.30        | 3984.78           | 358.57                  | 8.85               | 8.82               | 10.05                 | 101.74        | 120.00        | 6.57  | MWD         |      |
| 4100.00                                                                                                                 | 4087.34        | 4084.31           | 358.41                  | 9.08               | 9.04               | 10.26                 | 111.03        | 129.75        | 6.93  | MWD         |      |
| 4200.00                                                                                                                 | 4186.39        | 4183.83           | 358.28                  | 9.32               | 9.27               | 10.48                 | 120.33        | 139.51        | 7.27  | MWD         |      |
| 4300.00                                                                                                                 | 4285.44        | 4283.35           | 358.16                  | 9.56               | 9.49               | 10.69                 | 129.64        | 149.26        | 7.61  | MWD         |      |
| 4400.00                                                                                                                 | 4384.49        | 4382.87           | 358.06                  | 9.80               | 9.72               | 10.91                 | 138.96        | 159.02        | 7.93  | MWD         |      |
| 4500.00                                                                                                                 | 4483.53        | 4482.40           | 357.97                  | 10.04              | 9.95               | 11.13                 | 148.27        | 168.78        | 8.23  | MWD         |      |
| 4600.00                                                                                                                 | 4582.58        | 4581.92           | 357.90                  | 10.28              | 10.17              | 11.36                 | 157.59        | 178.53        | 8.52  | MWD         |      |
| 4700.00                                                                                                                 | 4681.63        | 4681.44           | 357.82                  | 10.53              | 10.40              | 11.59                 | 166.89        | 188.29        | 8.80  | MWD         |      |
| 4800.00                                                                                                                 | 4780.68        | 4780.96           | 357.76                  | 10.78              | 10.63              | 11.82                 | 176.19        | 198.05        | 9.06  | MWD         |      |
| 4900.00                                                                                                                 | 4879.72        | 4880.49           | 357.70                  | 11.02              | 10.86              | 12.06                 | 185.50        | 207.81        | 9.31  | MWD         |      |
| 5000.00                                                                                                                 | 4978.77        | 4980.01           | 357.65                  | 11.27              | 11.08              | 12.30                 | 194.80        | 217.56        | 9.56  | MWD         |      |
| 5100.00                                                                                                                 | 5077.82        | 5079.53           | 357.60                  | 11.53              | 11.31              | 12.54                 | 204.10        | 227.32        | 9.79  | MWD         |      |
| 5200.00                                                                                                                 | 5176.87        | 5179.05           | 357.56                  | 11.78              | 11.54              | 12.79                 | 213.41        | 237.08        | 10.02 | MWD         |      |
| 5300.00                                                                                                                 | 5275.91        | 5278.58           | 357.51                  | 12.03              | 11.77              | 13.04                 | 222.71        | 246.84        | 10.23 | MWD         |      |
| 5400.00                                                                                                                 | 5374.96        | 5378.10           | 357.48                  | 12.29              | 12.00              | 13.30                 | 232.02        | 256.60        | 10.44 | MWD         |      |
| 5500.00                                                                                                                 | 5474.01        | 5477.62           | 357.44                  | 12.54              | 12.23              | 13.55                 | 241.32        | 266.35        | 10.64 | MWD         |      |
| 5600.00                                                                                                                 | 5573.06        | 5577.14           | 357.41                  | 12.80              | 12.46              | 13.82                 | 250.63        | 276.11        | 10.83 | MWD         |      |
| 5700.00                                                                                                                 | 5672.10        | 5676.67           | 357.38                  | 13.06              | 12.69              | 14.09                 | 259.93        | 285.87        | 11.02 | MWD         |      |
| 5800.00                                                                                                                 | 5771.15        | 5776.19           | 357.35                  | 13.32              | 12.92              | 14.36                 | 269.24        | 295.63        | 11.20 | MWD         |      |
| 5900.00                                                                                                                 | 5870.20        | 5875.71           | 357.32                  | 13.58              | 13.15              | 14.63                 | 278.54        | 305.39        | 11.38 | MWD         |      |
| 6000.00                                                                                                                 | 5969.25        | 5975.23           | 357.30                  | 13.84              | 13.38              | 14.92                 | 287.85        | 315.15        | 11.54 | MWD         |      |
| 6100.00                                                                                                                 | 6068.29        | 6074.76           | 357.28                  | 14.10              | 13.61              | 15.20                 | 297.15        | 324.91        | 11.71 | MWD         |      |
| 6200.00                                                                                                                 | 6167.34        | 6174.28           | 357.25                  | 14.36              | 13.84              | 15.49                 | 306.46        | 334.66        | 11.86 | MWD         |      |
| 6300.00                                                                                                                 | 6266.39        | 6273.80           | 357.23                  | 14.63              | 14.07              | 15.78                 | 315.76        | 344.42        | 12.02 | MWD         |      |
| 6400.00                                                                                                                 | 6365.44        | 6373.33           | 357.21                  | 14.89              | 14.30              | 16.08                 | 325.07        | 354.18        | 12.16 | MWD         |      |

