

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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MAY 03 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                                                                                                                                                                       |                                                                                                                                                                                        |                                                                                                                                                 |                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 1a. Type of Work<br>DRILL                                                                                                                                                                                                                             | <b>BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS</b> | 5. Lease Number<br>NM-012709<br>Unit Reporting Number                                                                                           | Farmington Field Office<br>Bureau of Land Management |
| 1b. Type of Well<br>GAS                                                                                                                                                                                                                               |                                                                                                                                                                                        | 6. If Indian, All. or Tribe                                                                                                                     |                                                      |
| 2. Operator<br><b>BURLINGTON</b><br>RESOURCES Oil & Gas Company, LP                                                                                                                                                                                   |                                                                                                                                                                                        | 7. Unit Agreement Name<br>San Juan 30-6 Unit                                                                                                    |                                                      |
| 3. Address & Phone No. of Operator<br>PO Box 4289, Farmington, NM 87499<br>(505) 326-9700                                                                                                                                                             |                                                                                                                                                                                        | 8. Farm or Lease Name                                                                                                                           |                                                      |
|                                                                                                                                                                                                                                                       |                                                                                                                                                                                        | 9. Well Number<br>15C                                                                                                                           |                                                      |
| 4. Location of Well<br>Surface: Unit P(SESE), 1209' FSL & 10' FEL<br>BHL: Unit P(SESE), 710' FSL & 710' FEL<br><br>Surface: Latitude: 36.77976° N (NAD83)<br>Longitude: 107.58538° W<br>BHL: Latitude: 36.77839° N (NAD83)<br>Longitude: 107.58777° W |                                                                                                                                                                                        | 10. Field, Pool, Wildcat<br>Blanco MV / Basin DK<br><br>11. Sec., Twn, Rge, Mer. (NMPM)<br>Sec. 29, T30N, R7W<br><br>API # 30-039- <b>31062</b> |                                                      |
| 14. Distance in Miles from Nearest Town<br>20 miles to Blanco, NM                                                                                                                                                                                     |                                                                                                                                                                                        | 12. County<br>Rio Arriba                                                                                                                        | 13. State<br>NM                                      |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>710'                                                                                                                                                                         |                                                                                                                                                                                        |                                                                                                                                                 |                                                      |
| 16. Acres in Lease<br>1420.68 acres                                                                                                                                                                                                                   |                                                                                                                                                                                        | 17. Acres Assigned to Well<br>320.00 acres MV/DK S2                                                                                             |                                                      |
| 18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease<br>1595' from SJ 30-6 Unit 15A (PC)                                                                                                                    |                                                                                                                                                                                        |                                                                                                                                                 |                                                      |
| 19. Proposed Depth<br>7693'                                                                                                                                                                                                                           |  <b>H<sub>2</sub>S POTENTIAL EXIST</b>                                                              | 20. Rotary or Cable Tools<br>Rotary                                                                                                             |                                                      |
| 21. Elevations (DF, FT, GR, Etc.)<br>6288' GL                                                                                                                                                                                                         |                                                                                                                                                                                        | 22. Approx. Date Work will Start                                                                                                                |                                                      |
| 23. Proposed Casing and Cementing Program<br>See Operations Plan attached                                                                                                                                                                             |                                                                                                                                                                                        |                                                                                                                                                 |                                                      |
| 24. Authorized by: <u>Dollie L. Busse</u><br>Dollie L. Busse (Staff Regulatory Tech)                                                                                                                                                                  |                                                                                                                                                                                        | <u>May 2, 2011</u><br>Date                                                                                                                      |                                                      |

Hold C104  
for Directional Survey  
and "As Drilled" plat

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE ATM DATE 6/30/11

Archaeological Report attached A gas recovery unit may or may not be used on this location.

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U S BLM Form 3160-3

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

Example Master Plan Type 3 Bond Numbers NMB-000015 and NMB-000089

Hold C104

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

JUL 4 5 2011

NMCCD

NOTIFY AZTEC OCD 24 HRS.

for Directional Survey  
and "As Drilled" plat

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.9  
and appeal pursuant to 43 CFR 3165.4

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JUL 11 2011  
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# RECEIVED

DISTRICT I  
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico  
Energy, Minerals & Natural Resources Department

MAY 03 2011

Form C-102  
Revised October 12, 2005

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

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Farmington Field Office  
Bureau of Land Management  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |                                                                         |                                                           |
|-----------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------|
| <sup>1</sup> API Number<br>30-039-31062 | <sup>2</sup> Pool Code<br>72319/71599                                   | <sup>3</sup> Pool Name<br>BLANCO MESAVERDE / BASIN DAKOTA |
| <sup>4</sup> Property Code<br>7469      | <sup>5</sup> Property Name<br>SAN JUAN 30-6 UNIT                        | <sup>6</sup> Well Number<br>15C                           |
| <sup>7</sup> GRID No.<br>14538          | <sup>8</sup> Operator Name<br>BURLINGTON RESOURCES OIL & GAS COMPANY LP | <sup>9</sup> Elevation<br>6288'                           |

### <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     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| P             | 29      | 30N      | 7W    |         | 1209'         | SOUTH            | 10'           | EAST           | RIO ARRIBA |

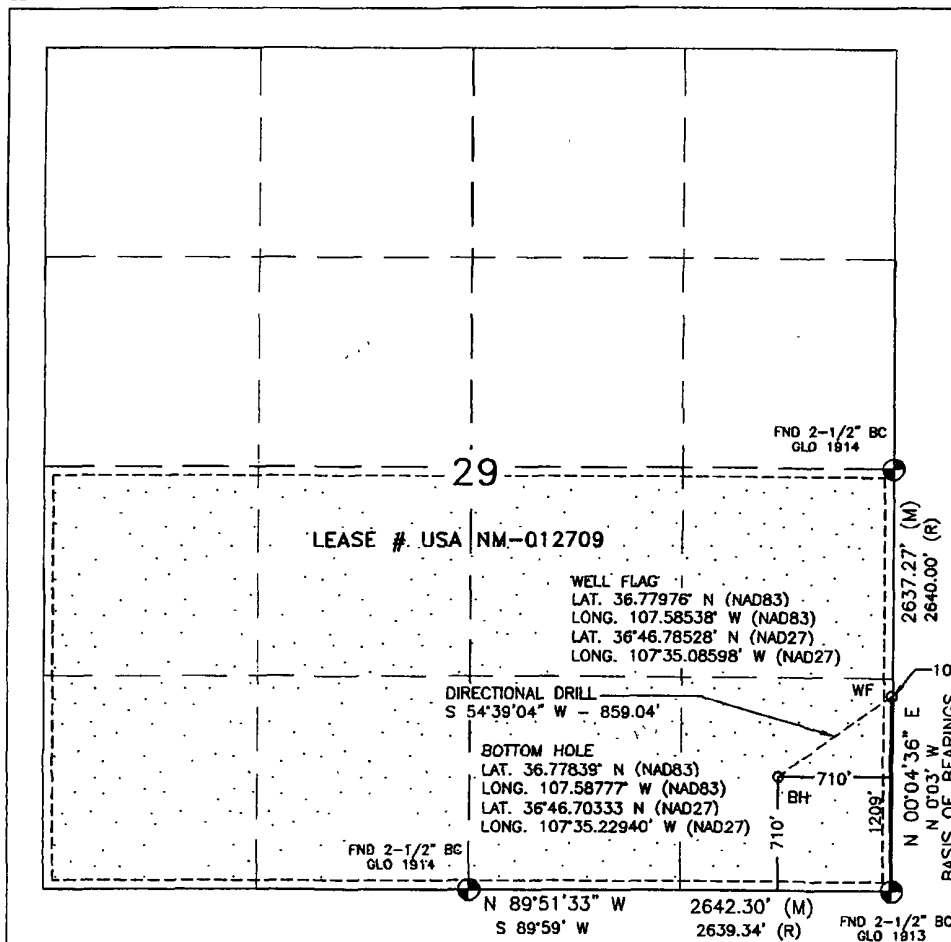
### <sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| P             | 29      | 30N      | 7W    |         | 710'          | SOUTH            | 710'          | EAST           | RIO ARRIBA |

