



# ConocoPhillips SJB

San Juan Basin - New Mexico Wells

Other Named Wells

Zella Calloway #1M

Principal Wellbore

30-045-34888

Plan: Plan #1

RCVD JANE 100

OIL CONS. DIV.

DIST. 8

## Standard Planning Report

18 November, 2008

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Planning Report

|                  |                                   |                                     |                                                |
|------------------|-----------------------------------|-------------------------------------|------------------------------------------------|
| <b>Database:</b> | EDM Central Planning              | <b>Local Co-ordinate Reference:</b> | Well Zella Calloway #1M                        |
| <b>Company:</b>  | ConocoPhillips SJB                | <b>TVD Reference:</b>               | Generic 15' KB @ 5772 0ft (Original Well Elev) |
| <b>Project:</b>  | San Juan Basin - New Mexico Wells | <b>MD Reference:</b>                | Generic 15' KB @ 5772 0ft (Original Well Elev) |
| <b>Site:</b>     | Other Named Wells                 | <b>North Reference:</b>             | True                                           |
| <b>Well:</b>     | Zella Calloway #1M                | <b>Survey Calculation Method:</b>   | Minimum Curvature                              |
| <b>Wellbore:</b> | Principal Wellbore                |                                     |                                                |
| <b>Design:</b>   | Plan #1                           |                                     |                                                |

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

|                              |                   |                     |              |                                    |
|------------------------------|-------------------|---------------------|--------------|------------------------------------|
| <b>Site</b>                  | Other Named Wells |                     |              |                                    |
| <b>Site Position:</b>        |                   | <b>Northing:</b>    | 644,286 93 m | <b>Latitude:</b> 36° 48' 31 566 N  |
| <b>From:</b>                 | Lat/Long          | <b>Easting:</b>     | 124,740 82 m | <b>Longitude:</b> 108° 8' 35 940 W |
| <b>Position Uncertainty:</b> | 0 0 ft            | <b>Slot Radius:</b> | in           | <b>Grid Convergence:</b> -0 19 °   |

|                             |                    |         |                            |              |
|-----------------------------|--------------------|---------|----------------------------|--------------|
| <b>Well</b>                 | Zella Calloway #1M |         |                            |              |
| <b>Well Position</b>        | +N/-S              | 0 0 ft  | <b>Northing:</b>           | 648,335 30 m |
|                             | +E/-W              | 0 0 ft  | <b>Easting:</b>            | 140,089 60 m |
| <b>Position Uncertainty</b> |                    | 15 0 ft | <b>Wellhead Elevation:</b> | ft           |
|                             |                    |         | <b>Ground Level:</b>       | 5,757 0 ft   |

|                  |                    |                    |                        |                      |                            |
|------------------|--------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Principal Wellbore |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b>  | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | BGGM2007           | 11/18/2008         | 10 37                  | 63 58                | 51,015                     |

|                          |                         |                   |                   |                          |
|--------------------------|-------------------------|-------------------|-------------------|--------------------------|
| <b>Design</b>            | Plan #1                 |                   |                   |                          |
| <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 (ft)</b> | <b>+E/-W (ft)</b> | <b>Direction (°)</b>     |
|                          | 0 0                     | 0 0               | 0 0               | 270 00                   |

| <b>Plan Sections</b> |                 |             |                     |            |            |                       |                      |                     |         |                       |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|-----------------------|
| Measured Depth (ft)  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target                |
| 0 0                  | 0 00            | 0 00        | 0 0                 | 0 0        | 0 0        | 0 00                  | 0 00                 | 0 00                | 0 00    |                       |
| 300 0                | 0 00            | 0 00        | 300 0               | 0 0        | 0 0        | 0 00                  | 0 00                 | 0 00                | 0 00    |                       |
| 1,458.6              | 23 17           | 270.00      | 1,427.2             | 0 0        | -231.1     | 2 00                  | 2 00                 | 0 00                | 270 00  |                       |
| 3,439.6              | 23 17           | 270.00      | 3,248.5             | 0 0        | -1,010.6   | 0 00                  | 0 00                 | 0 00                | 0 00    |                       |
| 4,212.0              | 0 00            | 0 00        | 4,000.0             | 0 0        | -1,164.7   | 3 00                  | -3 00                | 0 00                | 180 00  | Zella Calloway #1M IC |
| 7,106.0              | 0 00            | 0 00        | 6,894.0             | 0 0        | -1,164.7   | 0 00                  | 0 00                 | 0 00                | 0 00    | Zella Calloway #1M P  |

