

"As Drilled"

DISTRICT I  
1625 N. Fench Dr., Hobbs, NM 88240

DISTRICT II  
1301 W Grand Avenue, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV  
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87504-2088

Form C-102

Revised October 12, 2005

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |                                               |                                                |
|-----------------------------------------|-----------------------------------------------|------------------------------------------------|
| <sup>1</sup> API Number<br>30-045-33576 | <sup>2</sup> Pool Code<br>71629               | <sup>3</sup> Pool Name<br>Basin Fruitland Coal |
| <sup>4</sup> Property Code<br>303983    | <sup>5</sup> Property Name<br>GRASSY CANYON   | <sup>6</sup> Well Number<br>6                  |
| <sup>7</sup> GRID No<br>5380            | <sup>8</sup> Operator Name<br>XTO ENERGY INC. | <sup>9</sup> Elevation<br>6830'                |

<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             | 30      | 32-N     | 7-W   |         | 2110          | SOUTH            | 2360          | 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   |
|-------------------------------|---------|----------|-------------------------------|---------|----------------------------------|------------------|----------------------------------------------------------|----------------|----------|
| I                             | 30      | 32-N     | 7-W                           |         | 1447                             | SOUTH            | 735                                                      | EAST           | SAN JUAN |
| <sup>12</sup> Dedicated Acres |         |          | <sup>13</sup> Joint or Infill |         | <sup>14</sup> Consolidation Code |                  | <sup>15</sup> Order No. ROVD AUG 4 '08<br>OIL CONS. DIV. |                |          |

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

AS-DRILLED FOOTAGES  
B.H.L. FOOTAGES ARE PROVIDED BY  
XTO ENERGY INC.  
CLIENT

SURFACE:  
LAT: 36°57'05.5" N. (NAD 83)  
LONG: 107°36'27.3" W. (NAD 83)

BOTTOM HOLE LOCATION:  
LAT: 36°56'59.0" N. (NAD 83)  
LONG: 107°36'07.484" W. (NAD 83)

CALC'D CORNER  
BY G.L.O.

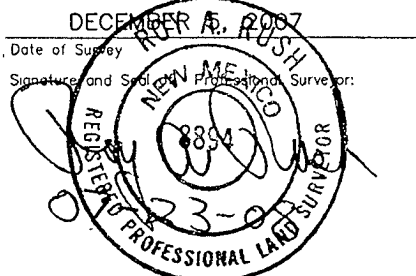
<sup>17</sup> OPERATOR CERTIFICATION

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.

Dalena Johnson 07-30-08  
Signature Date  
Dalena Johnson  
Printed Name

<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 knowledge and belief



8894  
Certificate Number

FD 3 1/4" BC.  
1962 B.L.M.

N 84°04'00" W  
2708.60' (C)

CALC'D CORNER  
BY G.L.O.



