

**CONFIDENTIAL***"As Drilled"***CONFIDENTIAL**

District I  
1625 N. French Dr., Hobbs, NM 88240  
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District II  
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Phone: (575) 748-1283 Fax: (575) 748-9720

District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☒ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

|                                                |                                                      |                                               |
|------------------------------------------------|------------------------------------------------------|-----------------------------------------------|
| <sup>1</sup> API Number<br><b>30-045-35387</b> | <sup>2</sup> Pool Code<br><b>97232</b>               | <sup>3</sup> Pool Name<br><b>Basin Mancos</b> |
| <sup>4</sup> Property Code<br><b>22669</b>     | <sup>5</sup> Property Name<br><b>CANYON</b>          | <sup>6</sup> Well Number<br><b>#19H</b>       |
| <sup>7</sup> GRID No.<br><b>5380</b>           | <sup>8</sup> Operator Name<br><b>XTO ENERGY, INC</b> | <sup>9</sup> Elevation<br><b>6389.5</b>       |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| 1             | 2       | 25-N     | 11-W  |         | 1735'         | SOUTH            | 416'          | EAST           | SAN JUAN |

<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   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| J             | 3       | 25-N     | 11-W  |         | 2154'         | SOUTH            | 1950'         | EAST           | SAN JUAN |

|                                                        |                               |                    |           |                                          |
|--------------------------------------------------------|-------------------------------|--------------------|-----------|------------------------------------------|
| <sup>12</sup> Dedicated Acres<br><b>320 AC. 962.33</b> | <sup>13</sup> Joint of Infill | Consolidation Code | Order No. | <b>RCVD JUN 4 '13<br/>OIL CONS. DIV.</b> |
|--------------------------------------------------------|-------------------------------|--------------------|-----------|------------------------------------------|

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.  
**Dist. 3**

16

**AS-DRILL****BOTTOM HOLE:**

LAT. 36.428713°N - NAD 83  
LONG. 107.989113°W - NAD 83  
LAT. 36.42870°N - NAD 27  
LONG. 107.98849°W - NAD 27

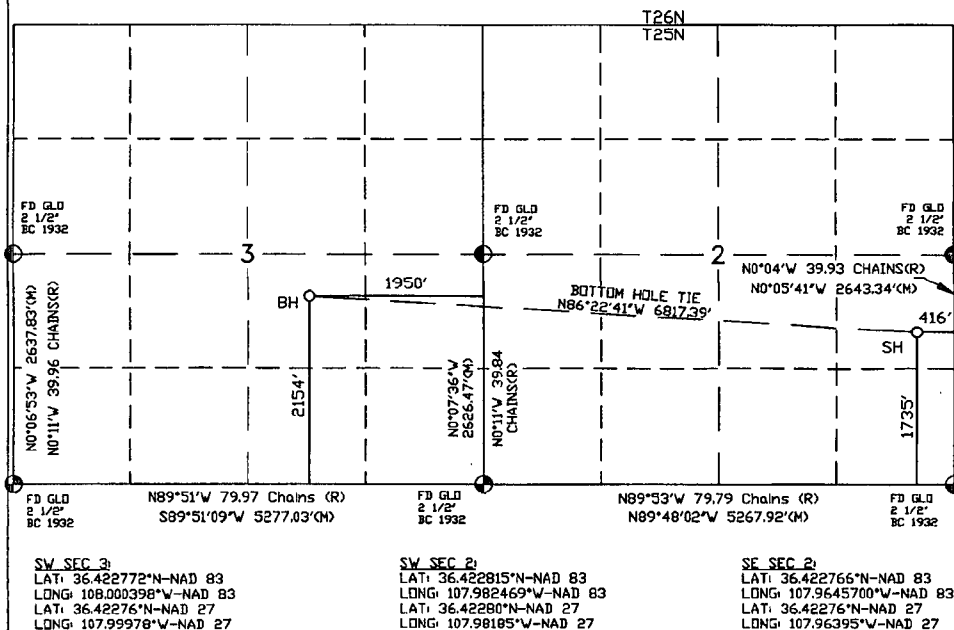
**AS-DRILLED WELL HEAD:**

LAT. 36.427534°N - NAD 83  
LONG. 107.965994°W - NAD 83  
LAT. 36.42752°N - NAD 27  
LONG. 107.96537°W - NAD 27

**W/4 SEC. 3:**  
LAT. 36.430015°N - NAD 83  
LONG. 108.000420°W - NAD 83  
LAT. 36.43001°N - NAD 27  
LONG. 107.99980°W - NAD 27

**W/4 SEC. 2:**  
LAT. 36.430027°N - NAD 83  
LONG. 107.982491°W - NAD 83  
LAT. 36.43002°N - NAD 27  
LONG. 107.98187°W - NAD 27

**E/4 SEC. 2:**  
LAT. 36.430025°N - NAD 83  
LONG. 107.964585°W - NAD 83  
LAT. 36.43002°N - NAD 27  
LONG. 107.96396°W - NAD 27

<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.

*Sherry J. Morrow* 5/31/13  
Signature Date

**Sherry J. Morrow**  
Printed Name

**Sherry-morrow@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.

APRIL 19 2013  
Date of Survey  
Signature and Seal of Professional Surveyor:

**WILLIAM E. MAHNKE II**  
Certificate Number: 28466

PV



Canyon #19H  
San Juan Co., New Mexico

#### SITE DETAILS

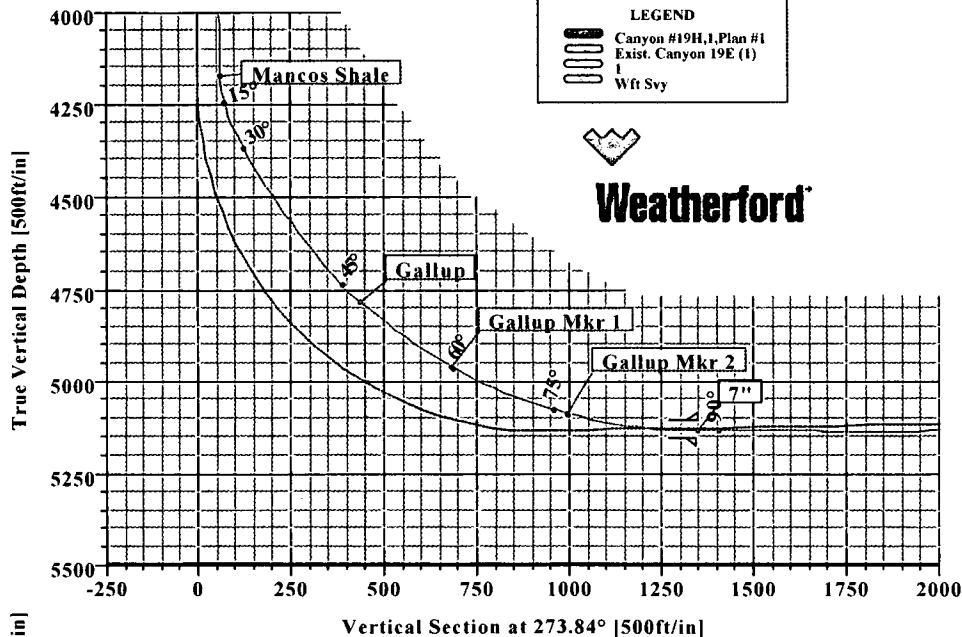
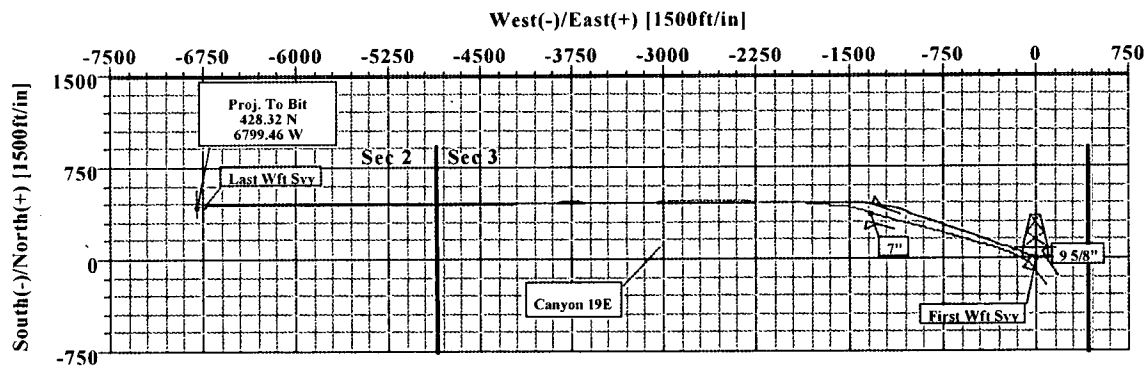
Canyon #19H

