



# XTO - Wellbore Diagram

Well Name: Breech F 02

|                         |               |                   |               |             |               |                        |                    |                      |
|-------------------------|---------------|-------------------|---------------|-------------|---------------|------------------------|--------------------|----------------------|
| API/OWP                 | E/W Dist (ft) | E/W Ref           | N/S Dist (ft) | N/S Ref     | Location      | Field Name             | County             | State                |
| 30039299990000          | 1,485.0       | FWL               | 785.0         | FNL         | T27N-R06W-S33 | Basin Dakota           | Rio Arriba         | New Mexico           |
| Well Configuration Type | XTO ID #      | Orig KB Elev (ft) | Gr Elev (ft)  | KB-Grd (ft) | Start Date    | PBTD (Alt) (ftKB)      | Total Depth (ftKB) | Method Of Production |
| Vertical                | 77384         | 6,646.00          | 6,633.00      | 13.00       | 12/19/2006    | Original Hole - 7597.0 | 7,597.0            | Plunger Lift         |

Well Config: Vertical - Original Hole, 8/27/2010 3:15:05 PM

| Schematic - Actual |  | Incl  | ftKB (TVD) | ftKB (MD) | Zone                                                                                                                                                                                                                                                                                                                                                                                                                          | Top (ftKB)    | Botm (ftKB)      |                      |                         |                  |            |             |            |             |
|--------------------|--|-------|------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|----------------------|-------------------------|------------------|------------|-------------|------------|-------------|
|                    |  |       |            |           | Mancos                                                                                                                                                                                                                                                                                                                                                                                                                        | 6,737.0       | 6,893.0          |                      |                         |                  |            |             |            |             |
|                    |  |       |            |           | Tocito                                                                                                                                                                                                                                                                                                                                                                                                                        | 6,932.0       | 6,940.0          |                      |                         |                  |            |             |            |             |
|                    |  |       |            |           | Dakota                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,398.0       | 7,592.0          |                      |                         |                  |            |             |            |             |
|                    |  |       |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                  |                      |                         |                  |            |             |            |             |
|                    |  | 13    |            |           | <b>Casing Strings</b>                                                                                                                                                                                                                                                                                                                                                                                                         |               |                  |                      |                         |                  |            |             |            |             |
|                    |  | 45    |            |           | Casing Description                                                                                                                                                                                                                                                                                                                                                                                                            | OD (in)       | WT (lbs/ft)      | String Grade         | Top Connection          | Set Depth (ftKB) |            |             |            |             |
|                    |  |       |            |           | Surface                                                                                                                                                                                                                                                                                                                                                                                                                       | 9 5/8         | 36.00            | J-55                 |                         | 361.0            |            |             |            |             |
|                    |  | 53    |            |           | Casing Description                                                                                                                                                                                                                                                                                                                                                                                                            | OD (in)       | WT (lbs/ft)      | String Grade         | Top Connection          | Set Depth (ftKB) |            |             |            |             |
|                    |  |       |            |           | Production                                                                                                                                                                                                                                                                                                                                                                                                                    | 5 1/2         | 15.50            | K-55                 |                         | 7,593.0          |            |             |            |             |
|                    |  | 59    |            |           | Item Description                                                                                                                                                                                                                                                                                                                                                                                                              | OD (in)       | WT (lbs/ft)      | Grade                | Top (ftKB)              | Bottom (ftKB)    |            |             |            |             |
|                    |  |       |            |           | Stage Tool                                                                                                                                                                                                                                                                                                                                                                                                                    | 5 1/2         |                  |                      | 3,576.0                 | 3,578.0          |            |             |            |             |
|                    |  |       |            |           | Item Description                                                                                                                                                                                                                                                                                                                                                                                                              | OD (in)       | WT (lbs/ft)      | Grade                | Top (ftKB)              | Bottom (ftKB)    |            |             |            |             |
|                    |  |       |            |           | Stage Tool                                                                                                                                                                                                                                                                                                                                                                                                                    | 5 1/2         |                  |                      | 5,602.0                 | 5,604.0          |            |             |            |             |
|                    |  | 361   |            |           | <b>Cement</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                  |                      |                         |                  |            |             |            |             |
|                    |  |       |            |           | Description                                                                                                                                                                                                                                                                                                                                                                                                                   | Type          |                  |                      | String                  |                  |            |             |            |             |
|                    |  | 938   |            |           | Surface Casing Cement                                                                                                                                                                                                                                                                                                                                                                                                         | casing        |                  |                      | Surface, 361.0ftKB      |                  |            |             |            |             |
|                    |  |       |            |           | Comment                                                                                                                                                                                                                                                                                                                                                                                                                       |               |                  |                      |                         |                  |            |             |            |             |
|                    |  | 3,576 |            |           | Circ 21 bbls to surf                                                                                                                                                                                                                                                                                                                                                                                                          |               |                  |                      |                         |                  |            |             |            |             |
|                    |  |       |            |           | Description                                                                                                                                                                                                                                                                                                                                                                                                                   | Type          |                  |                      | String                  |                  |            |             |            |             |
|                    |  | 3,578 |            |           | Production Casing Cement                                                                                                                                                                                                                                                                                                                                                                                                      | casing        |                  |                      | Production, 7,593.0ftKB |                  |            |             |            |             |
|                    |  |       |            |           | Comment                                                                                                                                                                                                                                                                                                                                                                                                                       |               |                  |                      |                         |                  |            |             |            |             |
|                    |  | 4,300 |            |           | Cmt'd 1st stg w/210 sx perm lite (437 cuft, 2.08 cuft/sx). Tailed in w/120 sx Type III cmt (176 cuft, 1.47 cuft/sx). TOC @ 5602' by CBL. Cmt'd 2nd stg w/210 sx perm lite (437 cuft, 2.08 cuft/sx). Tailed in w/120 sx Type III cmt (176 cuft, 1.47 cuft/sx). TOC @ 4300' by CBL. Cmt'd 3rd stg w/490 sx perm lite (1019 cuft, 2.08 cuft/sx). Tailed in w/120 sx Type III cmt (176 cuft, 1.47 cuft/sx). Circ 60 bbls to surf. |               |                  |                      |                         |                  |            |             |            |             |
|                    |  | 5,602 |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                  |                      |                         |                  |            |             |            |             |
|                    |  | 5,604 |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                  |                      |                         |                  |            |             |            |             |