GRASSY CANYON #6  
SAN JUAN COUNTY, NM



Weatherford

SECTION DETAILS

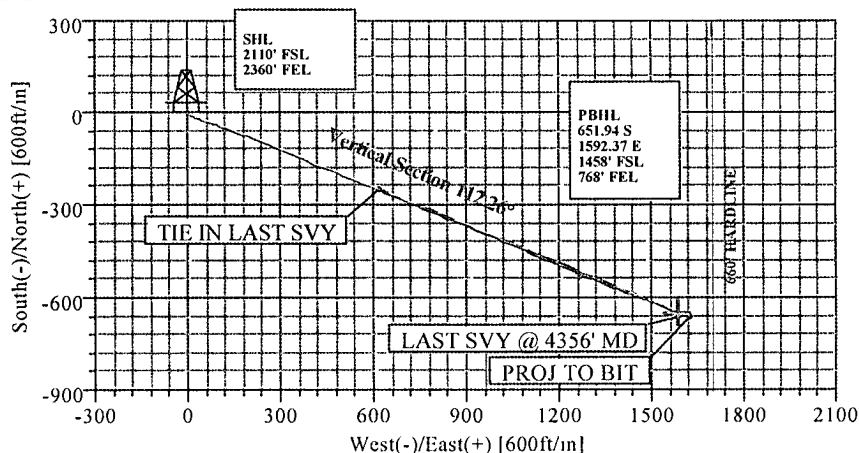
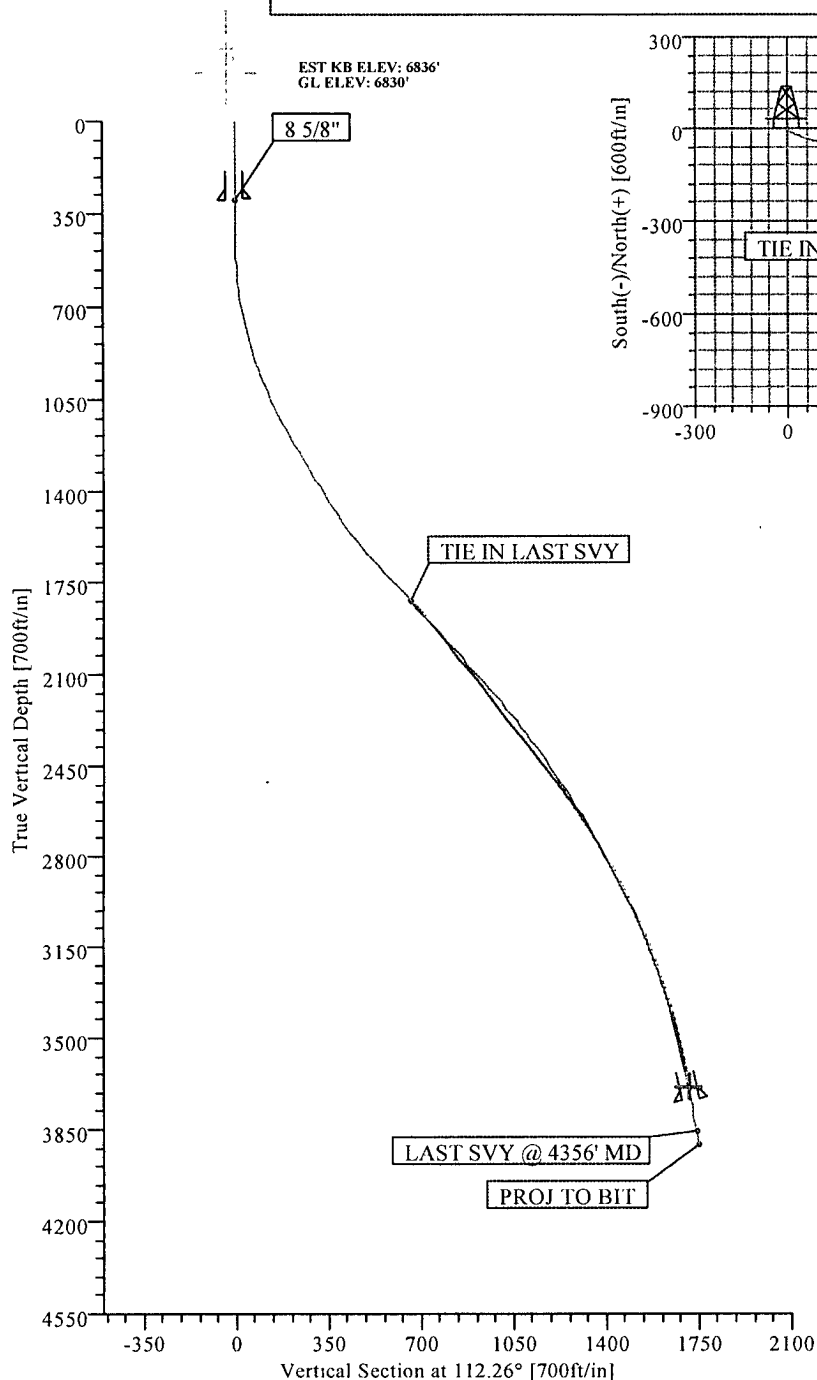
| Sec | MD      | Inc   | Azi    | TVD     | +N/-S   | +E/-W   | DI Leg | TFace   | VSec    | Target |
|-----|---------|-------|--------|---------|---------|---------|--------|---------|---------|--------|
| 1   | 2016.00 | 42.81 | 112.34 | 1826.45 | -252.86 | 619.07  | 0.00   | 0.00    | 668.72  |        |
| 2   | 2180.80 | 37.87 | 112.29 | 1952.03 | -293.36 | 717.73  | 3.00   | -179.66 | 775.36  |        |
| 3   | 2808.60 | 37.87 | 112.29 | 2447.64 | -439.54 | 1074.28 | 0.00   | 0.00    | 1160.72 |        |
| 4   | 4181.31 | 10.00 | 112.29 | 3690.00 | -648.70 | 1584.46 | 2.03   | -180.00 | 1712.11 | P3     |
| 5   | 4230.51 | 10.00 | 112.29 | 3738.45 | -651.94 | 1592.37 | 0.00   | 0.00    | 1720.65 |        |

WELL DETAILS

| Name+N/-S | +E/-W | Northing | Easting    | Latitude   | Longitude                    | Slot |
|-----------|-------|----------|------------|------------|------------------------------|------|
| #6        | 0.00  | 0.00     | 2165768.97 | 2789058.00 | 36°57'05.508N 107°36'27.324W | N/A  |

TARGET DETAILS

| Name | TVD     | +N/-S   | +E/-W   | Latitude      | Longitude      | Shape |
|------|---------|---------|---------|---------------|----------------|-------|
| P3   | 3690.00 | -648.70 | 1584.46 | 36°56'59.093N | 107°36'07.803W | Point |



RCVD AUG 4 '08  
OIL CONS. DIV.

DIST. 3

LEGEND

--- #6, Plan #3  
--- WFT SVY

SITE DETAILS

Grassy Canyon #6  
2110' FSL 2360' FEL SEC 30, T-32-N, R-7-W  
Site Centre Latitude: 36°57'05.508N  
Longitude: 107°36'27.324W  
Ground Level: 6830.00  
Positional Uncertainty: 0.00  
Convergence: 0.14



Azimuths to True North  
Magnetic North 10.34°

Magnetic Field  
Strength 51299nT  
Dip Angle 63.80°  
Date 11/29/2007  
Model bggm2006

TOTAL CORRECTION TO TRUE NORTH 10.34°

Survey: WFT SVY (#6/1)

Created By: Lindsey Maddux

Date: 12/11/2007



# Weatherford International, Inc.

## Survey Report - Geographic

**Weatherford**

|                                     |                                                                      |                       |                |
|-------------------------------------|----------------------------------------------------------------------|-----------------------|----------------|
| <b>Company:</b> XTO Energy          | <b>Date:</b> 12/11/2007                                              | <b>Time:</b> 09:07:06 | <b>Page:</b> 1 |
| <b>Field:</b> San Juan, NM (NAD 83) | <b>Co-ordinate(NE) Reference:</b> Site: Grassy Canyon #6, True North |                       |                |
| <b>Site:</b> Grassy Canyon #6       | <b>Vertical (TVD) Reference:</b> SITE 6836.0                         |                       |                |
| <b>Well:</b> #6                     | <b>Section (VS) Reference:</b> Well (0.00N,0.00E,112.26Azi)          |                       |                |
| <b>Wellpath:</b> 1                  | <b>Survey Calculation Method:</b> Minimum Curvature                  | <b>Db:</b> Sybase     |                |