Site Centre Latitude: 36°25'39.140N  
Longitude: 107°57'57.600W

Ground Level: 6389.00  
Positional Uncertainty: 0.00  
Convergence: -0.08

KB ELEV: 6404  
GL ELEV: 6389

CONFIDENTIAL



| LEGEND |                         |
|--------|-------------------------|
|        | Canyon #19H, 1, Plan #1 |
|        | Exist. Canyon 19E (1)   |
|        | Wft Svy                 |



Weatherford

#### SECTION DETAILS

| Sec | MD       | Inc   | Azi    | TVD     | +N/-S  | +E/-W    | DLeg | TFace  | VSec    | Target |
|-----|----------|-------|--------|---------|--------|----------|------|--------|---------|--------|
| 1   | 0.00     | 0.00  | 0.00   | 0.00    | 0.00   | 0.00     | 0.00 | 0.00   | 0.00    |        |
| 2   | 4188.00  | 0.00  | 0.00   | 4188.00 | 0.00   | 0.00     | 0.00 | 0.00   | 0.00    |        |
| 3   | 5686.92  | 90.87 | 290.00 | 5133.00 | 328.15 | -901.60  | 6.06 | 290.00 | 921.55  |        |
| 4   | 5821.92  | 90.87 | 290.00 | 5130.95 | 374.32 | -1028.44 | 0.00 | 0.00   | 1051.20 |        |
| 5   | 6323.17  | 90.87 | 269.95 | 5123.26 | 460.68 | -1519.54 | 4.00 | -89.85 | 1546.98 |        |
| 6   | 11602.72 | 90.87 | 269.95 | 5043.10 | 455.86 | -6798.48 | 0.00 | 0.00   | 6813.75 | PBHL   |

#### WELL DETAILS

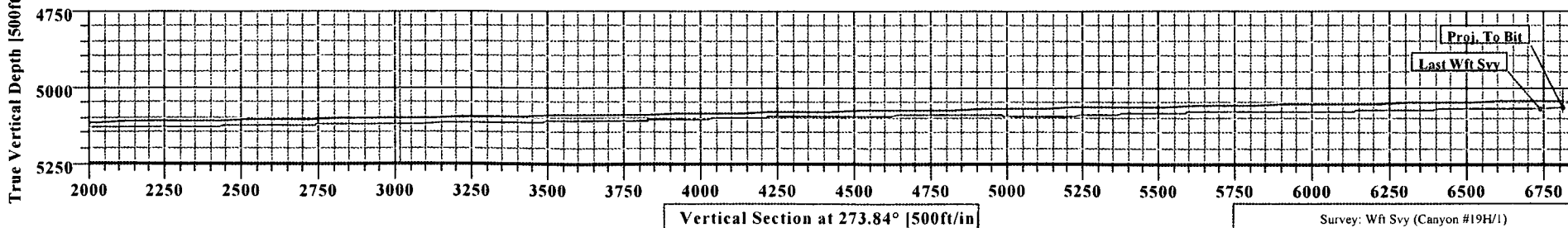
| Name        | +N/-S | +E/-W | Northing   | Easting    | Latitude      | Longitude      | Slot |
|-------------|-------|-------|------------|------------|---------------|----------------|------|
| Canyon #19H | 0.00  | 0.00  | 1974958.47 | 2684068.80 | 36°25'39.140N | 107°57'57.600W | N/A  |

#### TARGET DETAILS

| Name | TVD     | +N/-S  | +E/-W    | Latitude      | Longitude      | Shape |
|------|---------|--------|----------|---------------|----------------|-------|
| PBHL | 5043.10 | 455.86 | -6798.48 | 36°25'43.640N | 107°59'20.796W | Point |

#### Survey: Wft Svy (Canyon #19H/1)

| No  | MD       | Inc   | Az     | TVD     | +N/-S  | +E/-W    | DLeg | TFace  | VSec    |
|-----|----------|-------|--------|---------|--------|----------|------|--------|---------|
| 190 | 11415.00 | 90.16 | 266.38 | 5067.60 | 428.32 | -6799.46 | 0.00 | 180.00 | 6812.87 |



Survey: Wft Svy (Canyon #19H/1)

Created By: Russell W. Joyner

Date: 4/9/2013



# Weatherford

## WFT Survey Report Lat, Long

**Weatherford**

Company: XTO Date: 4/17/2013 Time: 14:58:04 Page: 1  
Field: San Juan, NM (NAD 83) Co-ordinate(NE) Reference: Well: Canyon #19H, True North  
Site: Canyon #19H Vertical (TVD) Reference: SITE 6404.0  
Well: Canyon #19H Section (VS) Reference: Well (0.00N,0.00E,273.84Azi)  
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 3/24/2013  
Company: Weatherford Engineer: Russell W. Joyner  
Tool: MWD;MWD - Standard Tied-to: From Surface

Site: Canyon #19H

Site Position: Northing: 1974958.47 ft Latitude: 36 25 39.140 N  
From: Geographic Easting: 2684068.80 ft Longitude: 107 57 57.600 W  
Position Uncertainty: 0.00 ft North Reference: True  
Ground Level: 6389.00 ft Grid Convergence: -0.08 deg

Well: Canyon #19H Slot Name:  
Well Position: +N/-S 0.00 ft Northing: 1974958.47 ft Latitude: 36 25 39.140 N  
+E/-W 0.00 ft Easting: 2684068.80 ft Longitude: 107 57 57.600 W  
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface  
Current Datum: SITE Height 6404.00 ft Tie-on Depth: 0.00 ft  
Magnetic Data: 3/30/2013 Above System Datum: Mean Sea Level  
Field Strength: 50400 nT Declination: 9.73 deg  
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 63.11 deg  
ft ft +E/-W Direction  
deg  
0.00 0.00 0.00 273.84

