

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

## Sundry Notices and Reports on Wells

## 1. Type of Well

GAS

## 2. Name of Operator

CONOCOPHILLIPS

## 3. Address &amp; Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

## 4. Location of Well, Footage, Sec., T, R, M

Surface: Unit O (SWSE), 945' FSL &amp; 1840' FEL, Section 9, T28N R7W, NMPM

Bottom: Unit B (NWNE), 640' FNL &amp; 1920' FEL, Section 16, T28N R7W, NMPM

RECEIVED

NOV 20 2007

Bureau of Land Management  
Farmington Field Office5. Lease Number  
SF-0784976. If Indian, All. or  
Tribe Name7. Unit Agreement Name  
San Juan 28-7 Unit8. Well Name & Number  
San Juan 28-7 Unit 195P

9. API Well No.

30-039-30335

10. Field and Pool

Blanco MV/Basin DK

Rio Arriba Co., NM

## 12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

## Type of Submission

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment

## Type of Action

☐ Abandonment☐ Recompletion☐ Plugging☐ Casing Repair☐ Altering Casing☐ Change of Plans☐ New Construction☐ Non-Routine Fracturing☐ Water Shut off☐ Conversion to Injection☒ Other - Change of plans

## 13. Describe Proposed or Completed Operations

11/19/07 ConocoPhillips proposes to change the bottom hole location from 640' FNL & 1920' FEL to 415' FNL & 1910' FEL. This will bring the BHL closer to the wellhead & reduces torque while drilling the air hole, thereby reducing the likelihood that we will have to mud up to drill the production hole. Attached are the revised drilling program, directional plan and C-102.

APD/ROW

RCUD NOV 21 '07  
OIL CONS. DIV.

DIST. 3

## 14. I hereby certify that the foregoing is true and correct.

Signed Tamra Sessions Title Regulatory Technician Date 11/19/07

(This space for Federal or State Office use)

APPROVED BY [Signature] Title Per. Eng Date 11/21/07

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD

[Signature]

DISTRICT I  
1825 N. French Dr., Hobbs, N.M. 88240

DISTRICT II  
1301 West Grand Avenue, Artesia, N.M. 88210

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

DISTRICT IV  
1220 S. 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 87505

Form C-102  
Revised October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

|                            |                                                       |                                                         |
|----------------------------|-------------------------------------------------------|---------------------------------------------------------|
| <sup>1</sup> API Number    | <sup>2</sup> Pool Code                                | <sup>3</sup> Pool Name<br>BASIN DAKOTA/BLANCO MESAVERDE |
| <sup>4</sup> Property Code | <sup>5</sup> Property Name<br>SAN JUAN 28-7 UNIT      | <sup>6</sup> Well Number<br>195P                        |
| <sup>7</sup> OGRID No.     | <sup>8</sup> Operator Name<br>CONOCO PHILLIPS COMPANY | <sup>9</sup> Elevation<br>6213'                         |

#### <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     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| 0             | 9       | 28-N     | 7-W   |         | 945'          | SOUTH            | 1840'         | EAST           | RIO ARriba |

#### <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     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| B             | 16      | 28-N     | 7-W   |         | 415'          | NORTH            | 1910'         | EAST           | RIO ARriba |

|                                                                               |                               |                                  |                         |
|-------------------------------------------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>DK 320.00 ACRE E 1/2<br>MV 320.00 ACRE E 1/2 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-------------------------------------------------------------------------------|-------------------------------|----------------------------------|-------------------------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.

|                                                                                                                                                                                                                                                                        |                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Surface</b><br/>LAT: 36°40.2823' N.<br/>LONG: 107°34.5353' W.<br/>NAD 1927</p> <p><b>Bottom Hole</b><br/>LAT: 36°40.0382' N.<br/>LONG: 107°34.5494' W.<br/>NAD 1927</p> <p><b>Bottom Hole</b><br/>LAT: 36°40.7310' N.<br/>LONG: 107°34.5432' W.<br/>NAD 1983</p> | <p>LOT 4 LOT 3 LOT 2 LOT 1</p> <p>Surface</p> <p>Bottom Hole</p> <p>Section Line</p> <p>Section Line</p> <p>16</p> <p>SF-078497</p> <p>SF-078417</p> | <p><b>17 OPERATOR CERTIFICATION</b></p> <p>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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Tamara Sessions</i><br/>Signature<br/>Tamara Sessions<br/>Printed Name</p> <p><b>18 SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>11-20-07<br/>Date of Survey<br/>Signature and Seal of Registered Surveyor<br/>15703<br/>Certificate Number 15703</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# **ConocoPhillips SJB**