**Field:** San Juan, NM (NAD 83)**Map System:** US State Plane Coordinate System 1983  
**Geo Datum:** GRS 1980  
**Sys Datum:** Mean Sea Level**Map Zone:** New Mexico, Western Zone  
**Coordinate System:** Site Centre  
**Geomagnetic Model:** bggm2006**Site:** Grassy Canyon #6

2110' FSL 2360' FEL SEC 30, T-32-N, R-7-W

|                                      |                                |                                   |
|--------------------------------------|--------------------------------|-----------------------------------|
| <b>Site Position:</b>                | <b>Northing:</b> 2165768.97 ft | <b>Latitude:</b> 36 57 5.508 N    |
| <b>From:</b> Geographic              | <b>Easting:</b> 2789058.00 ft  | <b>Longitude:</b> 107 36 27.324 W |
| <b>Position Uncertainty:</b> 0.00 ft |                                | <b>North Reference:</b> True      |
| <b>Ground Level:</b> 6830.00 ft      |                                | <b>Grid Convergence:</b> 0.14 deg |

**Well:** #6**Slot Name:**

|                                      |                                |                                   |
|--------------------------------------|--------------------------------|-----------------------------------|
| <b>Well Position:</b> +N/-S 0.00 ft  | <b>Northing:</b> 2165768.97 ft | <b>Latitude:</b> 36 57 5.508 N    |
| +E/-W 0.00 ft                        | <b>Easting:</b> 2789058.00 ft  | <b>Longitude:</b> 107 36 27.324 W |
| <b>Position Uncertainty:</b> 0.00 ft |                                |                                   |

**Wellpath:** 1

|                                           |                          |                                           |
|-------------------------------------------|--------------------------|-------------------------------------------|
| <b>Current Datum:</b> SITE                | <b>Height</b> 6836.00 ft | <b>Drilled From:</b> Surface              |
| <b>Magnetic Data:</b> 11/29/2007          |                          | <b>Tie-on Depth:</b> 0.00 ft              |
| <b>Field Strength:</b> 51299 nT           |                          | <b>Above System Datum:</b> Mean Sea Level |
| <b>Vertical Section:</b> Depth From (TVD) | +N/-S                    | <b>Declination:</b> 10.34 deg             |
| ft                                        | ft                       | <b>Mag Dip Angle:</b> 63.80 deg           |
|                                           |                          | <b>+E/-W</b>                              |
|                                           |                          | ft                                        |
|                                           |                          | <b>Direction</b>                          |
|                                           |                          | deg                                       |
| 0.00                                      | 0.00                     | 0.00 112.26                               |

**Survey:** WFT SVY**Start Date:** 12/3/2007**Company:** Weatherford International, Inc  
**Tool:****Engineer:** Lindsey Maddux  
**Tied-to:** From Surface**Survey:** WFT SVY

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | <--- Latitude ---> |     |         | <--- Longitude ---> |     |          |
|----------|-------------|-------------|-----------|-------------|-------------|-----------------------|----------------------|--------------------|-----|---------|---------------------|-----|----------|
|          |             |             |           |             |             |                       |                      | Deg                | Min | Sec     | Deg                 | Min | Sec      |
| 0.00     | 0.00        | 0.00        | 0.00      | 0.00        | 0.00        | 2165768.97            | 2789058.00           | 36                 | 57  | 5.508 N | 107                 | 36  | 27.324 W |
| 300.00   | 0.53        | 173.72      | 300.00    | -1.37       | 0.15        | 2165767.60            | 2789058.15           | 36                 | 57  | 5.494 N | 107                 | 36  | 27.322 W |
| 392.00   | 0.69        | 173.72      | 391.99    | -2.35       | 0.26        | 2165766.63            | 2789058.26           | 36                 | 57  | 5.485 N | 107                 | 36  | 27.321 W |
| 422.00   | 0.81        | 172.84      | 421.99    | -2.74       | 0.30        | 2165766.24            | 2789058.31           | 36                 | 57  | 5.481 N | 107                 | 36  | 27.320 W |
| 452.00   | 1.56        | 146.47      | 451.98    | -3.29       | 0.56        | 2165765.69            | 2789058.56           | 36                 | 57  | 5.475 N | 107                 | 36  | 27.317 W |
| 483.00   | 2.56        | 134.84      | 482.96    | -4.13       | 1.28        | 2165764.85            | 2789059.29           | 36                 | 57  | 5.467 N | 107                 | 36  | 27.308 W |
| 514.00   | 3.56        | 127.47      | 513.92    | -5.20       | 2.54        | 2165763.78            | 2789060.55           | 36                 | 57  | 5.457 N | 107                 | 36  | 27.293 W |
| 544.00   | 4.19        | 124.84      | 543.85    | -6.39       | 4.17        | 2165762.59            | 2789062.19           | 36                 | 57  | 5.445 N | 107                 | 36  | 27.273 W |
| 575.00   | 4.75        | 118.47      | 574.75    | -7.65       | 6.23        | 2165761.34            | 2789064.25           | 36                 | 57  | 5.432 N | 107                 | 36  | 27.247 W |
| 606.00   | 5.94        | 118.84      | 605.62    | -9.04       | 8.77        | 2165759.96            | 2789066.78           | 36                 | 57  | 5.419 N | 107                 | 36  | 27.216 W |
| 636.00   | 7.00        | 114.97      | 635.43    | -10.56      | 11.78       | 2165758.44            | 2789069.81           | 36                 | 57  | 5.404 N | 107                 | 36  | 27.179 W |
| 667.00   | 8.50        | 111.84      | 666.14    | -12.21      | 15.62       | 2165756.80            | 2789073.65           | 36                 | 57  | 5.387 N | 107                 | 36  | 27.132 W |
| 697.00   | 10.06       | 113.22      | 695.75    | -14.07      | 20.09       | 2165754.95            | 2789078.12           | 36                 | 57  | 5.369 N | 107                 | 36  | 27.077 W |
| 727.00   | 11.38       | 112.47      | 725.23    | -16.23      | 25.23       | 2165752.80            | 2789083.27           | 36                 | 57  | 5.348 N | 107                 | 36  | 27.013 W |
| 758.00   | 12.69       | 113.72      | 755.54    | -18.77      | 31.17       | 2165750.28            | 2789089.22           | 36                 | 57  | 5.322 N | 107                 | 36  | 26.940 W |
| 789.00   | 13.94       | 113.22      | 785.71    | -21.61      | 37.72       | 2165747.45            | 2789095.77           | 36                 | 57  | 5.294 N | 107                 | 36  | 26.859 W |
| 819.00   | 15.25       | 111.34      | 814.74    | -24.47      | 44.72       | 2165744.61            | 2789102.78           | 36                 | 57  | 5.266 N | 107                 | 36  | 26.773 W |
| 880.00   | 17.63       | 109.84      | 873.24    | -30.53      | 60.88       | 2165738.59            | 2789118.95           | 36                 | 57  | 5.206 N | 107                 | 36  | 26.574 W |
| 912.00   | 19.00       | 107.84      | 903.62    | -33.77      | 70.40       | 2165735.37            | 2789128.48           | 36                 | 57  | 5.174 N | 107                 | 36  | 26.457 W |
| 943.00   | 20.13       | 107.47      | 932.83    | -36.92      | 80.29       | 2165732.25            | 2789138.38           | 36                 | 57  | 5.143 N | 107                 | 36  | 26.335 W |
| 975.00   | 21.13       | 107.22      | 962.78    | -40.28      | 91.06       | 2165728.91            | 2789149.15           | 36                 | 57  | 5.110 N | 107                 | 36  | 26.202 W |
| 1006.00  | 22.06       | 108.72      | 991.60    | -43.80      | 101.91      | 2165725.42            | 2789160.01           | 36                 | 57  | 5.075 N | 107                 | 36  | 26.068 W |
| 1038.00  | 23.13       | 110.34      | 1021.15   | -47.91      | 113.49      | 2165721.33            | 2789171.60           | 36                 | 57  | 5.034 N | 107                 | 36  | 25.926 W |



