

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

State of New Mexico **RECEIVED**  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505  
JAN 24 2020  
EMNRD-OCD ARTESIA

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

AS-DRILLED PLAT

|                                          |                                                     |                                                      |
|------------------------------------------|-----------------------------------------------------|------------------------------------------------------|
| <sup>1</sup> API Number<br>30-015- 45254 | <sup>2</sup> Pool Code<br>97020                     | <sup>3</sup> Pool Name<br>HACKBERRY; BONE SPRING, NW |
| <sup>4</sup> Property Code<br>322449     | <sup>5</sup> Property Name<br>BUBBLES 22 15 FEDERAL | <sup>6</sup> Well Number<br>2H                       |
| <sup>7</sup> OGRID No.<br>005380         | <sup>8</sup> Operator Name<br>XTO ENERGY, INC.      | <sup>9</sup> Elevation<br>3,307'                     |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| J             | 22      | 19 S     | 30 E  |         | 1,914         | SOUTH            | 1,550         | EAST           | EDDY   |

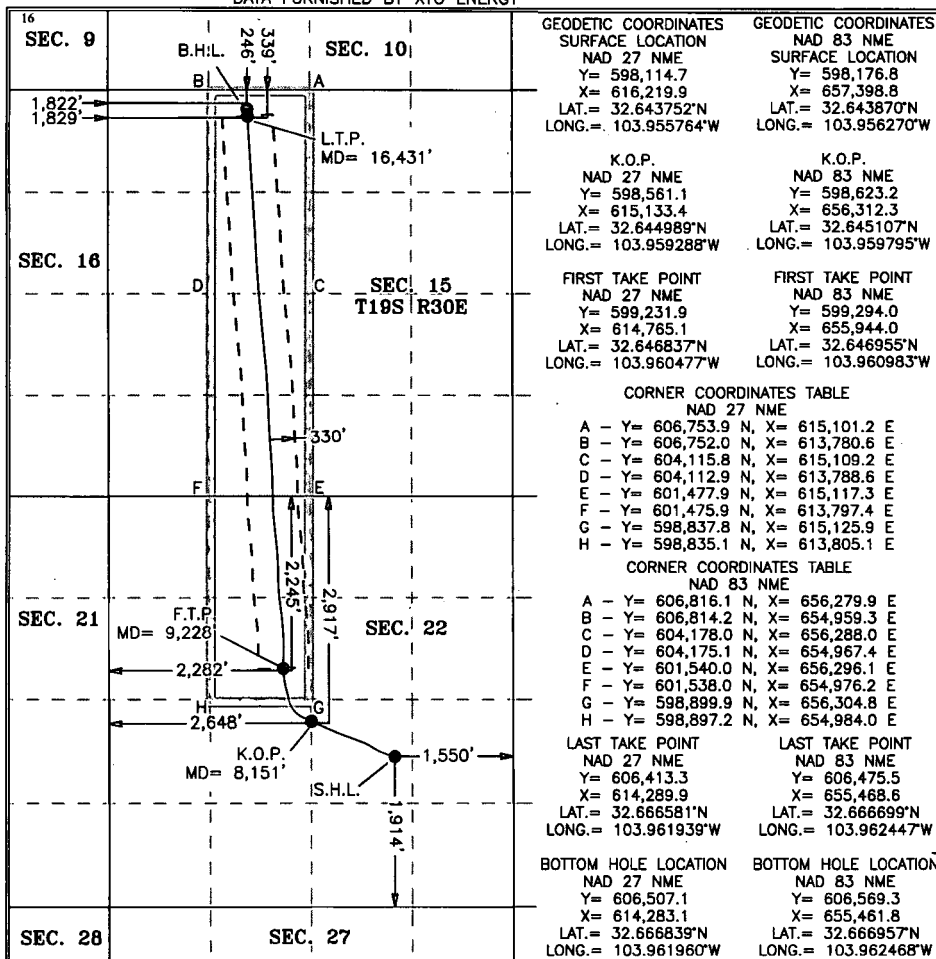
<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| C             | 15      | 19 S     | 30 E  |         | 246           | NORTH            | 1,822         | WEST           | EDDY   |

|                                      |                               |                                  |                         |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>240 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|

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

NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM  
DATA FURNISHED BY XTO ENERGY



<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cheryl Rowell 1/16/20

Signature Date

Cheryl Rowell

Printed Name

cheryl\_rowell@xtoenergy.com

E-mail Address

<sup>18</sup> SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

1-16-2020

Date of Survey

Signature and Seal of  
Professional Surveyor:

MARK DILLON HARP 23786  
Certificate Number



AW/JC 2019051394

~SHL Loc ~ Rounding,  
B.H.L. - As Drilled.

RWP 4-10-2020

Intent ☐ As Drilled ☒

|                                   |  |                                         |                   |
|-----------------------------------|--|-----------------------------------------|-------------------|
| API #<br>30-015-45254             |  |                                         |                   |
| Operator Name:<br>XTO ENERGY INC. |  | Property Name:<br>BUBBLES 22 15 FEDERAL | Well Number<br>2H |

Kick Off Point (KOP)

|                       |               |                 |              |     |                         |                 |              |                 |                |
|-----------------------|---------------|-----------------|--------------|-----|-------------------------|-----------------|--------------|-----------------|----------------|
| UL<br>J               | Section<br>22 | Township<br>19S | Range<br>30E | Lot | Feet<br>1914            | From N/S<br>FNL | Feet<br>1550 | From E/W<br>FEL | County<br>EDDY |
| Latitude<br>32.645107 |               |                 |              |     | Longitude<br>103.959795 |                 |              | NAD<br>83       |                |

First Take Point (FTP)

|                       |               |                 |              |     |                         |                 |              |                 |                |
|-----------------------|---------------|-----------------|--------------|-----|-------------------------|-----------------|--------------|-----------------|----------------|
| UL<br>F               | Section<br>22 | Township<br>19S | Range<br>30E | Lot | Feet<br>2245            | From N/S<br>FNL | Feet<br>2282 | From E/W<br>FWL | County<br>EDDY |
| Latitude<br>32.646955 |               |                 |              |     | Longitude<br>103.960983 |                 |              | NAD<br>83       |                |