**San Juan Basin**

**Monty's Site for directional MV/DK wells**

**SJ 28-7 #195P**

**SJ 28-7 #195P**

**Plan: Modified Plan**

## **Standard Planning Report**

**19 November, 2007**

# ConocoPhillips or its affiliates

## Planning Report

|                  |                                          |                                     |                                      |
|------------------|------------------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM Central Planning                     | <b>Local Co-ordinate Reference:</b> | Well SJ 28-7 #195P                   |
| <b>Company:</b>  | ConocoPhillips SJBU                      | <b>TVD Reference:</b>               | WELL @ 6228.0ft (Original Well Elev) |
| <b>Project:</b>  | San Juan Basin                           | <b>MD Reference:</b>                | WELL @ 6228.0ft (Original Well Elev) |
| <b>Site:</b>     | Monty's Site for directional MV/DK wells | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | SJ 28-7 #195P                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | SJ 28-7 #195P                            |                                     |                                      |
| <b>Design:</b>   | Modified Plan                            |                                     |                                      |

|                    |                                      |                      |                             |
|--------------------|--------------------------------------|----------------------|-----------------------------|
| <b>Project:</b>    | San Juan Basin, Mid-Continent Area   |                      |                             |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level              |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                             |
| <b>Map Zone:</b>   | New Mexico West 3003                 |                      | Using geodetic scale factor |

|                              |                                          |                          |        |
|------------------------------|------------------------------------------|--------------------------|--------|
| <b>Site:</b>                 | Monty's Site for directional MV/DK wells |                          |        |
| <b>Site Position:</b>        |                                          | <b>Northing:</b>         | m      |
| <b>From:</b>                 | None                                     | <b>Easting:</b>          | m      |
| <b>Position Uncertainty:</b> | 0.0 ft                                   | <b>Slot Radius:</b>      | in     |
|                              |                                          | <b>Latitude:</b>         |        |
|                              |                                          | <b>Longitude:</b>        |        |
|                              |                                          | <b>Grid Convergence:</b> | 0.00 ° |

|                             |               |                            |                         |
|-----------------------------|---------------|----------------------------|-------------------------|
| <b>Well:</b>                | SJ 28-7 #195P |                            |                         |
| <b>Well Position</b>        | <b>+N/-S</b>  | 0.0 ft                     | <b>Northing:</b> 0.00 m |
|                             | <b>+E/-W</b>  | 0.0 ft                     | <b>Easting:</b> 0.00 m  |
| <b>Position Uncertainty</b> | 0.0 ft        | <b>Wellhead Elevation:</b> | ft                      |
|                             |               | <b>Latitude:</b>           | 30° 59' 24.512 N        |
|                             |               | <b>Longitude:</b>          | 109° 25' 44.094 W       |
|                             |               | <b>Ground Level:</b>       | 6,213.0 ft              |

|                  |                   |                    |                    |
|------------------|-------------------|--------------------|--------------------|
| <b>Wellbore:</b> | SJ 28-7 #195P     |                    |                    |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> |
|                  | BGGM2006          | 8/17/2007          | (°)                |
|                  |                   |                    | -6.41              |
|                  |                   |                    | -28.79             |
|                  |                   |                    | 31,502             |

|                          |                         |              |                          |
|--------------------------|-------------------------|--------------|--------------------------|
| <b>Design:</b>           | Modified Plan           |              |                          |
| <b>Audit Notes:</b>      |                         |              |                          |
| <b>Version:</b>          | <b>Phase:</b>           | PROTOTYPE    | <b>Tie On Depth:</b> 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b> | <b>+E/-W</b>             |
|                          | (ft)                    | (ft)         | (ft)                     |
|                          | 0.0                     | 0.0          | 0.0                      |
|                          |                         |              | <b>Direction</b>         |
|                          |                         |              | (°)                      |
|                          |                         |              | 182.95                   |

|                       |                    |                |                       |              |              |                    |                   |                  |            |                     |
|-----------------------|--------------------|----------------|-----------------------|--------------|--------------|--------------------|-------------------|------------------|------------|---------------------|
| <b>Plan Sections:</b> |                    |                |                       |              |              |                    |                   |                  |            |                     |
| <b>Measured Depth</b> | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical Depth</b> | <b>+N/-S</b> | <b>+E/-W</b> | <b>Dogleg Rate</b> | <b>Build Rate</b> | <b>Turn Rate</b> | <b>TFO</b> | <b>Target</b>       |
| (ft)                  | (°)                | (°)            | (ft)                  | (ft)         | (ft)         | (°/100ft)          | (°/100ft)         | (°/100ft)        | (°)        |                     |
| 0.0                   | 0.00               | 0.00           | 0.0                   | 0.0          | 0.0          | 0.00               | 0.00              | 0.00             | 0.00       |                     |
| 350.0                 | 0.00               | 0.00           | 350.0                 | 0.0          | 0.0          | 0.00               | 0.00              | 0.00             | 0.00       |                     |
| 1,561.9               | 24.24              | 182.95         | 1,526.1               | -252.2       | -13.0        | 2.00               | 2.00              | 0.00             | 182.95     |                     |
| 3,853.8               | 24.24              | 182.95         | 3,615.9               | -1,191.9     | -61.3        | 0.00               | 0.00              | 0.00             | 0.00       |                     |
| 4,661.7               | 0.00               | 0.00           | 4,400.0               | -1,360.0     | -70.0        | 3.00               | -3.00             | 0.00             | 180.00     | SJ 28-7 #195P - ICP |
| 7,645.7               | 0.00               | 0.00           | 7,384.0               | -1,360.0     | -70.0        | 0.00               | 0.00              | 0.00             | 0.00       | SJ 28-7 #195P - PCP |