# Weatherford International, Inc.

## Survey Report - Geographic

**Weatherford**

Company: XTO Energy  
Field: San Juan, NM (NAD 83)  
Site: Grassy Canyon #6  
Well: #6  
Wellpath: 1

Date: 12/11/2007 Time: 09:07:06 Page: 2  
Co-ordinate(NE) Reference: Site: Grassy Canyon #6, True North  
Vertical (TVD) Reference: SITE 6836.0  
Section (VS) Reference: Well (0.00N,0.00E,112.26Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | <--- Latitude ---><br>Deg Min Sec |    |         | <--- Longitude ---><br>Deg Min Sec |    |          |
|----------|-------------|-------------|-----------|-------------|-------------|-----------------------|----------------------|-----------------------------------|----|---------|------------------------------------|----|----------|
| 1069.00  | 24.56       | 109.34      | 1049.50   | -52.16      | 125.28      | 2165717.11            | 2789183.40           | 36                                | 57 | 4.992 N | 107                                | 36 | 25.780 W |
| 1100.00  | 25.88       | 111.09      | 1077.54   | -56.73      | 137.67      | 2165712.57            | 2789195.80           | 36                                | 57 | 4.947 N | 107                                | 36 | 25.628 W |
| 1132.00  | 26.94       | 110.59      | 1106.20   | -61.79      | 150.97      | 2165707.54            | 2789209.12           | 36                                | 57 | 4.897 N | 107                                | 36 | 25.464 W |
| 1164.00  | 28.00       | 110.72      | 1134.60   | -67.00      | 164.79      | 2165702.36            | 2789222.94           | 36                                | 57 | 4.845 N | 107                                | 36 | 25.294 W |
| 1195.00  | 28.56       | 110.97      | 1161.90   | -72.23      | 178.51      | 2165697.17            | 2789236.68           | 36                                | 57 | 4.794 N | 107                                | 36 | 25.125 W |
| 1227.00  | 29.00       | 111.72      | 1189.94   | -77.83      | 192.86      | 2165691.59            | 2789251.04           | 36                                | 57 | 4.738 N | 107                                | 36 | 24.948 W |
| 1259.00  | 29.25       | 110.97      | 1217.90   | -83.50      | 207.37      | 2165685.96            | 2789265.56           | 36                                | 57 | 4.682 N | 107                                | 36 | 24.769 W |
| 1290.00  | 29.63       | 110.22      | 1244.89   | -88.86      | 221.63      | 2165680.64            | 2789279.84           | 36                                | 57 | 4.629 N | 107                                | 36 | 24.593 W |
| 1322.00  | 30.25       | 110.59      | 1272.62   | -94.43      | 236.60      | 2165675.10            | 2789294.82           | 36                                | 57 | 4.574 N | 107                                | 36 | 24.409 W |
| 1354.00  | 30.38       | 111.59      | 1300.25   | -100.24     | 251.67      | 2165669.33            | 2789309.90           | 36                                | 57 | 4.517 N | 107                                | 36 | 24.223 W |
| 1386.00  | 30.63       | 109.84      | 1327.82   | -105.99     | 266.86      | 2165663.62            | 2789325.11           | 36                                | 57 | 4.460 N | 107                                | 36 | 24.036 W |
| 1417.00  | 30.94       | 111.47      | 1354.45   | -111.58     | 281.71      | 2165658.06            | 2789339.97           | 36                                | 57 | 4.405 N | 107                                | 36 | 23.853 W |
| 1448.00  | 31.25       | 111.34      | 1381.00   | -117.43     | 296.61      | 2165652.25            | 2789354.89           | 36                                | 57 | 4.347 N | 107                                | 36 | 23.670 W |
| 1480.00  | 31.94       | 111.72      | 1408.25   | -123.58     | 312.21      | 2165646.13            | 2789370.50           | 36                                | 57 | 4.286 N | 107                                | 36 | 23.477 W |
| 1511.00  | 32.19       | 112.34      | 1434.53   | -129.75     | 327.46      | 2165639.99            | 2789385.77           | 36                                | 57 | 4.225 N | 107                                | 36 | 23.290 W |
| 1543.00  | 32.50       | 113.22      | 1461.56   | -136.38     | 343.25      | 2165633.40            | 2789401.57           | 36                                | 57 | 4.159 N | 107                                | 36 | 23.095 W |
| 1573.00  | 32.69       | 116.22      | 1486.84   | -143.14     | 357.92      | 2165626.68            | 2789416.26           | 36                                | 57 | 4.093 N | 107                                | 36 | 22.914 W |
| 1605.00  | 33.88       | 115.09      | 1513.59   | -150.74     | 373.75      | 2165619.12            | 2789432.11           | 36                                | 57 | 4.017 N | 107                                | 36 | 22.719 W |
| 1636.00  | 35.00       | 114.47      | 1539.15   | -158.09     | 389.67      | 2165611.81            | 2789448.04           | 36                                | 57 | 3.945 N | 107                                | 36 | 22.523 W |
| 1668.00  | 36.38       | 114.47      | 1565.14   | -165.82     | 406.66      | 2165604.12            | 2789465.05           | 36                                | 57 | 3.868 N | 107                                | 36 | 22.314 W |
| 1699.00  | 37.94       | 112.84      | 1589.85   | -173.33     | 423.81      | 2165596.65            | 2789482.22           | 36                                | 57 | 3.794 N | 107                                | 36 | 22.102 W |
| 1731.00  | 39.25       | 112.72      | 1614.86   | -181.06     | 442.22      | 2165588.96            | 2789500.64           | 36                                | 57 | 3.718 N | 107                                | 36 | 21.876 W |
| 1763.00  | 40.63       | 111.72      | 1639.39   | -188.82     | 461.24      | 2165581.24            | 2789519.68           | 36                                | 57 | 3.641 N | 107                                | 36 | 21.641 W |
| 1794.00  | 41.88       | 111.84      | 1662.70   | -196.41     | 480.22      | 2165573.70            | 2789538.68           | 36                                | 57 | 3.566 N | 107                                | 36 | 21.407 W |
