

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RCVD FEB23'07  
OIL CONS. DIV.  
DIST. 3

Sundry Notices and Reports on Wells

2006 MAY 16 AM 7 33

1. Type of Well  
GAS

RECEIVED  
070 FARMINGTON NM

2. Name of Operator  
**BURLINGTON**  
RESOURCES OIL & GAS COMPANY LP

3. Address & Phone No. of Operator

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

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

Surface - Unit O, 765' FSL & 2335' FEL, Sec. 12, T28N, R5W

BH - Unit P, 1175' FSL & 1010' FEL, Section 12, T28N, R5W

5. Lease Number  
NMSF-079519-A
6. If Indian, All. or  
Tribe Name
7. Unit Agreement Name
8. San Juan 28-5 Unit  
Well Name & Number
9. SJ 28-5 Unit #31M  
API Well No.  
30-039-29853
10. Field and Pool  
Basin DK / Blanco MV
11. County and State  
Rio Arriba Co., NM

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

| Type of Submission                                   | Type of Action                                                                                                            |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Abandonment <input checked="" type="checkbox"/> Change of Plans <input type="checkbox"/> Other - |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Recompletion <input type="checkbox"/> New Construction                                           |
| <input type="checkbox"/> Final Abandonment           | <input type="checkbox"/> Plugging <input type="checkbox"/> Non-Routine Fracturing                                         |
|                                                      | <input type="checkbox"/> Casing Repair <input type="checkbox"/> Water Shut off                                            |
|                                                      | <input type="checkbox"/> Altering Casing <input type="checkbox"/> Conversion to Injection                                 |

13. Describe Proposed or Completed Operations

Burlington is proposing changes to the Operations Plan on the subject well. The kickoff point will be higher than previously proposed. See attached procedure.

HOLD C104 FOR directional survey  
+ BH survey

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

Signed Patsy Clugston Patsy Clugston Title Sr. Regulatory Specialist Date 5/15/06

(This space for Federal or State Office use)

APPROVED BY [Signature] Title AFM Date 2/21/07

CONDITION OF APPROVAL, if any:

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

NMOC

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## SAN JUAN 28-5 UNIT 31M OPERATIONS PLAN

**Well Name:** SAN JUAN 28-5 UNIT 31M

**Objective:** Blanco Mesa Verde/Basin Dakota

**Location:** Rio Arriba NM

**Elevation:** 7305'

**Surface Coordinates/Footages**

T - 28 N R - 5 W Sec.: 12  
765' FSL 2335' FEL  
Latitude: 36° 40.2330' N  
Longitude: 107° 18.4650' W

**Bottom Hole Coordinates/Footages**

T - 28 N R - 5 W Sec.: 12  
1175' FSL 1010' FEL  
Latitude: 36° 40.3002' N  
Longitude: 107° 18.1944' W

| <b><u>Formation</u></b> | <b><u>Top (TMD)</u></b> | <b><u>Top (TVD)</u></b> | <b><u>Contents</u></b> |
|-------------------------|-------------------------|-------------------------|------------------------|
| Surface                 | San Jose                | San Jose                |                        |
| Ojo Alamo               | 3780'                   | 3584'                   | aquifer                |
| Kirtland                | 3986'                   | 3776'                   | gas                    |
| Fruitland               | 4258'                   | 4030'                   | gas                    |
| Pictured Cliffs         | 4472'                   | 4234'                   | gas                    |
| Lewis                   | 4735'                   | 4493'                   | gas                    |
| Huerfanito Bentonite    | 5194'                   | 4952'                   | gas                    |
| Chacra                  | 5521'                   | 5279'                   | gas                    |
| Upper Cliff House       | 6122'                   | 5880'                   | gas                    |
| Massive Cliff House     | 6356'                   | 6114'                   | gas                    |
| Menefee                 | 6389'                   | 6147'                   | gas                    |
| Massive Point Lookout   | 6686'                   | 6444'                   | gas                    |
| Mancos Shale            | 7187'                   | 6945'                   | gas                    |
| Upper Gallup            | 7917'                   | 7675'                   | gas                    |
| Greenhorn               | 8673'                   | 8431'                   | gas                    |
| Graneros                | 8739'                   | 8497'                   | gas                    |
| Two Wells               | 8806'                   | 8564'                   | gas                    |
| Upper Cubero            | 8859'                   | 8617'                   | gas                    |
| Lower Cubero            | 8912'                   | 8670'                   | gas                    |
| Oak Canyon              | 8982'                   | 8740'                   | gas                    |
| <b>Total Depth:</b>     | <b>8997'</b>            | <b>8755'</b>            | gas                    |