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>deg/100ft | Lat | Min | Sec    | Long | Min | Sec    | Comments      |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|-----|-----|--------|------|-----|--------|---------------|
| 0.00     | 0.00        | 0.00        | 0.00      | 0.00      | 0.00      | 0.00     | 0.00             | 36  | 25  | 39.140 | 107  | 57  | 57.600 | First Wft Svy |
| 579.00   | 1.89        | 323.80      | 578.90    | 7.71      | -5.64     | 6.14     | 0.33             | 36  | 25  | 39.216 | 107  | 57  | 57.669 |               |
| 705.00   | 1.61        | 320.02      | 704.84    | 10.74     | -8.00     | 8.71     | 0.24             | 36  | 25  | 39.246 | 107  | 57  | 57.698 |               |
| 830.00   | 1.63        | 328.15      | 829.79    | 13.59     | -10.07    | 10.96    | 0.18             | 36  | 25  | 39.274 | 107  | 57  | 57.723 |               |
| 956.00   | 1.27        | 330.57      | 955.75    | 16.33     | -11.70    | 12.77    | 0.29             | 36  | 25  | 39.302 | 107  | 57  | 57.743 |               |
| 1083.00  | 1.10        | 337.03      | 1082.72   | 18.68     | -12.87    | 14.09    | 0.17             | 36  | 25  | 39.325 | 107  | 57  | 57.757 |               |
| 1209.00  | 0.94        | 321.41      | 1208.70   | 20.60     | -13.99    | 15.33    | 0.25             | 36  | 25  | 39.344 | 107  | 57  | 57.771 |               |
| 1336.00  | 0.65        | 297.49      | 1335.69   | 21.75     | -15.27    | 16.70    | 0.34             | 36  | 25  | 39.355 | 107  | 57  | 57.787 |               |
| 1461.00  | 0.61        | 295.41      | 1460.68   | 22.36     | -16.50    | 17.97    | 0.04             | 36  | 25  | 39.361 | 107  | 57  | 57.802 |               |
| 1587.00  | 0.52        | 296.93      | 1586.67   | 22.91     | -17.62    | 19.12    | 0.07             | 36  | 25  | 39.367 | 107  | 57  | 57.816 |               |
| 1711.00  | 0.56        | 251.38      | 1710.67   | 22.97     | -18.70    | 20.19    | 0.34             | 36  | 25  | 39.367 | 107  | 57  | 57.829 |               |
| 1837.00  | 0.65        | 233.23      | 1836.66   | 22.35     | -19.85    | 21.30    | 0.17             | 36  | 25  | 39.361 | 107  | 57  | 57.843 |               |
| 1962.00  | 0.93        | 239.09      | 1961.65   | 21.40     | -21.29    | 22.68    | 0.23             | 36  | 25  | 39.352 | 107  | 57  | 57.861 |               |
| 2088.00  | 1.10        | 245.22      | 2087.63   | 20.37     | -23.27    | 24.58    | 0.16             | 36  | 25  | 39.341 | 107  | 57  | 57.885 |               |
| 2212.00  | 1.14        | 245.61      | 2211.61   | 19.36     | -25.47    | 26.71    | 0.03             | 36  | 25  | 39.331 | 107  | 57  | 57.912 |               |
| 2335.00  | 0.86        | 240.75      | 2334.59   | 18.40     | -27.39    | 28.56    | 0.24             | 36  | 25  | 39.322 | 107  | 57  | 57.935 |               |
| 2461.00  | 1.28        | 228.85      | 2460.56   | 17.02     | -29.27    | 30.35    | 0.38             | 36  | 25  | 39.308 | 107  | 57  | 57.958 |               |
| 2585.00  | 1.64        | 221.07      | 2584.52   | 14.77     | -31.48    | 32.40    | 0.33             | 36  | 25  | 39.286 | 107  | 57  | 57.985 |               |
| 2711.00  | 1.13        | 209.66      | 2710.49   | 12.33     | -33.28    | 34.03    | 0.46             | 36  | 25  | 39.262 | 107  | 57  | 58.007 |               |
| 2839.00  | 1.46        | 213.29      | 2838.45   | 9.87      | -34.80    | 35.39    | 0.27             | 36  | 25  | 39.238 | 107  | 57  | 58.026 |               |
| 2964.00  | 1.70        | 231.73      | 2963.41   | 7.39      | -37.13    | 37.54    | 0.45             | 36  | 25  | 39.213 | 107  | 57  | 58.054 |               |
| 3090.00  | 2.23        | 216.70      | 3089.33   | 4.26      | -40.06    | 40.26    | 0.58             | 36  | 25  | 39.182 | 107  | 57  | 58.090 |               |
| 3216.00  | 2.73        | 212.60      | 3215.22   | -0.23     | -43.15    | 43.03    | 0.42             | 36  | 25  | 39.138 | 107  | 57  | 58.128 |               |
| 3341.00  | 2.68        | 211.56      | 3340.08   | -5.23     | -46.28    | 45.83    | 0.06             | 36  | 25  | 39.088 | 107  | 57  | 58.166 |               |
| 3466.00  | 2.58        | 211.99      | 3464.94   | -10.10    | -49.30    | 48.51    | 0.08             | 36  | 25  | 39.040 | 107  | 57  | 58.203 |               |
| 3587.00  | 2.51        | 224.10      | 3585.83   | -14.32    | -52.59    | 51.51    | 0.45             | 36  | 25  | 38.998 | 107  | 57  | 58.244 |               |
| 3706.00  | 2.30        | 224.17      | 3704.72   | -17.90    | -56.06    | 54.74    | 0.18             | 36  | 25  | 38.963 | 107  | 57  | 58.286 |               |
| 3824.00  | 2.20        | 217.14      | 3822.63   | -21.40    | -59.08    | 57.51    | 0.25             | 36  | 25  | 38.928 | 107  | 57  | 58.323 |               |
| 3854.00  | 1.94        | 208.47      | 3852.61   | -22.31    | -59.67    | 58.04    | 1.35             | 36  | 25  | 38.919 | 107  | 57  | 58.330 |               |
| 3973.00  | 1.83        | 202.36      | 3971.55   | -25.84    | -61.35    | 59.49    | 0.19             | 36  | 25  | 38.884 | 107  | 57  | 58.351 |               |



# Weatherford

## WFT Survey Report Lat, Long

**Weatherford®**

Company: XTO  
Field: San Juan, NM (NAD 83)  
Site: Canyon #19H  
Well: Canyon #19H  
Wellpath: 1