| 1826.00  | 42.56       | 111.84      | 1686.40   | -204.41     | 500.18      | 2165565.75            | 2789558.66           | 36                                | 57 | 3.487 N | 107                                | 36 | 21.162 W |
| 1858.00  | 42.69       | 111.47      | 1709.94   | -212.40     | 520.32      | 2165557.80            | 2789578.82           | 36                                | 57 | 3.408 N | 107                                | 36 | 20.913 W |
| 1889.00  | 42.88       | 111.84      | 1732.69   | -220.17     | 539.89      | 2165550.08            | 2789598.41           | 36                                | 57 | 3.331 N | 107                                | 36 | 20.672 W |
| 1921.00  | 42.31       | 111.97      | 1756.25   | -228.25     | 559.98      | 2165542.05            | 2789618.52           | 36                                | 57 | 3.251 N | 107                                | 36 | 20.425 W |
| 1953.00  | 42.13       | 113.09      | 1779.95   | -236.49     | 579.85      | 2165533.85            | 2789638.40           | 36                                | 57 | 3.169 N | 107                                | 36 | 20.180 W |
| 1984.00  | 42.38       | 112.59      | 1802.89   | -244.58     | 599.06      | 2165525.81            | 2789657.63           | 36                                | 57 | 3.089 N | 107                                | 36 | 19.943 W |
| 2016.00  | 42.81       | 112.34      | 1826.45   | -252.86     | 619.07      | 2165517.58            | 2789677.67           | 36                                | 57 | 3.008 N | 107                                | 36 | 19.697 W |
| 2048.00  | 42.88       | 113.34      | 1849.91   | -261.31     | 639.13      | 2165509.18            | 2789697.74           | 36                                | 57 | 2.924 N | 107                                | 36 | 19.450 W |
| 2079.00  | 42.00       | 112.22      | 1872.79   | -269.41     | 658.41      | 2165501.13            | 2789717.05           | 36                                | 57 | 2.844 N | 107                                | 36 | 19.212 W |
| 2111.00  | 42.00       | 112.72      | 1896.57   | -277.59     | 678.20      | 2165492.99            | 2789736.85           | 36                                | 57 | 2.763 N | 107                                | 36 | 18.968 W |
| 2143.00  | 42.25       | 112.22      | 1920.30   | -285.79     | 698.03      | 2165484.83            | 2789756.71           | 36                                | 57 | 2.682 N | 107                                | 36 | 18.724 W |
| 2174.00  | 42.50       | 113.34      | 1943.21   | -293.88     | 717.29      | 2165476.79            | 2789775.99           | 36                                | 57 | 2.602 N | 107                                | 36 | 18.487 W |
| 2206.00  | 42.69       | 114.34      | 1966.76   | -302.64     | 737.10      | 2165468.08            | 2789795.82           | 36                                | 57 | 2.515 N | 107                                | 36 | 18.243 W |
| 2237.00  | 41.56       | 112.34      | 1989.76   | -310.88     | 756.19      | 2165459.89            | 2789814.92           | 36                                | 57 | 2.434 N | 107                                | 36 | 18.007 W |
| 2269.00  | 41.19       | 113.09      | 2013.77   | -319.05     | 775.70      | 2165451.76            | 2789834.45           | 36                                | 57 | 2.353 N | 107                                | 36 | 17.767 W |
| 2299.00  | 41.25       | 112.47      | 2036.33   | -326.70     | 793.93      | 2165444.15            | 2789852.70           | 36                                | 57 | 2.277 N | 107                                | 36 | 17.542 W |
| 2331.00  | 41.75       | 109.72      | 2060.30   | -334.33     | 813.71      | 2165436.57            | 2789872.50           | 36                                | 57 | 2.202 N | 107                                | 36 | 17.299 W |
| 2362.00  | 42.00       | 110.47      | 2083.39   | -341.44     | 833.14      | 2165429.51            | 2789891.95           | 36                                | 57 | 2.132 N | 107                                | 36 | 17.059 W |
| 2394.00  | 41.00       | 110.97      | 2107.35   | -348.94     | 852.97      | 2165422.06            | 2789911.80           | 36                                | 57 | 2.057 N | 107                                | 36 | 16.815 W |
| 2426.00  | 41.13       | 109.84      | 2131.48   | -356.27     | 872.68      | 2165414.77            | 2789931.52           | 36                                | 57 | 1.985 N | 107                                | 36 | 16.572 W |
| 2458.00  | 41.38       | 111.09      | 2155.54   | -363.65     | 892.44      | 2165407.44            | 2789951.30           | 36                                | 57 | 1.912 N | 107                                | 36 | 16.329 W |
| 2489.00  | 40.63       | 110.72      | 2178.93   | -370.90     | 911.44      | 2165400.23            | 2789970.32           | 36                                | 57 | 1.840 N | 107                                | 36 | 16.095 W |
| 2521.00  | 39.13       | 111.72      | 2203.49   | -378.33     | 930.57      | 2165392.85            | 2789989.46           | 36                                | 57 | 1.767 N | 107                                | 36 | 15.859 W |
| 2552.00  | 38.69       | 111.34      | 2227.61   | -385.47     | 948.68      | 2165385.75            | 2790007.59           | 36                                | 57 | 1.696 N | 107                                | 36 | 15.636 W |
| 2584.00  | 38.31       | 111.97      | 2252.65   | -392.82     | 967.20      | 2165378.44            | 2790026.12           | 36                                | 57 | 1.624 N | 107                                | 36 | 15.408 W |
| 2616.00  | 38.44       | 113.72      | 2277.74   | -400.54     | 985.50      | 2165370.77            | 2790044.45           | 36                                | 57 | 1.547 N | 107                                | 36 | 15.182 W |
| 2647.00  | 37.69       | 114.59      | 2302.15   | -408.36     | 1002.94     | 2165362.99            | 2790061.91           | 36                                | 57 | 1.470 N | 107                                | 36 | 14.967 W |
| 2679.00  | 36.69       | 114.34      | 2327.64   | -416.37     | 1020.55     | 2165355.02            | 2790079.53           | 36                                | 57 | 1.391 N | 107                                | 36 | 14.750 W |