**Logging Program:** Cased Hole: CBL-GR  
Open Hole: None

| <b><u>Mud Program:</u></b> | <b><u>Interval (TMD)</u></b> | <b><u>Type</u></b>    | <b><u>Weight (ppg)</u></b> | <b><u>Vis. (s/qt)</u></b> | <b><u>Fluid Loss (cc/30min)</u></b> |
|----------------------------|------------------------------|-----------------------|----------------------------|---------------------------|-------------------------------------|
|                            | 0' - 320'                    | Spud                  | 8.4-9.0                    | 40-50                     | No control                          |
|                            | 320' - 4935'                 | Non-dispersed         | 8.4-9.0                    | 30-60                     | Less than 8                         |
|                            | 4935' - 8997'                | Air/Air Mist/Nitrogen | n/a                        | n/a                       | n/a                                 |

| <b><u>Casing program:</u></b> | <b><u>Interval (TMD)</u></b> | <b><u>Hole Size</u></b> | <b><u>Casing Size</u></b> | <b><u>Weight</u></b> | <b><u>Grade</u></b> |
|-------------------------------|------------------------------|-------------------------|---------------------------|----------------------|---------------------|
|                               | 0' - 320'                    | 12 1/4"                 | 9 5/8"                    | 32.3#                | H-40                |
|                               | 320' - 4935'                 | 8 3/4"                  | 7"                        | 23.0#                | L-80                |
|                               | 4935' - 8997'                | 6 1/4"                  | 4 1/2"                    | 11.6#                | L-80                |

| <b><u>Tubing program:</u></b> | <b><u>Interval (TMD)</u></b> | <b><u>Hole Size</u></b> | <b><u>Casing Size</u></b> | <b><u>Weight</u></b> | <b><u>Grade</u></b> |
|-------------------------------|------------------------------|-------------------------|---------------------------|----------------------|---------------------|
|                               | 0' - 8997'                   | Cased                   | 2 3/8"                    | 4.7#                 | J-55                |

**Wellhead Equipment**

9 5/8" x 7" X 4 1/2" x 2 3/8" – 11" (2000 psi) wellhead assembly

**Drilling:** Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

## **Surface**

Drill to surface casing point of 320' and set 9.625" casing.

## **Intermediate**

Mud drill to kick off point of 400'. At this point the well will be directionally drilled by building 3 degrees per 100' with an azimuth of 72.55 degrees. The end of the build will be at a TVD of 1087', a TMD of 1105', a reach of 129', and an inclination of 21.14 degrees. This angle and azimuth will be held to a TVD of 4004', a TMD of 4231', and a reach of 1256'. At this point the well will be drilled with a drop of 3 degrees per 100'. The end of the drop will be at a TVD of 4693', a TMD of 4935', a reach of 1384', and an angle of 0.0 degrees. 7" casing will be set at this point.

## **Production**

From the shoe of the intermediate string, the well will be drilled vertically with an air hammer to a TVD of 8755' (TMD of 8997'). 4.5" casing will be set at this point.

## **Cementing**

9.625" surface casing conventionally drilled: **200%** excess cement to bring cement to surface.

Run 301 cu.ft. (235 sks) Type III cement with 3% CaCl<sub>2</sub> and 1/4 pps celloflake (1.28 sks/ cu.ft.). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60° F prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

7" intermediate casing: **50%** excess cement to bring cement to surface.

Lead with 989 cu.ft. (464 sks) Premium Lite w/ 3% CaCl<sub>2</sub>, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52 and 0.4% SMS (2.13 sks/ft<sup>3</sup>). Tail with 124 ft<sup>3</sup> (90 sks) Type III cmt. w/ 1% CaCl<sub>2</sub>, 0.25 pps Cello-Flake and 0.2% FL-52 (1.38 sks/ft<sup>3</sup>). If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC.

4.5" production casing: **30%** excess cement to achieve 100' overlap with intermediate casing.

Run 553 cu.ft. (279 sks) Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52 (1.98 sks/ft<sup>3</sup>.)

## **BOP and Tests**

Surface to Total Depth – 11", 2000 psi double gate BOP stack (Reference Figure #1).

Surface to Total Depth – choke manifold (Reference Figure #2).

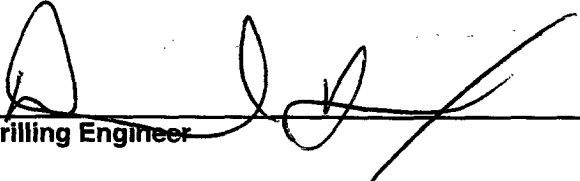
Prior to drilling out surface casing, test BOPE and casing to 600 psi for 30 minutes.