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## Planning Report

|           |                                          |                              |                                      |
|-----------|------------------------------------------|------------------------------|--------------------------------------|
| Database: | EDM Central Planning                     | Local Co-ordinate Reference: | Well SJ 28-7 #195P                   |
| Company:  | ConocoPhillips SJBU                      | TVD Reference:               | WELL @ 6228.0ft (Original Well Elev) |
| Project:  | San Juan Basin                           | MD Reference:                | WELL @ 6228.0ft (Original Well Elev) |
| Site:     | Monty's Site for directional MV/DK wells | North Reference:             | True                                 |
| Well:     | SJ 28-7 #195P                            | Survey Calculation Method:   | Minimum Curvature                    |
| Wellbore: | SJ 28-7 #195P                            |                              |                                      |
| Design:   | Modified Plan                            |                              |                                      |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.0                 | 0.00            | 0.00        | 0.0                 | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 100.0               | 0.00            | 0.00        | 100.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 200.0               | 0.00            | 0.00        | 200.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 227.0               | 0.00            | 0.00        | 227.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 9 5/8"              |                 |             |                     |            |            |                       |                       |                      |                     |
| 300.0               | 0.00            | 0.00        | 300.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 350.0               | 0.00            | 0.00        | 350.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 400.0               | 1.00            | 182.95      | 400.0               | -0.4       | 0.0        | 0.4                   | 2.00                  | 2.00                 | 0.00                |
| 500.0               | 3.00            | 182.95      | 499.9               | -3.9       | -0.2       | 3.9                   | 2.00                  | 2.00                 | 0.00                |
| 600.0               | 5.00            | 182.95      | 599.7               | -10.9      | -0.6       | 10.9                  | 2.00                  | 2.00                 | 0.00                |
| 700.0               | 7.00            | 182.95      | 699.1               | -21.3      | -1.1       | 21.4                  | 2.00                  | 2.00                 | 0.00                |
| 800.0               | 9.00            | 182.95      | 798.2               | -35.2      | -1.8       | 35.3                  | 2.00                  | 2.00                 | 0.00                |
| 900.0               | 11.00           | 182.95      | 896.6               | -52.6      | -2.7       | 52.6                  | 2.00                  | 2.00                 | 0.00                |
| 1,000.0             | 13.00           | 182.95      | 994.4               | -73.3      | -3.8       | 73.4                  | 2.00                  | 2.00                 | 0.00                |
| 1,100.0             | 15.00           | 182.95      | 1,091.5             | -97.5      | -5.0       | 97.6                  | 2.00                  | 2.00                 | 0.00                |
| 1,200.0             | 17.00           | 182.95      | 1,187.6             | -125.0     | -6.4       | 125.2                 | 2.00                  | 2.00                 | 0.00                |
| 1,300.0             | 19.00           | 182.95      | 1,282.7             | -155.9     | -8.0       | 156.1                 | 2.00                  | 2.00                 | 0.00                |
| 1,400.0             | 21.00           | 182.95      | 1,376.6             | -190.0     | -9.8       | 190.3                 | 2.00                  | 2.00                 | 0.00                |
| 1,500.0             | 23.00           | 182.95      | 1,469.4             | -227.4     | -11.7      | 227.7                 | 2.00                  | 2.00                 | 0.00                |
| 1,561.9             | 24.24           | 182.95      | 1,526.1             | -252.2     | -13.0      | 252.5                 | 2.00                  | 2.00                 | 0.00                |
| 1,600.0             | 24.24           | 182.95      | 1,560.8             | -267.8     | -13.8      | 268.2                 | 0.00                  | 0.00                 | 0.00                |
| 1,700.0             | 24.24           | 182.95      | 1,652.0             | -308.8     | -15.9      | 309.2                 | 0.00                  | 0.00                 | 0.00                |
| 1,800.0             | 24.24           | 182.95      | 1,743.2             | -349.8     | -18.0      | 350.3                 | 0.00                  | 0.00                 | 0.00                |