Last Take Point (LTP)

|                      |               |                 |              |     |                         |                 |              |                 |                |
|----------------------|---------------|-----------------|--------------|-----|-------------------------|-----------------|--------------|-----------------|----------------|
| UL<br>C              | Section<br>15 | Township<br>19S | Range<br>30E | Lot | Feet<br>339             | From N/S<br>FNL | Feet<br>1829 | From E/W<br>FWL | County<br>EDDY |
| Latitude<br>32.66699 |               |                 |              |     | Longitude<br>103.962447 |                 |              | NAD<br>83       |                |

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

Is this well an infill well? ☐

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

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

KZ 06/29/2018



RECEIVED

JAN 24 2020

I **Cary Rodriguez**, certify that I am employed by **Scout Downhole Inc. (SDI)**. That I did on the day(s) of **12/24/18** thru **04/15/19** conduct or supervise the taking of a **MWD Survey** from a depth of **146'** to a depth of **16525'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Scout Downhole Inc. (SDI)**.; that I am authorized and qualified to make this report; that this survey was conducted at the request of **XTO Energy** for the **Bubbles 2215 Federal 2H** API No. **30-015-45254** in **Eddy County, NM**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Scout Downhole Inc. (SDI)**.

Cary Rodriguez

Cary

Rodriguez

Digitally signed by: Cary  
Rodriguez  
DN: CN = Cary Rodriguez email  
=crodriguez@scoutdownhole.  
com, C = US, O = Scout  
Downhole  
Date: 2020.01.16 08:54:20 -  
06'00'

1125 Beach Airport Rd, Conroe, Texas  
77301

PH 936-756-3225 FAX 936-756-3248



**RECEIVED**

**JAN 24 2020**

**EMNRD-OCD ARTESIA**

## **XTO Energy**

**Eddy County, NM**

**Bubbles 2215 Federal**

**Bubbles 2215 Federal #2H**

**Wellbore #1**

**Survey: Scout MWD**

## **Standard Survey Report**

**18 July, 2019**



**a business unit of Turbo Drill Industries, Inc.**



## Survey Report



|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
| Company:  | XTO Energy               | Local Co-ordinate Reference: | Well Bubbles 2215 Federal #2H                |
| Project:  | Eddy County, NM          | TVD Reference:               | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Site:     | Bubbles 2215 Federal     | MD Reference:                | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Well:     | Bubbles 2215 Federal #2H | North Reference:             | Grid                                         |
| Wellbore: | Wellbore #1              | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | EDM 5000.14 Single User Db                   |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Eddy County, NM                      |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

|                       |                      |                   |                   |
|-----------------------|----------------------|-------------------|-------------------|
| Site                  | Bubbles 2215 Federal |                   |                   |
| Site Position:        |                      | Northing:         | 598,106.00 usft   |
| From:                 | Map                  | Easting:          | 616,169.60 usft   |
| Position Uncertainty: | 0.00 usft            | Slot Radius:      | 13-3/16 "         |
|                       |                      | Latitude:         | 32° 38' 37.422 N  |
|                       |                      | Longitude:        | 103° 57' 21.337 W |
|                       |                      | Grid Convergence: | 0.20 °            |

|                      |                          |                     |                   |
|----------------------|--------------------------|---------------------|-------------------|
| Well                 | Bubbles 2215 Federal #2H |                     |                   |
| Well Position        | +N/-S                    | 0.00 usft           | Northing:         |
|                      | +E/-W                    | 0.00 usft           | Easting:          |
| Position Uncertainty | 0.00 usft                | Wellhead Elevation: | usft              |
|                      |                          | Latitude:           | 32° 38' 37.505 N  |
|                      |                          | Longitude:          | 103° 57' 20.760 W |
|                      |                          | Ground Level:       | 3,307.00 usft     |

|           |             |             |                 |
|-----------|-------------|-------------|-----------------|
| Wellbore  | Wellbore #1 |             |                 |
| Magnetics | Model Name  | Sample Date | Declination     |
|           |             |             | (°)             |
|           | HDGM        | 12/19/18    | 7.35            |
|           |             |             | Dip Angle       |
|           |             |             | (°)             |
|           |             |             | Field Strength  |
|           |             |             | (nT)            |
|           |             |             | 48,164.60000000 |

|                   |                  |               |        |
|-------------------|------------------|---------------|--------|
| Design            | Surveys          |               |        |
| Audit Notes:      |                  |               |        |
| Version:          | 1.0              | Phase:        | ACTUAL |
|                   |                  | Tie On Depth: | 0.00   |
| Vertical Section: | Depth From (TVD) | +N/-S         | +E/-W  |
|                   | (usft)           | (usft)        | (usft) |
|                   | 0.00             | 0.00          | 0.00   |
|                   |                  |               | 356.02 |

|                |               |                         |                                            |
|----------------|---------------|-------------------------|--------------------------------------------|
| Survey Program | Date 07/18/19 |                         |                                            |
| From           | To            | Survey (Wellbore)       | Tool Name                                  |
| (usft)         | (usft)        |                         | Description                                |
| 146.00         | 16,577.00     | Scout MWD (Wellbore #1) | A008Mb_MWD+IFR1+MS                         |
|                |               |                         | OWSG MWD + IFR1 + Multi-Station Correction |