|                                                     |                               |                                  |                         |
|-----------------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>320.00 ACRES - S/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

16



### 17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner or a compulsory pooling order heretofore entered by the division.

Brandie Blakley 8-11-10  
Signature Date

Brandie Blakley 8-11-10

Printed Name

### 18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JJULY 19, 2010

Date of Survey

Signature and Seal of Professional Surveyor:

DAVID R. RUSSELL  
CERTIFIED PROFESSIONAL LAND SURVEYOR  
1974  
Certificate Number 10201

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 15C

DEVELOPMENT

|                                             |                                 |                             |         |                          |                    |                     |                                                                                                         |
|---------------------------------------------|---------------------------------|-----------------------------|---------|--------------------------|--------------------|---------------------|---------------------------------------------------------------------------------------------------------|
| Lease:                                      |                                 | AFE #: WAN.CDR.0047         |         |                          |                    | AFE \$: 902,049.58  |                                                                                                         |
| Field Name: SAN JUAN                        |                                 | Rig: Aztec Rig 673          |         | State: NM                | County: RIO ARRIBA | API #:              |                                                                                                         |
| Geologist:                                  | Phone:                          | Geophysicist:               |         | Phone:                   |                    |                     |                                                                                                         |
| Geoscientist:                               | Phone:                          | Prod. Engineer:             |         | Phone:                   |                    |                     |                                                                                                         |
| Res. Engineer:                              | Phone:                          | Proj. Field Lead:           |         | Phone:                   |                    |                     |                                                                                                         |
| <b>Primary Objective (Zones):</b>           |                                 |                             |         |                          |                    |                     |                                                                                                         |
| Zone                                        | Zone Name                       |                             |         |                          |                    |                     |                                                                                                         |
| FRR                                         | BASIN DAKOTA (PRORATED GAS)     |                             |         |                          |                    |                     |                                                                                                         |
| RON                                         | BLANCO MESAVERDE (PRORATED GAS) |                             |         |                          |                    |                     |                                                                                                         |
|                                             |                                 |                             |         |                          |                    |                     |                                                                                                         |
| <b>Location:</b> Surface                    |                                 | <b>Datum Code:</b> NAD 27   |         |                          |                    | <b>Directional:</b> |                                                                                                         |
| Latitude: 36.779754                         | Longitude: -107.584771          | X:                          | Y:      | Section: 29              | Range: 007W        |                     |                                                                                                         |
| Footage X: 10 FEL                           | Footage Y: 1209 FSL             | Elevation: 6288             | (FT)    | Township: 030N           |                    |                     |                                                                                                         |
| Tolerance:                                  |                                 |                             |         |                          |                    |                     |                                                                                                         |
| <b>Location:</b> Bottom Hole                |                                 | <b>Datum Code:</b> NAD 27   |         |                          |                    | <b>Directional:</b> |                                                                                                         |
| Latitude: 36.778384                         | Longitude: -107.587161          | X:                          | Y:      | Section: 29              | Range: 007W        |                     |                                                                                                         |
| Footage X: 710 FEL                          | Footage Y: 710 FSL              | Elevation:                  | (FT)    | Township: 030N           |                    |                     |                                                                                                         |
| Tolerance:                                  |                                 |                             |         |                          |                    |                     |                                                                                                         |
| Location Type: Year Round                   |                                 | Start Date (Est.): 1/1/2011 |         | Completion Date:         |                    | Date In Operation:  |                                                                                                         |
| Formation Data: Assume KB = 6303 Units = FT |                                 |                             |         |                          |                    |                     |                                                                                                         |
| Formation Call & Casing Points              | Depth (TVD in Ft)               | SS (Ft)                     | MD (Ft) | Depletion (Yes/No)       | BHP (PSIG)         | BHT                 | Remarks                                                                                                 |
| Surface Casing                              | 200                             | 6103                        |         | <input type="checkbox"/> |                    |                     | 12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface. |
| NACIMIENTO                                  | 867                             | 5436                        |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| OJO ALAMO                                   | 2147                            | 4156                        |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| KIRTLAND                                    | 2289                            | 4014                        |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| FRUITLAND                                   | 2706                            | 3597                        |         | <input type="checkbox"/> |                    |                     | Possible Gas                                                                                            |
| PICTURED CLIFFS                             | 3178                            | 3125                        |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| LEWIS                                       | 3242                            | 3061                        |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| Intermediate Casing                         | 3342                            | 2961                        |         | <input type="checkbox"/> | 119                |                     | 8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 785 cuft. Circulate cement to surface.           |
| HUERFANITO BENTONITE                        | 3869                            | 2434                        |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| CHACRA                                      | 4173                            | 2130                        |         | <input type="checkbox"/> |                    |                     | Est. Top Perf - 4175 ( 2128 )                                                                           |
| UPPER CLIFF HOUSE                           | 4700                            | 1603                        |         | <input type="checkbox"/> |                    |                     | Gas; Cliffhouse is dry                                                                                  |
| MASSIVE CLIFF HOUSE                         | 4925                            | 1378                        |         | <input type="checkbox"/> | 343                |                     | Gas                                                                                                     |
| MENEFEE                                     | 5027                            | 1276                        |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| POINT LOOKOUT                               | 5389                            | 914                         |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| MANCOS                                      | 5709                            | 594                         |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| UPPER GALLUP                                | 6621                            | -318                        |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| GREENHORN                                   | 7365                            | -1062                       |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| GRANEROS                                    | 7419                            | -1116                       |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| TWO WELLS                                   | 7489                            | -1186                       |         | <input type="checkbox"/> | 3377               |                     | Gas                                                                                                     |
| PAGUATE                                     | 7548                            | -1245                       |         | <input type="checkbox"/> |                    |                     |                                                                                                         |
| UPPER CUBERO                                | 7577                            | -1274                       |         | <input type="checkbox"/> |                    |                     |                                                                                                         |

## PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 15C

DEVELOPMENT

|              |      |       |                          |                                                                                                                                               |
|--------------|------|-------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| LOWER CUBERO | 7608 | -1305 | <input type="checkbox"/> | Est. Btm Perf - 7673 (- 1370 ) based on offset wells                                                                                          |
| ENCINAL      | 7663 | -1360 | <input type="checkbox"/> | TD - 30' below T/ENCN                                                                                                                         |
| Total Depth  | 7693 | -1390 | <input type="checkbox"/> | 209 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 592 cuft. Circulate cement a minimum of 100' inside the previous casing string. |

| Reference Wells: |                    |                    |
|------------------|--------------------|--------------------|
| Reference Type   | Well Name          | Comments           |
| Production       | Blanco NE Unit 345 | 30N 7W 29 NW SE NE |
| Production       | SJ 30-6 Unit 94M   | 30N 7W 28 NE SW NW |
| Production       | SJ 30-6 Unit 94B   | 30N 7W 28 SE NW SW |
| Production       | SJ 30-6 Unit 47B   | 30N 7W 32 SE NW NE |

**Logging Program:**

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Cased Hole GR / CBL

Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

| Additional Information: |       |           |         |                |         |
|-------------------------|-------|-----------|---------|----------------|---------|
| Log Type                | Stage | From (Ft) | To (Ft) | Tool Type/Name | Remarks |

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## Planning Report

|          |                                   |                             |                          |
|----------|-----------------------------------|-----------------------------|--------------------------|
| Database | EDM Central Planning              | Local Co-ordinate Reference | Well SJ 30-6 #15C        |
| Company  | ConocoPhillips SJB                | TVD Reference               | RKB @ 6303.0ft (AWS Rig) |
| Project  | San Juan Basin - New Mexico Wells | MD Reference                | RKB @ 6303.0ft (AWS Rig) |
| Site     | San Juan 30 Wells                 | North Reference             | True                     |
| Well     | SJ 30-6 #15C                      | Survey Calculation Method   | Minimum Curvature        |
| Wellbore | Original Hole                     |                             |                          |
| Design   | Plan #1                           |                             |                          |

|             |                                                                |               |                             |
|-------------|----------------------------------------------------------------|---------------|-----------------------------|
| Project     | San Juan Basin - New Mexico Wells; New Mexico, Directional "S" |               |                             |
| Map System: | US State Plane 1927 (Exact solution)                           | System Datum: | Mean Sea Level              |
| Geo Datum:  | NAD 1927 (NADCON CONUS)                                        |               |                             |
| Map Zone:   | New Mexico West 3003                                           |               | Using geodetic scale factor |

|                       |                   |                   |                   |
|-----------------------|-------------------|-------------------|-------------------|
| Site                  | San Juan 30 Wells |                   |                   |
| Site Position:        |                   | Northing:         | 2,113,682.53 ft   |
| From:                 | Lat/Long          | Easting:          | 628,365.80 ft     |
| Position Uncertainty: | 15.0 ft           | Slot Radius:      | "                 |
|                       |                   | Latitude:         | 36° 48' 28.968 N  |
|                       |                   | Longitude:        | 107° 23' 41.454 W |
|                       |                   | Grid Convergence: | 0.26 °            |

|                      |                                                  |                     |                  |
|----------------------|--------------------------------------------------|---------------------|------------------|
| Well                 | SJ 30-6 #15C, Directional: S Curve Short stepout |                     |                  |
| Well Position        | +N/-S                                            | 0.0 ft              | Northing:        |
|                      | +E/-W                                            | 0.0 ft              | Easting:         |
| Position Uncertainty | 3.5 ft                                           | Wellhead Elevation: | ft               |
|                      |                                                  | Latitude:           | 36° 46' 47.117 N |
|                      |                                                  | Longitude:          | 107° 35' 5.159 W |
|                      |                                                  | Ground Level:       | 6,288.0 ft       |

|           |               |             |                |
|-----------|---------------|-------------|----------------|
| Wellbore  | Original Hole |             |                |
| Magnetics | Model Name    | Sample Date | Declination    |
|           | BGGM2010      | 9/9/2010    | 9.91           |
|           |               |             | Dip Angle      |
|           |               |             | 63.58          |
|           |               |             | Field Strength |
|           |               |             | 50,859         |

|                   |                  |               |           |
|-------------------|------------------|---------------|-----------|
| Design            | Plan #1          |               |           |
| Audit Notes:      |                  |               |           |
| Version:          | 1                | Phase:        | PROTOTYPE |
|                   |                  | Tie On Depth: | 0.0       |
| Vertical Section: | Depth From (TVD) | +N/-S         | +E/-W     |
|                   | (ft)             | (ft)          | (ft)      |
|                   | 0.0              | 0.0           | 0.0       |
|                   |                  |               | Direction |
|                   |                  |               | (°)       |
|                   |                  |               | 234.61    |

| Plan Sections  |             |         |                |        |        |             |            |           |        |                  |
|----------------|-------------|---------|----------------|--------|--------|-------------|------------|-----------|--------|------------------|
| Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S  | +E/-W  | Dogleg Rate | Build Rate | Turn Rate | TFO    | Target           |
| (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   |                  |
| 320.0          | 0.00        | 0.00    | 320.0          | 0.0    | 0.0    | 0.00        | 0.00       | 0.00      | 0.00   |                  |
| 1,445.7        | 22.51       | 234.61  | 1,417.0        | -126.4 | -178.0 | 2.00        | 2.00       | 0.00      | 234.61 |                  |
| 2,737.9        | 22.51       | 234.61  | 2,610.7        | -413.0 | -581.4 | 0.00        | 0.00       | 0.00      | 0.00   |                  |
| 3,488.4        | 0.00        | 0.00    | 3,342.0        | -497.3 | -700.1 | 3.00        | -3.00      | 0.00      | 180.00 | SJ 30-6 #15C ICP |
| 7,839.4        | 0.00        | 0.00    | 7,693.0        | -497.3 | -700.1 | 0.00        | 0.00       | 0.00      | 0.00   | SJ 30-6 #15C PCP |