# Weatherford International, Inc.

## Survey Report - Geographic

**Weatherford**

Company: XTO Energy  
Field: San Juan, NM (NAD 83)  
Site: Grassy Canyon #6  
Well: #6  
Wellpath: 1

Date: 12/11/2007 Time: 09:07:06 Page: 3  
Co-ordinate(NE) Reference: Site: Grassy Canyon #6, True North  
Vertical (TVD) Reference: SITE 6836.0  
Section (VS) Reference: Well (0.00N,0.00E,112.26Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | <--- Latitude ---><br>Deg Min Sec |    |          | <--- Longitude ---><br>Deg Min Sec |    |          |
|----------|-------------|-------------|-----------|-------------|-------------|-----------------------|----------------------|-----------------------------------|----|----------|------------------------------------|----|----------|
| 2710.00  | 36.13       | 114.38      | 2352.59   | -423.96     | 1037.31     | 2165347.48            | 2790096.31           | 36                                | 57 | 1.316 N  | 107                                | 36 | 14.544 W |
| 2742.00  | 35.13       | 114.34      | 2378.60   | -431.64     | 1054.29     | 2165339.83            | 2790113.31           | 36                                | 57 | 1.240 N  | 107                                | 36 | 14.335 W |
| 2774.00  | 34.31       | 114.84      | 2404.90   | -439.23     | 1070.87     | 2165332.28            | 2790129.90           | 36                                | 57 | 1.165 N  | 107                                | 36 | 14.131 W |
| 2805.00  | 34.50       | 113.84      | 2430.48   | -446.45     | 1086.82     | 2165325.10            | 2790145.88           | 36                                | 57 | 1.093 N  | 107                                | 36 | 13.934 W |
| 2837.00  | 33.38       | 113.59      | 2457.02   | -453.63     | 1103.18     | 2165317.95            | 2790162.25           | 36                                | 57 | 1.022 N  | 107                                | 36 | 13.732 W |
| 2868.00  | 33.25       | 113.22      | 2482.93   | -460.40     | 1118.81     | 2165311.23            | 2790177.89           | 36                                | 57 | 0.955 N  | 107                                | 36 | 13.540 W |
| 2900.00  | 33.25       | 112.97      | 2509.69   | -467.28     | 1134.95     | 2165304.38            | 2790194.05           | 36                                | 57 | 0.887 N  | 107                                | 36 | 13.341 W |
| 2932.00  | 33.56       | 111.97      | 2536.40   | -474.01     | 1151.23     | 2165297.69            | 2790210.34           | 36                                | 57 | 0.821 N  | 107                                | 36 | 13.141 W |
| 2963.00  | 32.94       | 111.84      | 2562.33   | -480.35     | 1167.00     | 2165291.39            | 2790226.13           | 36                                | 57 | 0.758 N  | 107                                | 36 | 12.946 W |
| 3026.00  | 31.69       | 111.59      | 2615.57   | -492.81     | 1198.28     | 2165279.00            | 2790257.45           | 36                                | 57 | 0.635 N  | 107                                | 36 | 12.561 W |
| 3058.00  | 31.13       | 111.84      | 2642.88   | -498.98     | 1213.78     | 2165272.86            | 2790272.95           | 36                                | 57 | 0.574 N  | 107                                | 36 | 12.370 W |
| 3089.00  | 30.56       | 110.72      | 2669.50   | -504.75     | 1228.59     | 2165267.13            | 2790287.78           | 36                                | 57 | 0.517 N  | 107                                | 36 | 12.187 W |
| 3121.00  | 29.31       | 114.34      | 2697.23   | -510.86     | 1243.33     | 2165261.06            | 2790302.54           | 36                                | 57 | 0.456 N  | 107                                | 36 | 12.006 W |
| 3153.00  | 28.75       | 113.09      | 2725.21   | -517.11     | 1257.55     | 2165254.85            | 2790316.77           | 36                                | 57 | 0.394 N  | 107                                | 36 | 11.831 W |
| 3184.00  | 28.00       | 112.84      | 2752.48   | -522.86     | 1271.11     | 2165249.13            | 2790330.35           | 36                                | 57 | 0.338 N  | 107                                | 36 | 11.664 W |
| 3216.00  | 27.88       | 112.47      | 2780.75   | -528.63     | 1284.95     | 2165243.39            | 2790344.20           | 36                                | 57 | 0.280 N  | 107                                | 36 | 11.493 W |
| 3248.00  | 28.00       | 112.72      | 2809.02   | -534.39     | 1298.79     | 2165237.66            | 2790358.05           | 36                                | 57 | 0.224 N  | 107                                | 36 | 11.322 W |
| 3279.00  | 28.25       | 113.84      | 2836.36   | -540.17     | 1312.22     | 2165231.92            | 2790371.49           | 36                                | 57 | 0.166 N  | 107                                | 36 | 11.157 W |
| 3311.00  | 27.56       | 113.22      | 2864.64   | -546.15     | 1325.95     | 2165225.97            | 2790385.23           | 36                                | 57 | 0.107 N  | 107                                | 36 | 10.988 W |
| 3343.00  | 26.50       | 112.47      | 2893.15   | -551.79     | 1339.35     | 2165220.35            | 2790398.65           | 36                                | 57 | 0.051 N  | 107                                | 36 | 10.823 W |
| 3374.00  | 25.75       | 112.72      | 2920.98   | -557.04     | 1351.95     | 2165215.14            | 2790411.26           | 36                                | 56 | 59.999 N | 107                                | 36 | 10.668 W |
| 3406.00  | 25.50       | 111.72      | 2949.83   | -562.27     | 1364.76     | 2165209.93            | 2790424.09           | 36                                | 56 | 59.948 N | 107                                | 36 | 10.510 W |
| 3438.00  | 24.56       | 111.34      | 2978.83   | -567.24     | 1377.35     | 2165204.99            | 2790436.69           | 36                                | 56 | 59.899 N | 107                                | 36 | 10.355 W |
| 3469.00  | 23.56       | 110.22      | 3007.13   | -571.73     | 1389.17     | 2165200.54            | 2790448.52           | 36                                | 56 | 59.854 N | 107                                | 36 | 10.209 W |
| 3501.00  | 23.19       | 110.97      | 3036.51   | -576.19     | 1401.05     | 2165196.10            | 2790460.41           | 36                                | 56 | 59.810 N | 107                                | 36 | 10.063 W |