Date: 4/17/2013 Time: 14:58:04 Page: 2  
Co-ordinate(NE) Reference: Well: Canyon #19H, True North  
Vertical (TVD) Reference: SITE 6404.0  
Section (VS) Reference: Well (0.00N,0.00E,273.84Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>deg/100ft | Lat | Min | Sec    | Long | Min | Sec    | Comment |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|-----|-----|--------|------|-----|--------|---------|
| 4096.00  | 1.68        | 198.90      | 4094.49   | -29.36    | -62.68    | 60.58    | 0.15             | 36  | 25  | 38.850 | 107  | 57  | 58.367 |         |
| 4128.00  | 1.63        | 199.02      | 4126.48   | -30.23    | -62.98    | 60.82    | 0.16             | 36  | 25  | 38.841 | 107  | 57  | 58.371 |         |
| 4160.00  | 2.15        | 243.73      | 4158.46   | -30.93    | -63.67    | 61.46    | 4.74             | 36  | 25  | 38.834 | 107  | 57  | 58.379 |         |
| 4191.00  | 6.57        | 279.68      | 4189.37   | -30.89    | -65.94    | 63.73    | 16.10            | 36  | 25  | 38.835 | 107  | 57  | 58.407 |         |
| 4223.00  | 11.14       | 290.79      | 4220.98   | -29.48    | -70.64    | 68.51    | 15.18            | 36  | 25  | 38.848 | 107  | 57  | 58.464 |         |
| 4255.00  | 15.87       | 295.25      | 4252.09   | -26.52    | -77.49    | 75.54    | 15.12            | 36  | 25  | 38.878 | 107  | 57  | 58.548 |         |
| 4286.00  | 20.42       | 294.50      | 4281.54   | -22.46    | -86.25    | 84.55    | 14.70            | 36  | 25  | 38.918 | 107  | 57  | 58.655 |         |
| 4317.00  | 25.63       | 295.90      | 4310.06   | -17.29    | -97.21    | 95.83    | 16.90            | 36  | 25  | 38.969 | 107  | 57  | 58.790 |         |
| 4349.00  | 28.63       | 296.62      | 4338.53   | -10.83    | -110.29   | 109.32   | 9.43             | 36  | 25  | 39.033 | 107  | 57  | 58.950 |         |
| 4380.00  | 29.76       | 297.27      | 4365.60   | -3.98     | -123.77   | 123.23   | 3.79             | 36  | 25  | 39.101 | 107  | 57  | 59.115 |         |
| 4411.00  | 30.84       | 297.15      | 4392.36   | 3.17      | -137.68   | 137.58   | 3.49             | 36  | 25  | 39.171 | 107  | 57  | 59.285 |         |
| 4442.00  | 32.26       | 296.62      | 4418.78   | 10.51     | -152.15   | 152.51   | 4.67             | 36  | 25  | 39.244 | 107  | 57  | 59.462 |         |
| 4473.00  | 33.74       | 295.68      | 4444.78   | 17.95     | -167.30   | 168.13   | 5.05             | 36  | 25  | 39.317 | 107  | 57  | 59.647 |         |
| 4504.00  | 34.79       | 295.27      | 4470.40   | 25.45     | -183.06   | 184.36   | 3.47             | 36  | 25  | 39.392 | 107  | 57  | 59.840 |         |
| 4536.00  | 35.63       | 293.58      | 4496.54   | 33.08     | -199.86   | 201.63   | 4.02             | 36  | 25  | 39.467 | 107  | 58  | 0.046  |         |
| 4568.00  | 36.06       | 292.46      | 4522.48   | 40.41     | -217.11   | 219.33   | 2.45             | 36  | 25  | 39.540 | 107  | 58  | 0.257  |         |
| 4599.00  | 37.17       | 291.20      | 4547.36   | 47.28     | -234.27   | 236.91   | 4.32             | 36  | 25  | 39.608 | 107  | 58  | 0.467  |         |
| 4630.00  | 37.15       | 290.39      | 4572.07   | 53.93     | -251.78   | 254.82   | 1.58             | 36  | 25  | 39.673 | 107  | 58  | 0.681  |         |
| 4661.00  | 37.90       | 289.26      | 4596.65   | 60.33     | -269.54   | 272.97   | 3.28             | 36  | 25  | 39.737 | 107  | 58  | 0.898  |         |
| 4692.00  | 38.45       | 289.42      | 4621.02   | 66.67     | -287.62   | 291.44   | 1.80             | 36  | 25  | 39.799 | 107  | 58  | 1.120  |         |
| 4724.00  | 39.19       | 289.29      | 4645.96   | 73.32     | -306.54   | 310.77   | 2.33             | 36  | 25  | 39.865 | 107  | 58  | 1.351  |         |
| 4755.00  | 39.70       | 288.74      | 4669.90   | 79.74     | -325.16   | 329.77   | 1.99             | 36  | 25  | 39.929 | 107  | 58  | 1.579  |         |
| 4787.00  | 40.86       | 287.55      | 4694.31   | 86.18     | -344.82   | 349.82   | 4.35             | 36  | 25  | 39.992 | 107  | 58  | 1.820  |         |
| 4818.00  | 42.96       | 286.59      | 4717.38   | 92.25     | -364.62   | 369.98   | 7.08             | 36  | 25  | 40.052 | 107  | 58  | 2.062  |         |
| 4849.00  | 45.16       | 285.96      | 4739.65   | 98.29     | -385.31   | 391.03   | 7.24             | 36  | 25  | 40.112 | 107  | 58  | 2.315  |         |
| 4880.00  | 47.84       | 285.45      | 4760.99   | 104.38    | -406.96   | 413.03   | 8.73             | 36  | 25  | 40.172 | 107  | 58  | 2.580  |         |
| 4912.00  | 49.53       | 285.00      | 4782.12   | 110.69    | -430.15   | 436.59   | 5.39             | 36  | 25  | 40.235 | 107  | 58  | 2.864  |         |
| 4943.00  | 50.79       | 285.10      | 4801.97   | 116.87    | -453.13   | 459.94   | 4.07             | 36  | 25  | 40.296 | 107  | 58  | 3.145  |         |
| 4975.00  | 51.99       | 285.06      | 4821.94   | 123.37    | -477.28   | 484.47   | 3.75             | 36  | 25  | 40.360 | 107  | 58  | 3.441  |         |
| 5007.00  | 52.89       | 284.73      | 4841.45   | 129.89    | -501.79   | 509.36   | 2.93             | 36  | 25  | 40.424 | 107  | 58  | 3.741  |         |
| 5038.00  | 53.80       | 285.44      | 4859.96   | 136.36    | -525.80   | 533.75   | 3.46             | 36  | 25  | 40.488 | 107  | 58  | 4.034  |         |
| 5069.00  | 54.10       | 285.56      | 4878.20   | 143.06    | -549.95   | 558.30   | 1.02             | 36  | 25  | 40.555 | 107  | 58  | 4.330  |         |
| 5100.00  | 55.31       | 286.28      | 4896.11   | 150.00    | -574.29   | 583.04   | 4.34             | 36  | 25  | 40.623 | 107  | 58  | 4.628  |         |
| 5131.00  | 56.32       | 286.68      | 4913.53   | 157.28    | -598.88   | 608.06   | 3.43             | 36  | 25  | 40.695 | 107  | 58  | 4.929  |         |
| 5163.00  | 57.12       | 287.24      | 4931.09   | 165.08    | -624.46   | 634.12   | 2.90             | 36  | 25  | 40.772 | 107  | 58  | 5.242  |         |
| 5194.00  | 58.38       | 286.96      | 4947.63   | 172.79    | -649.52   | 659.64   | 4.14             | 36  | 25  | 40.849 | 107  | 58  | 5.548  |         |
| 5225.00  | 59.92       | 286.81      | 4963.53   | 180.52    | -674.99   | 685.56   | 4.99             | 36  | 25  | 40.925 | 107  | 58  | 5.860  |         |
| 5256.00  | 61.81       | 286.80      | 4978.62   | 188.35    | -700.91   | 711.95   | 6.10             | 36  | 25  | 41.003 | 107  | 58  | 6.177  |         |
| 5288.00  | 63.09       | 286.52      | 4993.42   | 196.48    | -728.09   | 739.61   | 4.07             | 36  | 25  | 41.083 | 107  | 58  | 6.510  |         |
| 5319.00  | 64.22       | 286.16      | 5007.18   | 204.30    | -754.75   | 766.73   | 3.79             | 36  | 25  | 41.160 | 107  | 58  | 6.836  |         |
| 5351.00  | 65.37       | 286.10      | 5020.80   | 212.34    | -782.56   | 795.02   | 3.60             | 36  | 25  | 41.240 | 107  | 58  | 7.176  |         |
| 5382.00  | 66.69       | 285.70      | 5033.40   | 220.10    | -809.80   | 822.72   | 4.42             | 36  | 25  | 41.316 | 107  | 58  | 7.510  |         |
| 5414.00  | 68.81       | 285.35      | 5045.51   | 228.03    | -838.34   | 851.72   | 6.70             | 36  | 25  | 41.395 | 107  | 58  | 7.859  |         |
| 5446.00  | 70.94       | 285.07      | 5056.52   | 235.91    | -867.33   | 881.18   | 6.71             | 36  | 25  | 41.473 | 107  | 58  | 8.214  |         |
| 5477.00  | 72.85       | 284.71      | 5066.16   | 243.48    | -895.80   | 910.10   | 6.26             | 36  | 25  | 41.548 | 107  | 58  | 8.562  |         |
| 5509.00  | 74.30       | 284.99      | 5075.20   | 251.35    | -925.47   | 940.23   | 4.61             | 36  | 25  | 41.625 | 107  | 58  | 8.925  |         |
| 5540.00  | 75.44       | 285.39      | 5083.29   | 259.19    | -954.35   | 969.57   | 3.88             | 36  | 25  | 41.703 | 107  | 58  | 9.279  |         |
| 5572.00  | 76.63       | 285.34      | 5091.02   | 267.42    | -984.29   | 999.99   | 3.72             | 36  | 25  | 41.784 | 107  | 58  | 9.645  |         |
| 5604.00  | 77.50       | 285.22      | 5098.18   | 275.63    | -1014.38  | 1030.56  | 2.74             | 36  | 25  | 41.866 | 107  | 58  | 10.013 |         |
| 5635.00  | 78.56       | 285.32      | 5104.61   | 283.62    | -1043.63  | 1060.28  | 3.43             | 36  | 25  | 41.945 | 107  | 58  | 10.371 |         |
| 5666.00  | 79.59       | 285.46      | 5110.48   | 291.70    | -1072.98  | 1090.11  | 3.35             | 36  | 25  | 42.024 | 107  | 58  | 10.730 |         |
| 5698.00  | 81.26       | 285.40      | 5115.81   | 300.09    | -1103.40  | 1121.02  | 5.22             | 36  | 25  | 42.107 | 107  | 58  | 11.103 |         |