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## Planning Report

|           |                                    |                              |                          |
|-----------|------------------------------------|------------------------------|--------------------------|
| Database: | EDM Central Planning:              | Local Co-ordinate Reference: | Well SJ 30-6 #15C:       |
| Company:  | ConocoPhillips SJB:                | TVD Reference:               | RKB @ 6303.0ft (AWS Rig) |
| Project:  | San Juan Basin - New Mexico Wells: | MD Reference:                | RKB @ 6303.0ft (AWS Rig) |
| Site:     | San Juan 30 Wells:                 | North Reference:             | True                     |
| Well:     | SJ 30-6 #15C                       | Survey Calculation Method:   | Minimum Curvature        |
| Wellbore: | Original Hole                      |                              |                          |
| Design:   | 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                |  |
| 230 0                  | 0 00            | 0 00        | 230 0               | 0 0        | 0 0        | 0 0                   | 0 00                  | 0 00                 | 0 00                |  |
| <b>Surface Shoe</b>    |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 300 0                  | 0 00            | 0 00        | 300 0               | 0 0        | 0 0        | 0 0                   | 0 00                  | 0 00                 | 0 00                |  |
| 320 0                  | 0 00            | 0 00        | 320 0               | 0 0        | 0 0        | 0 0                   | 0 00                  | 0 00                 | 0 00                |  |
| 400 0                  | 1 60            | 234 61      | 400 0               | -0 6       | -0 9       | 1 1                   | 2 00                  | 2 00                 | 0 00                |  |
| 500 0                  | 3 60            | 234 61      | 499 9               | -3 3       | -4 6       | 5 7                   | 2 00                  | 2 00                 | 0 00                |  |
| 600 0                  | 5 60            | 234 61      | 599 6               | -7 9       | -11 1      | 13 7                  | 2 00                  | 2 00                 | 0 00                |  |
| 700 0                  | 7 60            | 234 61      | 698 9               | -14 6      | -20 5      | 25 2                  | 2 00                  | 2 00                 | 0 00                |  |
| 800 0                  | 9 60            | 234 61      | 797 8               | -23 2      | -32 7      | 40 1                  | 2 00                  | 2 00                 | 0 00                |  |
| 870 4                  | 11 01           | 234 61      | 867 0               | -30 5      | -43 0      | 52 7                  | 2 00                  | 2 00                 | 0 00                |  |
| <b>Nacimiento</b>      |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 900 0                  | 11 60           | 234 61      | 896 0               | -33 9      | -47 7      | 58 5                  | 2 00                  | 2 00                 | 0 00                |  |
| 1,000 0                | 13 60           | 234 61      | 993 6               | -46 5      | -65 5      | 80 3                  | 2 00                  | 2 00                 | 0 00                |  |
| 1,100 0                | 15 60           | 234 61      | 1,090 4             | -61 1      | -86 0      | 105 5                 | 2 00                  | 2 00                 | 0 00                |  |
| 1,200 0                | 17 60           | 234 61      | 1,186 2             | -77 7      | -109 3     | 134 1                 | 2 00                  | 2 00                 | 0 00                |  |
| 1,300 0                | 19 60           | 234 61      | 1,281 0             | -96 1      | -135 3     | 166 0                 | 2 00                  | 2 00                 | 0 00                |  |
| 1,400 0                | 21 60           | 234 61      | 1,374 6             | -116 5     | -164 0     | 201 2                 | 2 00                  | 2 00                 | 0 00                |  |
| 1,445 7                | 22 51           | 234 61      | 1,417 0             | -126 4     | -178 0     | 218 3                 | 2 00                  | 2 00                 | 0 00                |  |
| 1,500 0                | 22 51           | 234 61      | 1,467 1             | -138 5     | -195 0     | 239 1                 | 0 00                  | 0 00                 | 0 00                |  |
| 1,600 0                | 22 51           | 234 61      | 1,559 5             | -160 6     | -226 2     | 277 4                 | 0 00                  | 0 00                 | 0 00                |  |
| 1,700 0                | 22 51           | 234 61      | 1,651 9             | -182 8     | -257 4     | 315 7                 | 0 00                  | 0 00                 | 0 00                |  |
| 1,800 0                | 22 51           | 234 61      | 1,744 3             | -205 0     | -288 6     | 354 0                 | 0 00                  | 0 00                 | 0 00                |  |
| 1,900 0                | 22 51           | 234 61      | 1,836 6             | -227 2     | -319 8     | 392 3                 | 0 00                  | 0 00                 | 0 00                |  |
| 2,000 0                | 22 51           | 234 61      | 1,929 0             | -249 3     | -351 0     | 430 6                 | 0 00                  | 0 00                 | 0 00                |  |
| 2,100 0                | 22 51           | 234 61      | 2,021 4             | -271 5     | -382 3     | 468 9                 | 0 00                  | 0 00                 | 0 00                |  |
| 2,200 0                | 22 51           | 234 61      | 2,113 8             | -293 7     | -413 5     | 507 2                 | 0 00                  | 0 00                 | 0 00                |  |
| 2,236 0                | 22 51           | 234 61      | 2,147 0             | -301 7     | -424 7     | 520 9                 | 0 00                  | 0 00                 | 0 00                |  |
| <b>Ojo Alamo</b>       |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 2,300 0                | 22 51           | 234 61      | 2,206 1             | -315 9     | -444 7     | 545 5                 | 0 00                  | 0 00                 | 0 00                |  |
| 2,389 7                | 22 51           | 234 61      | 2,289 0             | -335 8     | -472 7     | 579 8                 | 0 00                  | 0 00                 | 0 00                |  |
| <b>Kirtland</b>        |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 2,400 0                | 22 51           | 234 61      | 2,298 5             | -338 0     | -475 9     | 583 7                 | 0 00                  | 0 00                 | 0 00                |  |
| 2,500 0                | 22 51           | 234 61      | 2,390 9             | -360 2     | -507 1     | 622 0                 | 0 00                  | 0 00                 | 0 00                |  |
| 2,600 0                | 22 51           | 234 61      | 2,483 3             | -382 4     | -538 3     | 660 3                 | 0 00                  | 0 00                 | 0 00                |  |
| 2,700 0                | 22 51           | 234 61      | 2,575 7             | -404 6     | -569 6     | 698 6                 | 0 00                  | 0 00                 | 0 00                |  |
| 2,737 9                | 22 51           | 234 61      | 2,610 7             | -413 0     | -581 4     | 713 1                 | 0 00                  | 0 00                 | 0 00                |  |
| 2,800 0                | 20 65           | 234 61      | 2,668 4             | -426 2     | -600 0     | 736 0                 | 3 00                  | -3 00                | 0 00                |  |
| 2,840 0                | 19 45           | 234 61      | 2,706 0             | -434 1     | -611 2     | 749 7                 | 3 00                  | -3 00                | 0 00                |  |
| <b>Fruitland</b>       |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 2,900 0                | 17 65           | 234 61      | 2,762 9             | -445 2     | -626 8     | 768 8                 | 3 00                  | -3 00                | 0 00                |  |
| 3,000 0                | 14 65           | 234 61      | 2,858 9             | -461 3     | -649 4     | 796 6                 | 3 00                  | -3 00                | 0 00                |  |
| 3,100 0                | 11 65           | 234 61      | 2,956 3             | -474 5     | -668 0     | 819 3                 | 3 00                  | -3 00                | 0 00                |  |
| 3,200 0                | 8 65            | 234 61      | 3,054 7             | -484 7     | -682 4     | 837 0                 | 3 00                  | -3 00                | 0 00                |  |
| 3,300 0                | 5 65            | 234 61      | 3,153 9             | -491 9     | -692 5     | 849 4                 | 3 00                  | -3 00                | 0 00                |  |
| 3,324 2                | 4 93            | 234 61      | 3,178 0             | -493 2     | -694 3     | 851 7                 | 3 00                  | -3 00                | 0 00                |  |
| <b>Pictured Cliffs</b> |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 3,388 4                | 3 00            | 234 61      | 3,242 0             | -495 7     | -697 9     | 856 1                 | 3 00                  | -3 00                | 0 00                |  |
| <b>Lewis</b>           |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 3,400 0                | 2 65            | 234 61      | 3,253 6             | -496 1     | -698 4     | 856 7                 | 3 00                  | -3 00                | 0 00                |  |
| 3,488 4                | 0 00            | 0 00        | 3,342 0             | -497 3     | -700 1     | 858 7                 | 3 00                  | -3 00                | 0 00                |  |