Last Update: 10/24/2017 10:10:10 AM

2017-10-24 10:10:10 AM

6 September 2017 14:30:11 21.5

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |             |      |
|-------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|-------------|------|
| Pri MD<br>(US ft)                                                                                                       | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool | Risk |
| 6500.00                                                                                                                 | 6464.48        | 6472.85           | 357.20                  | 15.15              | 14.53              | 16.39                 | 334.37        | 363.94        | 12.31 | MWD         |      |
| 6600.00                                                                                                                 | 6563.53        | 6572.37           | 357.18                  | 15.42              | 14.76              | 16.69                 | 343.68        | 373.70        | 12.45 | MWD         |      |
| 6700.00                                                                                                                 | 6662.58        | 6671.89           | 357.16                  | 15.68              | 14.99              | 17.01                 | 352.98        | 383.46        | 12.58 | MWD         |      |
| 6800.00                                                                                                                 | 6761.63        | 6771.42           | 357.14                  | 15.95              | 15.22              | 17.32                 | 362.28        | 393.22        | 12.71 | MWD         |      |
| 6900.00                                                                                                                 | 6860.67        | 6870.94           | 357.13                  | 16.22              | 15.45              | 17.65                 | 371.59        | 402.98        | 12.84 | MWD         |      |
| 7000.00                                                                                                                 | 6959.72        | 6970.46           | 357.12                  | 16.48              | 15.68              | 17.97                 | 380.89        | 412.74        | 12.96 | MWD         |      |
| 7100.00                                                                                                                 | 7058.77        | 7069.98           | 357.10                  | 16.75              | 15.92              | 18.30                 | 390.20        | 422.50        | 13.08 | MWD         |      |
| 7200.00                                                                                                                 | 7157.82        | 7169.51           | 357.09                  | 17.02              | 16.15              | 18.64                 | 399.50        | 432.26        | 13.20 | MWD         |      |
| 7300.00                                                                                                                 | 7256.86        | 7269.03           | 357.08                  | 17.28              | 16.38              | 18.98                 | 408.81        | 442.01        | 13.31 | MWD         |      |
| 7400.00                                                                                                                 | 7355.91        | 7368.55           | 357.06                  | 17.55              | 16.61              | 19.33                 | 418.11        | 451.77        | 13.42 | MWD         |      |
| 7500.00                                                                                                                 | 7454.96        | 7468.07           | 357.05                  | 17.82              | 16.84              | 19.68                 | 427.42        | 461.53        | 13.53 | MWD         |      |
| 7600.00                                                                                                                 | 7554.01        | 7567.60           | 357.04                  | 18.09              | 17.07              | 20.04                 | 436.72        | 471.29        | 13.63 | MWD         |      |
| 7700.00                                                                                                                 | 7653.05        | 7667.12           | 357.03                  | 18.36              | 17.30              | 20.40                 | 446.02        | 481.05        | 13.73 | MWD         |      |
| 7800.00                                                                                                                 | 7752.10        | 7766.64           | 357.02                  | 18.63              | 17.54              | 20.77                 | 455.33        | 490.81        | 13.83 | MWD         |      |
| 7900.00                                                                                                                 | 7851.15        | 7866.16           | 357.01                  | 18.90              | 17.77              | 21.14                 | 464.63        | 500.57        | 13.93 | MWD         |      |
| 8000.00                                                                                                                 | 7950.20        | 7965.69           | 357.00                  | 19.17              | 18.00              | 21.52                 | 473.94        | 510.33        | 14.02 | MWD         |      |
| 8100.00                                                                                                                 | 8049.24        | 8065.21           | 356.99                  | 19.44              | 18.23              | 21.90                 | 483.24        | 520.09        | 14.11 | MWD         |      |
| 8200.00                                                                                                                 | 8148.29        | 8164.73           | 356.98                  | 19.71              | 18.46              | 22.29                 | 492.55        | 529.85        | 14.20 | MWD         |      |
| 8300.00                                                                                                                 | 8247.34        | 8264.25           | 356.98                  | 19.98              | 18.70              | 22.69                 | 501.85        | 539.61        | 14.29 | MWD         |      |
| 8400.00                                                                                                                 | 8346.39        | 8363.78           | 356.97                  | 20.25              | 18.93              | 23.09                 | 511.15        | 549.37        | 14.38 | MWD         |      |
| 8500.00                                                                                                                 | 8445.43        | 8463.30           | 356.96                  | 20.52              | 19.16              | 23.49                 | 520.46        | 559.13        | 14.46 | MWD         |      |
| 8600.00                                                                                                                 | 8544.48        | 8562.82           | 356.95                  | 20.79              | 19.39              | 23.90                 | 529.76        | 568.89        | 14.54 | MWD         |      |
| 8700.00                                                                                                                 | 8643.53        | 8662.34           | 356.94                  | 21.07              | 19.62              | 24.32                 | 539.07        | 578.65        | 14.62 | MWD         |      |
| 8800.00                                                                                                                 | 8742.57        | 8761.87           | 356.94                  | 21.34              | 19.86              | 24.74                 | 548.37        | 588.40        | 14.70 | MWD         |      |
| 8900.00                                                                                                                 | 8841.62        | 8861.39           | 356.93                  | 21.61              | 20.09              | 25.17                 | 557.67        | 598.16        | 14.77 | MWD         |      |
| 9000.00                                                                                                                 | 8940.67        | 8960.91           | 356.92                  | 21.88              | 20.32              | 25.60                 | 566.98        | 607.92        | 14.85 | MWD         |      |
| 9100.00                                                                                                                 | 9038.45        | 9059.17           | 177.29                  | 22.15              | 20.55              | 26.03                 | 584.76        | 626.11        | 15.14 | MWD         |      |
| 9200.00                                                                                                                 | 9143.78        | 9164.91           | 177.23                  | 22.39              | 20.76              | 26.50                 | 618.41        | 660.18        | 15.80 | MWD         |      |
| 9300.00                                                                                                                 | 9242.80        | 9264.17           | 177.15                  | 22.59              | 20.93              | 26.95                 | 666.32        | 708.47        | 16.81 | MWD         |      |
| 9400.00                                                                                                                 | 9333.04        | 9354.55           | 177.00                  | 22.76              | 21.09              | 27.37                 | 727.41        | 769.90        | 18.12 | MWD         |      |
| 9500.00                                                                                                                 | 10175.78       | 10775.74          | 179.42                  | 23.62              | 16.35              | 32.78                 | 705.92        | 736.68        | 23.94 | MWD         |      |
| 9600.00                                                                                                                 | 10177.55       | 10858.62          | 179.68                  | 24.10              | 16.56              | 33.22                 | 649.90        | 681.00        | 21.90 | MWD         |      |
| 9700.00                                                                                                                 | 10179.53       | 10952.72          | 179.94                  | 24.73              | 16.84              | 33.76                 | 609.06        | 640.54        | 20.35 | MWD         |      |
| 9800.00                                                                                                                 | 10180.00       | 11060.03          | 180.00                  | 25.54              | 17.22              | 34.43                 | 582.89        | 614.89        | 19.22 | MWD         |      |
| 9900.00                                                                                                                 | 10180.00       | 11159.50          | 180.00                  | 26.42              | 17.55              | 35.11                 | 573.49        | 606.00        | 18.64 | MWD         |      |
| 10000.00                                                                                                                | 10180.00       | 11259.50          | 180.00                  | 27.41              | 17.92              | 35.83                 | 572.93        | 606.00        | 18.33 | MWD         |      |
| 10100.00                                                                                                                | 10180.00       | 11359.50          | 180.00                  | 28.48              | 18.30              | 36.60                 | 572.35        | 606.00        | 18.01 | MWD         |      |
| 10200.00                                                                                                                | 10180.00       | 11459.50          | 180.00                  | 29.63              | 18.70              | 37.41                 | 571.74        | 606.00        | 17.69 | MWD         |      |
| 10300.00                                                                                                                | 10180.00       | 11559.50          | 180.00                  | 30.84              | 19.13              | 38.26                 | 570.98        | 606.00        | 17.30 | MWD         |      |
| 10400.00                                                                                                                | 10180.00       | 11659.50          | 180.00                  | 32.11              | 19.57              | 39.14                 | 570.20        | 606.00        | 16.93 | MWD         |      |
| 10500.00                                                                                                                | 10180.00       | 11759.50          | 180.00                  | 33.43              | 20.03              | 40.06                 | 569.45        | 606.00        | 16.58 | MWD         |      |
| 10600.00                                                                                                                | 10180.00       | 11859.50          | 180.00                  | 34.80              | 20.51              | 41.02                 | 568.59        | 606.00        | 16.20 | MWD         |      |
| 10700.00                                                                                                                | 10180.00       | 11959.50          | 180.00                  | 36.21              | 21.00              | 42.00                 | 567.68        | 606.00        | 15.81 | MWD         |      |
| 10800.00                                                                                                                | 10180.00       | 12059.50          | 180.00                  | 37.65              | 21.50              | 43.01                 | 566.83        | 606.00        | 15.47 | MWD         |      |
| 10900.00                                                                                                                | 10180.00       | 12159.50          | 180.00                  | 39.13              | 22.02              | 44.04                 | 565.82        | 606.00        | 15.08 | MWD         |      |
| 11000.00                                                                                                                | 10180.00       | 12259.50          | 180.00                  | 40.63              | 22.55              | 45.10                 | 564.85        | 606.00        | 14.72 | MWD         |      |
| 11100.00                                                                                                                | 10180.00       | 12359.50          | 180.00                  | 42.16              | 23.09              | 46.18                 | 563.89        | 606.00        | 14.39 | MWD         |      |
| 11200.00                                                                                                                | 10180.00       | 12459.50          | 180.00                  | 43.72              | 23.64              | 47.28                 | 562.80        | 606.00        | 14.03 | MWD         |      |
| 11300.00                                                                                                                | 10180.00       | 12559.50          | 180.00                  | 45.29              | 24.20              | 48.40                 | 561.76        | 606.00        | 13.70 | MWD         |      |
| 11400.00                                                                                                                | 10180.00       | 12659.50          | 180.00                  | 46.88              | 24.77              | 49.54                 | 560.75        | 606.00        | 13.39 | MWD         |      |
| 11500.00                                                                                                                | 10180.00       | 12759.50          | 180.00                  | 48.49              | 25.35              | 50.70                 | 559.56        | 606.00        | 13.05 | MWD         |      |
| 11600.00                                                                                                                | 10180.00       | 12859.50          | 180.00                  | 50.12              | 25.94              | 51.87                 | 558.39        | 606.00        | 12.73 | MWD         |      |
| 11700.00                                                                                                                | 10180.00       | 12959.50          | 180.00                  | 51.75              | 26.53              | 53.06                 | 557.30        | 606.00        | 12.44 | MWD         |      |
| 11800.00                                                                                                                | 10180.00       | 13059.50          | 180.00                  | 53.40              | 27.13              | 54.26                 | 556.12        | 606.00        | 12.15 | MWD         |      |
| 11900.00                                                                                                                | 10180.00       | 13159.50          | 180.00                  | 55.06              | 27.74              | 55.47                 | 554.95        | 606.00        | 11.87 | MWD         |      |
| 12000.00                                                                                                                | 10180.00       | 13259.50          | 180.00                  | 56.73              | 28.35              | 56.70                 | 553.85        | 606.00        | 11.62 | MWD         |      |
| 12100.00                                                                                                                | 10180.00       | 13359.50          | 180.00                  | 58.42              | 28.97              | 57.93                 | 552.62        | 606.00        | 11.35 | MWD         |      |
| 12200.00                                                                                                                | 10180.00       | 13459.50          | 180.00                  | 60.10              | 29.59              | 59.18                 | 551.35        | 606.00        | 11.09 | MWD         |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra 18-19 Fed 41H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |             |      |
|-------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|-------------|------|
| Pri MD<br>(US ft)                                                                                                       | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool | Risk |
| 12300.00                                                                                                                | 10180.00       | 13559.50          | 180.00                  | 61.80              | 30.22              | 60.44                 | 550.08        | 606.00        | 10.84 | MWD         |      |
| 12400.00                                                                                                                | 10180.00       | 13659.50          | 180.00                  | 63.51              | 30.85              | 61.70                 | 548.81        | 606.00        | 10.60 | MWD         |      |
| 12500.00                                                                                                                | 10180.00       | 13759.50          | 180.00                  | 65.22              | 31.49              | 62.98                 | 547.54        | 606.00        | 10.37 | MWD         |      |
| 12600.00                                                                                                                | 10180.00       | 13859.50          | 180.00                  | 66.93              | 32.13              | 64.26                 | 546.27        | 606.00        | 10.14 | MWD         |      |
| 12700.00                                                                                                                | 10180.00       | 13959.50          | 180.00                  | 68.66              | 32.78              | 65.55                 | 544.99        | 606.00        | 9.93  | MWD         |      |
| 12800.00                                                                                                                | 10180.00       | 14059.50          | 180.00                  | 70.38              | 33.43              | 66.85                 | 543.71        | 606.00        | 9.73  | MWD         |      |
| 12900.00                                                                                                                | 10180.00       | 14159.50          | 180.00                  | 72.12              | 34.08              | 68.16                 | 542.42        | 606.00        | 9.53  | MWD         |      |
| 13000.00                                                                                                                | 10180.00       | 14259.50          | 180.00                  | 73.85              | 34.73              | 69.47                 | 541.12        | 606.00        | 9.34  | MWD         |      |
| 13100.00                                                                                                                | 10180.00       | 14359.50          | 180.00                  | 75.60              | 35.39              | 70.78                 | 539.82        | 606.00        | 9.16  | MWD         |      |
| 13200.00                                                                                                                | 10180.00       | 14459.50          | 180.00                  | 77.34              | 36.05              | 72.11                 | 538.52        | 606.00        | 8.98  | MWD         |      |
| 13300.00                                                                                                                | 10180.00       | 14559.50          | 180.00                  | 79.09              | 36.72              | 73.44                 | 537.21        | 606.00        | 8.81  | MWD         |      |
| 13400.00                                                                                                                | 10180.00       | 14659.50          | 180.00                  | 80.84              | 37.38              | 74.77                 | 535.90        | 606.00        | 8.64  | MWD         |      |
| 13500.00                                                                                                                | 10180.00       | 14759.50          | 180.00                  | 82.60              | 38.05              | 76.11                 | 534.58        | 606.00        | 8.48  | MWD         |      |
| 13600.00                                                                                                                | 10180.00       | 14859.50          | 180.00                  | 84.36              | 38.73              | 77.45                 | 533.25        | 606.00        | 8.33  | MWD         |      |
| 13700.00                                                                                                                | 10180.00       | 14959.50          | 180.00                  | 86.12              | 39.40              | 78.80                 | 531.92        | 606.00        | 8.18  | MWD         |      |
| 13800.00                                                                                                                | 10180.00       | 15059.50          | 180.00                  | 87.89              | 40.08              | 80.15                 | 530.59        | 606.00        | 8.04  | MWD         |      |
| 13900.00                                                                                                                | 10180.00       | 15159.50          | 180.00                  | 89.65              | 40.75              | 81.51                 | 529.25        | 606.00        | 7.90  | MWD         |      |