| 1,900.0             | 24.24           | 182.95      | 1,834.4             | -390.8     | -20.1      | 391.3                 | 0.00                  | 0.00                 | 0.00                |
| 2,000.0             | 24.24           | 182.95      | 1,925.6             | -431.8     | -22.2      | 432.4                 | 0.00                  | 0.00                 | 0.00                |
| 2,082.7             | 24.24           | 182.95      | 2,001.0             | -465.7     | -24.0      | 466.4                 | 0.00                  | 0.00                 | 0.00                |
| Ojo Alamo           |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,100.0             | 24.24           | 182.95      | 2,016.7             | -472.8     | -24.3      | 473.4                 | 0.00                  | 0.00                 | 0.00                |
| 2,200.0             | 24.24           | 182.95      | 2,107.9             | -513.8     | -26.4      | 514.5                 | 0.00                  | 0.00                 | 0.00                |
| 2,229.7             | 24.24           | 182.95      | 2,135.0             | -526.0     | -27.1      | 526.7                 | 0.00                  | 0.00                 | 0.00                |
| Kirtland            |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,300.0             | 24.24           | 182.95      | 2,199.1             | -554.8     | -28.6      | 555.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,400.0             | 24.24           | 182.95      | 2,290.3             | -595.8     | -30.7      | 596.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,500.0             | 24.24           | 182.95      | 2,381.5             | -636.8     | -32.8      | 637.7                 | 0.00                  | 0.00                 | 0.00                |
| 2,600.0             | 24.24           | 182.95      | 2,472.7             | -677.8     | -34.9      | 678.7                 | 0.00                  | 0.00                 | 0.00                |
| 2,609.1             | 24.24           | 182.95      | 2,481.0             | -681.6     | -35.1      | 682.5                 | 0.00                  | 0.00                 | 0.00                |
| Fruitland           |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,700.0             | 24.24           | 182.95      | 2,563.8             | -718.8     | -37.0      | 719.8                 | 0.00                  | 0.00                 | 0.00                |
| 2,800.0             | 24.24           | 182.95      | 2,655.0             | -759.8     | -39.1      | 760.8                 | 0.00                  | 0.00                 | 0.00                |
| 2,900.0             | 24.24           | 182.95      | 2,746.2             | -800.8     | -41.2      | 801.9                 | 0.00                  | 0.00                 | 0.00                |
| 3,000.0             | 24.24           | 182.95      | 2,837.4             | -841.8     | -43.3      | 842.9                 | 0.00                  | 0.00                 | 0.00                |
| 3,079.6             | 24.24           | 182.95      | 2,910.0             | -874.5     | -45.0      | 875.6                 | 0.00                  | 0.00                 | 0.00                |
| Pictured Cliffs     |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,100.0             | 24.24           | 182.95      | 2,928.6             | -882.8     | -45.4      | 884.0                 | 0.00                  | 0.00                 | 0.00                |
| 3,200.0             | 24.24           | 182.95      | 3,019.8             | -923.8     | -47.5      | 925.0                 | 0.00                  | 0.00                 | 0.00                |
| 3,286.9             | 24.24           | 182.95      | 3,099.0             | -959.4     | -49.4      | 960.7                 | 0.00                  | 0.00                 | 0.00                |
| Lewis               |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,300.0             | 24.24           | 182.95      | 3,111.0             | -964.8     | -49.7      | 966.1                 | 0.00                  | 0.00                 | 0.00                |
| 3,400.0             | 24.24           | 182.95      | 3,202.1             | -1,005.8   | -51.8      | 1,007.1               | 0.00                  | 0.00                 | 0.00                |
| 3,500.0             | 24.24           | 182.95      | 3,293.3             | -1,046.8   | -53.9      | 1,048.2               | 0.00                  | 0.00                 | 0.00                |
| 3,600.0             | 24.24           | 182.95      | 3,384.5             | -1,087.8   | -56.0      | 1,089.2               | 0.00                  | 0.00                 | 0.00                |
| 3,700.0             | 24.24           | 182.95      | 3,475.7             | -1,128.8   | -58.1      | 1,130.3               | 0.00                  | 0.00                 | 0.00                |
| 3,800.0             | 24.24           | 182.95      | 3,566.9             | -1,169.8   | -60.2      | 1,171.3               | 0.00                  | 0.00                 | 0.00                |