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## Planning Report

|           |                                   |                              |                          |
|-----------|-----------------------------------|------------------------------|--------------------------|
| Database: | EDM Central Planning              | Local Co-ordinate Reference: | Well SJ 30-6 #15C        |
| Company:  | ConocoPhillips SJB                | TVD Reference:               | RKB @ 6303'0ft (AWS Rig) |
| Project:  | San Juan Basin - New Mexico Wells | MD Reference:                | RKB @ 6303'0ft (AWS Rig) |
| Site:     | San Juan 30 Wells                 | North Reference:             | True                     |
| Well:     | SJ 30-6 #15C                      | Survey Calculation Method:   | Minimum Curvature        |
| Wellbore: | Original Hole                     |                              |                          |
| Design:   | 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) |
|---------------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| <b>Intermediate Shoe - SJ 30-6 #15C ICP</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,500.0                                     | 0.00            | 0.00        | 3,353.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 3,600.0                                     | 0.00            | 0.00        | 3,453.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 3,700.0                                     | 0.00            | 0.00        | 3,553.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 3,800.0                                     | 0.00            | 0.00        | 3,653.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 3,900.0                                     | 0.00            | 0.00        | 3,753.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 4,000.0                                     | 0.00            | 0.00        | 3,853.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 4,015.4                                     | 0.00            | 0.00        | 3,869.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| <b>Huerfano Bentonite</b>                   |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,100.0                                     | 0.00            | 0.00        | 3,953.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 4,200.0                                     | 0.00            | 0.00        | 4,053.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 4,300.0                                     | 0.00            | 0.00        | 4,153.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 4,319.4                                     | 0.00            | 0.00        | 4,173.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| <b>Chacra</b>                               |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,400.0                                     | 0.00            | 0.00        | 4,253.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 4,500.0                                     | 0.00            | 0.00        | 4,353.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 4,600.0                                     | 0.00            | 0.00        | 4,453.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 4,700.0                                     | 0.00            | 0.00        | 4,553.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 4,800.0                                     | 0.00            | 0.00        | 4,653.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 4,846.4                                     | 0.00            | 0.00        | 4,700.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| <b>Upper Cliffhouse</b>                     |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,900.0                                     | 0.00            | 0.00        | 4,753.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 5,000.0                                     | 0.00            | 0.00        | 4,853.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 5,071.4                                     | 0.00            | 0.00        | 4,925.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| <b>Mass. Cliffhouse</b>                     |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,100.0                                     | 0.00            | 0.00        | 4,953.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 5,173.4                                     | 0.00            | 0.00        | 5,027.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| <b>Menefee</b>                              |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,200.0                                     | 0.00            | 0.00        | 5,053.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 5,300.0                                     | 0.00            | 0.00        | 5,153.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 5,400.0                                     | 0.00            | 0.00        | 5,253.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 5,500.0                                     | 0.00            | 0.00        | 5,353.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 5,535.4                                     | 0.00            | 0.00        | 5,389.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| <b>Point Lookout</b>                        |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,600.0                                     | 0.00            | 0.00        | 5,453.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 5,700.0                                     | 0.00            | 0.00        | 5,553.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 5,800.0                                     | 0.00            | 0.00        | 5,653.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 5,855.4                                     | 0.00            | 0.00        | 5,709.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| <b>Mancos</b>                               |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,900.0                                     | 0.00            | 0.00        | 5,753.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 6,000.0                                     | 0.00            | 0.00        | 5,853.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 6,100.0                                     | 0.00            | 0.00        | 5,953.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 6,200.0                                     | 0.00            | 0.00        | 6,053.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 6,300.0                                     | 0.00            | 0.00        | 6,153.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 6,400.0                                     | 0.00            | 0.00        | 6,253.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 6,500.0                                     | 0.00            | 0.00        | 6,353.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 6,600.0                                     | 0.00            | 0.00        | 6,453.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 6,700.0                                     | 0.00            | 0.00        | 6,553.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 6,767.4                                     | 0.00            | 0.00        | 6,621.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| <b>Upper Gallup</b>                         |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,800.0                                     | 0.00            | 0.00        | 6,653.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 6,900.0                                     | 0.00            | 0.00        | 6,753.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 7,000.0                                     | 0.00            | 0.00        | 6,853.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |

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## Planning Report

|                  |                                   |                              |                          |
|------------------|-----------------------------------|------------------------------|--------------------------|
| Database:        | EDM Central-Planning:             | Local Co-ordinate Reference: | Well SJ 30-6 #15C        |
| Company:         | ConocoPhillips SJB                | TVD Reference:               | RKB @ 6303.0ft (AWS Rig) |
| Project:         | San Juan Basin - New Mexico Wells | MD Reference:                | RKB @ 6303.0ft (AWS Rig) |
| Site:            | San Juan 30 Wells                 | North Reference:             | True                     |
| Well:            | SJ 30-6 #15C                      | Survey Calculation Method:   | Minimum Curvature        |
| Wellbore Design: | Original Hole 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) |
| 7,100.0                           | 0.00            | 0.00        | 6,953.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 7,200.0                           | 0.00            | 0.00        | 7,053.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 7,300.0                           | 0.00            | 0.00        | 7,153.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 7,400.0                           | 0.00            | 0.00        | 7,253.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 7,500.0                           | 0.00            | 0.00        | 7,353.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 7,511.4                           | 0.00            | 0.00        | 7,365.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| Greenhorn                         |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,565.4                           | 0.00            | 0.00        | 7,419.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| Graneros                          |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,600.0                           | 0.00            | 0.00        | 7,453.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 7,635.4                           | 0.00            | 0.00        | 7,489.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| Two Wells                         |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,694.4                           | 0.00            | 0.00        | 7,548.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| Paguate                           |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,700.0                           | 0.00            | 0.00        | 7,553.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 7,723.4                           | 0.00            | 0.00        | 7,577.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| Upper Cubero                      |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,754.4                           | 0.00            | 0.00        | 7,608.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| Lower Cubero                      |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,800.0                           | 0.00            | 0.00        | 7,653.6             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| 7,809.4                           | 0.00            | 0.00        | 7,663.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| Encinal                           |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,839.4                           | 0.00            | 0.00        | 7,693.0             | -497.3     | -700.1     | 858.7                 | 0.00                  | 0.00                 | 0.00                |
| Production Shoe: SJ 30-6 #15C PCP |                 |             |                     |            |            |                       |                       |                      |                     |

