



XTO - Wellbore Diagram

Well Name: Apache Canyon 07-01V

| | | | | | | | | |
|-------------------------|---------------|-------------------|---------------|-------------|---------------|------------------------|--------------------|----------------------|
| API/UWI | E/W Dist (ft) | E/W Ref | N/S Dist (ft) | N/S Ref | Location | Field Name | County | State |
| 05071075640000 | 733.0 | FEL | 1,016.0 | FNL | T34S-R67W-S07 | Purgatoire River | Las Animas | Colorado |
| 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 | 94515 | 7,606.00 | 7,606.00 | 0.00 | 2/5/2002 | Original Hole - 2067.0 | 2,069.0 | PCP |

Well Config: Vertical - Original Hole, 8/3/2012 11:18:12 AM

| Schematic - Actual | | Incl | ftKB (TVD) | ftKB (MD) | Zone | | Top (ftKB) | | Btm (ftKB) | | | | | |
|--------------------|--|------|------------|-----------|---|------------|-------------|-------------------------|--------------------|------------------|----------------|------------|------------|------------|
| | | | | -9 | Raton | | 461.0 | | 1,204.0 | | | | | |
| | | | | 0 | Vermejo | | 1,635.0 | | 1,889.0 | | | | | |
| | | | | 7 | Casing Strings | | | | | | | | | |
| | | | | 11 | Casing Description | OD (in) | Wt (lbs/ft) | String Grade | Top Connection | Set Depth (ftKB) | | | | |
| | | | | 393 | Surface | 8 5/8 | | | | 393.0 | | | | |
| | | | | 460 | Casing Description | OD (in) | Wt (lbs/ft) | String Grade | Top Connection | Set Depth (ftKB) | | | | |
| | | | | 461 | Production | 5 1/2 | | | | 2,055.0 | | | | |
| | | | | 475 | Cement | | | | | | | | | |
| | | | | 478 | Description | Type | | String | | | | | | |
| | | | | 484 | Surface Casing Cement | casing | | Surface, 393.0ftKB | | | | | | |
| | | | | 485 | Comment | | | | | | | | | |
| | | | | 557 | Surf csg 8-5/8" 24#. Set Csg @ 393', hole size 11". Mixed & prmpd 110 sxs. Midcon II, salt, Gilsonite & Versaset. 10 bbls to pit. | | | | | | | | | |
| | | | | 558 | Description | Type | | String | | | | | | |
| | | | | 732 | Production Casing Cement | casing | | Production, 2,055.0ftKB | | | | | | |
| | | | | 735 | Comment | | | | | | | | | |
| | | | | 793 | Prod Csg 5-1/2" 15.5#. Set Csg @ 2055' hole size 7-7/8". Pmp 330 sxs Midcon II, Gilsonite, Granulite, 6% salt, 3% super CBL & Versaset. No returns. RIH w/ 640' of 1". Pmpd 105 sxs cmt. Circ 17 bbls to pit. | | | | | | | | | |
| | | | | 795 | Perforations | | | | | | | | | |
| | | | | 800 | Date | Top (ftKB) | Btm (ftKB) | Shot Dens (shots/ft) | Hole Diameter (in) | Phasing (°) | Curr... Status | Zone | | |
| | | | | 801 | 7/19/2012 | 460.0 | 461.0 | 3.0 | 0.420 | 120 | | Raton | | |
| | | | | 856 | 7/19/2012 | 475.0 | 478.0 | 3.0 | 0.420 | 120 | | Raton | | |
| | | | | 857 | 7/19/2012 | 484.0 | 485.0 | 3.0 | 0.420 | 120 | | Raton | | |