# ConocoPhillips or its affiliates

## Planning Report

|           |                                          |                              |                                      |
|-----------|------------------------------------------|------------------------------|--------------------------------------|
| Database: | EDM Central Planning                     | Local Co-ordinate Reference: | Well SJ 28-7 #195P                   |
| Company:  | ConocoPhillips SJB                       | TVD Reference:               | WELL @ 6228.0ft (Original Well Elev) |
| Project:  | San Juan Basin                           | MD Reference:                | WELL @ 6228 0ft (Original Well Elev) |
| Site:     | Monty's Site for directional MV/DK wells | North Reference:             | True                                 |
| Well:     | SJ 28-7 #195P                            | Survey Calculation Method:   | Minimum Curvature                    |
| Wellbore: | SJ 28-7 #195P                            |                              |                                      |
| Design:   | Modified Plan                            |                              |                                      |

| Planned Survey                            |                 |             |                     |            |            |                       |                       |                      |                     |
|-------------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)                       | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 3,853.8                                   | 24.24           | 182.95      | 3,615.9             | -1,191.9   | -61.3      | 1,193.4               | 0.00                  | 0.00                 | 0.00                |
| 3,900.0                                   | 22.85           | 182.95      | 3,658.3             | -1,210.3   | -62.3      | 1,211.9               | 3.00                  | -3.00                | 0.00                |
| 4,000.0                                   | 19.85           | 182.95      | 3,751.4             | -1,246.6   | -64.2      | 1,248.3               | 3.00                  | -3.00                | 0.00                |
| 4,100.0                                   | 16.85           | 182.95      | 3,846.3             | -1,278.1   | -65.8      | 1,279.8               | 3.00                  | -3.00                | 0.00                |
| 4,127.8                                   | 16.02           | 182.95      | 3,873.0             | -1,285.9   | -66.2      | 1,287.7               | 3.00                  | -3.00                | 0.00                |
| <b>Chacra</b>                             |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,200.0                                   | 13.85           | 182.95      | 3,942.7             | -1,304.5   | -67.1      | 1,306.3               | 3.00                  | -3.00                | 0.00                |
| 4,300.0                                   | 10.85           | 182.95      | 4,040.4             | -1,325.9   | -68.2      | 1,327.6               | 3.00                  | -3.00                | 0.00                |
| 4,400.0                                   | 7.85            | 182.95      | 4,139.1             | -1,342.1   | -69.1      | 1,343.9               | 3.00                  | -3.00                | 0.00                |
| 4,500.0                                   | 4.85            | 182.95      | 4,238.4             | -1,353.2   | -69.6      | 1,355.0               | 3.00                  | -3.00                | 0.00                |
| 4,600.0                                   | 1.85            | 182.95      | 4,338.3             | -1,359.0   | -69.9      | 1,360.8               | 3.00                  | -3.00                | 0.00                |
| 4,661.7                                   | 0.00            | 0.00        | 4,400.0             | -1,360.0   | -70.0      | 1,361.8               | 3.00                  | -3.00                | 286.73              |
| <b>7" - SJ 28-7 #195P - ICP</b>           |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,700.0                                   | 0.00            | 0.00        | 4,438.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 4,786.7                                   | 0.00            | 0.00        | 4,525.0             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| <b>Cliffhouse</b>                         |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,800.0                                   | 0.00            | 0.00        | 4,538.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 4,900.0                                   | 0.00            | 0.00        | 4,638.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 4,974.7                                   | 0.00            | 0.00        | 4,713.0             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| <b>Menefee</b>                            |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,000.0                                   | 0.00            | 0.00        | 4,738.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 5,100.0                                   | 0.00            | 0.00        | 4,838.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 5,200.0                                   | 0.00            | 0.00        | 4,938.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 5,300.0                                   | 0.00            | 0.00        | 5,038.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 5,357.7                                   | 0.00            | 0.00        | 5,096.0             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| <b>Pt. Lookout</b>                        |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,400.0                                   | 0.00            | 0.00        | 5,138.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 5,500.0                                   | 0.00            | 0.00        | 5,238.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 5,600.0                                   | 0.00            | 0.00        | 5,338.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 5,700.0                                   | 0.00            | 0.00        | 5,438.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 5,800.0                                   | 0.00            | 0.00        | 5,538.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 5,840.7                                   | 0.00            | 0.00        | 5,579.0             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| <b>Mancos Shale</b>                       |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,900.0                                   | 0.00            | 0.00        | 5,638.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 6,000.0                                   | 0.00            | 0.00        | 5,738.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 6,100.0                                   | 0.00            | 0.00        | 5,838.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 6,200.0                                   | 0.00            | 0.00        | 5,938.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 6,300.0                                   | 0.00            | 0.00        | 6,038.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 6,400.0                                   | 0.00            | 0.00        | 6,138.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 6,500.0                                   | 0.00            | 0.00        | 6,238.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 6,592.7                                   | 0.00            | 0.00        | 6,331.0             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| <b>Gallup</b>                             |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,600.0                                   | 0.00            | 0.00        | 6,338.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 6,700.0                                   | 0.00            | 0.00        | 6,438.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 6,800.0                                   | 0.00            | 0.00        | 6,538.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 6,900.0                                   | 0.00            | 0.00        | 6,638.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 7,000.0                                   | 0.00            | 0.00        | 6,738.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 7,100.0                                   | 0.00            | 0.00        | 6,838.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 7,200.0                                   | 0.00            | 0.00        | 6,938.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 7,300.0                                   | 0.00            | 0.00        | 7,038.3             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| 7,645.7                                   | 0.00            | 0.00        | 7,384.0             | -1,360.0   | -70.0      | 1,361.8               | 0.00                  | 0.00                 | 0.00                |
| <b>Encinal - TD - SJ 28-7 #195P - PCP</b> |                 |             |                     |            |            |                       |                       |                      |                     |

# ConocoPhillips or its affiliates

## Planning Report

|           |                                          |                              |                                      |
|-----------|------------------------------------------|------------------------------|--------------------------------------|
| Database: | EDM Central Planning                     | Local Co-ordinate Reference: | Well SJ 28-7 #195P                   |
| Company:  | ConocoPhillips SJB                       | TVD Reference:               | WELL @ 6228 0ft (Original Well Elev) |
| Project:  | San Juan Basin                           | MD Reference:                | WELL @ 6228.0ft (Original Well Elev) |
| Site:     | Monty's Site for directional MV/DK wells | North Reference:             | True                                 |
| Well:     | SJ 28-7 #195P                            | Survey Calculation Method:   | Minimum Curvature                    |
| Wellbore: | SJ 28-7 #195P                            |                              |                                      |
| Design:   | Modified Plan                            |                              |                                      |

| Targets             |           |          |         |          |       |          |         |                  |                   |
|---------------------|-----------|----------|---------|----------|-------|----------|---------|------------------|-------------------|
| Target Name         | Dip Angle | Dip Dir. | TVD     | +N/-S    | +E/-W | Northing | Easting | Latitude         | Longitude         |
| - hit/miss target   | (°)       | (°)      | (ft)    | (ft)     | (ft)  | (m)      | (m)     |                  |                   |
| - Shape             |           |          |         |          |       |          |         |                  |                   |
| SJ 28-7 #195P - PCP | 0 00      | 0 00     | 7,384.0 | -1,360.0 | -70.0 | -414.26  | -27.28  | 30° 59' 11.052 N | 109° 25' 44.898 W |
| - plan hits target  |           |          |         |          |       |          |         |                  |                   |
| - Point             |           |          |         |          |       |          |         |                  |                   |
| SJ 28-7 #195P - ICP | 0 00      | 0 00     | 4,400.0 | -1,360.0 | -70.0 | -414.26  | -27.28  | 30° 59' 11.052 N | 109° 25' 44.898 W |
| - plan hits target  |           |          |         |          |       |          |         |                  |                   |
| - Point             |           |          |         |          |       |          |         |                  |                   |