| Targets                   |                 |               |              |          |            |            |               |              |                                    |
|---------------------------|-----------------|---------------|--------------|----------|------------|------------|---------------|--------------|------------------------------------|
| Target Name               | hit/miss target | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) |                                    |
| Shape                     |                 |               |              |          |            |            |               |              | Latitude Longitude                 |
| SJ 30-6 #15C PCP          |                 | 0.00          | 0.00         | 7,693.0  | -497.3     | -700.1     | 2,102,684.08  | 572,095.46   | 36° 46' 42.200 N 107° 35' 13.764 W |
| - plan hits target center |                 |               |              |          |            |            |               |              |                                    |
| - Circle (radius 50.0)    |                 |               |              |          |            |            |               |              |                                    |
| SJ 30-6 #15C ICP          |                 | 0.00          | 0.00         | 3,342.0  | -497.3     | -700.1     | 2,102,684.13  | 572,095.48   | 36° 46' 42.200 N 107° 35' 13.764 W |
| - plan hits target center |                 |               |              |          |            |            |               |              |                                    |
| - Circle (radius 50.0)    |                 |               |              |          |            |            |               |              |                                    |

| Casing Points       |                     |                   |                     |                   |  |
|---------------------|---------------------|-------------------|---------------------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name              | Casing Diameter (") | Hole Diameter (") |  |
| 230.0               | 230.0               | Surface Shoe      | 9-5/8               | 12-1/4            |  |
| 3,488.4             | 3,342.0             | Intermediate Shoe | 7                   | 8-3/4             |  |
| 7,839.4             | 7,693.0             | Production Shoe   | 4-1/2               | 6-1/4             |  |

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## Planning Report

|           |                                   |                              |                          |
|-----------|-----------------------------------|------------------------------|--------------------------|
| Database: | EDM Central Planning              | Local Co-ordinate Reference: | Well SJ 30-6 #15C        |
| Company:  | ConocoPhillips SJBU               | TVD Reference:               | RKB @ 6303 0ft (AWS Rig) |
| Project:  | San Juan Basin - New Mexico Wells | MD Reference:                | RKB @ 6303 0ft (AWS Rig) |
| Site:     | San Juan, 30 Wells                | North Reference:             | True                     |
| Well:     | SJ 30-6 #15C                      | Survey Calculation Method:   | Minimum Curvature        |
| Wellbore: | Original Hole                     |                              |                          |
| Design:   | Plan #1                           |                              |                          |

| Formations          |                     |                    |           |         |               |  |
|---------------------|---------------------|--------------------|-----------|---------|---------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name               | Lithology | Dip (°) | Dip Direction |  |
| 2,840.0             | 2,706.0             | Fruitland          |           | 0.00    |               |  |
| 5,535.4             | 5,389.0             | Point Lookout      |           | 0.00    |               |  |
| 7,565.4             | 7,419.0             | Graneros           |           | 0.00    |               |  |
| 4,015.4             | 3,869.0             | Huerfano Bentonite |           | 0.00    |               |  |
| 2,389.7             | 2,289.0             | Kirtland           |           | 0.00    |               |  |
| 6,767.4             | 6,621.0             | Upper Gallup       |           | 0.00    |               |  |
| 7,809.4             | 7,663.0             | Encinal            |           | 0.00    |               |  |
| 7,754.4             | 7,608.0             | Lower Cubero       |           | 0.00    |               |  |
| 7,723.4             | 7,577.0             | Upper Cubero       |           | 0.00    |               |  |
| 7,694.4             | 7,548.0             | Paguate            |           | 0.00    |               |  |
| 870.4               | 867.0               | Nacimiento         |           | 0.00    |               |  |
| 7,635.4             | 7,489.0             | Two Wells          |           | 0.00    |               |  |
| 5,855.4             | 5,709.0             | Mancos             |           | 0.00    |               |  |
| 3,324.2             | 3,178.0             | Pictured Cliffs    |           | 0.00    |               |  |
| 5,173.4             | 5,027.0             | Menefee            |           | 0.00    |               |  |
| 7,511.4             | 7,365.0             | Greenhorn          |           | 0.00    |               |  |
| 2,236.0             | 2,147.0             | Ojo Alamo          |           | 0.00    |               |  |
| 4,319.4             | 4,173.0             | Chacra             |           | 0.00    |               |  |
| 5,071.4             | 4,925.0             | Mass. Cliffhouse   |           | 0.00    |               |  |
| 4,846.4             | 4,700.0             | Upper Cliffhouse   |           | 0.00    |               |  |
| 3,388.4             | 3,242.0             | Lewis              |           | 0.00    |               |  |