| 14000.00                                                                                                                | 10180.00       | 15259.50          | 180.00                  | 91.42              | 41.43              | 82.87                 | 527.91        | 606.00        | 7.76  | MWD         |      |
| 14100.00                                                                                                                | 10180.00       | 15359.50          | 180.00                  | 93.19              | 42.11              | 84.23                 | 526.57        | 606.00        | 7.63  | MWD         |      |
| 14200.00                                                                                                                | 10180.00       | 15459.50          | 180.00                  | 94.97              | 42.80              | 85.60                 | 525.20        | 606.00        | 7.50  | MWD         |      |
| 14300.00                                                                                                                | 10180.00       | 15559.50          | 180.00                  | 96.74              | 43.48              | 86.97                 | 523.82        | 606.00        | 7.37  | MWD         |      |
| 14400.00                                                                                                                | 10180.00       | 15659.50          | 180.00                  | 98.52              | 44.17              | 88.34                 | 522.44        | 606.00        | 7.25  | MWD         |      |
| 14500.00                                                                                                                | 10180.00       | 15759.50          | 180.00                  | 100.30             | 44.86              | 89.72                 | 521.06        | 606.00        | 7.13  | MWD         |      |
| 14600.00                                                                                                                | 10180.00       | 15859.50          | 180.00                  | 102.08             | 45.55              | 91.09                 | 519.68        | 606.00        | 7.02  | MWD         |      |
| 14700.00                                                                                                                | 10180.00       | 15959.50          | 180.00                  | 103.87             | 46.24              | 92.48                 | 518.29        | 606.00        | 6.91  | MWD         |      |
| 14800.00                                                                                                                | 10180.00       | 16059.50          | 180.00                  | 105.65             | 46.93              | 93.86                 | 516.90        | 606.00        | 6.80  | MWD         |      |
| 14900.00                                                                                                                | 10180.00       | 16159.50          | 180.00                  | 107.44             | 47.62              | 95.25                 | 515.51        | 606.00        | 6.70  | MWD         |      |
| 15000.00                                                                                                                | 10180.00       | 16259.50          | 180.00                  | 109.22             | 48.32              | 96.64                 | 514.12        | 606.00        | 6.60  | MWD         |      |
| 15100.00                                                                                                                | 10180.00       | 16359.50          | 180.00                  | 111.01             | 49.01              | 98.03                 | 512.72        | 606.00        | 6.50  | MWD         |      |
| 15200.00                                                                                                                | 10180.00       | 16459.50          | 180.00                  | 112.80             | 49.71              | 99.42                 | 511.33        | 606.00        | 6.40  | MWD         |      |
| 15300.00                                                                                                                | 10180.00       | 16559.50          | 180.00                  | 114.59             | 50.41              | 100.82                | 509.93        | 606.00        | 6.31  | MWD         |      |
| 15400.00                                                                                                                | 10180.00       | 16659.50          | 180.00                  | 116.38             | 51.11              | 102.21                | 508.53        | 606.00        | 6.22  | MWD         |      |
| 15500.00                                                                                                                | 10180.00       | 16759.50          | 180.00                  | 118.18             | 51.81              | 103.61                | 507.12        | 606.00        | 6.13  | MWD         |      |
| 15600.00                                                                                                                | 10180.00       | 16859.50          | 180.00                  | 119.97             | 52.51              | 105.01                | 505.72        | 606.00        | 6.04  | MWD         |      |
| 15700.00                                                                                                                | 10180.00       | 16959.50          | 180.00                  | 121.77             | 53.21              | 106.42                | 504.31        | 606.00        | 5.96  | MWD         |      |
| 15800.00                                                                                                                | 10180.00       | 17059.50          | 180.00                  | 123.56             | 53.91              | 107.82                | 502.91        | 606.00        | 5.88  | MWD         |      |
| 15900.00                                                                                                                | 10180.00       | 17159.50          | 180.00                  | 125.36             | 54.61              | 109.23                | 501.50        | 606.00        | 5.80  | MWD         |      |
| 16000.00                                                                                                                | 10180.00       | 17259.50          | 180.00                  | 127.16             | 55.32              | 110.64                | 500.09        | 606.00        | 5.72  | MWD         |      |
| 16100.00                                                                                                                | 10180.00       | 17359.50          | 180.00                  | 128.96             | 56.02              | 112.05                | 498.68        | 606.00        | 5.65  | MWD         |      |
| 16200.00                                                                                                                | 10180.00       | 17459.50          | 180.00                  | 130.76             | 56.73              | 113.46                | 497.26        | 606.00        | 5.57  | MWD         |      |
| 16300.00                                                                                                                | 10180.00       | 17559.50          | 180.00                  | 132.56             | 57.43              | 114.87                | 495.85        | 606.00        | 5.50  | MWD         |      |
| 16400.00                                                                                                                | 10180.00       | 17659.50          | 180.00                  | 134.36             | 58.14              | 116.28                | 494.43        | 606.00        | 5.43  | MWD         |      |
| 16500.00                                                                                                                | 10180.00       | 17759.50          | 180.00                  | 136.16             | 58.85              | 117.70                | 493.01        | 606.00        | 5.36  | MWD         |      |
| 16600.00                                                                                                                | 10180.00       | 17859.50          | 180.00                  | 137.96             | 59.56              | 119.11                | 491.60        | 606.00        | 5.30  | MWD         |      |
| 16700.00                                                                                                                | 10180.00       | 17959.50          | 180.00                  | 139.76             | 60.27              | 120.53                | 490.18        | 606.00        | 5.23  | MWD         |      |
| 16800.00                                                                                                                | 10180.00       | 18059.50          | 180.00                  | 141.57             | 60.98              | 121.95                | 488.75        | 606.00        | 5.17  | MWD         |      |
| 16900.00                                                                                                                | 10180.00       | 18159.50          | 180.00                  | 143.37             | 61.69              | 123.37                | 487.33        | 606.00        | 5.11  | MWD         |      |
| 17000.00                                                                                                                | 10180.00       | 18259.50          | 180.00                  | 145.18             | 62.40              | 124.79                | 485.91        | 606.00        | 5.05  | MWD         |      |
| 17100.00                                                                                                                | 10180.00       | 18359.50          | 180.00                  | 146.98             | 63.11              | 126.21                | 484.49        | 606.00        | 4.99  | MWD         |      |
| 17200.00                                                                                                                | 10180.00       | 18459.50          | 180.00                  | 148.79             | 63.82              | 127.64                | 483.06        | 606.00        | 4.93  | MWD         |      |
| 17203.00                                                                                                                | 10180.00       | 18462.51          | 180.00                  | 148.84             | 63.84              | 127.68                | 483.02        | 606.00        | 4.93  | MWD         |      |
| Secondary Well: Fighting Okra 18-19 Fed 31H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |             |      |
| Pri MD<br>(US ft)                                                                                                       | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool | Risk |
| 0.00                                                                                                                    | 2.00           | 0.00              | 359.60                  | 0.00               | 0.00               | 0.00                  | 49.39         | 50.03         | 78.23 | MWD         |      |
| 100.00                                                                                                                  | 100.00         | 98.00             | 359.60                  | 0.11               | 0.11               | 4.51                  | 49.13         | 49.99         | 58.27 | MWD         |      |
| 200.00                                                                                                                  | 200.00         | 198.00            | 359.60                  | 0.33               | 0.33               | 4.62                  | 48.69         | 49.99         | 38.30 | MWD         |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra 18-19 Fed 31H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |             |      |
|-------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|-------------|------|
| Pri MD<br>(US ft)                                                                                                       | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool | Risk |
| 300.00                                                                                                                  | 300.00         | 298.00            | 359.60                  | 0.56               | 0.56               | 4.65                  | 48.24         | 49.99         | 28.49 | MWD         |      |
| 400.00                                                                                                                  | 400.00         | 398.00            | 359.60                  | 0.78               | 0.78               | 4.69                  | 47.79         | 49.99         | 22.68 | MWD         |      |
| 500.00                                                                                                                  | 500.00         | 498.00            | 359.60                  | 1.01               | 1.01               | 4.75                  | 47.34         | 49.99         | 18.84 | MWD         |      |
| 600.00                                                                                                                  | 600.00         | 598.00            | 359.60                  | 1.23               | 1.23               | 4.81                  | 46.89         | 49.99         | 16.11 | MWD         |      |
| 700.00                                                                                                                  | 700.00         | 698.00            | 359.60                  | 1.46               | 1.46               | 4.89                  | 46.44         | 49.99         | 14.07 | MWD         |      |
| 800.00                                                                                                                  | 800.00         | 798.00            | 359.60                  | 1.68               | 1.68               | 4.97                  | 45.99         | 49.99         | 12.49 | MWD         |      |
| 900.00                                                                                                                  | 900.00         | 898.00            | 359.60                  | 1.91               | 1.91               | 5.06                  | 45.54         | 49.99         | 11.23 | MWD         |      |
| 1000.00                                                                                                                 | 1000.00        | 998.00            | 359.60                  | 2.13               | 2.13               | 5.16                  | 45.09         | 49.99         | 10.20 | MWD         |      |
| 1100.00                                                                                                                 | 1100.00        | 1098.00           | 359.60                  | 2.36               | 2.36               | 5.27                  | 44.64         | 49.99         | 9.34  | MWD         |      |
| 1200.00                                                                                                                 | 1200.00        | 1198.00           | 359.60                  | 2.58               | 2.58               | 5.38                  | 44.19         | 49.99         | 8.62  | MWD         |      |
| 1300.00                                                                                                                 | 1300.00        | 1298.00           | 359.60                  | 2.81               | 2.81               | 5.50                  | 43.74         | 49.99         | 8.00  | MWD         |      |
| 1400.00                                                                                                                 | 1400.00        | 1398.00           | 359.60                  | 3.03               | 3.03               | 5.62                  | 43.29         | 49.99         | 7.46  | MWD         |      |
| 1500.00                                                                                                                 | 1500.00        | 1498.00           | 359.60                  | 3.25               | 3.25               | 5.75                  | 42.84         | 49.99         | 6.99  | MWD         |      |
| 1600.00                                                                                                                 | 1600.00        | 1598.00           | 359.60                  | 3.48               | 3.48               | 5.89                  | 42.39         | 49.99         | 6.58  | MWD         |      |
| 1700.00                                                                                                                 | 1700.00        | 1698.00           | 359.60                  | 3.70               | 3.70               | 6.03                  | 41.94         | 49.99         | 6.21  | MWD         |      |
| 1800.00                                                                                                                 | 1800.00        | 1798.00           | 359.60                  | 3.93               | 3.93               | 6.17                  | 41.49         | 49.99         | 5.88  | MWD         |      |
| 1900.00                                                                                                                 | 1900.00        | 1898.00           | 359.60                  | 4.15               | 4.15               | 6.32                  | 41.04         | 49.99         | 5.59  | MWD         |      |
| 2000.00                                                                                                                 | 2000.00        | 1998.00           | 359.60                  | 4.38               | 4.38               | 6.47                  | 40.59         | 49.99         | 5.32  | MWD         |      |
| 2100.00                                                                                                                 | 2100.00        | 2098.00           | 359.60                  | 4.60               | 4.60               | 6.62                  | 40.14         | 49.99         | 5.08  | MWD         |      |
| 2200.00                                                                                                                 | 2200.00        | 2198.00           | 359.60                  | 4.83               | 4.83               | 6.78                  | 39.69         | 49.99         | 4.86  | MWD         |      |
| 2300.00                                                                                                                 | 2300.00        | 2298.00           | 359.60                  | 5.05               | 5.05               | 6.94                  | 39.25         | 49.99         | 4.65  | MWD         |      |
| 2400.00                                                                                                                 | 2400.00        | 2398.00           | 359.60                  | 5.28               | 5.28               | 7.10                  | 38.80         | 49.99         | 4.47  | MWD         |      |
| 2500.00                                                                                                                 | 2500.00        | 2498.00           | 359.60                  | 5.50               | 5.50               | 7.27                  | 38.35         | 49.99         | 4.29  | MWD         |      |
| 2600.00                                                                                                                 | 2600.00        | 2598.00           | 359.60                  | 5.73               | 5.73               | 7.44                  | 37.90         | 49.99         | 4.13  | MWD         |      |
| 2700.00                                                                                                                 | 2700.00        | 2698.00           | 359.60                  | 5.95               | 5.95               | 7.61                  | 37.45         | 49.99         | 3.99  | MWD         |      |
| 2800.00                                                                                                                 | 2800.00        | 2798.00           | 359.60                  | 6.18               | 6.18               | 7.79                  | 37.00         | 49.99         | 3.85  | MWD         |      |
| 2900.00                                                                                                                 | 2900.00        | 2898.00           | 359.60                  | 6.40               | 6.40               | 7.96                  | 36.55         | 49.99         | 3.72  | MWD         |      |
| 3000.00                                                                                                                 | 3000.00        | 2998.00           | 359.60                  | 6.63               | 6.63               | 8.14                  | 36.10         | 49.99         | 3.60  | MWD         |      |
| 3100.00                                                                                                                 | 3100.00        | 3098.00           | 359.60                  | 6.85               | 6.85               | 8.33                  | 35.65         | 49.99         | 3.49  | MWD         |      |
| 3200.00                                                                                                                 | 3200.00        | 3198.00           | 359.60                  | 7.08               | 7.08               | 8.51                  | 35.20         | 49.99         | 3.38  | MWD         |      |
| 3300.00                                                                                                                 | 3300.00        | 3298.00           | 359.60                  | 7.30               | 7.30               | 8.70                  | 34.75         | 49.99         | 3.28  | MWD         |      |
| 3400.00                                                                                                                 | 3400.00        | 3398.00           | 359.60                  | 7.53               | 7.53               | 8.89                  | 34.30         | 49.99         | 3.19  | MWD         |      |
| 3500.00                                                                                                                 | 3500.00        | 3498.00           | 359.60                  | 7.75               | 7.75               | 9.08                  | 33.85         | 49.99         | 3.10  | MWD         |      |
| 3600.00                                                                                                                 | 3599.14        | 3597.14           | 359.60                  | 7.97               | 7.97               | 9.28                  | 34.25         | 50.82         | 3.07  | MWD         |      |
| 3700.00                                                                                                                 | 3698.17        | 3696.21           | 359.60                  | 8.19               | 8.19               | 9.47                  | 36.37         | 53.38         | 3.14  | MWD         |      |
| 3800.00                                                                                                                 | 3797.03        | 3795.16           | 359.60                  | 8.42               | 8.41               | 9.67                  | 40.23         | 57.67         | 3.31  | MWD         |      |
| 3900.00                                                                                                                 | 3896.65        | 3894.92           | 359.59                  | 8.64               | 8.63               | 9.87                  | 45.10         | 62.98         | 3.52  | MWD         |      |
| 4000.00                                                                                                                 | 3996.37        | 3994.78           | 359.59                  | 8.86               | 8.86               | 10.08                 | 49.95         | 68.30         | 3.72  | MWD         |      |
| 4100.00                                                                                                                 | 4096.08        | 4094.64           | 359.59                  | 9.09               | 9.08               | 10.29                 | 54.82         | 73.62         | 3.92  | MWD         |      |