|                    |  | 6,616 |            |           | <b>Perforations</b>                                                                                                                                                                                                                                                                                                                                                                                                           |               |                  |                      |                         |                  |            |             |            |             |
|                    |  |       |            |           | Date                                                                                                                                                                                                                                                                                                                                                                                                                          | Top (ftKB)    | Botm (ftKB)      | Shot Dens (shots/ft) | Notes                   | Zone             |            |             |            |             |
|                    |  | 6,737 |            |           | 8/16/2010                                                                                                                                                                                                                                                                                                                                                                                                                     | 6,737.0       | 6,893.0          | 1.0                  |                         | Mancos           |            |             |            |             |
|                    |  | 6,893 |            |           | 8/3/2010                                                                                                                                                                                                                                                                                                                                                                                                                      | 6,932.0       | 6,940.0          | 4.0                  | 0.340                   | Tocito           |            |             |            |             |
|                    |  |       |            |           | 4/22/2007                                                                                                                                                                                                                                                                                                                                                                                                                     | 7,398.0       | 7,592.0          | 1.0                  |                         | Dakota           |            |             |            |             |
|                    |  | 6,921 |            |           | <b>Tubing Strings</b>                                                                                                                                                                                                                                                                                                                                                                                                         |               |                  |                      |                         |                  |            |             |            |             |
|                    |  |       |            |           | Tubing Description                                                                                                                                                                                                                                                                                                                                                                                                            | Run Date      |                  |                      | Set Depth (ftKB)        |                  |            |             |            |             |
|                    |  | 6,922 |            |           | Tubing - Production                                                                                                                                                                                                                                                                                                                                                                                                           | 8/25/2010     |                  |                      | 6,922.3                 |                  |            |             |            |             |
|                    |  |       |            |           | <b>Tubing Components</b>                                                                                                                                                                                                                                                                                                                                                                                                      |               |                  |                      |                         |                  |            |             |            |             |
|                    |  | 6,922 |            |           | Item Description                                                                                                                                                                                                                                                                                                                                                                                                              | Qty           | Model            | OD (in)              | WT (lbs/ft)             | Grade            | Top Thread | Len (ft)    | Top (ftKB) | Botm (ftKB) |
|                    |  | 6,932 |            |           | Tubing                                                                                                                                                                                                                                                                                                                                                                                                                        | 1             | T&C Upset        | 2 3/8                | 4.70                    | J-55             |            | 31.66       | 13.0       | 44.7        |
|                    |  | 6,940 |            |           | Tubing Sub                                                                                                                                                                                                                                                                                                                                                                                                                    | 1             | T&C Upset        | 2 3/8                | 4.70                    | J-55             |            | 8.00        | 44.7       | 52.7        |
|                    |  | 7,100 |            |           | Tubing Sub                                                                                                                                                                                                                                                                                                                                                                                                                    | 1             | T&C Upset        | 2 3/8                | 4.70                    | J-55             |            | 6.00        | 52.7       | 58.7        |
|                    |  | 7,102 |            |           | Tubing                                                                                                                                                                                                                                                                                                                                                                                                                        | 216           | T&C Upset        | 2 3/8                | 4.70                    | J-55             |            | 6,862.17    | 58.7       | 6,920.8     |
|                    |  | 7,398 |            |           | Pump Seating Nipple                                                                                                                                                                                                                                                                                                                                                                                                           | 1             |                  | 2 3/8                |                         |                  |            | 1.10        | 6,920.8    | 6,921.9     |
|                    |  | 7,499 |            |           | Notched Collar                                                                                                                                                                                                                                                                                                                                                                                                                | 1             |                  | 2 3/8                |                         |                  |            | 0.40        | 6,921.9    | 6,922.3     |
|                    |  | 7,500 |            |           | <b>Rods</b>                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                  |                      |                         |                  |            |             |            |             |
|                    |  |       |            |           | Rod Description                                                                                                                                                                                                                                                                                                                                                                                                               | Run Date      |                  |                      | String Length (ft)      | Set Depth (ftKB) |            |             |            |             |
|                    |  | 7,532 |            |           | <b>Rod Components</b>                                                                                                                                                                                                                                                                                                                                                                                                         |               |                  |                      |                         |                  |            |             |            |             |
|                    |  |       |            |           | Item Description                                                                                                                                                                                                                                                                                                                                                                                                              | Qty           | Model            | OD (in)              | Grade                   | Len (ft)         | Top (ftKB) | Botm (ftKB) |            |             |
|                    |  | 7,592 |            |           | <b>Stimulations &amp; Treatments</b>                                                                                                                                                                                                                                                                                                                                                                                          |               |                  |                      |                         |                  |            |             |            |             |
|                    |  |       |            |           | Frac Start Date                                                                                                                                                                                                                                                                                                                                                                                                               | Top Perf (ft) | Bottom Perf (ft) | V (slurry)           | Total Prop.             | AIR (b)          | ATP (psi)  | MTP (psi)   | ISIP (psi) |             |
|                    |  | 7,593 |            |           | 4/23/2007                                                                                                                                                                                                                                                                                                                                                                                                                     | 7398          | 7594             |                      | 134.00                  | 34               | 2,374.0    | 3,75        | 2,610.0    |             |
|                    |  |       |            |           | Comment                                                                                                                                                                                                                                                                                                                                                                                                                       |               |                  |                      |                         |                  |            |             |            |             |
|                    |  | 7,594 |            |           | Frac DK perms fr/7398'-7594' dwn csg w/24,973 gals 70Q N2 2% KCl & 134,000# 20/40 sd. AIR 34 BPM. ATP 2374 psig. MTP 3758 psig. ISIP 2610 psig.                                                                                                                                                                                                                                                                               |               |                  |                      |                         |                  |            |             |            |             |
|                    |  | 7,597 |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                  |                      |                         |                  |            |             |            |             |