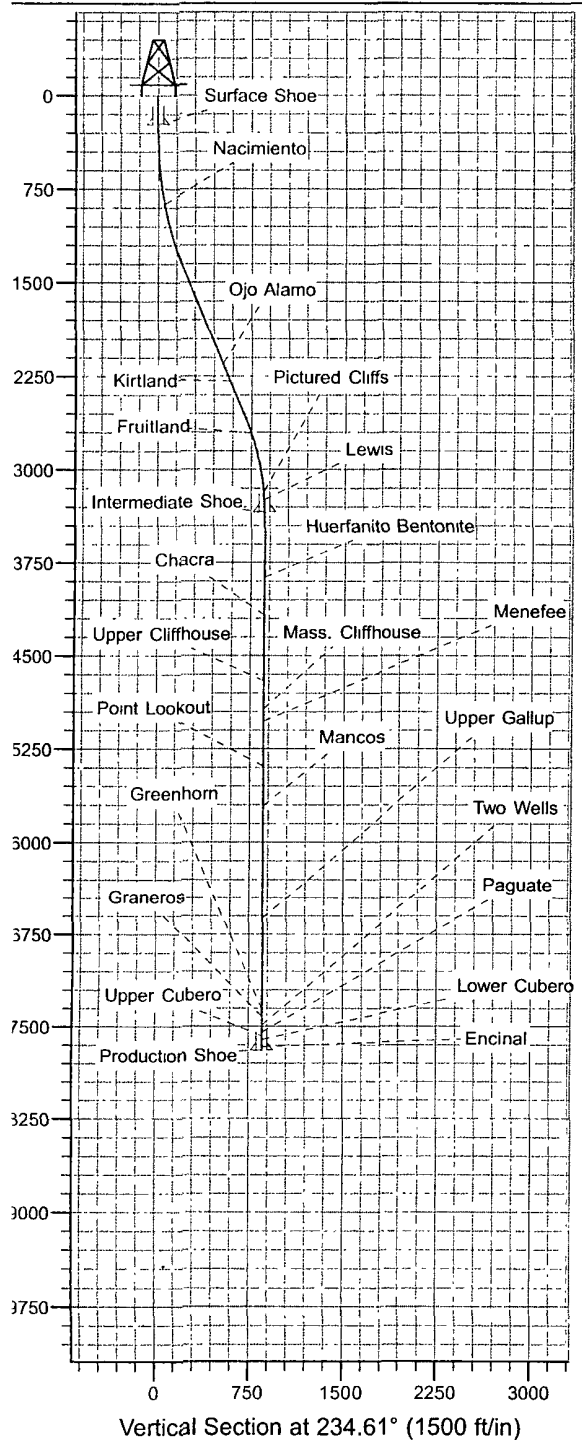
RKB @ 6303.0ft (AWS Rig)  
 round Elevation 6288.0  
 Reference Lat: 36° 46' 47.117 N  
 Reference Long: 107° 35' 5.159 W

Site: San Juan 30 Wells  
 Well: SJ 30-6 #15C  
 Wellbore: Original Hole  
 Design: Plan #1

ConocoPhillips

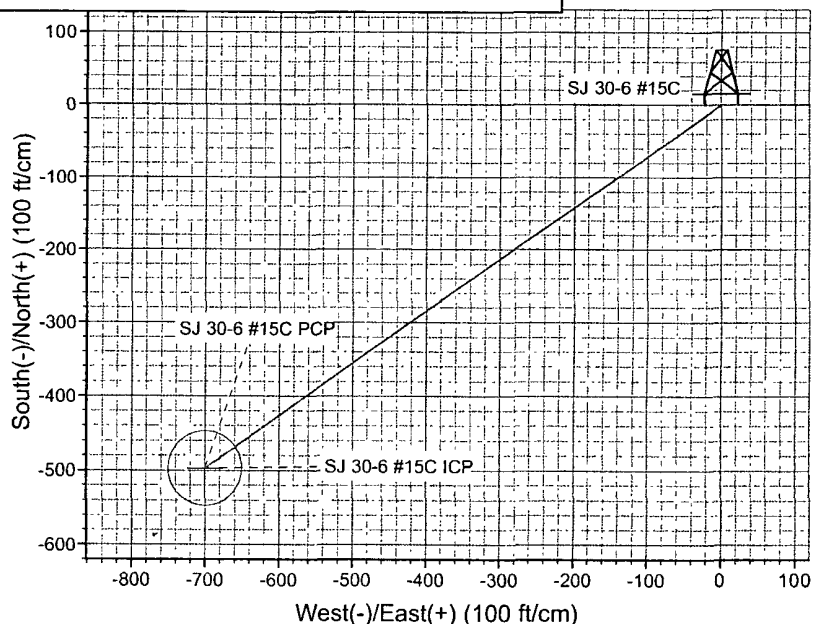
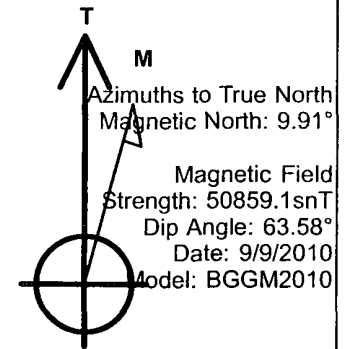
# SECTION DETAILS

| Sec | MD     | Inc   | Azi    | TVD    | +N-S   | +E-W   | DLeg | TFace  | VSec  | Target           |
|-----|--------|-------|--------|--------|--------|--------|------|--------|-------|------------------|
| 1   | 0.0    | 0.00  | 0.00   | 0.0    | 0.0    | 0.0    | 0.00 | 0.00   | 0.0   |                  |
| 2   | 320.0  | 0.00  | 0.00   | 320.0  | 0.0    | 0.0    | 0.00 | 0.00   | 0.0   |                  |
| 3   | 1445.7 | 22.51 | 234.61 | 1417.0 | -126.4 | -178.0 | 2.00 | 234.61 | 218.3 |                  |
| 4   | 2737.9 | 22.51 | 234.61 | 2610.7 | -413.0 | -581.4 | 0.00 | 0.00   | 713.1 |                  |
| 5   | 3488.4 | 0.00  | 0.00   | 3342.0 | -497.3 | -700.1 | 3.00 | 180.00 | 858.7 | SJ 30-6 #15C ICP |
| 6   | 7839.4 | 0.00  | 0.00   | 7693.0 | -497.3 | -700.1 | 0.00 | 0.00   | 858.7 | SJ 30-6 #15C PCP |



## FORMATION TOP DETAILS

| TVDPath | MDPath | Formation          |
|---------|--------|--------------------|
| 867.0   | 870.4  | Nacimiento         |
| 2147.0  | 2236.0 | Ojo Alamo          |
| 2289.0  | 2389.7 | Kirtland           |
| 2706.0  | 2840.0 | Fruitland          |
| 3178.0  | 3324.2 | Pictured Cliffs    |
| 3242.0  | 3388.4 | Lewis              |
| 3869.0  | 4015.4 | Huerfano Bentonite |
| 4173.0  | 4319.4 | Chacra             |
| 4700.0  | 4846.4 | Upper Cliffhouse   |
| 4925.0  | 5071.4 | Mass. Cliffhouse   |
| 5027.0  | 5173.4 | Menefee            |
| 5389.0  | 5535.4 | Point Lookout      |
| 5709.0  | 5855.4 | Mancos             |
| 6621.0  | 6767.4 | Upper Gallup       |
| 7365.0  | 7511.4 | Greenhorn          |
| 7419.0  | 7565.4 | Graneros           |
| 7489.0  | 7635.4 | Two Wells          |
| 7548.0  | 7694.4 | Paguate            |
| 7577.0  | 7723.4 | Upper Cubero       |
| 7608.0  | 7754.4 | Lower Cubero       |
| 7663.0  | 7809.4 | Encinal            |



**WELL FLAG**

LATITUDE: 36.77976° N  
 LONGITUDE: 107.58538° W

**CENTER OF PIT**

LATITUDE: 36.77993° N  
 LONGITUDE: 107.58525° W

ELEVATION: 6275.7'