| 4200.00                                                                                                                 | 4195.80        | 4194.50           | 359.59                  | 9.31               | 9.31               | 10.51                 | 59.68         | 78.94         | 4.10  | MWD         |      |
| 4300.00                                                                                                                 | 4295.52        | 4294.36           | 359.59                  | 9.54               | 9.53               | 10.72                 | 64.59         | 84.26         | 4.28  | MWD         |      |
| 4400.00                                                                                                                 | 4395.24        | 4394.21           | 359.59                  | 9.77               | 9.76               | 10.94                 | 69.43         | 89.57         | 4.45  | MWD         |      |
| 4500.00                                                                                                                 | 4494.95        | 4494.07           | 359.59                  | 10.00              | 9.98               | 11.16                 | 74.31         | 94.89         | 4.61  | MWD         |      |
| 4600.00                                                                                                                 | 4594.67        | 4593.93           | 359.59                  | 10.23              | 10.21              | 11.39                 | 79.16         | 100.21        | 4.76  | MWD         |      |
| 4700.00                                                                                                                 | 4694.39        | 4693.79           | 359.59                  | 10.46              | 10.43              | 11.62                 | 84.04         | 105.53        | 4.91  | MWD         |      |
| 4800.00                                                                                                                 | 4794.10        | 4793.65           | 359.59                  | 10.69              | 10.66              | 11.85                 | 88.92         | 110.85        | 5.05  | MWD         |      |
| 4900.00                                                                                                                 | 4893.82        | 4893.51           | 359.59                  | 10.92              | 10.89              | 12.09                 | 93.80         | 116.17        | 5.19  | MWD         |      |
| 5000.00                                                                                                                 | 4993.54        | 4993.36           | 359.59                  | 11.15              | 11.11              | 12.33                 | 98.67         | 121.49        | 5.32  | MWD         |      |
| 5100.00                                                                                                                 | 5093.25        | 5093.22           | 359.59                  | 11.38              | 11.34              | 12.58                 | 103.53        | 126.81        | 5.45  | MWD         |      |
| 5200.00                                                                                                                 | 5192.97        | 5193.08           | 359.59                  | 11.61              | 11.56              | 12.83                 | 108.40        | 132.13        | 5.57  | MWD         |      |
| 5300.00                                                                                                                 | 5292.69        | 5292.94           | 359.59                  | 11.84              | 11.79              | 13.08                 | 113.26        | 137.45        | 5.68  | MWD         |      |
| 5400.00                                                                                                                 | 5392.41        | 5392.80           | 359.59                  | 12.07              | 12.02              | 13.33                 | 118.13        | 142.77        | 5.79  | MWD         |      |
| 5500.00                                                                                                                 | 5492.12        | 5492.66           | 359.59                  | 12.31              | 12.24              | 13.60                 | 122.99        | 148.09        | 5.90  | MWD         |      |
| 5600.00                                                                                                                 | 5591.84        | 5592.51           | 359.59                  | 12.54              | 12.47              | 13.86                 | 127.86        | 153.40        | 6.01  | MWD         |      |
| 5700.00                                                                                                                 | 5691.56        | 5692.37           | 359.59                  | 12.77              | 12.69              | 14.13                 | 132.73        | 158.72        | 6.11  | MWD         |      |
| 5800.00                                                                                                                 | 5791.27        | 5792.23           | 359.59                  | 13.01              | 12.92              | 14.40                 | 137.60        | 164.04        | 6.20  | MWD         |      |
| 5900.00                                                                                                                 | 5890.99        | 5892.09           | 359.59                  | 13.24              | 13.15              | 14.68                 | 142.46        | 169.36        | 6.30  | MWD         |      |
| 6000.00                                                                                                                 | 5990.71        | 5991.95           | 359.59                  | 13.48              | 13.37              | 14.96                 | 147.33        | 174.68        | 6.39  | MWD         |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra 18-19 Fed 31H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |       |             |      |
|-------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|-------|-------------|------|
| Pri MD<br>(US ft)                                                                                                       | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF    | Survey Tool | Risk |
| 6100.00                                                                                                                 | 6090.43        | 6091.81           | 359.59                  | 13.71              | 13.60              | 15.25                 | 152.20        | 180.00        | 6.47  | MWD         |      |
| 6200.00                                                                                                                 | 6190.14        | 6191.67           | 359.59                  | 13.94              | 13.82              | 15.54                 | 157.07        | 185.32        | 6.56  | MWD         |      |
| 6300.00                                                                                                                 | 6289.86        | 6291.52           | 359.58                  | 14.18              | 14.05              | 15.83                 | 161.93        | 190.64        | 6.64  | MWD         |      |
| 6400.00                                                                                                                 | 6389.58        | 6391.38           | 359.58                  | 14.41              | 14.28              | 16.13                 | 166.80        | 195.96        | 6.72  | MWD         |      |
| 6500.00                                                                                                                 | 6489.29        | 6491.24           | 359.58                  | 14.65              | 14.50              | 16.44                 | 171.67        | 201.28        | 6.80  | MWD         |      |
| 6600.00                                                                                                                 | 6589.01        | 6591.10           | 359.58                  | 14.89              | 14.73              | 16.75                 | 176.54        | 206.60        | 6.87  | MWD         |      |
| 6700.00                                                                                                                 | 6688.73        | 6690.96           | 359.58                  | 15.12              | 14.96              | 17.06                 | 181.41        | 211.91        | 6.95  | MWD         |      |
| 6800.00                                                                                                                 | 6788.45        | 6790.82           | 359.58                  | 15.36              | 15.18              | 17.38                 | 186.27        | 217.23        | 7.02  | MWD         |      |
| 6900.00                                                                                                                 | 6888.16        | 6890.67           | 359.58                  | 15.59              | 15.41              | 17.70                 | 191.14        | 222.55        | 7.08  | MWD         |      |
| 7000.00                                                                                                                 | 6987.88        | 6990.53           | 359.58                  | 15.83              | 15.64              | 18.03                 | 196.01        | 227.87        | 7.15  | MWD         |      |
| 7100.00                                                                                                                 | 7087.60        | 7090.39           | 359.58                  | 16.07              | 15.86              | 18.37                 | 200.88        | 233.19        | 7.22  | MWD         |      |
| 7200.00                                                                                                                 | 7187.31        | 7190.25           | 359.58                  | 16.30              | 16.09              | 18.71                 | 205.74        | 238.51        | 7.28  | MWD         |      |
| 7300.00                                                                                                                 | 7287.03        | 7290.11           | 359.58                  | 16.54              | 16.32              | 19.05                 | 210.61        | 243.83        | 7.34  | MWD         |      |
| 7400.00                                                                                                                 | 7386.75        | 7389.97           | 359.58                  | 16.78              | 16.54              | 19.40                 | 215.48        | 249.15        | 7.40  | MWD         |      |
| 7500.00                                                                                                                 | 7486.46        | 7489.83           | 359.58                  | 17.01              | 16.77              | 19.75                 | 220.35        | 254.47        | 7.46  | MWD         |      |
| 7600.00                                                                                                                 | 7586.18        | 7589.68           | 359.58                  | 17.25              | 17.00              | 20.11                 | 225.21        | 259.79        | 7.51  | MWD         |      |
| 7700.00                                                                                                                 | 7685.90        | 7689.54           | 359.58                  | 17.49              | 17.22              | 20.48                 | 230.08        | 265.11        | 7.57  | MWD         |      |
| 7800.00                                                                                                                 | 7785.62        | 7789.40           | 359.58                  | 17.72              | 17.45              | 20.85                 | 234.95        | 270.42        | 7.62  | MWD         |      |
| 7900.00                                                                                                                 | 7885.33        | 7889.26           | 359.58                  | 17.96              | 17.68              | 21.22                 | 239.82        | 275.74        | 7.68  | MWD         |      |
| 8000.00                                                                                                                 | 7985.05        | 7989.12           | 359.58                  | 18.20              | 17.91              | 21.61                 | 244.69        | 281.06        | 7.73  | MWD         |      |
| 8100.00                                                                                                                 | 8084.77        | 8088.98           | 359.58                  | 18.44              | 18.13              | 21.99                 | 249.55        | 286.38        | 7.78  | MWD         |      |
| 8200.00                                                                                                                 | 8184.48        | 8188.83           | 359.58                  | 18.67              | 18.36              | 22.38                 | 254.42        | 291.70        | 7.82  | MWD         |      |
| 8300.00                                                                                                                 | 8284.20        | 8288.69           | 359.58                  | 18.91              | 18.59              | 22.78                 | 259.29        | 297.02        | 7.87  | MWD         |      |
| 8400.00                                                                                                                 | 8383.92        | 8388.55           | 359.58                  | 19.15              | 18.81              | 23.18                 | 264.16        | 302.34        | 7.92  | MWD         |      |
| 8500.00                                                                                                                 | 8483.64        | 8488.41           | 359.58                  | 19.39              | 19.04              | 23.59                 | 269.02        | 307.66        | 7.96  | MWD         |      |
| 8600.00                                                                                                                 | 8583.35        | 8588.27           | 359.58                  | 19.63              | 19.27              | 24.01                 | 273.89        | 312.98        | 8.01  | MWD         |      |
| 8700.00                                                                                                                 | 8683.07        | 8688.13           | 359.58                  | 19.86              | 19.49              | 24.43                 | 278.76        | 318.30        | 8.05  | MWD         |      |
| 8800.00                                                                                                                 | 8782.79        | 8787.98           | 359.58                  | 20.10              | 19.72              | 24.85                 | 283.63        | 323.62        | 8.09  | MWD         |      |
| 8900.00                                                                                                                 | 8882.50        | 8887.84           | 359.58                  | 20.34              | 19.95              | 25.28                 | 288.49        | 328.93        | 8.13  | MWD         |      |
| 9000.00                                                                                                                 | 8982.22        | 8987.70           | 359.58                  | 20.58              | 20.18              | 25.72                 | 293.36        | 334.25        | 8.17  | MWD         |      |
| 9100.00                                                                                                                 | 9081.00        | 9086.62           | 180.00                  | 20.82              | 20.40              | 26.16                 | 306.78        | 348.06        | 8.43  | MWD         |      |
| 9200.00                                                                                                                 | 9178.83        | 9184.58           | 180.00                  | 21.04              | 20.61              | 26.60                 | 337.01        | 378.67        | 9.09  | MWD         |      |
| 9300.00                                                                                                                 | 9274.44        | 9280.25           | 180.00                  | 21.21              | 20.78              | 27.03                 | 382.06        | 424.04        | 10.10 | MWD         |      |
| 9400.00                                                                                                                 | 9362.04        | 9367.88           | 180.00                  | 21.36              | 20.93              | 27.43                 | 440.60        | 482.90        | 11.42 | MWD         |      |
| 9500.00                                                                                                                 | 9446.30        | 9452.14           | 180.00                  | 21.50              | 21.06              | 27.82                 | 511.27        | 553.86        | 13.00 | MWD         |      |
| 9600.00                                                                                                                 | 10012.00       | 10407.49          | 180.00                  | 22.98              | 15.49              | 30.98                 | 485.31        | 515.28        | 17.19 | MWD         |      |
| 9700.00                                                                                                                 | 10012.00       | 10497.93          | 180.00                  | 23.52              | 15.67              | 31.33                 | 442.63        | 472.91        | 15.62 | MWD         |      |
| 9800.00                                                                                                                 | 10012.00       | 10594.35          | 180.00                  | 24.21              | 15.89              | 31.77                 | 416.23        | 446.89        | 14.58 | MWD         |      |
| 9900.00                                                                                                                 | 10012.00       | 10693.83          | 180.00                  | 25.03              | 16.14              | 32.28                 | 406.92        | 438.00        | 14.09 | MWD         |      |
| 10000.00                                                                                                                | 10012.00       | 10793.83          | 180.00                  | 25.96              | 16.43              | 32.85                 | 406.44        | 438.00        | 13.88 | MWD         |      |
| 10100.00                                                                                                                | 10012.00       | 10893.83          | 180.00                  | 26.98              | 16.74              | 33.48                 | 405.90        | 438.00        | 13.64 | MWD         |      |
| 10200.00                                                                                                                | 10012.00       | 10993.83          | 180.00                  | 28.08              | 17.08              | 34.16                 | 405.30        | 438.00        | 13.40 | MWD         |      |
| 10300.00                                                                                                                | 10012.00       | 11093.83          | 180.00                  | 29.25              | 17.44              | 34.88                 | 404.67        | 438.00        | 13.14 | MWD         |      |
| 10400.00                                                                                                                | 10012.00       | 11193.83          | 180.00                  | 30.49              | 17.83              | 35.66                 | 403.99        | 438.00        | 12.88 | MWD         |      |
| 10500.00                                                                                                                | 10012.00       | 11293.83          | 180.00                  | 31.79              | 18.23              | 36.47                 | 403.27        | 438.00        | 12.61 | MWD         |      |
| 10600.00                                                                                                                | 10012.00       | 11393.83          | 180.00                  | 33.13              | 18.66              | 37.32                 | 402.43        | 438.00        | 12.31 | MWD         |      |
| 10700.00                                                                                                                | 10012.00       | 11493.83          | 180.00                  | 34.52              | 19.11              | 38.21                 | 401.58        | 438.00        | 12.03 | MWD         |      |
| 10800.00                                                                                                                | 10012.00       | 11593.83          | 180.00                  | 35.95              | 19.57              | 39.14                 | 400.73        | 438.00        | 11.75 | MWD         |      |
| 10900.00                                                                                                                | 10012.00       | 11693.83          | 180.00                  | 37.42              | 20.05              | 40.10                 | 399.82        | 438.00        | 11.47 | MWD         |      |
| 11000.00                                                                                                                | 10012.00       | 11793.83          | 180.00                  | 38.91              | 20.54              | 41.09                 | 398.85        | 438.00        | 11.19 | MWD         |      |
| 11100.00                                                                                                                | 10012.00       | 11893.83          | 180.00                  | 40.43              | 21.05              | 42.10                 | 397.91        | 438.00        | 10.93 | MWD         |      |
| 11200.00                                                                                                                | 10012.00       | 11993.83          | 180.00                  | 41.98              | 21.57              | 43.15                 | 396.89        | 438.00        | 10.65 | MWD         |      |
| 11300.00                                                                                                                | 10012.00       | 12093.83          | 180.00                  | 43.55              | 22.11              | 44.21                 | 395.86        | 438.00        | 10.39 | MWD         |      |
| 11400.00                                                                                                                | 10012.00       | 12193.83          | 180.00                  | 45.14              | 22.65              | 45.30                 | 394.88        | 438.00        | 10.16 | MWD         |      |
| 11500.00                                                                                                                | 10012.00       | 12293.83          | 180.00                  | 46.74              | 23.21              | 46.41                 | 393.67        | 438.00        | 9.88  | MWD         |      |
| 11600.00                                                                                                                | 10012.00       | 12393.83          | 180.00                  | 48.36              | 23.77              | 47.54                 | 392.62        | 438.00        | 9.65  | MWD         |      |
| 11700.00                                                                                                                | 10012.00       | 12493.83          | 180.00                  | 50.00              | 24.34              | 48.69                 | 391.51        | 438.00        | 9.42  | MWD         |      |
| 11800.00                                                                                                                | 10012.00       | 12593.83          | 180.00                  | 51.65              | 24.92              | 49.85                 | 390.31        | 438.00        | 9.19  | MWD         |      |