| Casing Points  |                |        |                 |               |
|----------------|----------------|--------|-----------------|---------------|
| Measured Depth | Vertical Depth | Name   | Casing Diameter | Hole Diameter |
| (ft)           | (ft)           |        | (in)            | (in)          |
| 227.0          | 227.0          | 9 5/8" | 9.625           | 12.250        |
| 4,661.7        | 4,400.0        | 7"     | 7.000           | 8.750         |
| 7,645.6        | 7,383.9        | 4 1/2" | 4.500           | 6.250         |

| Formations     |                |                 |           |      |               |  |
|----------------|----------------|-----------------|-----------|------|---------------|--|
| Measured Depth | Vertical Depth | Name            | Lithology | Dip  | Dip Direction |  |
| (ft)           | (ft)           |                 |           | (°)  | (°)           |  |
| 2,082.7        | 2,001.0        | Ojo Alamo       |           | 0 00 |               |  |
| 2,229.7        | 2,135.0        | Kirtland        |           | 0 00 |               |  |
| 2,609.1        | 2,481.0        | Fruitland       |           | 0 00 |               |  |
| 3,079.6        | 2,910.0        | Pictured Cliffs |           | 0.00 |               |  |
| 3,286.9        | 3,099.0        | Lewis           |           | 0.00 |               |  |
| 4,127.8        | 3,873.0        | Chacra          |           | 0.00 |               |  |
| 4,786.7        | 4,525.0        | Cliffhouse      |           | 0 00 |               |  |
| 4,974.7        | 4,713.0        | Menefee         |           | 0 00 |               |  |
| 5,357.7        | 5,096.0        | Pt. Lookout     |           | 0 00 |               |  |
| 5,840.7        | 5,579.0        | Mancos Shale    |           | 0 00 |               |  |
| 6,592.7        | 6,331.0        | Gallup          |           | 0 00 |               |  |
| 7,333.7        | 7,072.0        | Greenhorn       |           | 0 00 |               |  |
| 7,399.7        | 7,138.0        | Graneros        |           | 0.00 |               |  |
| 7,434.7        | 7,173.0        | Two Wells       |           | 0.00 |               |  |
| 7,529.7        | 7,268.0        | Paguate         |           | 0 00 |               |  |
| 7,556.7        | 7,295.0        | Upper Cubero    |           | 0.00 |               |  |
| 7,584.7        | 7,323.0        | Lower Cubero    |           | 0 00 |               |  |
| 7,645.7        | 7,384.0        | TD              |           | 0.00 |               |  |
| 7,645.7        | 7,384.0        | Encinal         |           | 0.00 |               |  |

T - 28 N  
R - 7 W  
Sec 9

Objective: MV/DK New Drill  
Footages: 945' FSL, 1840' FEL

API #  
30-039-30335

APD/BLM:  
10/18/2007

Network #  
10194410

AFE #  
WAN CNV 7107

Rig: AWS #730  
GL: 6213'  
KB: 6228'

BLM Phone #  
505-599-8907

OCD Phone #  
505-334-6178

Lease #  
SF-078497

Like-Kind  
125 \$/FT

APD TMD:  
7646'

(248) Cost  
\$990,183

In case of Major Emergency Call 911

Give the following information to Operator:

County: Rio Arriba  
State: NM

Well Name: San Juan 28-7 Unit #195P

Latitude (NAD27): 36 degrees, 40 2623 minutes  
Latitude (NAD83): 36.671045 degrees

Longitude (NAD27): 107 degrees, 34.5353 minutes  
Longitude (NAD83): 107.576197 degrees

From the intersection of state highway 64, turn right (southeasterly) on CR 4450 (Largo Canyon Road) and travel 3.7 miles. Stay left at y-intersection and travel southeasterly 2.3 miles. Stay right at y-intersection and travel southeast along the east side of Carrizo Canyon wash for 2.3 miles. Turn left and travel northeasterly for 2 6 miles, stay right (southeasterly) for 1.1 miles. Stay left (east-southeasterly) for 5.9 miles long the north side of the Carrizo wash. Continue northeasterly for 2.1 miles, turn left (east) and travel 0.6 miles, continue north for 0.4 miles, turn left (northwest) and travel 0.2 miles to the new staked location twinned with the SJ 28-7 241E.

Environmental, Health & Safety

"Opportunities are usually disguised as hard work, so most people don't recognize them." *Ann Landers* "Nothing is particularly hard if you divide it into small jobs " *Henry Ford*

|                  | TRIR* | FAT | Restrict'd Duty | OSHA Rec | 1st Aid |
|------------------|-------|-----|-----------------|----------|---------|
| Goal             | 1     | 0   | 0               | 0        | 0       |
| Actual (11/2/07) | 2 57  | 1   | 8               | 23       | 114     |

\* TRIR - Total Recordable Incident Rate per 200,000 man-hours.