|                                     |             |         |          |        |        |          |             |             |             |  |
|-------------------------------------|-------------|---------|----------|--------|--------|----------|-------------|-------------|-------------|--|
| Survey                              |             |         |          |        |        |          |             |             |             |  |
| Measured                            | Inclination | Azimuth | Vertical | +N/-S  | +E/-W  | Vertical | Dogleg      | Build       | Turn        |  |
| Depth                               | (°)         | (°)     | Depth    | (usft) | (usft) | Section  | Rate        | Rate        | Rate        |  |
| (usft)                              |             |         | (usft)   |        |        | (usft)   | (°/100usft) | (°/100usft) | (°/100usft) |  |
| 0.00                                | 0.00        | 0.00    | 0.00     | 0.00   | 0.00   | 0.00     | 0.00        | 0.00        | 0.00        |  |
| 146.00                              | 1.14        | 359.86  | 145.99   | 1.45   | 0.00   | 1.45     | 0.78        | 0.78        | 0.00        |  |
| First Scout MWD Survey @ 146.00' MD |             |         |          |        |        |          |             |             |             |  |
| 237.00                              | 1.23        | 8.91    | 236.97   | 3.32   | 0.15   | 3.30     | 0.23        | 0.10        | 9.95        |  |
| 330.00                              | 1.23        | 358.19  | 329.95   | 5.31   | 0.27   | 5.27     | 0.25        | 0.00        | -11.53      |  |
| 386.00                              | 1.01        | 5.57    | 385.94   | 6.40   | 0.30   | 6.36     | 0.47        | -0.39       | 13.18       |  |
| 522.00                              | 0.66        | 358.36  | 521.92   | 8.37   | 0.39   | 8.33     | 0.27        | -0.26       | -5.30       |  |
| 617.00                              | 0.66        | 12.25   | 616.92   | 9.46   | 0.49   | 9.40     | 0.17        | 0.00        | 14.62       |  |
| 706.00                              | 0.31        | 329.44  | 705.92   | 10.16  | 0.48   | 10.11    | 0.54        | -0.39       | -48.10      |  |
| 800.00                              | 0.22        | 301.85  | 799.91   | 10.48  | 0.20   | 10.44    | 0.16        | -0.10       | -29.35      |  |
| 895.00                              | 0.18        | 329.53  | 894.91   | 10.70  | -0.03  | 10.68    | 0.11        | -0.04       | 29.14       |  |



## Survey Report



|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
| Company:  | XTO Energy               | Local Co-ordinate Reference: | Well Bubbles 2215 Federal #2H                |
| Project:  | Eddy County, NM          | TVD Reference:               | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Site:     | Bubbles 2215 Federal     | MD Reference:                | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Well:     | Bubbles 2215 Federal #2H | North Reference:             | Grid                                         |
| Wellbore: | Wellbore #1              | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | EDM 5000.14 Single User Db                   |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 990.00                | 0.35            | 322.06      | 989.91                | 11.06        | -0.29        | 11.05                   | 0.18                    | 0.18                   | -7.86                 |
| 1,085.00              | 0.31            | 331.91      | 1,084.91              | 11.52        | -0.59        | 11.53                   | 0.07                    | -0.04                  | 10.37                 |
| 1,180.00              | 0.44            | 349.66      | 1,179.91              | 12.10        | -0.77        | 12.13                   | 0.18                    | 0.14                   | 18.68                 |
| 1,275.00              | 0.57            | 341.66      | 1,274.91              | 12.91        | -0.99        | 12.95                   | 0.16                    | 0.14                   | -8.42                 |
| 1,370.00              | 0.66            | 339.11      | 1,369.90              | 13.87        | -1.33        | 13.93                   | 0.10                    | 0.09                   | -2.68                 |
| 1,465.00              | 0.53            | 344.21      | 1,464.89              | 14.80        | -1.65        | 14.88                   | 0.15                    | -0.14                  | 5.37                  |
| 1,586.00              | 0.79            | 330.41      | 1,585.89              | 16.07        | -2.21        | 16.18                   | 0.25                    | 0.21                   | -11.40                |
| 1,650.00              | 0.70            | 343.07      | 1,649.88              | 16.82        | -2.54        | 16.96                   | 0.29                    | -0.14                  | 19.78                 |
| 1,744.00              | 1.10            | 183.46      | 1,743.88              | 16.47        | -2.77        | 16.63                   | 1.89                    | 0.43                   | -169.80               |
| 1,839.00              | 0.79            | 175.46      | 1,838.86              | 14.91        | -2.77        | 15.07                   | 0.35                    | -0.33                  | -8.42                 |
| 1,934.00              | 0.57            | 167.46      | 1,933.86              | 13.80        | -2.61        | 13.94                   | 0.25                    | -0.23                  | -8.42                 |
| 2,029.00              | 0.57            | 177.22      | 2,028.85              | 12.86        | -2.49        | 13.00                   | 0.10                    | 0.00                   | 10.27                 |
| 2,123.00              | 0.79            | 163.77      | 2,122.85              | 11.77        | -2.28        | 11.90                   | 0.29                    | 0.23                   | -14.31                |
| 2,218.00              | 0.92            | 155.33      | 2,217.83              | 10.45        | -1.78        | 10.55                   | 0.19                    | 0.14                   | -8.88                 |