## 5D Anti-Collision Report

| Secondary Well: Fighting Okra 18-19 Fed 31H (p)(TVD relative to Well TVD Reference)(All Azimuth Relative to GRID NORTH) |                |                   |                         |                    |                    |                       |               |               |      |             |      |
|-------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-------------------------|--------------------|--------------------|-----------------------|---------------|---------------|------|-------------|------|
| Pri MD<br>(US ft)                                                                                                       | TVD<br>(US ft) | Sec MD<br>(US ft) | T.Face to<br>Sec<br>(°) | S.Major<br>(US ft) | S.Minor<br>(US ft) | TVD Spread<br>(US ft) | ES<br>(US ft) | CC<br>(US ft) | SF   | Survey Tool | Risk |
| 11900.00                                                                                                                | 10012.00       | 12693.83          | 180.00                  | 53.31              | 25.51              | 51.03                 | 389.16        | 438.00        | 8.97 | MWD         |      |
| 12000.00                                                                                                                | 10012.00       | 12793.83          | 180.00                  | 54.98              | 26.11              | 52.22                 | 388.09        | 438.00        | 8.78 | MWD         |      |
| 12100.00                                                                                                                | 10012.00       | 12893.83          | 180.00                  | 56.66              | 26.72              | 53.43                 | 386.86        | 438.00        | 8.56 | MWD         |      |
| 12200.00                                                                                                                | 10012.00       | 12993.83          | 180.00                  | 58.34              | 27.33              | 54.65                 | 385.60        | 438.00        | 8.36 | MWD         |      |
| 12300.00                                                                                                                | 10012.00       | 13093.83          | 180.00                  | 60.04              | 27.94              | 55.88                 | 384.35        | 438.00        | 8.16 | MWD         |      |
| 12400.00                                                                                                                | 10012.00       | 13193.83          | 180.00                  | 61.75              | 28.56              | 57.13                 | 383.10        | 438.00        | 7.98 | MWD         |      |
| 12500.00                                                                                                                | 10012.00       | 13293.83          | 180.00                  | 63.46              | 29.19              | 58.38                 | 381.85        | 438.00        | 7.80 | MWD         |      |
| 12600.00                                                                                                                | 10012.00       | 13393.83          | 180.00                  | 65.18              | 29.82              | 59.64                 | 380.59        | 438.00        | 7.63 | MWD         |      |
| 12700.00                                                                                                                | 10012.00       | 13493.83          | 180.00                  | 66.90              | 30.46              | 60.92                 | 379.33        | 438.00        | 7.47 | MWD         |      |
| 12800.00                                                                                                                | 10012.00       | 13593.83          | 180.00                  | 68.63              | 31.10              | 62.20                 | 378.07        | 438.00        | 7.31 | MWD         |      |
| 12900.00                                                                                                                | 10012.00       | 13693.83          | 180.00                  | 70.36              | 31.74              | 63.49                 | 376.79        | 438.00        | 7.16 | MWD         |      |
| 13000.00                                                                                                                | 10012.00       | 13793.83          | 180.00                  | 72.10              | 32.39              | 64.78                 | 375.52        | 438.00        | 7.01 | MWD         |      |
| 13100.00                                                                                                                | 10012.00       | 13893.83          | 180.00                  | 73.84              | 33.04              | 66.09                 | 374.23        | 438.00        | 6.87 | MWD         |      |
| 13200.00                                                                                                                | 10012.00       | 13993.83          | 180.00                  | 75.59              | 33.70              | 67.40                 | 372.94        | 438.00        | 6.73 | MWD         |      |
| 13300.00                                                                                                                | 10012.00       | 14093.83          | 180.00                  | 77.34              | 34.36              | 68.71                 | 371.64        | 438.00        | 6.60 | MWD         |      |
| 13400.00                                                                                                                | 10012.00       | 14193.83          | 180.00                  | 79.09              | 35.02              | 70.04                 | 370.33        | 438.00        | 6.47 | MWD         |      |
| 13500.00                                                                                                                | 10012.00       | 14293.83          | 180.00                  | 80.85              | 35.68              | 71.36                 | 369.01        | 438.00        | 6.35 | MWD         |      |
| 13600.00                                                                                                                | 10012.00       | 14393.83          | 180.00                  | 82.61              | 36.35              | 72.70                 | 367.67        | 438.00        | 6.23 | MWD         |      |
| 13700.00                                                                                                                | 10012.00       | 14493.83          | 180.00                  | 84.37              | 37.02              | 74.04                 | 366.32        | 438.00        | 6.11 | MWD         |      |
| 13800.00                                                                                                                | 10012.00       | 14593.83          | 180.00                  | 86.14              | 37.69              | 75.38                 | 364.97        | 438.00        | 6.00 | MWD         |      |
| 13900.00                                                                                                                | 10012.00       | 14693.83          | 180.00                  | 87.91              | 38.36              | 76.73                 | 363.62        | 438.00        | 5.89 | MWD         |      |
| 14000.00                                                                                                                | 10012.00       | 14793.83          | 180.00                  | 89.68              | 39.04              | 78.08                 | 362.26        | 438.00        | 5.78 | MWD         |      |
| 14100.00                                                                                                                | 10012.00       | 14893.83          | 180.00                  | 91.45              | 39.72              | 79.44                 | 360.90        | 438.00        | 5.68 | MWD         |      |
| 14200.00                                                                                                                | 10012.00       | 14993.83          | 180.00                  | 93.23              | 40.40              | 80.80                 | 359.53        | 438.00        | 5.58 | MWD         |      |
| 14300.00                                                                                                                | 10012.00       | 15093.83          | 180.00                  | 95.00              | 41.08              | 82.16                 | 358.16        | 438.00        | 5.49 | MWD         |      |
| 14400.00                                                                                                                | 10012.00       | 15193.83          | 180.00                  | 96.78              | 41.76              | 83.53                 | 356.79        | 438.00        | 5.39 | MWD         |      |
| 14500.00                                                                                                                | 10012.00       | 15293.83          | 180.00                  | 98.56              | 42.45              | 84.90                 | 355.41        | 438.00        | 5.30 | MWD         |      |
| 14600.00                                                                                                                | 10012.00       | 15393.83          | 180.00                  | 100.34             | 43.14              | 86.27                 | 354.04        | 438.00        | 5.22 | MWD         |      |
| 14700.00                                                                                                                | 10012.00       | 15493.83          | 180.00                  | 102.13             | 43.82              | 87.65                 | 352.66        | 438.00        | 5.13 | MWD         |      |
| 14800.00                                                                                                                | 10012.00       | 15593.83          | 180.00                  | 103.91             | 44.51              | 89.03                 | 351.27        | 438.00        | 5.05 | MWD         |      |
| 14900.00                                                                                                                | 10012.00       | 15693.83          | 180.00                  | 105.70             | 45.21              | 90.41                 | 349.89        | 438.00        | 4.97 | MWD         |      |
| 15000.00                                                                                                                | 10012.00       | 15793.83          | 180.00                  | 107.49             | 45.90              | 91.80                 | 348.50        | 438.00        | 4.89 | MWD         |      |
| 15100.00                                                                                                                | 10012.00       | 15893.83          | 180.00                  | 109.28             | 46.59              | 93.18                 | 347.11        | 438.00        | 4.82 | MWD         |      |
| 15200.00                                                                                                                | 10012.00       | 15993.83          | 180.00                  | 111.07             | 47.29              | 94.57                 | 345.71        | 438.00        | 4.75 | MWD         |      |
| 15300.00                                                                                                                | 10012.00       | 16093.83          | 180.00                  | 112.86             | 47.98              | 95.97                 | 344.32        | 438.00        | 4.68 | MWD         |      |
| 15400.00                                                                                                                | 10012.00       | 16193.83          | 180.00                  | 114.65             | 48.68              | 97.36                 | 342.92        | 438.00        | 4.61 | MWD         |      |
| 15500.00                                                                                                                | 10012.00       | 16293.83          | 180.00                  | 116.45             | 49.38              | 98.76                 | 341.52        | 438.00        | 4.54 | MWD         |      |
| 15600.00                                                                                                                | 10012.00       | 16393.83          | 180.00                  | 118.24             | 50.08              | 100.16                | 340.12        | 438.00        | 4.47 | MWD         |      |
| 15700.00                                                                                                                | 10012.00       | 16493.83          | 180.00                  | 120.04             | 50.78              | 101.56                | 338.72        | 438.00        | 4.41 | MWD         |      |
| 15800.00                                                                                                                | 10012.00       | 16593.83          | 180.00                  | 121.84             | 51.48              | 102.96                | 337.31        | 438.00        | 4.35 | MWD         |      |
| 15900.00                                                                                                                | 10012.00       | 16693.83          | 180.00                  | 123.63             | 52.18              | 104.36                | 335.91        | 438.00        | 4.29 | MWD         |      |
| 16000.00                                                                                                                | 10012.00       | 16793.83          | 180.00                  | 125.43             | 52.88              | 105.77                | 334.50        | 438.00        | 4.23 | MWD         |      |
| 16100.00                                                                                                                | 10012.00       | 16893.83          | 180.00                  | 127.23             | 53.59              | 107.18                | 333.09        | 438.00        | 4.17 | MWD         |      |
| 16200.00                                                                                                                | 10012.00       | 16993.83          | 180.00                  | 129.03             | 54.29              | 108.58                | 331.68        | 438.00        | 4.12 | MWD         |      |
| 16300.00                                                                                                                | 10012.00       | 17093.83          | 180.00                  | 130.83             | 55.00              | 110.00                | 330.26        | 438.00        | 4.07 | MWD         |      |
| 16400.00                                                                                                                | 10012.00       | 17193.83          | 180.00                  | 132.64             | 55.70              | 111.41                | 328.85        | 438.00        | 4.01 | MWD         |      |
| 16500.00                                                                                                                | 10012.00       | 17293.83          | 180.00                  | 134.44             | 56.41              | 112.82                | 327.43        | 438.00        | 3.96 | MWD         |      |
| 16600.00                                                                                                                | 10012.00       | 17393.83          | 180.00                  | 136.24             | 57.12              | 114.24                | 326.02        | 438.00        | 3.91 | MWD         |      |
| 16700.00                                                                                                                | 10012.00       | 17493.83          | 180.00                  | 138.04             | 57.83              | 115.65                | 324.60        | 438.00        | 3.86 | MWD         |      |
| 16800.00                                                                                                                | 10012.00       | 17593.83          | 180.00                  | 139.85             | 58.53              | 117.07                | 323.18        | 438.00        | 3.81 | MWD         |      |
| 16900.00                                                                                                                | 10012.00       | 17693.83          | 180.00                  | 141.65             | 59.24              | 118.49                | 321.76        | 438.00        | 3.77 | MWD         |      |
| 17000.00                                                                                                                | 10012.00       | 17793.83          | 180.00                  | 143.46             | 59.95              | 119.91                | 320.34        | 438.00        | 3.72 | MWD         |      |
| 17100.00                                                                                                                | 10012.00       | 17893.83          | 180.00                  | 145.27             | 60.66              | 121.33                | 318.92        | 438.00        | 3.68 | MWD         |      |
| 17200.00                                                                                                                | 10012.00       | 17993.83          | 180.00                  | 147.07             | 61.37              | 122.75                | 317.49        | 438.00        | 3.63 | MWD         |      |
| 17203.00                                                                                                                | 10012.00       | 17996.84          | 180.00                  | 147.13             | 61.40              | 122.79                | 317.45        | 438.00        | 3.63 | MWD         |      |

**5D Plan Report**

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**Devon Energy**

**Field Name:** *Lea Co, NM Nad 83 NMEZ*  
**Site Name:** *Fighting Okra 18-19 Fed 21H,31H,41H Pad*  
**Well Name:** *Fighting Okra 18-19 Fed 21H*  
**Plan:** *P1:V4*