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|                  |                                   |                                     |                                                |
|------------------|-----------------------------------|-------------------------------------|------------------------------------------------|
| <b>Database:</b> | EDM Central Planning              | <b>Local Co-ordinate Reference:</b> | Well Zella Calloway #1M                        |
| <b>Company:</b>  | ConocoPhillips SJB                | <b>TVD Reference:</b>               | Generic 15' KB @ 5772 0ft (Original Well Elev) |
| <b>Project:</b>  | San Juan Basin - New Mexico Wells | <b>MD Reference:</b>                | Generic 15' KB @ 5772 0ft (Original Well Elev) |
| <b>Site:</b>     | Other Named Wells                 | <b>North Reference:</b>             | True                                           |
| <b>Well:</b>     | Zella Calloway #1M                | <b>Survey Calculation Method:</b>   | Minimum Curvature                              |
| <b>Wellbore:</b> | Principal Wellbore                |                                     |                                                |
| <b>Design:</b>   | Plan #1                           |                                     |                                                |

**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                |
| <b>Surf</b>               |                 |             |                     |            |            |                       |                       |                      |                     |
| 300 0                     | 0 00            | 0 00        | 300 0               | 0 0        | 0 0        | 0 0                   | 0 00                  | 0 00                 | 0 00                |
| 400 0                     | 2 00            | 270 00      | 400 0               | 0 0        | -1 7       | 1 7                   | 2 00                  | 2 00                 | 0 00                |
| 500 0                     | 4 00            | 270 00      | 499 8               | 0 0        | -7 0       | 7 0                   | 2 00                  | 2 00                 | 0 00                |
| 600 0                     | 6 00            | 270 00      | 599 5               | 0 0        | -15 7      | 15 7                  | 2 00                  | 2 00                 | 0 00                |
| 700 0                     | 8 00            | 270 00      | 698 7               | 0 0        | -27 9      | 27 9                  | 2 00                  | 2 00                 | 0 00                |
| 800 0                     | 10 00           | 270 00      | 797 5               | 0 0        | -43 5      | 43 5                  | 2 00                  | 2 00                 | 0 00                |
| 832 1                     | 10 64           | 270 00      | 829 0               | 0 0        | -49 3      | 49 3                  | 2 00                  | 2 00                 | 0 00                |
| <b>Ojo</b>                |                 |             |                     |            |            |                       |                       |                      |                     |
| 900 0                     | 12 00           | 270 00      | 895 6               | 0 0        | -62 6      | 62 6                  | 2 00                  | 2 00                 | 0 00                |
| 958 8                     | 13 18           | 270 00      | 953 0               | 0 0        | -75 4      | 75 4                  | 2 00                  | 2 00                 | 0 00                |
| <b>Kirtland</b>           |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,000 0                   | 14 00           | 270 00      | 993 1               | 0 0        | -85 1      | 85 1                  | 2 00                  | 2 00                 | 0 00                |
| 1,100 0                   | 16 00           | 270 00      | 1,089 6             | 0 0        | -111 0     | 111 0                 | 2 00                  | 2 00                 | 0 00                |
| 1,200 0                   | 18 00           | 270 00      | 1,185 3             | 0 0        | -140 2     | 140 2                 | 2 00                  | 2 00                 | 0 00                |
| 1,300 0                   | 20 00           | 270 00      | 1,279 8             | 0 0        | -172 8     | 172 8                 | 2 00                  | 2 00                 | 0 00                |
| 1,400 0                   | 22 00           | 270 00      | 1,373 2             | 0 0        | -208 6     | 208 6                 | 2 00                  | 2 00                 | 0 00                |
| 1,458 6                   | 23 17           | 270 00      | 1,427 2             | 0 0        | -231 1     | 231 1                 | 2 00                  | 2 00                 | 0 00                |
| 1,500 0                   | 23 17           | 270 00      | 1,465 3             | 0 0        | -247 4     | 247 4                 | 0 00                  | 0 00                 | 0 00                |
| 1,600 0                   | 23 17           | 270 00      | 1,557 3             | 0 0        | -286 7     | 286 7                 | 0 00                  | 0 00                 | 0 00                |
| 1,700 0                   | 23 17           | 270 00      | 1,649 2             | 0 0        | -326 1     | 326 1                 | 0 00                  | 0 00                 | 0 00                |