# Weatherford

## WFT Survey Report Lat, Long

**Weatherford**

|                                     |                                                                 |                       |                |
|-------------------------------------|-----------------------------------------------------------------|-----------------------|----------------|
| <b>Company:</b> XTO                 | <b>Date:</b> 4/17/2013                                          | <b>Time:</b> 14:58:04 | <b>Page:</b> 3 |
| <b>Field:</b> San Juan, NM (NAD 83) | <b>Co-ordinate(NE) Reference:</b> Well: Canyon #19H, True North |                       |                |
| <b>Site:</b> Canyon #19H            | <b>Vertical (TVD) Reference:</b> SITE 6404.0                    |                       |                |
| <b>Well:</b> Canyon #19H            | <b>Section (VS) Reference:</b> Well (0.00N,0.00E,273.84Azi)     |                       |                |
| <b>Wellpath:</b> 1                  | <b>Survey Calculation Method:</b> Minimum Curvature             |                       |                |
|                                     | <b>Db:</b> Sybase                                               |                       |                |

**Survey**

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>deg/100ft | Lat | Min | Sec    | Long | Min | Sec    | Comments |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|-----|-----|--------|------|-----|--------|----------|
| 5730.00  | 81.91       | 285.36      | 5120.49   | 308.49    | -1133.92  | 1152.03  | 2.04             | 36  | 25  | 42.190 | 107  | 58  | 11.476 |          |
| 5759.00  | 82.27       | 285.05      | 5124.48   | 316.02    | -1161.64  | 1180.19  | 1.63             | 36  | 25  | 42.265 | 107  | 58  | 11.815 |          |
| 5790.00  | 83.27       | 285.45      | 5128.38   | 324.11    | -1191.31  | 1210.34  | 3.47             | 36  | 25  | 42.345 | 107  | 58  | 12.178 |          |
| 5821.00  | 85.34       | 285.74      | 5131.46   | 332.41    | -1221.02  | 1240.54  | 6.74             | 36  | 25  | 42.427 | 107  | 58  | 12.542 |          |
| 5853.00  | 88.15       | 286.58      | 5133.28   | 341.30    | -1251.70  | 1271.74  | 9.16             | 36  | 25  | 42.515 | 107  | 58  | 12.918 |          |
| 5870.00  | 89.21       | 286.75      | 5133.67   | 346.17    | -1267.98  | 1288.32  | 6.31             | 36  | 25  | 42.563 | 107  | 58  | 13.117 |          |
| 5966.00  | 89.83       | 287.50      | 5134.47   | 374.44    | -1359.72  | 1381.74  | 1.01             | 36  | 25  | 42.843 | 107  | 58  | 14.239 |          |
| 5997.00  | 90.05       | 286.86      | 5134.50   | 383.59    | -1389.34  | 1411.91  | 2.18             | 36  | 25  | 42.933 | 107  | 58  | 14.602 |          |
| 6029.00  | 90.07       | 286.59      | 5134.47   | 392.80    | -1419.98  | 1443.10  | 0.85             | 36  | 25  | 43.024 | 107  | 58  | 14.977 |          |
| 6061.00  | 91.07       | 284.09      | 5134.15   | 401.27    | -1450.84  | 1474.45  | 8.41             | 36  | 25  | 43.108 | 107  | 58  | 15.355 |          |
| 6093.00  | 91.05       | 281.70      | 5133.56   | 408.41    | -1482.02  | 1506.05  | 7.47             | 36  | 25  | 43.178 | 107  | 58  | 15.736 |          |
| 6125.00  | 90.05       | 279.13      | 5133.25   | 414.19    | -1513.49  | 1537.83  | 8.62             | 36  | 25  | 43.236 | 107  | 58  | 16.121 |          |
| 6156.00  | 89.44       | 277.06      | 5133.39   | 418.55    | -1544.18  | 1568.74  | 6.96             | 36  | 25  | 43.279 | 107  | 58  | 16.497 |          |
| 6188.00  | 88.65       | 276.29      | 5133.92   | 422.27    | -1575.96  | 1600.70  | 3.45             | 36  | 25  | 43.316 | 107  | 58  | 16.886 |          |
| 6220.00  | 88.65       | 276.08      | 5134.68   | 425.72    | -1607.76  | 1632.66  | 0.66             | 36  | 25  | 43.350 | 107  | 58  | 17.275 |          |
| 6251.00  | 89.11       | 275.21      | 5135.28   | 428.77    | -1638.61  | 1663.64  | 3.17             | 36  | 25  | 43.380 | 107  | 58  | 17.652 |          |
| 6283.00  | 89.42       | 275.23      | 5135.69   | 431.68    | -1670.47  | 1695.63  | 0.97             | 36  | 25  | 43.408 | 107  | 58  | 18.042 |          |
| 6315.00  | 88.88       | 275.03      | 5136.17   | 434.54    | -1702.34  | 1727.62  | 1.80             | 36  | 25  | 43.437 | 107  | 58  | 18.432 |          |
| 6346.00  | 88.74       | 274.75      | 5136.81   | 437.18    | -1733.22  | 1758.61  | 1.01             | 36  | 25  | 43.463 | 107  | 58  | 18.810 |          |
| 6378.00  | 89.25       | 274.09      | 5137.37   | 439.65    | -1765.12  | 1790.60  | 2.61             | 36  | 25  | 43.487 | 107  | 58  | 19.201 |          |
| 6410.00  | 90.26       | 273.79      | 5137.51   | 441.85    | -1797.04  | 1822.60  | 3.29             | 36  | 25  | 43.509 | 107  | 58  | 19.591 |          |
| 6442.00  | 89.90       | 273.06      | 5137.47   | 443.76    | -1828.99  | 1854.60  | 2.54             | 36  | 25  | 43.528 | 107  | 58  | 19.982 |          |