| 2,313.00              | 0.75            | 153.49      | 2,312.82              | 9.20         | -1.19        | 9.26                    | 0.18                    | -0.18                  | -1.94                 |
| 2,408.00              | 0.92            | 174.93      | 2,407.81              | 7.89         | -0.84        | 7.93                    | 0.37                    | 0.18                   | 22.57                 |
| 2,503.00              | 1.14            | 167.11      | 2,502.80              | 6.21         | -0.56        | 6.23                    | 0.27                    | 0.23                   | -8.23                 |
| 2,598.00              | 1.36            | 166.50      | 2,597.78              | 4.19         | -0.09        | 4.18                    | 0.23                    | 0.23                   | -0.64                 |
| 2,693.00              | 1.32            | 154.98      | 2,692.75              | 2.10         | 0.64         | 2.05                    | 0.29                    | -0.04                  | -12.13                |
| 2,788.00              | 1.45            | 159.38      | 2,787.72              | -0.02        | 1.52         | -0.12                   | 0.18                    | 0.14                   | 4.63                  |
| 2,882.00              | 1.32            | 152.35      | 2,881.70              | -2.09        | 2.44         | -2.25                   | 0.23                    | -0.14                  | -7.48                 |
| 2,977.00              | 1.54            | 157.53      | 2,976.67              | -4.24        | 3.44         | -4.47                   | 0.27                    | 0.23                   | 5.45                  |
| 3,072.00              | 1.32            | 152.08      | 3,071.64              | -6.38        | 4.44         | -6.68                   | 0.27                    | -0.23                  | -5.74                 |
| 3,167.00              | 1.32            | 154.98      | 3,166.61              | -8.34        | 5.41         | -8.70                   | 0.07                    | 0.00                   | 3.05                  |
| 3,262.00              | 1.19            | 160.87      | 3,261.59              | -10.27       | 6.20         | -10.67                  | 0.19                    | -0.14                  | 6.20                  |
| 3,357.00              | 1.45            | 156.56      | 3,356.56              | -12.30       | 7.00         | -12.76                  | 0.29                    | 0.27                   | -4.54                 |
| 3,452.00              | 0.35            | 254.39      | 3,451.55              | -13.48       | 7.20         | -13.95                  | 1.62                    | -1.16                  | 102.98                |
| 3,547.00              | 0.18            | 339.29      | 3,546.55              | -13.42       | 6.87         | -13.86                  | 0.40                    | -0.18                  | 89.37                 |
| 3,642.00              | 0.26            | 276.80      | 3,641.55              | -13.26       | 6.60         | -13.68                  | 0.25                    | 0.08                   | -65.78                |
| 3,737.00              | 0.22            | 338.41      | 3,736.55              | -13.06       | 6.32         | -13.47                  | 0.26                    | -0.04                  | 64.85                 |
| 3,831.00              | 0.26            | 272.49      | 3,830.55              | -12.88       | 6.04         | -13.27                  | 0.28                    | 0.04                   | -70.13                |
| 3,925.00              | 0.40            | 290.16      | 3,924.55              | -12.76       | 5.52         | -13.11                  | 0.18                    | 0.15                   | 18.80                 |
| 4,011.00              | 0.40            | 306.86      | 4,010.55              | -12.48       | 5.00         | -12.79                  | 0.14                    | 0.00                   | 19.42                 |
| 4,122.00              | 0.18            | 32.99       | 4,121.55              | -12.10       | 4.78         | -12.40                  | 0.39                    | -0.20                  | 77.59                 |
| 4,199.00              | 0.18            | 57.77       | 4,198.55              | -11.93       | 4.95         | -12.25                  | 0.10                    | 0.00                   | 32.18                 |
| 4,295.00              | 0.26            | 48.99       | 4,294.54              | -11.71       | 5.24         | -12.04                  | 0.09                    | 0.08                   | -9.15                 |
| 4,389.00              | 0.22            | 14.88       | 4,388.54              | -11.39       | 5.45         | -11.75                  | 0.16                    | -0.04                  | -36.29                |
| 4,484.00              | 1.27            | 285.76      | 4,483.54              | -10.93       | 4.48         | -11.22                  | 1.35                    | 1.11                   | -93.81                |
| 4,579.00              | 5.10            | 283.48      | 4,578.37              | -9.66        | -0.64        | -9.59                   | 4.03                    | 4.03                   | -2.40                 |
| 4,674.00              | 8.18            | 284.88      | 4,672.72              | -6.94        | -11.28       | -6.14                   | 3.25                    | 3.24                   | 1.47                  |
| 4,769.00              | 9.19            | 290.42      | 4,766.63              | -2.56        | -24.92       | -0.82                   | 1.38                    | 1.06                   | 5.83                  |
| 4,863.00              | 9.67            | 296.57      | 4,859.37              | 3.59         | -39.02       | 6.29                    | 1.19                    | 0.51                   | 6.54                  |
| 4,958.00              | 12.13           | 290.51      | 4,952.65              | 10.66        | -55.50       | 14.49                   | 2.85                    | 2.59                   | -6.38                 |