PBTD,  
7,597  
TD,  
7,597

PBTD,  
7,597  
TD,  
7,597



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Well Name: Breech F 02

|                         |               |                   |               |             |               |                        |                    |                      |
|-------------------------|---------------|-------------------|---------------|-------------|---------------|------------------------|--------------------|----------------------|
| API/UWI                 | E/W Dist (ft) | E/W Ref           | N/S Dist (ft) | N/S Ref     | Location      | Field Name             | County             | State                |
| 30039299990000          | 1,485.0       | FWL               | 785.0         | FNL         | T27N-R06W-S33 | Basin Dakota           | Rio Arriba         | New Mexico           |
| Well Configuration Type | XTO ID B      | Orig KB Elev (ft) | Gr Elev (ft)  | KB-Grd (ft) | Spud Date     | PBTD (All) (ftKB)      | Total Depth (ftKB) | Method Of Production |
| Vertical                | 77384         | 6,646.00          | 6,633.00      | 13.00       | 12/19/2006    | Original Hole - 7597.0 | 7,597.0            | Plunger Lift         |

Well Config: Vertical Original Hole 8/27/2010 3:15:05 PM

## Stimulations & Treatments

| Schematic - Actual                 | Incl | ftKB (TVD) | ftKB (MD) | Frac Start Date | Top Perf (ft) | Bottom Po | V (slurry) | Total Prop | AIR (b) | ATP (psi) | MTP (psi) | ISIP (psi) |
|------------------------------------|------|------------|-----------|-----------------|---------------|-----------|------------|------------|---------|-----------|-----------|------------|
|                                    |      |            |           | 8/4/2010        | 6,932         | 6,940     | 716.88     |            | 30      | 2,932.0   | 4,01...   | 4,024.0    |
| Comment                            |      |            |           |                 |               |           |            |            |         |           |           |            |
| Screen out in 2 ppg sd stage       |      |            |           |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 13        |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 45        |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 53        |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 59        |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 361       |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 938       |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 3,576     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 3,578     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 4,300     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 5,602     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 5,604     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 6,616     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 6,737     |                 |               |           |            |            |         |           |           |            |
| Top (MD): 6,737<br>Des: Mancos     |      |            | 6,893     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 6,921     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 6,922     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 6,922     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 6,932     |                 |               |           |            |            |         |           |           |            |
| Top (MD): 6,932<br>Des: Tocito     |      |            | 6,940     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 7,100     |                 |               |           |            |            |         |           |           |            |
| 5 1/2" CIBP, 4 3/4"<br>7,100-7,102 |      |            | 7,102     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 7,398     |                 |               |           |            |            |         |           |           |            |
| Top (MD): 7,398<br>Des: Dakota     |      |            | 7,499     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 7,500     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 7,532     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 7,592     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 7,593     |                 |               |           |            |            |         |           |           |            |
|                                    |      |            | 7,594     |                 |               |           |            |            |         |           |           |            |
| PBTD,<br>7,597<br>TD,<br>7,597     |      |            | 7,597     |                 |               |           |            |            |         |           |           |            |