| 6473.00  | 89.93       | 273.29      | 5137.51   | 445.48    | -1859.94  | 1885.60  | 0.75             | 36  | 25  | 43.545 | 107  | 58  | 20.361 |          |
| 6505.00  | 91.01       | 273.85      | 5137.25   | 447.47    | -1891.87  | 1917.59  | 3.80             | 36  | 25  | 43.564 | 107  | 58  | 20.752 |          |
| 6537.00  | 92.12       | 273.86      | 5136.38   | 449.62    | -1923.79  | 1949.58  | 3.47             | 36  | 25  | 43.586 | 107  | 58  | 21.142 |          |
| 6569.00  | 91.94       | 273.50      | 5135.24   | 451.67    | -1955.70  | 1981.56  | 1.26             | 36  | 25  | 43.606 | 107  | 58  | 21.533 |          |
| 6601.00  | 91.28       | 272.44      | 5134.34   | 453.33    | -1987.65  | 2013.54  | 3.90             | 36  | 25  | 43.622 | 107  | 58  | 21.924 |          |
| 6632.00  | 90.05       | 271.04      | 5133.98   | 454.27    | -2018.63  | 2044.52  | 6.01             | 36  | 25  | 43.632 | 107  | 58  | 22.303 |          |
| 6664.00  | 90.10       | 271.12      | 5133.94   | 454.87    | -2050.62  | 2076.48  | 0.29             | 36  | 25  | 43.638 | 107  | 58  | 22.694 |          |
| 6696.00  | 90.09       | 271.53      | 5133.89   | 455.61    | -2082.61  | 2108.45  | 1.28             | 36  | 25  | 43.645 | 107  | 58  | 23.086 |          |
| 6729.00  | 90.75       | 271.63      | 5133.65   | 456.52    | -2115.60  | 2141.43  | 2.02             | 36  | 25  | 43.654 | 107  | 58  | 23.490 |          |
| 6760.00  | 90.73       | 271.84      | 5133.25   | 457.46    | -2146.58  | 2172.40  | 0.68             | 36  | 25  | 43.663 | 107  | 58  | 23.869 |          |
| 6792.00  | 90.66       | 271.75      | 5132.86   | 458.46    | -2178.57  | 2204.38  | 0.36             | 36  | 25  | 43.673 | 107  | 58  | 24.260 |          |
| 6824.00  | 90.79       | 271.88      | 5132.45   | 459.48    | -2210.55  | 2236.36  | 0.57             | 36  | 25  | 43.683 | 107  | 58  | 24.651 |          |
| 6856.00  | 90.56       | 271.85      | 5132.08   | 460.52    | -2242.53  | 2268.34  | 0.72             | 36  | 25  | 43.693 | 107  | 58  | 25.043 |          |
| 6919.00  | 90.66       | 272.25      | 5131.41   | 462.77    | -2305.48  | 2331.30  | 0.65             | 36  | 25  | 43.716 | 107  | 58  | 25.813 |          |
| 6982.00  | 90.56       | 272.20      | 5130.73   | 465.22    | -2368.43  | 2394.27  | 0.18             | 36  | 25  | 43.740 | 107  | 58  | 26.584 |          |
| 7045.00  | 90.87       | 271.96      | 5129.95   | 467.50    | -2431.39  | 2457.24  | 0.62             | 36  | 25  | 43.762 | 107  | 58  | 27.354 |          |
| 7109.00  | 90.87       | 270.76      | 5128.98   | 469.02    | -2495.36  | 2521.17  | 1.87             | 36  | 25  | 43.777 | 107  | 58  | 28.137 |          |
| 7172.00  | 91.19       | 270.19      | 5127.84   | 469.55    | -2558.35  | 2584.05  | 1.04             | 36  | 25  | 43.782 | 107  | 58  | 28.908 |          |
| 7236.00  | 91.07       | 268.80      | 5126.58   | 468.98    | -2622.33  | 2647.85  | 2.18             | 36  | 25  | 43.777 | 107  | 58  | 29.691 |          |
| 7299.00  | 90.84       | 268.91      | 5125.53   | 467.72    | -2685.31  | 2710.60  | 0.40             | 36  | 25  | 43.764 | 107  | 58  | 30.461 |          |
| 7363.00  | 91.15       | 269.53      | 5124.42   | 466.85    | -2749.29  | 2774.39  | 1.08             | 36  | 25  | 43.755 | 107  | 58  | 31.244 |          |
| 7425.00  | 90.75       | 268.95      | 5123.39   | 466.03    | -2811.28  | 2836.18  | 1.14             | 36  | 25  | 43.747 | 107  | 58  | 32.003 |          |
| 7489.00  | 90.73       | 268.79      | 5122.57   | 464.77    | -2875.26  | 2899.93  | 0.25             | 36  | 25  | 43.735 | 107  | 58  | 32.786 |          |
| 7553.00  | 90.98       | 268.76      | 5121.61   | 463.40    | -2939.24  | 2963.68  | 0.39             | 36  | 25  | 43.721 | 107  | 58  | 33.569 |          |
| 7616.00  | 90.61       | 267.56      | 5120.74   | 461.38    | -3002.20  | 3026.36  | 1.99             | 36  | 25  | 43.701 | 107  | 58  | 34.339 |          |
| 7679.00  | 90.84       | 268.43      | 5119.94   | 459.17    | -3065.16  | 3089.03  | 1.43             | 36  | 25  | 43.679 | 107  | 58  | 35.110 |          |
| 7743.00  | 90.77       | 269.42      | 5119.04   | 457.97    | -3129.14  | 3152.78  | 1.55             | 36  | 25  | 43.667 | 107  | 58  | 35.893 |          |
| 7805.00  | 90.87       | 270.14      | 5118.15   | 457.73    | -3191.13  | 3214.62  | 1.17             | 36  | 25  | 43.665 | 107  | 58  | 36.651 |          |
| 7869.00  | 90.87       | 268.90      | 5117.18   | 457.20    | -3255.12  | 3278.43  | 1.94             | 36  | 25  | 43.659 | 107  | 58  | 37.434 |          |
| 7930.00  | 90.51       | 268.24      | 5116.45   | 455.68    | -3316.10  | 3339.17  | 1.23             | 36  | 25  | 43.644 | 107  | 58  | 38.181 |          |
| 7991.00  | 90.80       | 269.67      | 5115.75   | 454.56    | -3377.08  | 3399.94  | 2.39             | 36  | 25  | 43.633 | 107  | 58  | 38.927 |          |