## Survey Report



|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
| Company:  | XTO Energy               | Local Co-ordinate Reference: | Well Bubbles 2215 Federal #2H                |
| Project:  | Eddy County, NM          | TVD Reference:               | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Site:     | Bubbles 2215 Federal     | MD Reference:                | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Well:     | Bubbles 2215 Federal #2H | North Reference:             | Grid                                         |
| Wellbore: | Wellbore #1              | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | EDM 5000.14 Single User Db                   |

| Survey                |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,053.00              | 15.34           | 288.93      | 5,044.92              | 18.23        | -76.74       | 23.52                   | 3.40                    | 3.38                   | -1.66                 |
| 5,148.00              | 18.51           | 292.18      | 5,135.80              | 28.01        | -102.60      | 35.06                   | 3.48                    | 3.34                   | 3.42                  |
| 5,243.00              | 21.58           | 290.69      | 5,225.03              | 39.87        | -132.92      | 49.00                   | 3.28                    | 3.23                   | -1.57                 |
| 5,338.00              | 22.64           | 289.89      | 5,313.04              | 52.27        | -166.46      | 63.70                   | 1.16                    | 1.12                   | -0.84                 |
| 5,432.00              | 22.77           | 293.23      | 5,399.76              | 65.60        | -200.19      | 79.34                   | 1.38                    | 0.14                   | 3.55                  |
| 5,527.00              | 21.45           | 296.40      | 5,487.78              | 80.57        | -232.64      | 96.53                   | 1.87                    | -1.39                  | 3.34                  |
| 5,622.00              | 20.22           | 301.06      | 5,576.57              | 96.77        | -262.27      | 114.74                  | 2.17                    | -1.29                  | 4.91                  |
| 5,716.00              | 20.09           | 301.94      | 5,664.81              | 113.69       | -289.88      | 133.54                  | 0.35                    | -0.14                  | 0.94                  |
| 5,810.00              | 20.18           | 301.32      | 5,753.07              | 130.66       | -317.43      | 152.38                  | 0.25                    | 0.10                   | -0.66                 |
| 5,905.00              | 19.91           | 298.16      | 5,842.32              | 146.81       | -345.69      | 170.45                  | 1.17                    | -0.28                  | -3.33                 |
| 5,999.00              | 19.91           | 293.06      | 5,930.71              | 160.64       | -374.53      | 186.25                  | 1.85                    | 0.00                   | -5.43                 |
| 6,094.00              | 19.91           | 291.48      | 6,020.03              | 172.90       | -404.47      | 200.55                  | 0.57                    | 0.00                   | -1.66                 |
| 6,189.00              | 19.43           | 292.00      | 6,109.48              | 184.74       | -434.17      | 214.43                  | 0.54                    | -0.51                  | 0.55                  |
| 6,284.00              | 19.21           | 292.09      | 6,199.13              | 196.54       | -463.30      | 228.22                  | 0.23                    | -0.23                  | 0.09                  |
| 6,379.00              | 19.43           | 291.92      | 6,288.78              | 208.31       | -492.44      | 241.99                  | 0.24                    | 0.23                   | -0.18                 |
| 6,474.00              | 21.27           | 289.10      | 6,377.85              | 219.85       | -523.39      | 255.65                  | 2.19                    | 1.94                   | -2.97                 |
| 6,568.00              | 20.66           | 289.19      | 6,465.63              | 230.88       | -555.16      | 268.86                  | 0.65                    | -0.65                  | 0.10                  |
| 6,663.00              | 21.36           | 289.81      | 6,554.31              | 242.25       | -587.27      | 282.43                  | 0.77                    | 0.74                   | 0.65                  |
| 6,758.00              | 20.62           | 290.07      | 6,643.01              | 253.86       | -619.26      | 296.23                  | 0.79                    | -0.78                  | 0.27                  |
| 6,853.00              | 21.93           | 289.45      | 6,731.53              | 265.50       | -651.70      | 310.10                  | 1.40                    | 1.38                   | -0.65                 |
| 6,948.00              | 20.35           | 288.84      | 6,820.14              | 276.75       | -684.06      | 323.56                  | 1.68                    | -1.66                  | -0.64                 |
| 7,043.00              | 19.78           | 289.02      | 6,909.37              | 287.32       | -714.89      | 336.25                  | 0.60                    | -0.60                  | 0.19                  |
| 7,137.00              | 21.89           | 291.74      | 6,997.22              | 298.99       | -746.21      | 350.07                  | 2.47                    | 2.24                   | 2.89                  |
| 7,232.00              | 22.95           | 293.23      | 7,085.04              | 312.86       | -779.68      | 366.22                  | 1.27                    | 1.12                   | 1.57                  |
| 7,327.00              | 21.71           | 293.76      | 7,172.91              | 327.25       | -812.78      | 382.87                  | 1.32                    | -1.31                  | 0.56                  |
| 7,422.00              | 24.53           | 293.15      | 7,260.28              | 342.08       | -847.00      | 400.04                  | 2.98                    | 2.97                   | -0.64                 |
| 7,517.00              | 24.09           | 293.85      | 7,346.85              | 357.67       | -882.87      | 418.09                  | 0.55                    | -0.46                  | 0.74                  |
| 7,612.00              | 21.32           | 293.50      | 7,434.48              | 372.40       | -916.45      | 435.11                  | 2.92                    | -2.92                  | -0.37                 |
| 7,708.00              | 21.01           | 293.50      | 7,524.01              | 386.22       | -948.23      | 451.11                  | 0.32                    | -0.32                  | 0.00                  |
| 7,802.00              | 20.66           | 294.38      | 7,611.86              | 399.79       | -978.79      | 466.76                  | 0.50                    | -0.37                  | 0.94                  |
| 7,897.00              | 19.91           | 294.64      | 7,700.97              | 413.45       | -1,008.76    | 482.47                  | 0.80                    | -0.79                  | 0.27                  |
| 7,992.00              | 19.91           | 293.23      | 7,790.29              | 426.57       | -1,038.33    | 497.61                  | 0.51                    | 0.00                   | -1.48                 |
| 8,087.00              | 18.51           | 292.71      | 7,880.00              | 438.78       | -1,067.10    | 511.78                  | 1.48                    | -1.47                  | -0.55                 |
| 8,096.00              | 18.38           | 292.34      | 7,888.53              | 439.87       | -1,069.73    | 513.05                  | 1.94                    | -1.44                  | -4.11                 |
| 8,191.00              | 20.38           | 290.53      | 7,978.15              | 451.36       | -1,099.08    | 526.56                  | 2.20                    | 2.11                   | -1.91                 |
| 8,239.00              | 22.17           | 291.42      | 8,022.87              | 457.60       | -1,115.34    | 533.91                  | 3.79                    | 3.73                   | 1.85                  |
| 8,286.00              | 25.17           | 292.52      | 8,065.92              | 464.67       | -1,132.83    | 542.18                  | 6.45                    | 6.38                   | 2.34                  |
| 8,334.00              | 28.92           | 294.32      | 8,108.66              | 473.36       | -1,152.84    | 552.24                  | 8.00                    | 7.81                   | 3.75                  |
| 8,381.00              | 31.25           | 294.70      | 8,149.33              | 483.14       | -1,174.28    | 563.48                  | 4.97                    | 4.96                   | 0.81                  |
| 8,428.00              | 33.16           | 295.66      | 8,189.09              | 493.80       | -1,196.94    | 575.69                  | 4.21                    | 4.06                   | 2.04                  |
| 8,470.00              | 34.26           | 295.91      | 8,224.03              | 503.94       | -1,217.93    | 587.26                  | 2.64                    | 2.62                   | 0.60                  |
| 8,518.00              | 41.17           | 299.22      | 8,261.98              | 517.57       | -1,243.91    | 602.66                  | 15.00                   | 14.40                  | 6.90                  |
| 8,565.00              | 50.40           | 307.59      | 8,294.75              | 536.23       | -1,271.84    | 623.21                  | 23.39                   | 19.64                  | 17.81                 |



## Survey Report



|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
| Company:  | XTO Energy               | Local Co-ordinate Reference: | Well Bubbles 2215 Federal #2H                |
| Project:  | Eddy County, NM          | TVD Reference:               | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Site:     | Bubbles 2215 Federal     | MD Reference:                | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Well:     | Bubbles 2215 Federal #2H | North Reference:             | Grid                                         |
| Wellbore: | Wellbore #1              | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | EDM 5000.14 Single User Db                   |