Pipe rams will be actuated at least once each day and blind rams will be actuated once each trip to test proper functioning. A Kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

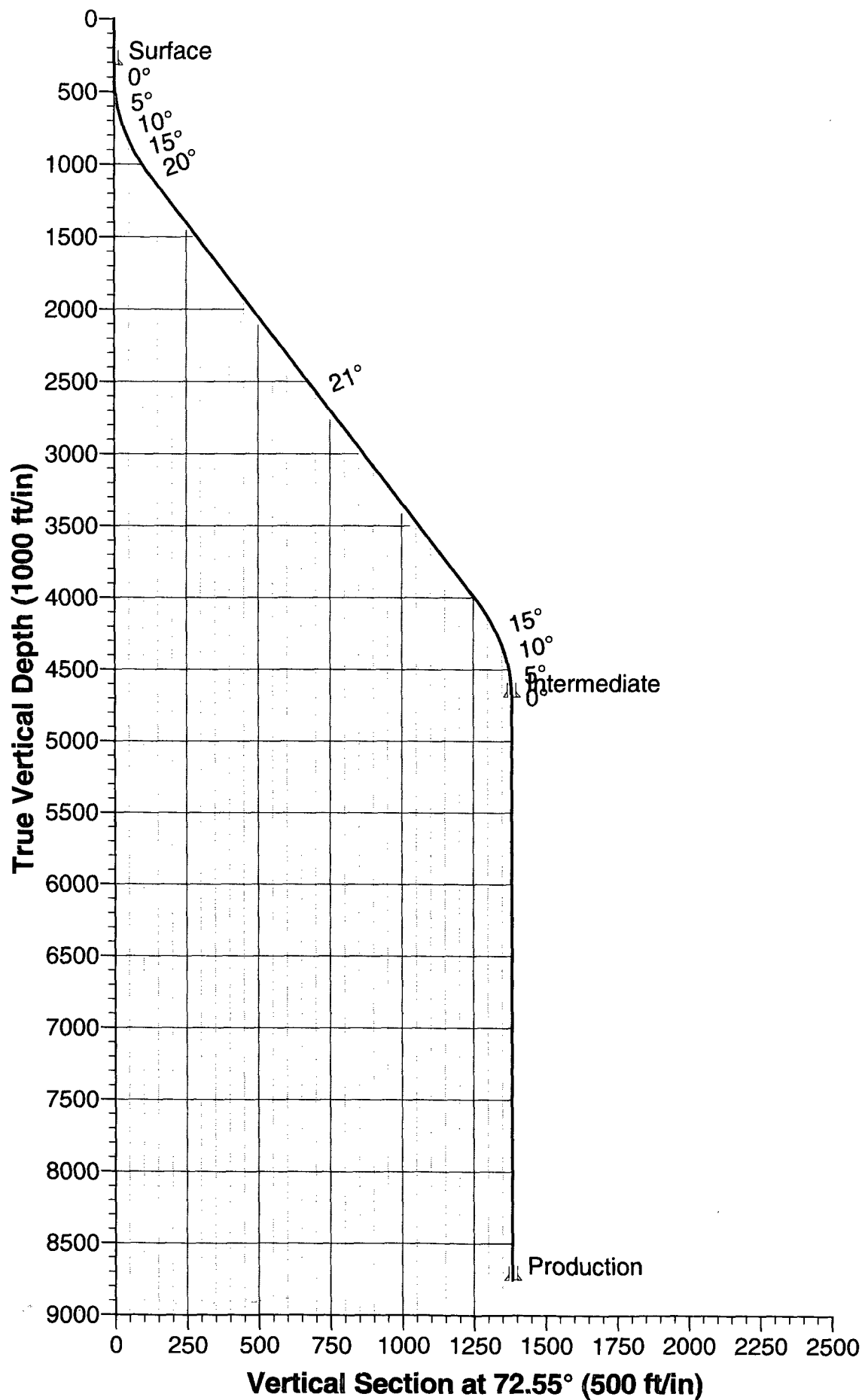
BOPE tests will be performed using an appropriately sized test plug and test pump and will be recorded using calibrated test gauges and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise noted in the APD. A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where the intermediate casing strings are used, only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than 10 percent pressure drop during the duration of the test.

## **Additional Information:**

- The gas is dedicated.
- New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- No abnormal pressure zones are expected.
- BHP is expected to be 2000 psi.