# Weatherford

## WFT Survey Report Lat, Long

**Weatherford**

Company: XTO  
Field: San Juan, NM (NAD 83)  
Site: Canyon #19H  
Well: Canyon #19H  
Wellpath: 1

Date: 4/17/2013 Time: 14:58:04 Page: 4  
Co-ordinate(NE) Reference: Well: Canyon #19H, True North  
Vertical (TVD) Reference: SITE 6404.0  
Section (VS) Reference: Well (0.00N,0.00E,273.84Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>deg/100ft | Lat<br>Min | Sec | Long<br>Min | Sec | Comment   |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|------------|-----|-------------|-----|-----------|
| 8053.00  | 90.73       | 270.51      | 5114.92   | 454.66    | -3439.07  | 3461.80  | 1.36             | 36         | 25  | 43.634      | 107 | 58 39.685 |
| 8114.00  | 90.91       | 271.41      | 5114.05   | 455.68    | -3500.06  | 3522.72  | 1.50             | 36         | 25  | 43.644      | 107 | 58 40.432 |
| 8176.00  | 90.56       | 271.78      | 5113.25   | 457.41    | -3562.03  | 3584.66  | 0.82             | 36         | 25  | 43.661      | 107 | 58 41.190 |
| 8237.00  | 91.00       | 272.78      | 5112.42   | 459.83    | -3622.97  | 3645.64  | 1.79             | 36         | 25  | 43.685      | 107 | 58 41.936 |
| 8298.00  | 90.79       | 271.33      | 5111.47   | 462.02    | -3683.93  | 3706.60  | 2.40             | 36         | 25  | 43.707      | 107 | 58 42.682 |
| 8359.00  | 90.98       | 269.57      | 5110.53   | 462.50    | -3744.91  | 3767.48  | 2.90             | 36         | 25  | 43.711      | 107 | 58 43.428 |
| 8421.00  | 91.17       | 267.80      | 5109.36   | 461.08    | -3806.88  | 3829.22  | 2.87             | 36         | 25  | 43.697      | 107 | 58 44.187 |
| 8482.00  | 90.87       | 266.54      | 5108.28   | 458.07    | -3867.80  | 3889.79  | 2.12             | 36         | 25  | 43.667      | 107 | 58 44.932 |
| 8543.00  | 91.52       | 267.25      | 5107.01   | 454.76    | -3928.70  | 3950.33  | 1.58             | 36         | 25  | 43.635      | 107 | 58 45.677 |
| 8604.00  | 92.00       | 267.87      | 5105.13   | 452.17    | -3989.61  | 4010.94  | 1.29             | 36         | 25  | 43.609      | 107 | 58 46.423 |
| 8666.00  | 92.26       | 267.57      | 5102.83   | 449.70    | -4051.52  | 4072.54  | 0.64             | 36         | 25  | 43.584      | 107 | 58 47.180 |
| 8727.00  | 91.22       | 268.24      | 5100.98   | 447.47    | -4112.45  | 4133.18  | 2.03             | 36         | 25  | 43.562      | 107 | 58 47.926 |
| 8788.00  | 91.45       | 267.97      | 5099.55   | 445.46    | -4173.40  | 4193.86  | 0.58             | 36         | 25  | 43.542      | 107 | 58 48.672 |
| 8849.00  | 91.01       | 268.47      | 5098.25   | 443.56    | -4234.35  | 4254.55  | 1.09             | 36         | 25  | 43.523      | 107 | 58 49.418 |
| 8910.00  | 90.03       | 269.60      | 5097.69   | 442.54    | -4295.34  | 4315.34  | 2.45             | 36         | 25  | 43.513      | 107 | 58 50.164 |
| 8971.00  | 90.46       | 269.64      | 5097.43   | 442.13    | -4356.34  | 4376.17  | 0.71             | 36         | 25  | 43.509      | 107 | 58 50.910 |
| 9032.00  | 90.66       | 269.54      | 5096.83   | 441.70    | -4417.34  | 4437.00  | 0.37             | 36         | 25  | 43.505      | 107 | 58 51.657 |
| 9093.00  | 90.86       | 268.71      | 5096.03   | 440.76    | -4478.32  | 4497.79  | 1.40             | 36         | 25  | 43.495      | 107 | 58 52.403 |
| 9155.00  | 90.87       | 268.11      | 5095.09   | 439.04    | -4540.29  | 4559.50  | 0.97             | 36         | 25  | 43.478      | 107 | 58 53.162 |
| 9216.00  | 91.08       | 269.86      | 5094.05   | 437.96    | -4601.27  | 4620.27  | 2.89             | 36         | 25  | 43.467      | 107 | 58 53.908 |
| 9278.00  | 91.28       | 269.84      | 5092.77   | 437.80    | -4663.26  | 4682.11  | 0.32             | 36         | 25  | 43.466      | 107 | 58 54.666 |
| 9342.00  | 91.08       | 269.37      | 5091.46   | 437.36    | -4727.24  | 4745.92  | 0.80             | 36         | 25  | 43.461      | 107 | 58 55.449 |
| 9405.00  | 89.34       | 269.98      | 5091.23   | 437.00    | -4790.24  | 4808.75  | 2.93             | 36         | 25  | 43.458      | 107 | 58 56.220 |
| 9468.00  | 89.16       | 269.88      | 5092.05   | 436.93    | -4853.23  | 4871.60  | 0.33             | 36         | 25  | 43.457      | 107 | 58 56.991 |
| 9531.00  | 88.97       | 269.85      | 5093.08   | 436.78    | -4916.22  | 4934.44  | 0.31             | 36         | 25  | 43.455      | 107 | 58 57.762 |
| 9595.00  | 89.72       | 270.43      | 5093.81   | 436.93    | -4980.22  | 4998.30  | 1.48             | 36         | 25  | 43.457      | 107 | 58 58.545 |
| 9658.00  | 88.97       | 270.00      | 5094.53   | 437.17    | -5043.21  | 5061.17  | 1.37             | 36         | 25  | 43.459      | 107 | 58 59.316 |
| 9722.00  | 89.11       | 269.84      | 5095.60   | 437.08    | -5107.20  | 5125.01  | 0.33             | 36         | 25  | 43.458      | 107 | 59 0.099  |
| 9785.00  | 91.80       | 270.38      | 5095.10   | 437.20    | -5170.20  | 5187.87  | 4.36             | 36         | 25  | 43.459      | 107 | 59 0.870  |
| 9848.00  | 91.63       | 269.97      | 5093.22   | 437.39    | -5233.17  | 5250.71  | 0.70             | 36         | 25  | 43.461      | 107 | 59 1.641  |
| 9912.00  | 92.40       | 270.23      | 5090.97   | 437.51    | -5297.13  | 5314.53  | 1.27             | 36         | 25  | 43.462      | 107 | 59 2.423  |
| 9976.00  | 92.29       | 269.80      | 5088.35   | 437.52    | -5361.07  | 5378.34  | 0.69             | 36         | 25  | 43.462      | 107 | 59 3.206  |
| 10039.00 | 91.26       | 270.22      | 5086.40   | 437.53    | -5424.04  | 5441.17  | 1.77             | 36         | 25  | 43.462      | 107 | 59 3.976  |
| 10102.00 | 91.03       | 270.33      | 5085.14   | 437.84    | -5487.03  | 5504.03  | 0.40             | 36         | 25  | 43.465      | 107 | 59 4.747  |
| 10166.00 | 91.33       | 269.61      | 5083.82   | 437.80    | -5551.01  | 5567.87  | 1.22             | 36         | 25  | 43.464      | 107 | 59 5.530  |
| 10230.00 | 90.72       | 268.58      | 5082.67   | 436.79    | -5615.00  | 5631.64  | 1.87             | 36         | 25  | 43.454      | 107 | 59 6.313  |
| 10293.00 | 89.60       | 269.60      | 5082.50   | 435.79    | -5677.99  | 5694.42  | 2.40             | 36         | 25  | 43.444      | 107 | 59 7.084  |
| 10357.00 | 89.65       | 269.93      | 5082.92   | 435.53    | -5741.98  | 5758.26  | 0.52             | 36         | 25  | 43.441      | 107 | 59 7.867  |
| 10420.00 | 91.03       | 270.51      | 5082.54   | 435.77    | -5804.98  | 5821.13  | 2.38             | 36         | 25  | 43.444      | 107 | 59 8.638  |
| 10484.00 | 90.91       | 271.01      | 5081.46   | 436.62    | -5868.96  | 5885.03  | 0.80             | 36         | 25  | 43.452      | 107 | 59 9.421  |
| 10547.00 | 90.70       | 270.87      | 5080.58   | 437.65    | -5931.95  | 5947.94  | 0.40             | 36         | 25  | 43.462      | 107 | 59 10.192 |
| 10611.00 | 90.91       | 270.83      | 5079.68   | 438.60    | -5995.94  | 6011.85  | 0.33             | 36         | 25  | 43.471      | 107 | 59 10.975 |
| 10674.00 | 90.44       | 270.05      | 5078.93   | 439.09    | -6058.93  | 6074.73  | 1.45             | 36         | 25  | 43.476      | 107 | 59 11.746 |
| 10738.00 | 91.03       | 271.24      | 5078.11   | 439.81    | -6122.92  | 6138.63  | 2.08             | 36         | 25  | 43.483      | 107 | 59 12.529 |
| 10801.00 | 91.07       | 270.88      | 5076.96   | 440.97    | -6185.90  | 6201.54  | 0.57             | 36         | 25  | 43.494      | 107 | 59 13.300 |
| 10865.00 | 91.21       | 270.26      | 5075.69   | 441.61    | -6249.88  | 6265.43  | 0.99             | 36         | 25  | 43.500      | 107 | 59 14.083 |
| 10929.00 | 91.03       | 270.15      | 5074.43   | 441.84    | -6313.87  | 6329.28  | 0.33             | 36         | 25  | 43.502      | 107 | 59 14.866 |
| 10993.00 | 91.43       | 270.46      | 5073.06   | 442.18    | -6377.85  | 6393.15  | 0.79             | 36         | 25  | 43.506      | 107 | 59 15.649 |
| 11057.00 | 91.21       | 270.14      | 5071.59   | 442.51    | -6441.84  | 6457.01  | 0.61             | 36         | 25  | 43.509      | 107 | 59 16.432 |
| 11120.00 | 90.24       | 268.38      | 5070.79   | 441.70    | -6504.82  | 6519.80  | 3.19             | 36         | 25  | 43.501      | 107 | 59 17.202 |
| 11184.00 | 91.26       | 268.67      | 5069.95   | 440.05    | -6568.79  | 6583.52  | 1.66             | 36         | 25  | 43.484      | 107 | 59 17.985 |
| 11248.00 | 90.95       | 267.80      | 5068.72   | 438.08    | -6632.75  | 6647.20  | 1.44             | 36         | 25  | 43.465      | 107 | 59 18.768 |