| Survey                |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 8,613.00              | 57.03           | 317.39      | 8,323.19              | 562.40       | -1,300.20    | 651.29                  | 21.46                   | 13.81                  | 20.42                 |  |
| 8,660.00              | 59.56           | 322.63      | 8,347.90              | 593.03       | -1,325.86    | 683.63                  | 10.90                   | 5.38                   | 11.15                 |  |
| 8,708.00              | 63.48           | 333.06      | 8,370.83              | 628.71       | -1,348.21    | 720.77                  | 20.76                   | 8.17                   | 21.73                 |  |
| 8,755.00              | 65.19           | 337.99      | 8,391.20              | 667.25       | -1,365.74    | 760.44                  | 10.13                   | 3.64                   | 10.49                 |  |
| 8,802.00              | 72.18           | 345.22      | 8,408.29              | 708.76       | -1,379.48    | 802.80                  | 20.64                   | 14.87                  | 15.38                 |  |
| 8,849.00              | 73.47           | 345.32      | 8,422.17              | 752.19       | -1,390.89    | 846.91                  | 2.75                    | 2.74                   | 0.21                  |  |
| 8,897.00              | 74.40           | 343.70      | 8,435.45              | 796.64       | -1,403.21    | 892.11                  | 3.78                    | 1.94                   | -3.38                 |  |
| 8,945.00              | 77.07           | 345.69      | 8,447.28              | 841.50       | -1,415.48    | 937.72                  | 6.86                    | 5.56                   | 4.15                  |  |
| 8,993.00              | 77.47           | 347.33      | 8,457.86              | 887.03       | -1,426.41    | 983.89                  | 3.44                    | 0.83                   | 3.42                  |  |
| 9,040.00              | 78.58           | 349.83      | 8,467.61              | 932.09       | -1,435.51    | 1,029.48                | 5.71                    | 2.36                   | 5.32                  |  |
| 9,088.00              | 80.26           | 351.08      | 8,476.42              | 978.62       | -1,443.33    | 1,076.44                | 4.34                    | 3.50                   | 2.60                  |  |
| 9,135.00              | 83.04           | 353.59      | 8,483.25              | 1,024.70     | -1,449.53    | 1,122.84                | 7.93                    | 5.91                   | 5.34                  |  |
| 9,183.00              | 85.15           | 356.76      | 8,488.19              | 1,072.27     | -1,453.54    | 1,170.57                | 7.90                    | 4.40                   | 6.60                  |  |
| 9,230.00              | 85.79           | 359.29      | 8,491.90              | 1,119.09     | -1,455.15    | 1,217.39                | 5.54                    | 1.36                   | 5.38                  |  |
| 9,277.00              | 87.06           | 359.53      | 8,494.83              | 1,165.99     | -1,455.64    | 1,264.21                | 2.75                    | 2.70                   | 0.51                  |  |
| 9,324.00              | 90.56           | 1.42        | 8,495.81              | 1,212.97     | -1,455.25    | 1,311.05                | 8.46                    | 7.45                   | 4.02                  |  |
| 9,417.00              | 92.77           | 1.00        | 8,493.11              | 1,305.90     | -1,453.28    | 1,403.62                | 2.42                    | 2.38                   | -0.45                 |  |
| 9,512.00              | 92.05           | 359.60      | 8,489.11              | 1,400.82     | -1,452.79    | 1,498.27                | 1.66                    | -0.76                  | -1.47                 |  |
| 9,606.00              | 89.05           | 358.12      | 8,488.21              | 1,494.78     | -1,454.66    | 1,592.14                | 3.56                    | -3.19                  | -1.57                 |  |
| 9,699.00              | 90.62           | 356.60      | 8,488.48              | 1,587.67     | -1,458.94    | 1,685.11                | 2.35                    | 1.69                   | -1.63                 |  |
| 9,792.00              | 89.38           | 354.82      | 8,488.48              | 1,680.41     | -1,465.90    | 1,778.10                | 2.33                    | -1.33                  | -1.91                 |  |
| 9,887.00              | 88.15           | 354.09      | 8,490.53              | 1,774.94     | -1,475.07    | 1,873.04                | 1.51                    | -1.29                  | -0.77                 |  |
| 9,982.00              | 89.80           | 352.66      | 8,492.22              | 1,869.28     | -1,486.03    | 1,967.92                | 2.30                    | 1.74                   | -1.51                 |  |
| 10,076.00             | 89.75           | 352.52      | 8,492.59              | 1,962.50     | -1,498.15    | 2,061.75                | 0.16                    | -0.05                  | -0.15                 |  |
| 10,171.00             | 87.14           | 354.07      | 8,495.17              | 2,056.80     | -1,509.24    | 2,156.60                | 3.19                    | -2.75                  | 1.63                  |  |
| 10,265.00             | 87.56           | 355.62      | 8,499.52              | 2,150.32     | -1,517.68    | 2,250.47                | 1.71                    | 0.45                   | 1.65                  |  |
| 10,358.00             | 86.69           | 358.27      | 8,504.18              | 2,243.06     | -1,522.63    | 2,343.34                | 3.00                    | -0.94                  | 2.85                  |  |
| 10,454.00             | 89.97           | 359.15      | 8,506.98              | 2,338.98     | -1,524.79    | 2,439.17                | 3.54                    | 3.42                   | 0.92                  |  |
| 10,549.00             | 91.93           | 358.23      | 8,505.41              | 2,433.94     | -1,526.96    | 2,534.05                | 2.28                    | 2.06                   | -0.97                 |  |
| 10,644.00             | 91.37           | 356.86      | 8,502.67              | 2,528.81     | -1,531.03    | 2,628.98                | 1.56                    | -0.59                  | -1.44                 |  |
| 10,739.00             | 91.65           | 355.87      | 8,500.17              | 2,623.58     | -1,537.05    | 2,723.94                | 1.08                    | 0.29                   | -1.04                 |  |
| 10,835.00             | 90.81           | 355.21      | 8,498.11              | 2,719.27     | -1,544.51    | 2,819.91                | 1.11                    | -0.88                  | -0.69                 |  |
| 10,930.00             | 88.82           | 354.26      | 8,498.41              | 2,813.86     | -1,553.23    | 2,914.88                | 2.32                    | -2.09                  | -1.00                 |  |
| 11,024.00             | 89.50           | 353.13      | 8,499.79              | 2,907.28     | -1,563.55    | 3,008.79                | 1.40                    | 0.72                   | -1.20                 |  |
| 11,119.00             | 89.47           | 353.75      | 8,500.64              | 3,001.66     | -1,574.40    | 3,103.69                | 0.65                    | -0.03                  | 0.65                  |  |
| 11,214.00             | 89.30           | 354.99      | 8,501.66              | 3,096.19     | -1,583.72    | 3,198.65                | 1.32                    | -0.18                  | 1.31                  |  |
| 11,309.00             | 88.77           | 357.79      | 8,503.26              | 3,190.98     | -1,589.70    | 3,293.62                | 3.00                    | -0.56                  | 2.95                  |  |
| 11,404.00             | 89.89           | 358.79      | 8,504.38              | 3,285.93     | -1,592.54    | 3,388.54                | 1.58                    | 1.18                   | 1.05                  |  |
| 11,498.00             | 91.90           | 358.40      | 8,502.91              | 3,379.88     | -1,594.84    | 3,482.43                | 2.18                    | 2.14                   | -0.41                 |  |
| 11,593.00             | 91.96           | 358.51      | 8,499.71              | 3,474.79     | -1,597.40    | 3,577.29                | 0.13                    | 0.06                   | 0.12                  |  |
| 11,688.00             | 91.29           | 358.29      | 8,497.01              | 3,569.72     | -1,600.05    | 3,672.17                | 0.74                    | -0.71                  | -0.23                 |  |
| 11,783.00             | 89.55           | 357.78      | 8,496.32              | 3,664.66     | -1,603.31    | 3,767.10                | 1.91                    | -1.83                  | -0.54                 |  |
| 11,878.00             | 89.80           | 356.29      | 8,496.86              | 3,759.52     | -1,608.22    | 3,862.08                | 1.59                    | 0.26                   | -1.57                 |  |
| 11,973.00             | 90.92           | 354.95      | 8,496.26              | 3,854.24     | -1,615.48    | 3,957.07                | 1.84                    | 1.18                   | -1.41                 |  |