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26 September 2017





## Fighting Okra 18-19 Fed 21H

|                                                               |                                                                |                              |                             |                                     |
|---------------------------------------------------------------|----------------------------------------------------------------|------------------------------|-----------------------------|-------------------------------------|
| Field Name:<br><br>Lea Co, NM Nad<br>83 NMEZ                  | Map Units: US ft                                               |                              | Company Name: Devon Energy  |                                     |
|                                                               | Vertical Reference Datum (VRD): Mean Sea Level                 |                              |                             |                                     |
|                                                               | Projected Coordinate System: NAD83 / New Mexico East (ftUS)    |                              |                             |                                     |
| Comment:                                                      |                                                                |                              |                             |                                     |
| Site:<br><br>Fighting Okra<br>18-19 Fed<br>21H,31H,41H<br>Pad | Units: US ft                                                   | North Reference: Grid        | Convergence Angle: 0.43     |                                     |
|                                                               | Position:                                                      | Northing: 380827.97 US ft    | Latitude: 32° 2' 39.64"     |                                     |
|                                                               |                                                                | Easting: 794436.89 US ft     | Longitude: -103° 30' 59.30" |                                     |
|                                                               | Elevation above MSL:3358.00 US ft                              |                              |                             |                                     |
| Comment:                                                      |                                                                |                              |                             |                                     |
| Slot:<br><br>Fighting Okra<br>18-19 Fed 21H                   | Position (Relative to Site Centre)                             |                              |                             |                                     |
|                                                               | +N/-S: -49.99 US ft                                            | Northing: 380777.98 US ft    | Latitude: 32°2'39.15"       |                                     |
|                                                               | +E/-W: 0.35 US ft                                              | Easting: 794437.24 US ft     | Longitude: -103°30'59.30"   |                                     |
|                                                               | Slot TVD Reference: Ground Elevation                           |                              |                             |                                     |
|                                                               | Elevation above MSL: 3360.00 US ft                             |                              |                             |                                     |
| Comment:                                                      |                                                                |                              |                             |                                     |
| Well:<br><br>Fighting Okra<br>18-19 Fed 21H                   | Type:Main well                                                 |                              | UWI:                        | Plan:P1:V4                          |
|                                                               | File Number:                                                   | Comment:                     |                             |                                     |
|                                                               | Closure Distance:7874.92US ft                                  |                              | Closure Azimuth:179.58°     |                                     |
|                                                               | Vertical Section: Position of Origin (Relative to Slot centre) |                              |                             |                                     |
|                                                               | +N/-S: 0.00 US ft                                              |                              | +E/-W: 0.00 US ft           | Az: 179.58°                         |
|                                                               | Magnetic Parameters:                                           |                              |                             |                                     |
|                                                               | Model: BGGM                                                    | Field Strength:<br>48041.6nT | Declination: 7.20°          | Dip: 59.91°<br>Date:<br>15/Oct/2015 |

**Drill floor: Plan: P1:V4**

|                                                     |                                           |                           |                       |
|-----------------------------------------------------|-------------------------------------------|---------------------------|-----------------------|
| <b>Rig Height (Well TVD Reference):</b> 30.00 US ft | <b>Elevation above MSL:</b> 3390.00 US ft | <b>Inclination:</b> 0.00° | <b>Azimuth:</b> 0.00° |
|-----------------------------------------------------|-------------------------------------------|---------------------------|-----------------------|

**Target set: Fighting Okra 18-19 Fed 21H Comment:**

| Target Name: | Shape: | TVD (US ft) | N.Offset (US ft) | E.Offset (US ft) | Northing (US ft) | Easting (US ft) | Comment |
|--------------|--------|-------------|------------------|------------------|------------------|-----------------|---------|
| PBHL 21H     | Cuboid | 9574.00     | -7874.71         | 57.78            | 372903.27        | 794495.02       |         |

Wellpath created using minimum curvature.

## 5D Plan Report

|                     |                           |                       |                      |                               |                              |  |  |  |  |  |
|---------------------|---------------------------|-----------------------|----------------------|-------------------------------|------------------------------|--|--|--|--|--|
| <b>Tie Point:</b>   |                           |                       |                      |                               |                              |  |  |  |  |  |
| <b>MD:</b> 0.00USFt | <b>Inclination:</b> 0.00° | <b>Azimuth:</b> 0.00° | <b>TVD:</b> 0.00USFt | <b>North Offset:</b> 0.00USFt | <b>East Offset:</b> 0.00USFt |  |  |  |  |  |

| Salient Points: (Relative to Slot centre)(TVD relative to Well TVD Reference) |            |           |                |               |                     |                     |                     |                    |                     |                       |
|-------------------------------------------------------------------------------|------------|-----------|----------------|---------------|---------------------|---------------------|---------------------|--------------------|---------------------|-----------------------|
| MD<br>(US ft)                                                                 | Inc<br>(°) | Az<br>(°) | TVD<br>(US ft) | VS<br>(US ft) | N.Offset<br>(US ft) | E.Offset<br>(US ft) | Northing<br>(US ft) | Easting<br>(US ft) | DLS<br>(°/100US ft) | Comment               |
| 0.00                                                                          | 0.00       | 0.00      | 0.00           | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 9001.04                                                                       | 0.00       | 0.00      | 9001.04        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                | KOP- Build<br>10° DLS |
| 9901.04                                                                       | 90.00      | 179.58    | 9574.00        | 572.96        | -572.94             | 4.20                | 380205.04           | 794441.44          | 10.00               | Landing Pt            |
| 17203.00                                                                      | 90.00      | 179.58    | 9574.00        | 7874.92       | -7874.71            | 57.78               | 372903.27           | 794495.02          | 0.00                | PBHL 21H              |

| Interpolated Points: (Relative to Slot centre)(TVD relative to Well TVD Reference) |            |           |                |               |                     |                     |                     |                    |                     |         |
|------------------------------------------------------------------------------------|------------|-----------|----------------|---------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------|
| MD<br>(US ft)                                                                      | Inc<br>(°) | Az<br>(°) | TVD<br>(US ft) | VS<br>(US ft) | N.Offset<br>(US ft) | E.Offset<br>(US ft) | Northing<br>(US ft) | Easting<br>(US ft) | DLS<br>(°/100US ft) | Comment |
| 0.00                                                                               | 0.00       | 0.00      | 0.00           | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 100.00                                                                             | 0.00       | 0.00      | 100.00         | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 200.00                                                                             | 0.00       | 0.00      | 200.00         | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 300.00                                                                             | 0.00       | 0.00      | 300.00         | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 400.00                                                                             | 0.00       | 0.00      | 400.00         | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 500.00                                                                             | 0.00       | 0.00      | 500.00         | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 600.00                                                                             | 0.00       | 0.00      | 600.00         | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 700.00                                                                             | 0.00       | 0.00      | 700.00         | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 800.00                                                                             | 0.00       | 0.00      | 800.00         | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 900.00                                                                             | 0.00       | 0.00      | 900.00         | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 1000.00                                                                            | 0.00       | 0.00      | 1000.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 1100.00                                                                            | 0.00       | 0.00      | 1100.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 1200.00                                                                            | 0.00       | 0.00      | 1200.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 1300.00                                                                            | 0.00       | 0.00      | 1300.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 1400.00                                                                            | 0.00       | 0.00      | 1400.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 1500.00                                                                            | 0.00       | 0.00      | 1500.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 1600.00                                                                            | 0.00       | 0.00      | 1600.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 1700.00                                                                            | 0.00       | 0.00      | 1700.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 1800.00                                                                            | 0.00       | 0.00      | 1800.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 1900.00                                                                            | 0.00       | 0.00      | 1900.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 2000.00                                                                            | 0.00       | 0.00      | 2000.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 2100.00                                                                            | 0.00       | 0.00      | 2100.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 2200.00                                                                            | 0.00       | 0.00      | 2200.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 2300.00                                                                            | 0.00       | 0.00      | 2300.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 2400.00                                                                            | 0.00       | 0.00      | 2400.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 2500.00                                                                            | 0.00       | 0.00      | 2500.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 2600.00                                                                            | 0.00       | 0.00      | 2600.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 2700.00                                                                            | 0.00       | 0.00      | 2700.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 2800.00                                                                            | 0.00       | 0.00      | 2800.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 2900.00                                                                            | 0.00       | 0.00      | 2900.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 3000.00                                                                            | 0.00       | 0.00      | 3000.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 3100.00                                                                            | 0.00       | 0.00      | 3100.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 3200.00                                                                            | 0.00       | 0.00      | 3200.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 3300.00                                                                            | 0.00       | 0.00      | 3300.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 3400.00                                                                            | 0.00       | 0.00      | 3400.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 3500.00                                                                            | 0.00       | 0.00      | 3500.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 3600.00                                                                            | 0.00       | 0.00      | 3600.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 3700.00                                                                            | 0.00       | 0.00      | 3700.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 3800.00                                                                            | 0.00       | 0.00      | 3800.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 3900.00                                                                            | 0.00       | 0.00      | 3900.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 4000.00                                                                            | 0.00       | 0.00      | 4000.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 4100.00                                                                            | 0.00       | 0.00      | 4100.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 4200.00                                                                            | 0.00       | 0.00      | 4200.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 4300.00                                                                            | 0.00       | 0.00      | 4300.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 4400.00                                                                            | 0.00       | 0.00      | 4400.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 4500.00                                                                            | 0.00       | 0.00      | 4500.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |
| 4600.00                                                                            | 0.00       | 0.00      | 4600.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |         |