| | | | | 958 | 7/19/2012 | 557.0 | 558.0 | 3.0 | 0.420 | 120 | | Raton | | |
| | | | | 961 | 7/19/2012 | 732.0 | 735.0 | 3.0 | 0.420 | 120 | | Raton | | |
| | | | | 962 | 7/19/2012 | 793.0 | 795.0 | 3.0 | 0.420 | 120 | | Raton | | |
| | | | | 973 | 7/19/2012 | 800.0 | 801.0 | 3.0 | 0.420 | 120 | | Raton | | |
| | | | | 975 | 7/19/2012 | 855.5 | 856.5 | 3.0 | 0.420 | 120 | | Raton | | |
| | | | | 976 | 2/12/2002 | 1,202.0 | 1,204.0 | | | 120 | | Raton | | |
| | | | | 976 | 2/12/2002 | 1,635.0 | 1,643.0 | | | 120 | | Vermejo | | |
| | | | | 1,092 | 2/12/2002 | 1,827.0 | 1,834.0 | | | 120 | | Vermejo | | |
| | | | | 1,150 | 2/12/2002 | 1,846.0 | 1,849.0 | | | 120 | | Vermejo | | |
| | | | | 1,151 | 2/12/2002 | 1,866.0 | 1,870.0 | | | 120 | | Vermejo | | |
| | | | | 1,202 | 2/12/2002 | 1,879.0 | 1,882.0 | | | 120 | | Vermejo | | |
| | | | | 1,204 | 2/12/2002 | 1,886.0 | 1,889.0 | | | 120 | | Vermejo | | |
| | | | | 1,610 | Tubing Strings | | | | | | | | | |
| | | | | 1,611 | Tubing Description | Run Date | | Set Depth (ftKB) | | | | | | |
| | | | | 1,635 | Tubing - Production | 7/27/2012 | | 976.4 | | | | | | |
| | | | | 1,643 | Tubing Components | | | | | | | | | |
| | | | | 1,827 | Item Description | Jts | Model | OD (in) | Wt (lbs/ft) | Gra... | Top Thread | Len (ft) | Top (ftKB) | Btm (ftKB) |
| | | | | 1,828 | Tubing | 30 | T&C Upset | 2 7/8 | 6.50 | J-55 | | 958.15 | 0.0 | 958.2 |
| | | | | 1,834 | Tubing Sub | 1 | T&C Upset | 2 7/8 | 6.50 | J-55 | | 4.10 | 958.2 | 962.3 |
| | | | | 1,846 | Stator | 1 | 30N095 | 3 1/2 | | | | 12.55 | 962.3 | 974.8 |
| | | | | 1,849 | No Turn Tool | 1 | | 5 1/2 | | | | 1.20 | 974.8 | 976.0 |
| | | | | 1,866 | Notched Collar | | | 2 7/8 | | | | 0.44 | 976.0 | 976.4 |
| | | | | 1,870 | Rods | | | | | | | | | |
| | | | | 1,879 | Rod Description | Run Date | | String Length (ft) | | Set Depth (ftKB) | | | | |
| | | | | 1,882 | Insert Pump | 7/27/2012 | | 982.65 | | 973.5 | | | | |
| | | | | 1,886 | Rod Components | | | | | | | | | |
| | | | | 1,889 | Item Description | Jts | Model | OD (in) | Grade | Len (ft) | Top (ftKB) | Btm (ftKB) | | |
| | | | | 2,055 | Polished Rod | 1 | | 1 1/4 | | 16.00 | -9.1 | 6.9 | | |
| | | | | 2,067 | Pony Rod | 1 | | 7/8 | | 4.00 | 6.9 | 10.9 | | |
| | | | | 2,069 | Sucker Rod w/Molded Guides | 38 | WCN-78 | 7/8 | D | 950.00 | 10.9 | 960.9 | | |
| | | | | | Rotor | 1 | 30N095 | 1 1/2 | | 12.65 | 960.9 | 973.5 | | |



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|-------------------------|---------------|-------------------|---------------|-------------|---------------|------------------------|--------------------|----------------------|
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Well Config: Vertical - Original Hole, 8/3/2012 11:18:12 AM