Environmental Goals:

- Zero Spills on Location
- Remove Trash from Roads and Locations

| TVD   | TMD   | Geology             | Hydraulics                                                                                                          | Drig Fluids                                                                                                                                                      | Cement                                                                                                                                                                                                                                                                                      | Materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------|-------|---------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0'    | 0'    | San Jose            | 12 1/4" Retip                                                                                                       | Spud Mud                                                                                                                                                         | Type III cement with 3% CaCl2 and 1/4 pps celloflake                                                                                                                                                                                                                                        | 1 Cameron SSDC wellhead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 227'  | 227'  | SCP                 |                                                                                                                     |                                                                                                                                                                  | 190 sks 231 8 cu ft 15 2 ppg<br>1 28 cu ft/sk 5 77 gal per sk 200%                                                                                                                                                                                                                          | 4 Wellhead-fuzz-cap<br>227-feet 9-5/8"-32 3# H-40 STC                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NA    | NA    | Nacimiento          | 8 3/4" HCM506Z<br>6-12's<br>8-15K WOB<br>420 GPM<br>65 RPM                                                          | Drill out from under surface w/ Clean Faze (Vis 33-35, WT 8 5-9 0 ppg, WL of 6-8 cc/30 min). Sweep hole with gel/fiber as needed. Don't hesitate to mud hole up! | <b>1-Stage Intermediate Cement Procedure</b><br><br><b>Preflush:</b><br><i>10 bbls FW, 10 bbls MF, 10 bbls FW</i><br><br><b>Scavenger:</b><br>Premium Lite w/ 3% CaCl, 0 25 pps Cello-Flake, 5 pps LCM-1, 0 4% FL-52 and 0 4% SMS<br>20 sks 11 ppg 17.89 gal/sk<br>56 0 cu.ft 3 02 cu.ft/sk | 4 9-5/8"-sawtooth guide shoe<br>3 Bow-Type Centralizers<br>4 Rubber Plug-1/displacement                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2001' | 2083' | Ojo Alamo           |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             | <b>Intermediate String</b><br>1 7" Float Shoe (Gemoco)<br>40 feet Shoe Joint 7" 23 0#, L-80 LT&C<br>1 7" Float Collar (Gemoco)<br>4622 feet 7", 23.0#, L-80 LT&C<br>39 7" x 8-3/4" Tandem Rise type, 1 on the middle of the shoe jt and then one every 3rd jt to surface shoe and one inside the surface shoe                                                                                                                                                                                                               |
| 2135' | 2230' | Kirtland            |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2481' | 2609' | Fruitland           | Drill out from under surface with directional tools                                                                 |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2910' | 3080' | Pictured Cliffs     |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3099' | 3287' | Lewis               | 6-3/4", 7-8 lobe, 5.0 stg, 0.28 rev/gal, slick Hunting motor                                                        |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             | <b>Totals</b><br>4812 feet 7"; 23.0#, L-80 LT&C w/ 150' extra<br>39 7" x 8-3/4" Tandem Rise type centralizers                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3873' | 4128' | Chacra              |                                                                                                                     | @ TD make wiper trip to drill collars                                                                                                                            |                                                                                                                                                                                                                                                                                             | <b>Production String</b><br>1 4-1/2" Float Shoe (Gemoco)<br>1 4-1/2" Float Collar w/ Insert and latch in plug<br>396 feet 4-1/2" 11 6#, L-80 LT&C<br>10 feet 4-1/2" 11 6#, L-80 LT&C marker jt 150' above the Graneros<br>3553 feet 4-1/2" 11 6#, L-80 LT&C @ 1100' above the Cliff House<br>10 feet 4-1/2" 11 6#, L-80 LT&C marker jt<br>3677 feet 4-1/2" 11 6#, L-80 LT&C to surface<br>20 4-1/2" x 6-1/4" bowspring centralizers, 1 on shoe jt, then 1 every 4th jt 1/bottom to above Cliffhouse & 1 on jt below 7" shoe |
| 4400' | 4662' | ICP                 |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             | <b>Totals</b><br>7796 feet 4-1/2" 11 6#, L-80 LT&C w/ 150' extra<br>20 4-1/2" x 6-1/4" bow type<br>If mud drilled, contact office for new TD.                                                                                                                                                                                                                                                                                                                                                                               |
| 4525' | 4787' | Massive Cliff House |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             | <b>Have mudloggers on hole from 7230' TMD to TD. Mudloggers will be Softrock (970-247-8868)</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4713' | 4975' | Menefee             |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             | <b>No open hole logs.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 5096' | 5358' | Point Lookout       |                                                                                                                     | GPM range for motor 200-450 GPM                                                                                                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5579' | 5841' | Mancos              | New Diamond Air 6-1/4" Bit Marquis CV462 on Halco Hammer                                                            | Air/Nitrogen 1800 cfm 400 - 500 psi                                                                                                                              |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 6331' | 6593' | Gallup              |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7072' | 7334' | Greenhorn           |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7138' | 7400' | Graneros            | 2-4 K WOB 30-40 RPM                                                                                                 | Run 1-3 #/ft lube beads for frction if necessary                                                                                                                 |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7173' | 7435' | Two Wells           | Slow ROP before drilling into the top of Greenhorn.                                                                 |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7268' | 7530' | Paguata             | Reduce WOB to 2,000                                                                                                 | Oxygen conc MUST be 8% or less while drilling                                                                                                                    |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7295' | 7557' | Cubero              | & RPM to 25                                                                                                         | prod hole section                                                                                                                                                |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7323' | 7585' | Lower Cubero        |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7632' | 7632' | Est Bottom of Perfs | If hole gets wet: Immediately start pulling drill string out of the hole & then contact the drilling superintendent |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7384' | 7646' | Encinal             |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 7384' | 7646' | Total Depth         |                                                                                                                     |                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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Offset Summary