## 5D Plan Report

| Interpolated Points: (Relative to Slot centre)(TVD relative to Well TVD Reference) |            |           |                |               |                     |                     |                     |                    |                     |                       |
|------------------------------------------------------------------------------------|------------|-----------|----------------|---------------|---------------------|---------------------|---------------------|--------------------|---------------------|-----------------------|
| MD<br>(US ft)                                                                      | Inc<br>(°) | Az<br>(°) | TVD<br>(US ft) | VS<br>(US ft) | N.Offset<br>(US ft) | E.Offset<br>(US ft) | Northing<br>(US ft) | Easting<br>(US ft) | DLS<br>(°/100US ft) | Comment               |
| 4700.00                                                                            | 0.00       | 0.00      | 4700.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 4800.00                                                                            | 0.00       | 0.00      | 4800.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 4900.00                                                                            | 0.00       | 0.00      | 4900.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 5000.00                                                                            | 0.00       | 0.00      | 5000.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 5100.00                                                                            | 0.00       | 0.00      | 5100.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 5200.00                                                                            | 0.00       | 0.00      | 5200.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 5300.00                                                                            | 0.00       | 0.00      | 5300.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 5400.00                                                                            | 0.00       | 0.00      | 5400.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 5500.00                                                                            | 0.00       | 0.00      | 5500.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 5600.00                                                                            | 0.00       | 0.00      | 5600.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 5700.00                                                                            | 0.00       | 0.00      | 5700.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 5800.00                                                                            | 0.00       | 0.00      | 5800.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 5900.00                                                                            | 0.00       | 0.00      | 5900.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 6000.00                                                                            | 0.00       | 0.00      | 6000.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 6100.00                                                                            | 0.00       | 0.00      | 6100.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 6200.00                                                                            | 0.00       | 0.00      | 6200.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 6300.00                                                                            | 0.00       | 0.00      | 6300.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 6400.00                                                                            | 0.00       | 0.00      | 6400.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 6500.00                                                                            | 0.00       | 0.00      | 6500.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 6600.00                                                                            | 0.00       | 0.00      | 6600.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 6700.00                                                                            | 0.00       | 0.00      | 6700.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 6800.00                                                                            | 0.00       | 0.00      | 6800.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 6900.00                                                                            | 0.00       | 0.00      | 6900.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 7000.00                                                                            | 0.00       | 0.00      | 7000.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 7100.00                                                                            | 0.00       | 0.00      | 7100.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 7200.00                                                                            | 0.00       | 0.00      | 7200.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 7300.00                                                                            | 0.00       | 0.00      | 7300.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 7400.00                                                                            | 0.00       | 0.00      | 7400.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 7500.00                                                                            | 0.00       | 0.00      | 7500.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 7600.00                                                                            | 0.00       | 0.00      | 7600.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 7700.00                                                                            | 0.00       | 0.00      | 7700.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 7800.00                                                                            | 0.00       | 0.00      | 7800.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 7900.00                                                                            | 0.00       | 0.00      | 7900.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 8000.00                                                                            | 0.00       | 0.00      | 8000.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 8100.00                                                                            | 0.00       | 0.00      | 8100.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 8200.00                                                                            | 0.00       | 0.00      | 8200.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 8300.00                                                                            | 0.00       | 0.00      | 8300.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 8400.00                                                                            | 0.00       | 0.00      | 8400.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 8500.00                                                                            | 0.00       | 0.00      | 8500.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 8600.00                                                                            | 0.00       | 0.00      | 8600.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 8700.00                                                                            | 0.00       | 0.00      | 8700.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 8800.00                                                                            | 0.00       | 0.00      | 8800.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 8900.00                                                                            | 0.00       | 0.00      | 8900.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 9000.00                                                                            | 0.00       | 0.00      | 9000.00        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                |                       |
| 9001.04                                                                            | 0.00       | 0.00      | 9001.04        | -0.00         | 0.00                | 0.00                | 380777.98           | 794437.24          | 0.00                | KOP- Build<br>10° DLS |
| 9100.00                                                                            | 9.90       | 179.58    | 9099.51        | 8.52          | -8.52               | 0.06                | 380769.46           | 794437.30          | 10.00               |                       |
| 9200.00                                                                            | 19.90      | 179.58    | 9196.03        | 34.20         | -34.20              | 0.25                | 380743.78           | 794437.49          | 10.00               |                       |
| 9300.00                                                                            | 29.90      | 179.58    | 9286.62        | 76.24         | -76.24              | 0.56                | 380701.74           | 794437.80          | 10.00               |                       |
| 9400.00                                                                            | 39.90      | 179.58    | 9368.53        | 133.38        | -133.38             | 0.98                | 380644.60           | 794438.22          | 10.00               |                       |
| 9500.00                                                                            | 49.90      | 179.58    | 9439.28        | 203.87        | -203.87             | 1.50                | 380574.11           | 794438.74          | 10.00               |                       |
| 9600.00                                                                            | 59.90      | 179.58    | 9496.72        | 285.58        | -285.57             | 2.10                | 380492.41           | 794439.34          | 10.00               |                       |
| 9700.00                                                                            | 69.90      | 179.58    | 9539.09        | 376.02        | -376.01             | 2.76                | 380401.97           | 794440.00          | 10.00               |                       |
| 9800.00                                                                            | 79.90      | 179.58    | 9565.11        | 472.44        | -472.43             | 3.47                | 380305.55           | 794440.71          | 10.00               |                       |
| 9900.00                                                                            | 89.90      | 179.58    | 9574.00        | 571.92        | -571.90             | 4.20                | 380206.08           | 794441.44          | 10.00               |                       |
| 9901.04                                                                            | 90.00      | 179.58    | 9574.00        | 572.96        | -572.94             | 4.20                | 380205.04           | 794441.44          | 10.00               | Landing Pt            |
| 10000.00                                                                           | 90.00      | 179.58    | 9574.00        | 671.92        | -671.90             | 4.93                | 380106.08           | 794442.17          | 0.00                |                       |
| 10100.00                                                                           | 90.00      | 179.58    | 9574.00        | 771.92        | -771.90             | 5.66                | 380006.08           | 794442.90          | 0.00                |                       |
| 10200.00                                                                           | 90.00      | 179.58    | 9574.00        | 871.92        | -871.89             | 6.40                | 379906.09           | 794443.64          | 0.00                |                       |

## 5D Plan Report

| Interpolated Points: (Relative to Slot centre)(TVD relative to Well TVD Reference) |            |           |                |               |                     |                     |                     |                    |                     |         |
|------------------------------------------------------------------------------------|------------|-----------|----------------|---------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------|
| MD<br>(US ft)                                                                      | Inc<br>(°) | Az<br>(°) | TVD<br>(US ft) | VS<br>(US ft) | N.Offset<br>(US ft) | E.Offset<br>(US ft) | Northing<br>(US ft) | Easting<br>(US ft) | DLS<br>(%/100US ft) | Comment |
| 10300.00                                                                           | 90.00      | 179.58    | 9574.00        | 971.92        | -971.89             | 7.13                | 379806.09           | 794444.37          | 0.00                |         |
| 10400.00                                                                           | 90.00      | 179.58    | 9574.00        | 1071.92       | -1071.89            | 7.86                | 379706.09           | 794445.10          | 0.00                |         |
| 10500.00                                                                           | 90.00      | 179.58    | 9574.00        | 1171.92       | -1171.89            | 8.60                | 379606.09           | 794445.84          | 0.00                |         |
| 10600.00                                                                           | 90.00      | 179.58    | 9574.00        | 1271.92       | -1271.88            | 9.33                | 379506.10           | 794446.57          | 0.00                |         |
| 10700.00                                                                           | 90.00      | 179.58    | 9574.00        | 1371.92       | -1371.88            | 10.07               | 379406.10           | 794447.31          | 0.00                |         |
| 10800.00                                                                           | 90.00      | 179.58    | 9574.00        | 1471.92       | -1471.88            | 10.80               | 379306.10           | 794448.04          | 0.00                |         |
| 10900.00                                                                           | 90.00      | 179.58    | 9574.00        | 1571.92       | -1571.88            | 11.53               | 379206.10           | 794448.77          | 0.00                |         |
| 11000.00                                                                           | 90.00      | 179.58    | 9574.00        | 1671.92       | -1671.87            | 12.27               | 379106.11           | 794449.51          | 0.00                |         |
| 11100.00                                                                           | 90.00      | 179.58    | 9574.00        | 1771.92       | -1771.87            | 13.00               | 379006.11           | 794450.24          | 0.00                |         |
| 11200.00                                                                           | 90.00      | 179.58    | 9574.00        | 1871.92       | -1871.87            | 13.73               | 378906.11           | 794450.97          | 0.00                |         |
| 11300.00                                                                           | 90.00      | 179.58    | 9574.00        | 1971.92       | -1971.86            | 14.47               | 378806.12           | 794451.71          | 0.00                |         |
| 11400.00                                                                           | 90.00      | 179.58    | 9574.00        | 2071.92       | -2071.86            | 15.20               | 378706.12           | 794452.44          | 0.00                |         |
| 11500.00                                                                           | 90.00      | 179.58    | 9574.00        | 2171.92       | -2171.86            | 15.94               | 378606.12           | 794453.18          | 0.00                |         |
| 11600.00                                                                           | 90.00      | 179.58    | 9574.00        | 2271.92       | -2271.86            | 16.67               | 378506.12           | 794453.91          | 0.00                |         |
| 11700.00                                                                           | 90.00      | 179.58    | 9574.00        | 2371.92       | -2371.85            | 17.40               | 378406.13           | 794454.64          | 0.00                |         |
| 11800.00                                                                           | 90.00      | 179.58    | 9574.00        | 2471.92       | -2471.85            | 18.14               | 378306.13           | 794455.38          | 0.00                |         |
| 11900.00                                                                           | 90.00      | 179.58    | 9574.00        | 2571.92       | -2571.85            | 18.87               | 378206.13           | 794456.11          | 0.00                |         |
| 12000.00                                                                           | 90.00      | 179.58    | 9574.00        | 2671.92       | -2671.85            | 19.60               | 378106.13           | 794456.84          | 0.00                |         |
| 12100.00                                                                           | 90.00      | 179.58    | 9574.00        | 2771.92       | -2771.84            | 20.34               | 378006.14           | 794457.58          | 0.00                |         |
| 12200.00                                                                           | 90.00      | 179.58    | 9574.00        | 2871.92       | -2871.84            | 21.07               | 377906.14           | 794458.31          | 0.00                |         |
| 12300.00                                                                           | 90.00      | 179.58    | 9574.00        | 2971.92       | -2971.84            | 21.81               | 377806.14           | 794459.05          | 0.00                |         |
| 12400.00                                                                           | 90.00      | 179.58    | 9574.00        | 3071.92       | -3071.84            | 22.54               | 377706.14           | 794459.78          | 0.00                |         |
| 12500.00                                                                           | 90.00      | 179.58    | 9574.00        | 3171.92       | -3171.83            | 23.27               | 377606.15           | 794460.51          | 0.00                |         |
| 12600.00                                                                           | 90.00      | 179.58    | 9574.00        | 3271.92       | -3271.83            | 24.01               | 377506.15           | 794461.25          | 0.00                |         |
| 12700.00                                                                           | 90.00      | 179.58    | 9574.00        | 3371.92       | -3371.83            | 24.74               | 377406.15           | 794461.98          | 0.00                |         |
| 12800.00                                                                           | 90.00      | 179.58    | 9574.00        | 3471.92       | -3471.82            | 25.47               | 377306.16           | 794462.71          | 0.00                |         |
| 12900.00                                                                           | 90.00      | 179.58    | 9574.00        | 3571.92       | -3571.82            | 26.21               | 377206.16           | 794463.45          | 0.00                |         |
| 13000.00                                                                           | 90.00      | 179.58    | 9574.00        | 3671.92       | -3671.82            | 26.94               | 377106.16           | 794464.18          | 0.00                |         |
| 13100.00                                                                           | 90.00      | 179.58    | 9574.00        | 3771.92       | -3771.82            | 27.68               | 377006.16           | 794464.92          | 0.00                |         |
| 13200.00                                                                           | 90.00      | 179.58    | 9574.00        | 3871.92       | -3871.81            | 28.41               | 376906.17           | 794465.65          | 0.00                |         |
| 13300.00                                                                           | 90.00      | 179.58    | 9574.00        | 3971.92       | -3971.81            | 29.14               | 376806.17           | 794466.38          | 0.00                |         |
| 13400.00                                                                           | 90.00      | 179.58    | 9574.00        | 4071.92       | -4071.81            | 29.88               | 376706.17           | 794467.12          | 0.00                |         |
| 13500.00                                                                           | 90.00      | 179.58    | 9574.00        | 4171.92       | -4171.81            | 30.61               | 376606.17           | 794467.85          | 0.00                |         |
| 13600.00                                                                           | 90.00      | 179.58    | 9574.00        | 4271.92       | -4271.80            | 31.34               | 376506.18           | 794468.58          | 0.00                |         |
| 13700.00                                                                           | 90.00      | 179.58    | 9574.00        | 4371.92       | -4371.80            | 32.08               | 376406.18           | 794469.32          | 0.00                |         |
| 13800.00                                                                           | 90.00      | 179.58    | 9574.00        | 4471.92       | -4471.80            | 32.81               | 376306.18           | 794470.05          | 0.00                |         |
| 13900.00                                                                           | 90.00      | 179.58    | 9574.00        | 4571.92       | -4571.79            | 33.55               | 376206.19           | 794470.79          | 0.00                |         |
| 14000.00                                                                           | 90.00      | 179.58    | 9574.00        | 4671.92       | -4671.79            | 34.28               | 376106.19           | 794471.52          | 0.00                |         |
| 14100.00                                                                           | 90.00      | 179.58    | 9574.00        | 4771.92       | -4771.79            | 35.01               | 376006.19           | 794472.25          | 0.00                |         |
| 14200.00                                                                           | 90.00      | 179.58    | 9574.00        | 4871.92       | -4871.79            | 35.75               | 375906.19           | 794472.99          | 0.00                |         |
| 14300.00                                                                           | 90.00      | 179.58    | 9574.00        | 4971.92       | -4971.78            | 36.48               | 375806.20           | 794473.72          | 0.00                |         |
| 14400.00                                                                           | 90.00      | 179.58    | 9574.00        | 5071.92       | -5071.78            | 37.21               | 375706.20           | 794474.45          | 0.00                |         |
| 14500.00                                                                           | 90.00      | 179.58    | 9574.00        | 5171.92       | -5171.78            | 37.95               | 375606.20           | 794475.19          | 0.00                |         |
| 14600.00                                                                           | 90.00      | 179.58    | 9574.00        | 5271.92       | -5271.78            | 38.68               | 375506.20           | 794475.92          | 0.00                |         |
| 14700.00                                                                           | 90.00      | 179.58    | 9574.00        | 5371.92       | -5371.77            | 39.41               | 375406.21           | 794476.65          | 0.00                |         |
| 14800.00                                                                           | 90.00      | 179.58    | 9574.00        | 5471.92       | -5471.77            | 40.15               | 375306.21           | 794477.39          | 0.00                |         |
| 14900.00                                                                           | 90.00      | 179.58    | 9574.00        | 5571.92       | -5571.77            | 40.88               | 375206.21           | 794478.12          | 0.00                |         |
| 15000.00                                                                           | 90.00      | 179.58    | 9574.00        | 5671.92       | -5671.77            | 41.62               | 375106.21           | 794478.86          | 0.00                |         |
| 15100.00                                                                           | 90.00      | 179.58    | 9574.00        | 5771.92       | -5771.76            | 42.35               | 375006.22           | 794479.59          | 0.00                |         |
| 15200.00                                                                           | 90.00      | 179.58    | 9574.00        | 5871.92       | -5871.76            | 43.08               | 374906.22           | 794480.32          | 0.00                |         |
| 15300.00                                                                           | 90.00      | 179.58    | 9574.00        | 5971.92       | -5971.76            | 43.82               | 374806.22           | 794481.06          | 0.00                |         |
| 15400.00                                                                           | 90.00      | 179.58    | 9574.00        | 6071.92       | -6071.75            | 44.55               | 374706.23           | 794481.79          | 0.00                |         |
| 15500.00                                                                           | 90.00      | 179.58    | 9574.00        | 6171.92       | -6171.75            | 45.28               | 374606.23           | 794482.52          | 0.00                |         |
| 15600.00                                                                           | 90.00      | 179.58    | 9574.00        | 6271.92       | -6271.75            | 46.02               | 374506.23           | 794483.26          | 0.00                |         |
| 15700.00                                                                           | 90.00      | 179.58    | 9574.00        | 6371.92       | -6371.75            | 46.75               | 374406.23           | 794483.99          | 0.00                |         |
| 15800.00                                                                           | 90.00      | 179.58    | 9574.00        | 6471.92       | -6471.74            | 47.49               | 374306.24           | 794484.73          | 0.00                |         |
| 15900.00                                                                           | 90.00      | 179.58    | 9574.00        | 6571.92       | -6571.74            | 48.22               | 374206.24           | 794485.46          | 0.00                |         |
| 16000.00                                                                           | 90.00      | 179.58    | 9574.00        | 6671.92       | -6671.74            | 48.95               | 374106.24           | 794486.19          | 0.00                |         |
| 16100.00                                                                           | 90.00      | 179.58    | 9574.00        | 6771.92       | -6771.74            | 49.69               | 374006.24           | 794486.93          | 0.00                |         |