Stimulations & Treatments

| Schematic - Actual | | Incl | ftKB (TVD) | ftKB (MD) | Frac Start Date | Top Perf (ft...) | Bottom Pe... | V (slurry) (...) | Total Prop... | AIR (b... | ATP (psi) | MTP (psi) | ISIP (psi) |
|--------------------|--|------|------------|-----------|---|------------------|--------------|------------------|---------------|-----------|-----------|-----------|------------|
| | | | | -9 | 2/13/2002 | 1202 | 1889 | | | | | | |
| | | | | 0 | Comment | | | | | | | | |
| | | | | 7 | Frac well with 3 stage 15# linear gel casing fracs. Used 87,891 gal of 15# linear gel and 140,000# 16/30 pr 6000. Frac 1st stg w/ 30,219 bbls Frac fluid, 19,608 SLF, 49,760# 16/30 Brady Sand. Frac 2nd stg w/29,992 bbls Frac fluid, 19,265 SLF, 49,150# 16/30 Brady Sand. Frac 3rd stg w/26,744 bbls Frac fluid, 17,458 SLF, 41,940# 16/30 Brady Sand. | | | | | | | | |
| | | | | 11 | | | | | | | | | |
| | | | | 393 | | | | | | | | | |
| | | | | 460 | 7/19/2012 | 732 | 856.5 | | 112,01... | 33 | 917.0 | 1,39... | 0.0 |
| | | | | 461 | Comment | | | | | | | | |
| | | | | 475 | | | | | | | | | |
| | | | | 478 | 7/19/2012 | 461 | 558 | | 101,22... | 27 | 1,836.0 | 2,09... | 717.0 |
| | | | | 484 | Comment | | | | | | | | |
| | | | | 485 | | | | | | | | | |
| | | | | 557 | | | | | | | | | |
| | | | | 558 | | | | | | | | | |
| | | | | 732 | | | | | | | | | |
| | | | | 735 | | | | | | | | | |
| | | | | 793 | | | | | | | | | |
| | | | | 795 | | | | | | | | | |
| | | | | 800 | | | | | | | | | |
| | | | | 801 | | | | | | | | | |
| | | | | 856 | | | | | | | | | |
| | | | | 857 | | | | | | | | | |
| | | | | 958 | | | | | | | | | |
| | | | | 961 | | | | | | | | | |
| | | | | 962 | | | | | | | | | |
| | | | | 973 | | | | | | | | | |
| | | | | 975 | | | | | | | | | |
| | | | | 976 | | | | | | | | | |
| | | | | 976 | | | | | | | | | |
| | | | | 1,092 | | | | | | | | | |
| | | | | 1,150 | | | | | | | | | |
| | | | | 1,151 | | | | | | | | | |
| | | | | 1,202 | | | | | | | | | |
| | | | | 1,204 | | | | | | | | | |
| | | | | 1,610 | | | | | | | | | |
| | | | | 1,611 | | | | | | | | | |
| | | | | 1,635 | | | | | | | | | |
| | | | | 1,643 | | | | | | | | | |
| | | | | 1,827 | | | | | | | | | |
| | | | | 1,828 | | | | | | | | | |
| | | | | 1,834 | | | | | | | | | |
| | | | | 1,846 | | | | | | | | | |
| | | | | 1,849 | | | | | | | | | |
| | | | | 1,866 | | | | | | | | | |
| | | | | 1,870 | | | | | | | | | |
| | | | | 1,879 | | | | | | | | | |
| | | | | 1,882 | | | | | | | | | |
| | | | | 1,886 | | | | | | | | | |
| | | | | 1,889 | | | | | | | | | |
| | | | | 2,055 | | | | | | | | | |
| | | | | 2,067 | | | | | | | | | |
| | | | | 2,069 | | | | | | | | | |
| PBTD, 2,067 | | | | | | | | | | | | | |
| TD, 2,069 | | | | | | | | | | | | | |