DATUM: NAD83 & NAVD88

**BURLINGTON RESOURCES OIL & GAS COMPANY LP**

SAN JUAN 30-6 UNIT #15C

1209' FSL & 10' FEL

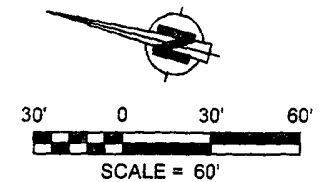
LOCATED IN THE SE/4 SE/4 OF SECTION 29,

T30N, R7W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND ELEVATION: 6288', NAVD 88

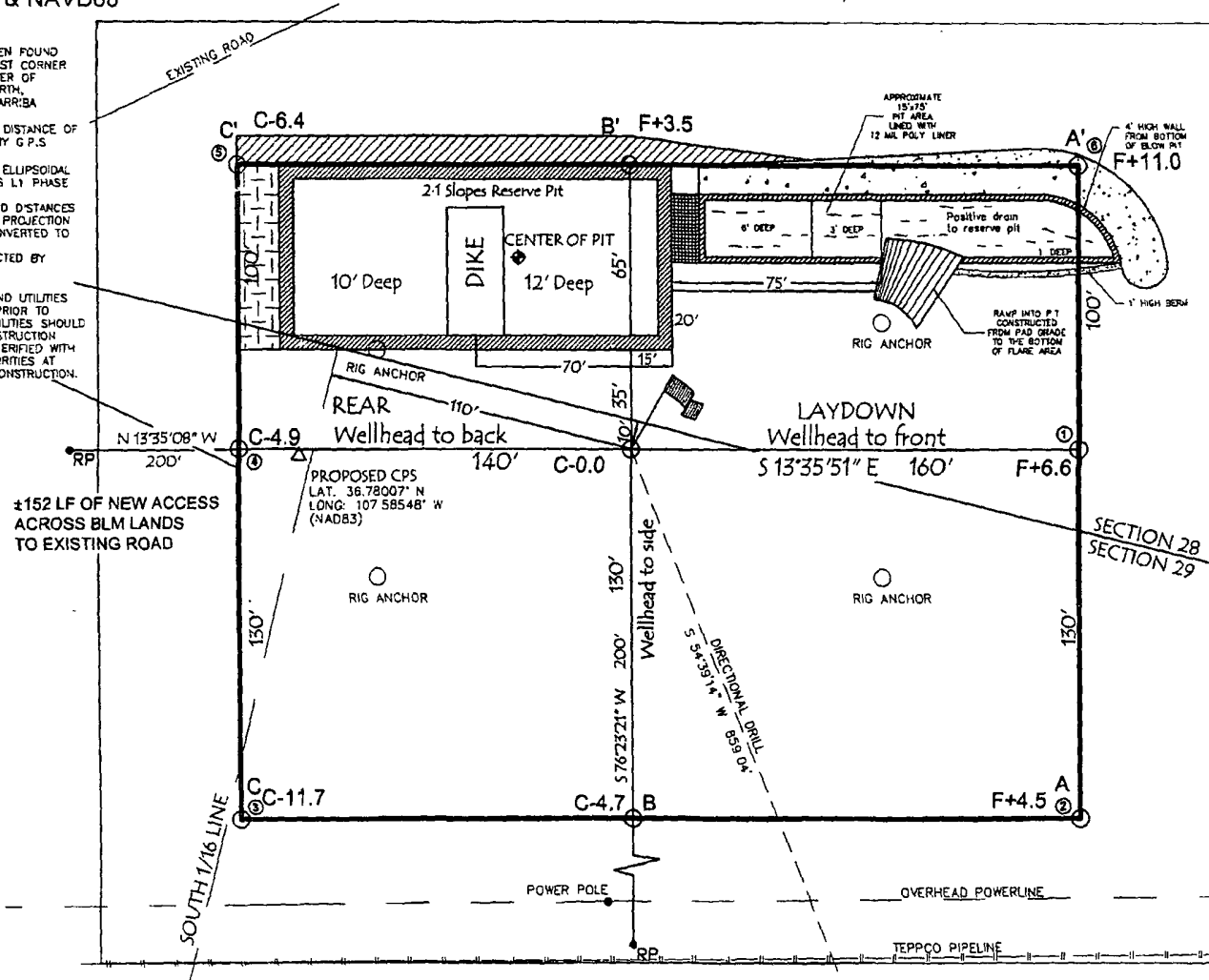
FINISHED PAD ELEVATION: 6287.7', NAVD 88

**NOTES:**

1.) BASIS OF BEARING: BETWEEN FOUND MONUMENTS AT THE SOUTHEAST CORNER AND THE EAST QUARTER CORNER OF SECTION 29, TOWNSHIP 30 NORTH, RANGE 7 WEST, N.M.P.M. RIO ARriba COUNTY, NEW MEXICO.  
 LINE BEARS: N 00°04'36" E A DISTANCE OF 2637.27 FEET AS MEASURED BY G.P.S.

2.) LATITUDE, LONGITUDE AND ELLIPSOIDAL HEIGHT BASED ON AZTEC CORS L1 PHASE CENTER.  
 DISTANCES SHOWN ARE GROUND DISTANCES USING A TRAVERSE MERCATOR PROJECTION FROM A WGS84 ELLIPSOID, CONVERTED TO NAD83.  
 NAVD88 ELEVATIONS AS PREDICTED BY GEOID03.

3.) LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.



**TOTAL PERMITTED AREA**

330' x 400' = 3.03 ACRES

SCALE: 1" = 60'

JOB No.: COPC380\_REV2

DATE: 07/22/10

DRAWN BY: GRR

**NOTE:**

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).  
 RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.  
 CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.

**Russell Surveying**  
 1409 W. Aztec Blvd. #2  
 Aztec, New Mexico 87410  
 (505) 334-8637



**BURLINGTON RESOURCES OIL & GAS COMPANY LP**

SAN JUAN 30-6 UNIT #15C

1209' FSL & 10' FEL

LOCATED IN THE NE/4 SE/4 OF SECTION 29,  
T30N, R7W, N.M.P.M.,  
RIO ARriba COUNTY, NEW MEXICO

**DIRECTIONS**

- 1) FROM POST OFFICE IN BLANCO, TRAVEL EAST ON HWY 64 FOR 15 MILES TO HWY 539 (NAVAJO CITY).
- 2) TURN LEFT ONTO HWY 539 AND TRAVEL 2.4 MILES.
- 3) TURN RIGHT ONTO A DIRT ROAD AND TRAVEL 2.2 MILES.
- 4) TURN RIGHT AND TRAVEL 0.6 MILES TO THE FLAGGED ACCESS ON THE RIGHT.

WELL FLAG LOCATED AT LAT. 36.77976° N, LONG. 107.58538° W (NAD 83).

JOB No.: COPC380\_REV2  
DATE: 07/22/10



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