**San Juan 28-7 #159G (MV/DK, 1 1/2 mi. SE, 2007):** Preset surface to 351' Ran 9-5/8", 32 3#, J-55, ST&C to 346', pumped 29 bbls cmt, cmt locked up, had to top set. Drilled directionally 1/351'-5,299' w/ HCM506Z, ROP=66 fph, 440 gpm Ran wiper trip w/o direc tools. Ran 7", 23 0#, L-80, LT&C to 4,054', stuck pipe. Left shoe at 4,049' Pumped 322 bbls cmt, circ 165 bbls to surf, 135% excess. Cleaned and reamed hole from 7" shoe to 5,304' Drilled 1/5,304'-8,271' w/ Marquis CV462, avg ROP=51 fph Ran 4-1/2", 11.6#, L-80, LT&C to 8,269' Pumped 128 bbls cmt, 60% excess CBL had not been run as of 17NOV07

**San Juan 28-7 #231F (MV/DK, 3/4 mi. S, 2007):** Preset surface to 268' Ran 9-5/8", 32 3#, J-55, ST&C to 263', pumped 24 bbls cmt, circ 6 bbls to surf Drilled 1/268'-3,425' w/ HC606Z, ROP=112 fph, max dev=2 deg, 470 gpm Ran wiper trip 1/834'-3,425' Ran 7", 20.0#, J-5, ST&C to 3,413'. Pumped 222 bbls cmt, circ 101 bbls to surf, 150% excess Drilled 1/3,425'-7,414' w/ Marquis CV462, avg ROP=104 fph Ran 4-1/2", 10 5#, J-55, ST&C on btm, 11 6#, N-80 on top, set shoe @ 7,413'. Pumped 111 bbls cmt, 60% excess. TOC @ 2,480'

**San Juan 28-7 #241E (MV/DK, twinned well, 1980):** Surface csg set at 238' Intermediate csg set at 3,252'. Production csg set at 7417' Perfs starting at 4,572' Down to 7,376'

Operational Notes

Directional Info

| Plan Sections       |                 |             |                     |                      |                 |
|---------------------|-----------------|-------------|---------------------|----------------------|-----------------|
| Measured Depth (ft) | Inclination (d) | Azimuth (d) | Vertical Depth (ft) | Build Rate (d/100ft) | Casing Point    |
| 0                   | 0               | 0           | 0                   | 0                    |                 |
| 350                 | 0               | 0           | 350                 | 0                    |                 |
| 1,561 90            | 24 24           | 182 95      | 1,526 10            | 2 0                  |                 |
| 3,853 80            | 24 24           | 182 95      | 3,615 90            | 0                    |                 |
| 4,661 70            | 0               | 0           | 4,400 00            | -3 0                 | Inter Csg Point |
| 7,645.70            | 0               | 0           | 7,384 00            | 0                    | Prod Csg Point  |

- Drill out surface cmt with directional equipment, drill to KOP of 350'

- A 6 1/2" E-Field MWD tool will be used

- Run an Hunting 6 3/4", 7 8, 0 28 rev/gal 5 0 stage motor without stabilizers

- If directional plan changes, recalculate position and drill to TVD. If deviation at int TD exceeds 5°, call office for further instruction

- At 7" casing point, TOH with drilling assembly and TIH with insert bit, collar, 8-1/2" 3-pt reamer

Target Info

- Bottom hole location is 415' FSL and 1910' FEL (Section 16)

- Target is 1360' N and 70' W from surface stake

- BHL is **1361.8' in azimuth of 182.95°** from surface location

- Target size is a 50' radius around the BHL. **Hard line is 10' south of the north edge of sec. 16, or 955' south of SHL.**

Operational Info

- Run 4 jts of 6 1/4" spiral dc and 20 jts of 4 1/2" HeviWate pipe for intermediate hole (supplied by Weatherford).

- Run 10 DCs for air BHA; use 20 DCs if mud drilling necessary.

- Caliper everything that goes through the table

- Pump cement job no greater than 4 BPM.

- Install drilling head rotating rubber once BHA is buried

- Reserve pits must be lined

- Well should take an estimated 11 days to drill

- Have Bloolie line rigged up prior to drilling the Kirtland

- Estimated bottom of perfs @ 7631.6' TMD

- Call both regulatory agencies 24 hours in advance of BOP testing, spud, running csg, or cementing Leave message if after hours

Prepared: 11/19/2007

Prepared: Russell Perkins - Drilling Engineer

Reviewed: \_\_\_\_\_

Approved: Jim Fodor - Drilling Superintendent