# Survey Report



|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
| Company:  | XTO Energy               | Local Co-ordinate Reference: | Well Bubbles 2215 Federal #2H                |
| Project:  | Eddy County, NM          | TVD Reference:               | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Site:     | Bubbles 2215 Federal     | MD Reference:                | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Well:     | Bubbles 2215 Federal #2H | North Reference:             | Grid                                         |
| Wellbore: | Wellbore #1              | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | EDM 5000.14 Single User Db                   |

| Survey                |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 12,067.00             | 89.66           | 354.92      | 8,495.78              | 3,947.87     | -1,623.78    | 4,051.05                | 1.34                    | -1.34                  | -0.03                 |
| 12,160.00             | 89.05           | 356.58      | 8,496.83              | 4,040.61     | -1,630.67    | 4,144.04                | 1.90                    | -0.66                  | 1.78                  |
| 12,254.00             | 89.94           | 356.07      | 8,497.66              | 4,134.41     | -1,636.69    | 4,238.04                | 1.09                    | 0.95                   | -0.54                 |
| 12,349.00             | 91.18           | 356.36      | 8,496.73              | 4,229.19     | -1,642.96    | 4,333.03                | 1.34                    | 1.31                   | 0.31                  |
| 12,443.00             | 89.69           | 357.97      | 8,496.02              | 4,323.07     | -1,647.61    | 4,427.00                | 2.33                    | -1.59                  | 1.71                  |
| 12,538.00             | 90.53           | 358.33      | 8,495.83              | 4,418.02     | -1,650.68    | 4,521.94                | 0.96                    | 0.88                   | 0.38                  |
| 12,632.00             | 92.02           | 358.09      | 8,493.74              | 4,511.95     | -1,653.61    | 4,615.84                | 1.61                    | 1.59                   | -0.26                 |
| 12,728.00             | 91.18           | 357.21      | 8,491.06              | 4,607.83     | -1,657.55    | 4,711.76                | 1.27                    | -0.88                  | -0.92                 |
| 12,822.00             | 88.38           | 356.40      | 8,491.42              | 4,701.67     | -1,662.79    | 4,805.74                | 3.10                    | -2.98                  | -0.86                 |
| 12,917.00             | 85.32           | 357.00      | 8,496.64              | 4,796.36     | -1,668.25    | 4,900.58                | 3.28                    | -3.22                  | 0.63                  |
| 13,011.00             | 87.59           | 356.59      | 8,502.46              | 4,890.03     | -1,673.49    | 4,994.39                | 2.45                    | 2.41                   | -0.44                 |
| 13,105.00             | 90.25           | 355.91      | 8,504.23              | 4,983.80     | -1,679.64    | 5,088.36                | 2.92                    | 2.83                   | -0.72                 |
| 13,200.00             | 92.41           | 354.68      | 8,502.02              | 5,078.45     | -1,687.43    | 5,183.32                | 2.62                    | 2.27                   | -1.29                 |
| 13,294.00             | 94.07           | 353.41      | 8,496.71              | 5,171.78     | -1,697.16    | 5,277.11                | 2.22                    | 1.77                   | -1.35                 |
| 13,388.00             | 93.39           | 353.45      | 8,490.59              | 5,264.97     | -1,707.90    | 5,370.81                | 0.72                    | -0.72                  | 0.04                  |
| 13,482.00             | 90.39           | 354.46      | 8,487.49              | 5,358.38     | -1,717.79    | 5,464.69                | 3.37                    | -3.19                  | 1.07                  |
| 13,577.00             | 89.30           | 354.51      | 8,487.75              | 5,452.94     | -1,726.92    | 5,559.65                | 1.15                    | -1.15                  | 0.05                  |
| 13,671.00             | 87.79           | 355.25      | 8,490.14              | 5,546.53     | -1,735.30    | 5,653.60                | 1.79                    | -1.61                  | 0.79                  |
| 13,766.00             | 88.77           | 354.24      | 8,492.99              | 5,641.09     | -1,744.00    | 5,748.53                | 1.48                    | 1.03                   | -1.06                 |
| 13,860.00             | 88.82           | 354.85      | 8,494.97              | 5,734.64     | -1,752.94    | 5,842.48                | 0.65                    | 0.05                   | 0.65                  |
| 13,955.00             | 89.75           | 354.16      | 8,496.15              | 5,829.20     | -1,762.03    | 5,937.44                | 1.22                    | 0.98                   | -0.73                 |
| 14,050.00             | 88.63           | 354.99      | 8,497.49              | 5,923.76     | -1,771.01    | 6,032.40                | 1.47                    | -1.18                  | 0.87                  |
| 14,146.00             | 89.55           | 354.32      | 8,499.02              | 6,019.33     | -1,779.95    | 6,128.35                | 1.19                    | 0.96                   | -0.70                 |
| 14,241.00             | 91.51           | 354.81      | 8,498.14              | 6,113.89     | -1,788.95    | 6,223.32                | 2.13                    | 2.06                   | 0.52                  |
| 14,335.00             | 90.73           | 355.35      | 8,496.30              | 6,207.53     | -1,797.01    | 6,317.28                | 1.01                    | -0.83                  | 0.57                  |
| 14,430.00             | 89.92           | 356.70      | 8,495.76              | 6,302.29     | -1,803.60    | 6,412.28                | 1.66                    | -0.85                  | 1.42                  |
| 14,525.00             | 88.57           | 356.99      | 8,497.02              | 6,397.14     | -1,808.82    | 6,507.26                | 1.45                    | -1.42                  | 0.31                  |
| 14,621.00             | 88.77           | 356.16      | 8,499.24              | 6,492.94     | -1,814.56    | 6,603.23                | 0.89                    | 0.21                   | -0.86                 |
| 14,716.00             | 87.76           | 356.98      | 8,502.12              | 6,587.73     | -1,820.24    | 6,698.18                | 1.37                    | -1.06                  | 0.86                  |
| 14,811.00             | 88.85           | 357.66      | 8,504.93              | 6,682.58     | -1,824.68    | 6,793.11                | 1.35                    | 1.15                   | 0.72                  |
| 14,905.00             | 92.27           | 357.59      | 8,504.01              | 6,776.48     | -1,828.57    | 6,887.05                | 3.64                    | 3.64                   | -0.07                 |
| 14,999.00             | 90.90           | 357.20      | 8,501.41              | 6,870.34     | -1,832.84    | 6,980.99                | 1.52                    | -1.46                  | -0.41                 |
| 15,093.00             | 89.44           | 355.59      | 8,501.13              | 6,964.15     | -1,838.75    | 7,074.98                | 2.31                    | -1.55                  | -1.71                 |
| 15,186.00             | 89.75           | 355.46      | 8,501.79              | 7,056.87     | -1,846.01    | 7,167.97                | 0.36                    | 0.33                   | -0.14                 |
| 15,280.00             | 90.03           | 354.50      | 8,501.97              | 7,150.50     | -1,854.24    | 7,261.96                | 1.06                    | 0.30                   | -1.02                 |
| 15,373.00             | 90.03           | 354.37      | 8,501.92              | 7,243.06     | -1,863.25    | 7,354.92                | 0.14                    | 0.00                   | -0.14                 |
| 15,467.00             | 90.59           | 356.24      | 8,501.41              | 7,336.74     | -1,870.95    | 7,448.91                | 2.08                    | 0.60                   | 1.99                  |
| 15,561.00             | 90.78           | 357.06      | 8,500.29              | 7,430.58     | -1,876.44    | 7,542.90                | 0.90                    | 0.20                   | 0.87                  |
| 15,656.00             | 92.47           | 356.10      | 8,497.60              | 7,525.36     | -1,882.11    | 7,637.85                | 2.05                    | 1.78                   | -1.01                 |
| 15,750.00             | 91.65           | 355.78      | 8,494.22              | 7,619.07     | -1,888.76    | 7,731.79                | 0.94                    | -0.87                  | -0.34                 |
| 15,844.00             | 90.62           | 356.56      | 8,492.36              | 7,712.84     | -1,895.03    | 7,825.77                | 1.37                    | -1.10                  | 0.83                  |
| 15,938.00             | 90.67           | 357.18      | 8,491.30              | 7,806.69     | -1,900.17    | 7,919.75                | 0.66                    | 0.05                   | 0.66                  |
| 16,031.00             | 90.28           | 355.99      | 8,490.53              | 7,899.52     | -1,905.71    | 8,012.74                | 1.35                    | -0.42                  | -1.28                 |