# Weatherford

## WFT Survey Report Lat, Long

**Weatherford**

Company: XTO  
Field: San Juan, NM (NAD 83)  
Site: Canyon #19H  
Well: Canyon #19H  
Wellpath: 1

Date: 4/17/2013 Time: 14:58:04 Page: 5  
Co-ordinate(NE) Reference: Well: Canyon #19H, True North  
Vertical (TVD) Reference: SITE 6404.0  
Section (VS) Reference: Well (0.00N,0.00E,273.84Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | DLS<br>deg/100ft | Lat<br>Min | Sec | Long<br>Min | Sec | Comments               |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|------------|-----|-------------|-----|------------------------|
| 11311.00 | 90.42       | 266.38      | 5067.96   | 434.88    | -6695.66  | 6709.76  | 2.41             | 36         | 25  | 43.433      | 107 | 59 19.538              |
| 11343.00 | 90.16       | 266.38      | 5067.80   | 432.86    | -6727.60  | 6741.48  | 0.81             | 36         | 25  | 43.413      | 107 | 59 19.929 Last Wft Svy |
| 11415.00 | 90.16       | 266.38      | 5067.60   | 428.32    | -6799.46  | 6812.87  | 0.00             | 36         | 25  | 43.368      | 107 | 59 20.808 Proj. To Bit |

### Casing Points

| MD<br>ft | TVD<br>ft | Diameter<br>in | Hole Size<br>in | Name   |
|----------|-----------|----------------|-----------------|--------|
| 500.07   | 500.00    | 9.625          | 12.250          | 9 5/8" |
| 5930.00  | 5134.29   | 7.000          | 8.750           | 7"     |
| 11602.72 | 0.00      | 4.500          | 6.125           | 4 1/2" |

### Annotation

| MD<br>ft | TVD<br>ft |               |
|----------|-----------|---------------|
| 579.00   | 578.90    | First Wft Svy |
| 11343.00 | 5067.80   | Last Wft Svy  |
| 11415.00 | 5067.60   | Proj. To Bit  |