| 3533.00  | 23.31       | 108.84      | 3065.91   | -580.49     | 1412.93     | 2165191.83            | 2790472.30           | 36                                | 56 | 59.768 N | 107                                | 36 | 9.916 W  |
| 3564.00  | 22.56       | 108.84      | 3094.46   | -584.39     | 1424.36     | 2165187.95            | 2790483.74           | 36                                | 56 | 59.729 N | 107                                | 36 | 9.775 W  |
| 3591.00  | 20.13       | 110.47      | 3119.60   | -587.69     | 1433.62     | 2165184.68            | 2790493.00           | 36                                | 56 | 59.696 N | 107                                | 36 | 9.661 W  |
| 3596.00  | 21.81       | 109.59      | 3124.27   | -588.30     | 1435.30     | 2165184.07            | 2790494.69           | 36                                | 56 | 59.690 N | 107                                | 36 | 9.641 W  |
| 3628.00  | 21.13       | 109.59      | 3154.05   | -592.23     | 1446.33     | 2165180.17            | 2790505.73           | 36                                | 56 | 59.652 N | 107                                | 36 | 9.505 W  |
| 3660.00  | 20.38       | 111.47      | 3183.98   | -596.20     | 1456.95     | 2165176.22            | 2790516.36           | 36                                | 56 | 59.612 N | 107                                | 36 | 9.374 W  |
| 3691.00  | 20.13       | 110.47      | 3213.06   | -600.05     | 1466.97     | 2165172.40            | 2790526.39           | 36                                | 56 | 59.574 N | 107                                | 36 | 9.251 W  |
| 3723.00  | 18.88       | 111.72      | 3243.22   | -603.89     | 1476.94     | 2165168.59            | 2790536.37           | 36                                | 56 | 59.536 N | 107                                | 36 | 9.128 W  |
| 3755.00  | 18.19       | 111.97      | 3273.56   | -607.67     | 1486.38     | 2165164.82            | 2790545.82           | 36                                | 56 | 59.499 N | 107                                | 36 | 9.011 W  |
| 3786.00  | 17.88       | 111.22      | 3303.04   | -611.20     | 1495.31     | 2165161.31            | 2790554.75           | 36                                | 56 | 59.464 N | 107                                | 36 | 8.901 W  |
| 3818.00  | 17.06       | 111.09      | 3333.56   | -614.67     | 1504.27     | 2165157.87            | 2790563.72           | 36                                | 56 | 59.430 N | 107                                | 36 | 8.791 W  |
| 3850.00  | 16.44       | 112.09      | 3364.20   | -618.06     | 1512.84     | 2165154.49            | 2790572.30           | 36                                | 56 | 59.396 N | 107                                | 36 | 8.685 W  |
| 3881.00  | 15.63       | 112.34      | 3394.00   | -621.30     | 1520.77     | 2165151.28            | 2790580.24           | 36                                | 56 | 59.364 N | 107                                | 36 | 8.588 W  |
| 3913.00  | 15.00       | 112.84      | 3424.86   | -624.55     | 1528.57     | 2165148.05            | 2790588.05           | 36                                | 56 | 59.332 N | 107                                | 36 | 8.492 W  |
| 3945.00  | 14.38       | 112.47      | 3455.82   | -627.67     | 1536.06     | 2165144.94            | 2790595.54           | 36                                | 56 | 59.301 N | 107                                | 36 | 8.399 W  |
| 3976.00  | 14.00       | 111.59      | 3485.87   | -630.52     | 1543.11     | 2165142.11            | 2790602.59           | 36                                | 56 | 59.273 N | 107                                | 36 | 8.313 W  |
| 4008.00  | 12.75       | 111.84      | 3517.00   | -633.26     | 1549.98     | 2165139.38            | 2790609.48           | 36                                | 56 | 59.246 N | 107                                | 36 | 8.228 W  |
| 4040.00  | 12.31       | 111.22      | 3548.24   | -635.81     | 1556.44     | 2165136.85            | 2790615.94           | 36                                | 56 | 59.221 N | 107                                | 36 | 8.148 W  |
| 4071.00  | 11.94       | 112.34      | 3578.55   | -638.23     | 1562.49     | 2165134.45            | 2790621.99           | 36                                | 56 | 59.197 N | 107                                | 36 | 8.074 W  |
| 4103.00  | 11.88       | 111.59      | 3609.86   | -640.70     | 1568.61     | 2165131.99            | 2790628.12           | 36                                | 56 | 59.172 N | 107                                | 36 | 7.998 W  |
| 4135.00  | 11.88       | 111.09      | 3641.17   | -643.09     | 1574.75     | 2165129.61            | 2790634.26           | 36                                | 56 | 59.149 N | 107                                | 36 | 7.923 W  |
| 4166.00  | 11.81       | 110.84      | 3671.51   | -645.37     | 1580.69     | 2165127.35            | 2790640.21           | 36                                | 56 | 59.126 N | 107                                | 36 | 7.850 W  |
| 4198.00  | 11.75       | 111.84      | 3702.84   | -647.75     | 1586.77     | 2165124.99            | 2790646.30           | 36                                | 56 | 59.102 N | 107                                | 36 | 7.775 W  |
| 4230.00  | 11.81       | 111.22      | 3734.17   | -650.14     | 1592.85     | 2165122.60            | 2790652.39           | 36                                | 56 | 59.079 N | 107                                | 36 | 7.700 W  |
| 4234.38  | 11.83       | 111.31      | 3738.45   | -650.47     | 1593.69     | 2165122.28            | 2790653.22           | 36                                | 56 | 59.076 N | 107                                | 36 | 7.689 W  |
| 4262.00  | 11.94       | 111.84      | 3765.48   | -652.56     | 1598.98     | 2165120.20            | 2790658.52           | 36                                | 56 | 59.055 N | 107                                | 36 | 7.624 W  |
| 4293.00  | 11.44       | 110.84      | 3795.84   | -654.85     | 1604.83     | 2165117.93            | 2790664.37           | 36                                | 56 | 59.032 N | 107                                | 36 | 7.552 W  |
| 4324.00  | 10.69       | 111.97      | 3826.26   | -657.02     | 1610.37     | 2165115.77            | 2790669.92           | 36                                | 56 | 59.011 N | 107                                | 36 | 7.484 W  |