## Survey Report



|           |                          |                              |                                              |
|-----------|--------------------------|------------------------------|----------------------------------------------|
| Company:  | XTO Energy               | Local Co-ordinate Reference: | Well Bubbles 2215 Federal #2H                |
| Project:  | Eddy County, NM          | TVD Reference:               | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Site:     | Bubbles 2215 Federal     | MD Reference:                | GL 3307' + 31' KB @ 3338.00usft (Nabors F34) |
| Well:     | Bubbles 2215 Federal #2H | North Reference:             | Grid                                         |
| Wellbore: | Wellbore #1              | Survey Calculation Method:   | Minimum Curvature                            |
| Design:   | Surveys                  | Database:                    | EDM 5000.14 Single User Db                   |

| Survey                               |                 |             |                       |              |              |                         |                         |                        |                       |  |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft)                | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 16,131.00                            | 91.23           | 356.54      | 8,489.21              | 7,999.30     | -1,912.22    | 8,112.73                | 1.10                    | 0.95                   | 0.55                  |  |
| 16,225.00                            | 92.07           | 355.74      | 8,486.50              | 8,093.04     | -1,918.54    | 8,206.69                | 1.23                    | 0.89                   | -0.85                 |  |
| 16,319.00                            | 90.48           | 357.38      | 8,484.41              | 8,186.84     | -1,924.18    | 8,300.65                | 2.43                    | -1.69                  | 1.74                  |  |
| 16,413.00                            | 90.87           | 356.58      | 8,483.30              | 8,280.71     | -1,929.13    | 8,394.63                | 0.95                    | 0.41                   | -0.85                 |  |
| 16,506.00                            | 91.57           | 355.40      | 8,481.32              | 8,373.45     | -1,935.64    | 8,487.61                | 1.48                    | 0.75                   | -1.27                 |  |
| 16,525.00                            | 91.54           | 354.98      | 8,480.81              | 8,392.38     | -1,937.23    | 8,506.60                | 2.22                    | -0.16                  | -2.21                 |  |
| Last Scout MWD Survey @ 16525.00' MD |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 16,577.00                            | 91.54           | 354.98      | 8,479.41              | 8,444.16     | -1,941.78    | 8,558.57                | 0.00                    | 0.00                   | 0.00                  |  |
| Projection to Bit @ 16577.00' MD     |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Survey Annotations    |                       |                   |              |                                      |  |
|-----------------------|-----------------------|-------------------|--------------|--------------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              |                                      |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) | Comment                              |  |
| 146.00                | 145.99                | 1.45              | 0.00         | First Scout MWD Survey @ 146.00' MD  |  |
| 16,525.00             | 8,480.81              | 8,392.38          | -1,937.23    | Last Scout MWD Survey @ 16525.00' MD |  |
| 16,577.00             | 8,479.41              | 8,444.16          | -1,941.78    | Projection to Bit @ 16577.00' MD     |  |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_