| 1,777 0                   | 23 17           | 270 00      | 1,720 0             | 0 0        | -356 4     | 356 4                 | 0 00                  | 0 00                 | 0 00                |
| <b>Fruitland</b>          |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,800 0                   | 23 17           | 270 00      | 1,741 1             | 0 0        | -365 4     | 365 4                 | 0 00                  | 0 00                 | 0 00                |
| 1,900 0                   | 23 17           | 270 00      | 1,833 1             | 0 0        | -404 8     | 404 8                 | 0 00                  | 0 00                 | 0 00                |
| 2,000 0                   | 23 17           | 270 00      | 1,925 0             | 0 0        | -444 1     | 444 1                 | 0 00                  | 0 00                 | 0 00                |
| 2,100 0                   | 23 17           | 270 00      | 2,016 9             | 0 0        | -483 5     | 483 5                 | 0 00                  | 0 00                 | 0 00                |
| 2,200 0                   | 23 17           | 270 00      | 2,108 9             | 0 0        | -522 8     | 522 8                 | 0 00                  | 0 00                 | 0 00                |
| 2,300 0                   | 23 17           | 270 00      | 2,200 8             | 0 0        | -562 2     | 562 2                 | 0 00                  | 0 00                 | 0 00                |
| 2,400 0                   | 23 17           | 270 00      | 2,292 7             | 0 0        | -601 5     | 601 5                 | 0 00                  | 0 00                 | 0 00                |
| 2,403 6                   | 23 17           | 270 00      | 2,296 0             | 0 0        | -602 9     | 602 9                 | 0 00                  | 0 00                 | 0 00                |
| <b>Pictured Cliffs</b>    |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,500 0                   | 23 17           | 270 00      | 2,384 7             | 0 0        | -640 9     | 640 9                 | 0 00                  | 0 00                 | 0 00                |
| 2,545 0                   | 23 17           | 270 00      | 2,426 0             | 0 0        | -658 6     | 658 6                 | 0 00                  | 0 00                 | 0 00                |
| <b>Lewis</b>              |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,600 0                   | 23 17           | 270 00      | 2,476 6             | 0 0        | -680 2     | 680 2                 | 0 00                  | 0 00                 | 0 00                |
| 2,700 0                   | 23 17           | 270 00      | 2,568 5             | 0 0        | -719 6     | 719 6                 | 0 00                  | 0 00                 | 0 00                |
| 2,800 0                   | 23 17           | 270 00      | 2,660 5             | 0 0        | -758 9     | 758 9                 | 0 00                  | 0 00                 | 0 00                |
| 2,900 0                   | 23 17           | 270 00      | 2,752 4             | 0 0        | -798 3     | 798 3                 | 0 00                  | 0 00                 | 0 00                |
| 3,000 0                   | 23 17           | 270 00      | 2,844 3             | 0 0        | -837 6     | 837 6                 | 0 00                  | 0 00                 | 0 00                |
| 3,100 0                   | 23 17           | 270 00      | 2,936 3             | 0 0        | -877 0     | 877 0                 | 0 00                  | 0 00                 | 0 00                |
| 3,200 0                   | 23 17           | 270 00      | 3,028 2             | 0 0        | -916 3     | 916 3                 | 0 00                  | 0 00                 | 0 00                |
| 3,215 0                   | 23 17           | 270 00      | 3,042 0             | 0 0        | -922 2     | 922 2                 | 0 00                  | 0 00                 | 0 00                |
| <b>Huerfano Bentonite</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,300 0                   | 23 17           | 270 00      | 3,120 1             | 0 0        | -955 7     | 955 7                 | 0 00                  | 0 00                 | 0 00                |
| 3,400 0                   | 23 17           | 270 00      | 3,212 1             | 0 0        | -995 0     | 995 0                 | 0 00                  | 0 00                 | 0 00                |
| 3,439 6                   | 23 17           | 270 00      | 3,248 5             | 0 0        | -1,010 6   | 1,010 6               | 0 00                  | 0 00                 | 0 00                |
| 3,500 0                   | 21 36           | 270 00      | 3,304 4             | 0 0        | -1,033 5   | 1,033 5               | 3 00                  | -3 00                | 0 00                |
| 3,571 0                   | 19 23           | 270 00      | 3,371 0             | 0 0        | -1,058 1   | 1,058 1               | 3 00                  | -3 00                | 0 00                |
| <b>Chacra</b>             |                 |             |                     |            |            |                       |                       |                      |                     |