TOP  
FC

PCTP



# Weatherford International, Inc.

## Survey Report - Geographic

**Weatherford™**

Company: XTO Energy  
Field: San Juan, NM (NAD 83)  
Site: Grassy Canyon #6  
Well: #6  
Wellpath: 1

Date: 12/11/2007 Time: 09:07:06 Page: 4  
Co-ordinate(NE) Reference: Site: Grassy Canyon #6, True North  
Vertical (TVD) Reference: SITE 6836.0  
Section (VS) Reference: Well (0.00N,0.00E,112 26Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | <--- Latitude ---> |     |          | <--- Longitude ---> |     |         |
|----------|-------------|-------------|-----------|-------------|-------------|-----------------------|----------------------|--------------------|-----|----------|---------------------|-----|---------|
|          |             |             |           |             |             |                       |                      | Deg                | Min | Sec      | Deg                 | Min | Sec     |
| 4356.00  | 10.63       | 112.47      | 3857.71   | -659.26     | 1615.85     | 2165113.55            | 2790675.40           | 36                 | 56  | 58.989 N | 107                 | 36  | 7.416 W |
| 4408.00  | 10.63       | 112.47      | 3908.82   | -662.92     | 1624.71     | 2165109.90            | 2790684.27           | 36                 | 56  | 58.952 N | 107                 | 36  | 7.307 W |

### Casing Points

| MD<br>ft | TVD<br>ft | Diameter<br>in | Hole Size<br>in | Name   |
|----------|-----------|----------------|-----------------|--------|
| 300.00   | 300.00    | 0.000          | 0.000           | 8 5/8" |
| 4234.38  | 3738.45   | 5 500          | 6.000           | 5 1/2" |

### Annotation

| MD<br>ft | TVD<br>ft |                     |
|----------|-----------|---------------------|
| 2016.00  | 1826.45   | TIE IN LAST SVY     |
| 4356.00  | 3857.71   | LAST SVY @ 4356' MD |
| 4408.00  | 3908.82   | PROJ TO BIT         |