## 5D Plan Report

| Interpolated Points: (Relative to Slot centre)(TVD relative to Well TVD Reference) |            |           |                |               |                     |                     |                     |                    |                     |          |
|------------------------------------------------------------------------------------|------------|-----------|----------------|---------------|---------------------|---------------------|---------------------|--------------------|---------------------|----------|
| MD<br>(US ft)                                                                      | Inc<br>(°) | Az<br>(°) | TVD<br>(US ft) | VS<br>(US ft) | N.Offset<br>(US ft) | E.Offset<br>(US ft) | Northing<br>(US ft) | Easting<br>(US ft) | DLS<br>(°/100US ft) | Comment  |
| 16200.00                                                                           | 90.00      | 179.58    | 9574.00        | 6871.92       | -6871.73            | 50.42               | 373906.25           | 794487.66          | 0.00                |          |
| 16300.00                                                                           | 90.00      | 179.58    | 9574.00        | 6971.92       | -6971.73            | 51.15               | 373806.25           | 794488.39          | 0.00                |          |
| 16400.00                                                                           | 90.00      | 179.58    | 9574.00        | 7071.92       | -7071.73            | 51.89               | 373706.25           | 794489.13          | 0.00                |          |
| 16500.00                                                                           | 90.00      | 179.58    | 9574.00        | 7171.92       | -7171.72            | 52.62               | 373606.26           | 794489.86          | 0.00                |          |
| 16600.00                                                                           | 90.00      | 179.58    | 9574.00        | 7271.92       | -7271.72            | 53.36               | 373506.26           | 794490.60          | 0.00                |          |
| 16700.00                                                                           | 90.00      | 179.58    | 9574.00        | 7371.92       | -7371.72            | 54.09               | 373406.26           | 794491.33          | 0.00                |          |
| 16800.00                                                                           | 90.00      | 179.58    | 9574.00        | 7471.92       | -7471.72            | 54.82               | 373306.26           | 794492.06          | 0.00                |          |
| 16900.00                                                                           | 90.00      | 179.58    | 9574.00        | 7571.92       | -7571.71            | 55.56               | 373206.27           | 794492.80          | 0.00                |          |
| 17000.00                                                                           | 90.00      | 179.58    | 9574.00        | 7671.92       | -7671.71            | 56.29               | 373106.27           | 794493.53          | 0.00                |          |
| 17100.00                                                                           | 90.00      | 179.58    | 9574.00        | 7771.92       | -7771.71            | 57.02               | 373006.27           | 794494.26          | 0.00                |          |
| 17200.00                                                                           | 90.00      | 179.58    | 9574.00        | 7871.92       | -7871.71            | 57.76               | 372906.27           | 794495.00          | 0.00                |          |
| 17203.00                                                                           | 90.00      | 179.58    | 9574.00        | 7874.92       | -7874.71            | 57.78               | 372903.27           | 794495.02          | 0.00                | PBHL 21H |

| Formation Points: (Relative to Slot centre)(TVD relative to Well TVD Reference) |               |            |           |                |                     |                     |                     |                    |  |
|---------------------------------------------------------------------------------|---------------|------------|-----------|----------------|---------------------|---------------------|---------------------|--------------------|--|
| Name                                                                            | MD<br>(US ft) | Inc<br>(°) | Az<br>(°) | TVD<br>(US ft) | N.Offset<br>(US ft) | E.Offset<br>(US ft) | Northing<br>(US ft) | Easting<br>(US ft) |  |
| 1BSSS                                                                           | N/A           | 0.00       | 0.00      | 10460.00       | 0.00                | 0.00                | 380777.98           | 794437.24          |  |
| Rustler                                                                         | 783.00        | 0.00       | 0.00      | 783.00         | 0.00                | 0.00                | 380777.98           | 794437.24          |  |
| Base of Salt                                                                    | 5004.00       | 0.00       | 0.00      | 5004.00        | 0.00                | 0.00                | 380777.98           | 794437.24          |  |
| Delaware                                                                        | 5260.00       | 0.00       | 0.00      | 5260.00        | 0.00                | 0.00                | 380777.98           | 794437.24          |  |
| Lwr Brushy                                                                      | 9321.44       | 32.04      | 179.58    | 9305.00        | -87.27              | 0.64                | 380690.71           | 794437.88          |  |
| 1BSLM                                                                           | 9667.35       | 66.63      | 179.58    | 9527.00        | -345.68             | 2.54                | 380432.30           | 794439.78          |  |
| Leonard A                                                                       | 9765.32       | 76.43      | 179.58    | 9558.00        | -438.49             | 3.22                | 380339.49           | 794440.46          |  |

## Devon Energy, Fighting Okra 18-19 Feb 21H

## 1. Geologic Formations

|               |         |                               |     |
|---------------|---------|-------------------------------|-----|
| TVD of target | 9,574'  | Pilot hole depth              | n/a |
| MD at TD:     | 17,203' | Deepest expected fresh water: |     |

## Basin

[illegible]

\*H<sub>2</sub>S, water flows, loss of circulation, abnormal pressures, etc.

## Devon Energy, Fighting Okra 18-19 Fed 21H

### 2. Casing Program

| Hole Size                 | Casing Interval |                         | Csg. Size | Weight (lbs) | Grade  | Conn | SF Collapse | SF Burst | SF Tension         |
|---------------------------|-----------------|-------------------------|-----------|--------------|--------|------|-------------|----------|--------------------|
|                           | From            | To                      |           |              |        |      |             |          |                    |
| 17.5"                     | 0               | 930'                    | 13.375"   | 48           | H-40   | STC  | 1.73        | 3.38     | 2.32               |
| 12.25"                    | 0               | 4,000'                  | 9.625"    | 40           | J-55   | BTC  | 1.21        | 1.37     | 2.23               |
| 12.25"                    | 4,000'          | 5,395' <del>5,250</del> | 9.625"    | 40           | HCK-55 | BTC  | 1.33        | 2.54     | 4.28               |
| 8.75"                     | 0               | 17,203'                 | 5.5"      | 17           | P-110  | BTC  | 1.49        | 1.25     | 2.17               |
| BLM Minimum Safety Factor |                 |                         |           |              |        |      | 1.125       | 1.00     | 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

|                                                                                                                                                  | 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, Fighting Okra 18-19 Fed 21H

### 3. Cementing Program

| Casing                | # Sk             | Wt.<br>lb/<br>gal | H <sub>2</sub> O<br>gal/sk | Yld<br>ft <sup>3</sup> /<br>sack | 500#<br>Comp.<br>Strength<br>(hours) | Slurry Description                                                                                                                                    |
|-----------------------|------------------|-------------------|----------------------------|----------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13-3/8" Surface       | 1000             | 14.8              | 6.32                       | 1.33                             | 6                                    | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake                                                                                                    |
| 9-5/8" Inter.         | 1200             | 12.9              | 9.81                       | 1.85                             | 14                                   | Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake                                |
|                       | 430              | 14.8              | 6.32                       | 1.33                             | 6                                    | Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake                                                                                                    |
| 5-1/2" Prod.          | 290              | 11.9              | 12.89                      | 2.31                             | n/a                                  | Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000                       |
|                       | 330              | 12.5              | 10.86                      | 1.96                             | 30                                   | 1 <sup>st</sup> Stage Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake               |
|                       | 2130             | 14.5              | 5.31                       | 1.2                              | 25                                   | Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite                            |
| 5-1/2" Prod Two Stage | 530              | 11.9              | 12.89                      | 2.31                             | n/a                                  | 1 <sup>st</sup> Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 |
|                       | 2130             | 14.5              | 5.31                       | 1.2                              | 25                                   | 1 <sup>st</sup> Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite      |
|                       | DV Tool = 5445ft |                   |                            |                                  |                                      |                                                                                                                                                       |
|                       | 20               | 11                | 14.81                      | 2.55                             | 22                                   | 2 <sup>nd</sup> Stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake                                                                             |
|                       | 30               | 14.8              | 6.32                       | 1.33                             | 6                                    | 2 <sup>nd</sup> Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake                                                                              |

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

| Casing String                        | TOC                                                             | % Excess |
|--------------------------------------|-----------------------------------------------------------------|----------|
| 13-3/8" Surface                      | 0'                                                              | 100%     |
| 9-5/8" Intermediate                  | 0'                                                              | 75%      |
| 5-1/2" Production Casing             | 5195' - 5050'                                                   | 25%      |
| 5-1/2" Production Casing – Two Stage | 1 <sup>st</sup> Stage = 5445ft / 2 <sup>nd</sup> Stage = 5195ft | 25%      |

5050'

#### 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% testing pressure    |
|                                                      |         |                  | Blind Ram  |   | 3M                      |
|                                                      |         |                  | Pipe Ram   |   |                         |
|                                                      |         |                  | Double Ram | x |                         |
|                                                      |         |                  | Other*     |   |                         |
|                                                      |         |                  |            |   |                         |
|                                                      |         |                  |            |   |                         |
|                                                      |         |                  |            |   |                         |
|                                                      |         |                  |            |   |                         |
|                                                      |         |                  |            |   |                         |

\*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.                                                                                                                                                               |

## Devon Energy, Fighting Okra 18-19 Fed 21H

|   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | 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 vendor representatives.</li> <li>• If the welding is performed by a third party, the vendor representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.</li> <li>• Vendor representative will install the test plug for the initial BOP test.</li> <li>• Vendor will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, 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> <li>• 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.</li> <li>• Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.</li> <li>• Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.</li> </ul> <p>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.</p> <p>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.</p> <p>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.</p> <p>Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.</p> |

## Devon Energy, Fighting Okra 18-19 Fed 21H

|  |                         |
|--|-------------------------|
|  | See attached schematic. |
|--|-------------------------|

### 5. Mud Program

| Depth  |         | Type            | Weight (ppg) | Viscosity | Water Loss |
|--------|---------|-----------------|--------------|-----------|------------|
| From   | To      |                 |              |           |            |
| 0      | 930'    | FW Gel          | 8.6-8.8      | 28-34     | N/C        |
| 930'   | 5,395'  | Saturated Brine | 10.0-10.2    | 28-34     | N/C        |
| 5,395' | 17,203' | 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

| Logging, Coring and Testing. |                                                                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                     |

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

## Devon Energy, Fighting Okra 18-19 Fed 21H

### 7. Drilling Conditions

| Condition                  | Specify what type and where? |
|----------------------------|------------------------------|
| BH Pressure at deepest TVD | 4630 psi                     |
| Abnormal Temperature       | No                           |

Mitigation measure for abnormal conditions: 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

☒ Directional Plan

☐ Other, describe