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## Planning Report

|                  |                                   |                                     |                                                |
|------------------|-----------------------------------|-------------------------------------|------------------------------------------------|
| <b>Database:</b> | EDM Central Planning              | <b>Local Co-ordinate Reference:</b> | Well Zella Calloway #1M                        |
| <b>Company:</b>  | ConocoPhillips SJB                | <b>TVD Reference:</b>               | Generic 15' KB @ 5772 0ft (Original Well Elev) |
| <b>Project:</b>  | San Juan Basin - New Mexico Wells | <b>MD Reference:</b>                | Generic 15' KB @ 5772 0ft (Original Well Elev) |
| <b>Site:</b>     | Other Named Wells                 | <b>North Reference:</b>             | True                                           |
| <b>Well:</b>     | Zella Calloway #1M                | <b>Survey Calculation Method:</b>   | Minimum Curvature                              |
| <b>Wellbore:</b> | Principal Wellbore                |                                     |                                                |
| <b>Design:</b>   | Plan #1                           |                                     |                                                |

| 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) |
| 3,600.0                             | 18.36           | 270.00      | 3,398.4             | 0.0        | -1,067.4   | 1,067.4               | 3.00                  | -3.00                | 0.00                |
| 3,700.0                             | 15.36           | 270.00      | 3,494.1             | 0.0        | -1,096.4   | 1,096.4               | 3.00                  | -3.00                | 0.00                |
| 3,800.0                             | 12.36           | 270.00      | 3,591.2             | 0.0        | -1,120.4   | 1,120.4               | 3.00                  | -3.00                | 0.00                |
| 3,900.0                             | 9.36            | 270.00      | 3,689.4             | 0.0        | -1,139.2   | 1,139.2               | 3.00                  | -3.00                | 0.00                |
| 4,000.0                             | 6.36            | 270.00      | 3,788.4             | 0.0        | -1,152.9   | 1,152.9               | 3.00                  | -3.00                | 0.00                |
| 4,003.6                             | 6.25            | 270.00      | 3,792.0             | 0.0        | -1,153.3   | 1,153.3               | 3.00                  | -3.00                | 0.00                |
| <b>Upper Cliffhouse</b>             |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,093.9                             | 3.54            | 270.00      | 3,882.0             | 0.0        | -1,161.0   | 1,161.0               | 3.00                  | -3.00                | 0.00                |
| <b>Mass. Cliffhouse</b>             |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,100.0                             | 3.36            | 270.00      | 3,888.1             | 0.0        | -1,161.4   | 1,161.4               | 3.00                  | -3.00                | 0.00                |
| 4,200.0                             | 0.36            | 270.00      | 3,988.0             | 0.0        | -1,164.6   | 1,164.6               | 3.00                  | -3.00                | 0.00                |
| 4,212.0                             | 0.00            | 0.00        | 4,000.0             | 0.0        | -1,164.7   | 1,164.7               | 3.00                  | -3.00                | 0.00                |
| <b>Int - Zella Calloway #1M ICP</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,255.0                             | 0.00            | 0.00        | 4,043.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| <b>Menefee</b>                      |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,300.0                             | 0.00            | 0.00        | 4,088.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 4,400.0                             | 0.00            | 0.00        | 4,188.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 4,500.0                             | 0.00            | 0.00        | 4,288.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 4,600.0                             | 0.00            | 0.00        | 4,388.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 4,700.0                             | 0.00            | 0.00        | 4,488.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 4,743.0                             | 0.00            | 0.00        | 4,531.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| <b>Point Lookout</b>                |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,800.0                             | 0.00            | 0.00        | 4,588.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 4,900.0                             | 0.00            | 0.00        | 4,688.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 5,000.0                             | 0.00            | 0.00        | 4,788.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 5,100.0                             | 0.00            | 0.00        | 4,888.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 5,143.0                             | 0.00            | 0.00        | 4,931.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| <b>Mancos</b>                       |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,200.0                             | 0.00            | 0.00        | 4,988.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 5,300.0                             | 0.00            | 0.00        | 5,088.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 5,400.0                             | 0.00            | 0.00        | 5,188.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 5,500.0                             | 0.00            | 0.00        | 5,288.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 5,600.0                             | 0.00            | 0.00        | 5,388.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 5,700.0                             | 0.00            | 0.00        | 5,488.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 5,800.0                             | 0.00            | 0.00        | 5,588.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 5,900.0                             | 0.00            | 0.00        | 5,688.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 6,000.0                             | 0.00            | 0.00        | 5,788.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 6,059.0                             | 0.00            | 0.00        | 5,847.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| <b>Upper Gallup</b>                 |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,100.0                             | 0.00            | 0.00        | 5,888.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 6,200.0                             | 0.00            | 0.00        | 5,988.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 6,300.0                             | 0.00            | 0.00        | 6,088.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 6,400.0                             | 0.00            | 0.00        | 6,188.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 6,500.0                             | 0.00            | 0.00        | 6,288.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 6,600.0                             | 0.00            | 0.00        | 6,388.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 6,700.0                             | 0.00            | 0.00        | 6,488.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 6,800.0                             | 0.00            | 0.00        | 6,588.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 6,810.0                             | 0.00            | 0.00        | 6,598.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| <b>Greenhorn</b>                    |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,866.0                             | 0.00            | 0.00        | 6,654.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| <b>Graneros</b>                     |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,900.0                             | 0.00            | 0.00        | 6,688.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |

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|                  |                                   |                                     |                                                |
|------------------|-----------------------------------|-------------------------------------|------------------------------------------------|
| <b>Database:</b> | EDM Central Planning              | <b>Local Co-ordinate Reference:</b> | Well Zella Calloway #1M                        |
| <b>Company:</b>  | ConocoPhillips SJB                | <b>TVD Reference:</b>               | Generic 15' KB @ 5772 0ft (Original Well Elev) |
| <b>Project:</b>  | San Juan Basin - New Mexico Wells | <b>MD Reference:</b>                | Generic 15' KB @ 5772 0ft (Original Well Elev) |
| <b>Site:</b>     | Other Named Wells                 | <b>North Reference:</b>             | True                                           |
| <b>Well:</b>     | Zella Calloway #1M                | <b>Survey Calculation Method:</b>   | Minimum Curvature                              |
| <b>Wellbore:</b> | Principal Wellbore                |                                     |                                                |
| <b>Design:</b>   | Plan #1                           |                                     |                                                |

| 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) |
| 6,922.0                              | 0.00            | 0.00        | 6,710.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| <b>Two Wells</b>                     |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,000.0                              | 0.00            | 0.00        | 6,788.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 7,008.0                              | 0.00            | 0.00        | 6,796.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| <b>Paguate</b>                       |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,046.0                              | 0.00            | 0.00        | 6,834.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| <b>Lower Cubero</b>                  |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,100.0                              | 0.00            | 0.00        | 6,888.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| 7,106.0                              | 0.00            | 0.00        | 6,894.0             | 0.0        | -1,164.7   | 1,164.7               | 0.00                  | 0.00                 | 0.00                |
| <b>Prod - Zella Calloway #1M PCP</b> |                 |             |                     |            |            |                       |                       |                      |                     |

| Targets                |               |              |          |            |            |              |             |                  |                   |
|------------------------|---------------|--------------|----------|------------|------------|--------------|-------------|------------------|-------------------|
| Target Name            | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (m) | Easting (m) | Latitude         | Longitude         |
| - hit/miss target      |               |              |          |            |            |              |             |                  |                   |
| - Shape                |               |              |          |            |            |              |             |                  |                   |
| Zella Calloway #1M PCF | 0.00          | 0.00         | 6,894.0  | 0.0        | -1,164.7   | 648,335.81   | 139,734.63  | 36° 50' 44.075 N | 107° 58' 31.250 W |
| - plan hits target     |               |              |          |            |            |              |             |                  |                   |
| - Point                |               |              |          |            |            |              |             |                  |                   |
| Zella Calloway #1M ICP | 0.00          | 0.00         | 4,000.0  | 0.0        | -1,164.7   | 648,335.82   | 139,734.64  | 36° 50' 44.075 N | 107° 58' 31.250 W |
| - plan hits target     |               |              |          |            |            |              |             |                  |                   |
| - Point                |               |              |          |            |            |              |             |                  |                   |

| Casing Points       |                     |      |                      |                    |
|---------------------|---------------------|------|----------------------|--------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (in) | Hole Diameter (in) |
| 200.0               | 200.0               | Surf | 9.625                | 12.250             |
| 4,212.0             | 4,000.0             | Int  | 7.000                | 8.750              |
| 7,106.0             | 6,894.0             | Prod | 4.500                | 6.250              |

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## Planning Report

|                  |                                   |                                     |                                               |
|------------------|-----------------------------------|-------------------------------------|-----------------------------------------------|
| <b>Database:</b> | EDM Central Planning              | <b>Local Co-ordinate Reference:</b> | Well Zella Calloway #1M                       |
| <b>Company:</b>  | ConocoPhillips SJB                | <b>TVD Reference:</b>               | Genenc 15' KB @ 5772 0ft (Original Well Elev) |
| <b>Project:</b>  | San Juan Basin - New Mexico Wells | <b>MD Reference:</b>                | Genenc 15' KB @ 5772 0ft (Original Well Elev) |
| <b>Site:</b>     | Other Named Wells                 | <b>North Reference:</b>             | True                                          |
| <b>Well:</b>     | Zella Calloway #1M                | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Wellbore:</b> | Principal Wellbore                |                                     |                                               |
| <b>Design:</b>   | Plan #1                           |                                     |                                               |

| Formations |                           |                           |                    |           |            |                         |
|------------|---------------------------|---------------------------|--------------------|-----------|------------|-------------------------|
|            | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Name               | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|            | 832.1                     | 829.0                     | Ojo                |           | 0.00       |                         |
|            | 958.8                     | 953.0                     | Kirtland           |           | 0.00       |                         |
|            | 1,777.0                   | 1,720.0                   | Fruitland          |           | 0.00       |                         |
|            | 2,403.6                   | 2,296.0                   | Pictured Cliffs    |           | 0.00       |                         |
|            | 2,545.0                   | 2,426.0                   | Lewis              |           | 0.00       |                         |
|            | 3,215.0                   | 3,042.0                   | Huerfano Bentonite |           | 0.00       |                         |
|            | 3,571.0                   | 3,371.0                   | Chacra             |           | 0.00       |                         |
|            | 4,003.6                   | 3,792.0                   | Upper Cliffhouse   |           | 0.00       |                         |
|            | 4,093.9                   | 3,882.0                   | Mass Cliffhouse    |           | 0.00       |                         |
|            | 4,255.0                   | 4,043.0                   | Menefee            |           | 0.00       |                         |
|            | 4,743.0                   | 4,531.0                   | Point Lookout      |           | 0.00       |                         |
|            | 5,143.0                   | 4,931.0                   | Mancos             |           | 0.00       |                         |
|            | 6,059.0                   | 5,847.0                   | Upper Gallup       |           | 0.00       |                         |
|            | 6,810.0                   | 6,598.0                   | Greenhorn          |           | 0.00       |                         |
|            | 6,866.0                   | 6,654.0                   | Graneros           |           | 0.00       |                         |
|            | 6,922.0                   | 6,710.0                   | Two Wells          |           | 0.00       |                         |
|            | 7,008.0                   | 6,796.0                   | Paguate            |           | 0.00       |                         |
|            | 7,046.0                   | 6,834.0                   | Lower Cubero       |           | 0.00       |                         |