  
Drilling Engineer

5/11/06  
Date



**28-5 31M S-Curve**

# **BurlingtonResources**

**SAN JUAN , NM**

**M-Pad**

**28-5 31M**

**28-5 31M**

**Plan: 28-5 31M S-Curve**

## **Standard Planning Report**

**12 May, 2006**

# Burlington Resources Oil & Gas Company LI

## Planning Report

|                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Database:</b> EDM 2003.11 Single User Db<br><b>Company:</b> BurlingtonResources<br><b>Project:</b> SAN JUAN , NM<br><b>Site:</b> M-Pad<br><b>Well:</b> 28-5 31M<br><b>Wellbore:</b> 28-5 31M<br><b>Design:</b> 28-5 31M S-Curve | <b>Local Co-ordinate Reference:</b> Well 28-5 31M<br><b>TVD Reference:</b> WELL @ 7319.0ft (Original Well Elev)<br><b>MD Reference:</b> WELL @ 7319.0ft (Original Well Elev)<br><b>North Reference:</b> Grid<br><b>Survey Calculation Method:</b> Minimum Curvature |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                                                         |                                     |  |
|---------------------------------------------------------|-------------------------------------|--|
| <b>Project:</b> SAN JUAN , NM; United States of America |                                     |  |
| <b>Map System:</b> US State Plane 1927 (Exact solution) | <b>System Datum:</b> Mean Sea Level |  |
| <b>Geo Datum:</b> NAD 1927 (NADCON CONUS)               |                                     |  |
| <b>Map Zone:</b> New Mexico West 3003                   |                                     |  |

|                                     |                                  |                                      |  |
|-------------------------------------|----------------------------------|--------------------------------------|--|
| <b>Site:</b> M-Pad                  |                                  |                                      |  |
| <b>Site Position:</b>               | <b>Northing:</b> 2,063,773.55 ft | <b>Latitude:</b> 36° 40' 14.160" N   |  |
| <b>From:</b> Map                    | <b>Easting:</b> 654,091.53 ft    | <b>Longitude:</b> 107° 18' 28.476" W |  |
| <b>Position Uncertainty:</b> 0.0 ft | <b>Slot Radius:</b> 9-5/8"       | <b>Grid Convergence:</b> 0.31 °      |  |

|                                    |                                       |                                      |  |
|------------------------------------|---------------------------------------|--------------------------------------|--|
| <b>Well:</b> 28-5 31M              |                                       |                                      |  |
| <b>Well Position</b>               | <b>Northing:</b> 2,063,755.60 ft      | <b>Latitude:</b> 36° 40' 13.980" N   |  |
| <b>+N/-S</b> 0.0 ft                | <b>Easting:</b> 654,138.55 ft         | <b>Longitude:</b> 107° 18' 27.900" W |  |
| <b>+E/-W</b> 0.0 ft                |                                       |                                      |  |
| <b>Position Uncertainty</b> 0.0 ft | <b>Wellhead Elevation:</b> 7,319.0 ft | <b>Ground Level:</b> 7,305.0 ft      |  |

| <b>Wellbore:</b> 28-5 31M |            |             |                    |                  |                        |
|---------------------------|------------|-------------|--------------------|------------------|------------------------|
| Magnetics                 | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|                           | IGRF200510 | 4/12/2006   | 10.31              | 63.61            | 51,279                 |

|                                 |                                  |                          |                       |                          |
|---------------------------------|----------------------------------|--------------------------|-----------------------|--------------------------|
| <b>Design:</b> 28-5 31M S-Curve |                                  |                          |                       |                          |
| <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)<br/>(ft)</b> | <b>+N/-S<br/>(ft)</b>    | <b>+E/-W<br/>(ft)</b> | <b>Direction<br/>(°)</b> |
|                                 | 0.0                              | 0.0                      | 0.0                   | 72.55                    |

| <b>Plan Sections</b>      |                    |                |                           |               |               |                             |                            |                           |            |        |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|--------|
| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) | TFO<br>(°) | Target |
| 0.0                       | 0.00               | 0.00           | 0.0                       | 0.0           | 0.0           | 0.00                        | 0.00                       | 0.00                      | 0.00       |        |
| 400.0                     | 0.00               | 0.00           | 400.0                     | 0.0           | 0.0           | 0.00                        | 0.00                       | 0.00                      | 0.00       |        |
| 1,104.5                   | 21.14              | 72.55          | 1,088.6                   | 38.5          | 122.6         | 3.00                        | 3.00                       | 0.00                      | 0.00       |        |
| 4,230.5                   | 21.14              | 72.55          | 4,004.4                   | 376.5         | 1,197.8       | 0.00                        | 0.00                       | 0.00                      | 0.00       |        |
| 4,935.0                   | 0.00               | 0.00           | 4,693.0                   | 415.0         | 1,320.4       | 3.00                        | -3.00                      | 0.00                      | 180.00     | 31M IC |
| 8,997.0                   | 0.00               | 0.00           | 8,755.0                   | 415.0         | 1,320.4       | 0.00                        | 0.00                       | 0.00                      | 0.00       | 31M TD |

# Burlington Resources Oil & Gas Company LI

## Planning Report

|                  |                            |                                     |                                      |
|------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM 2003.11 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 28-5 31M                        |
| <b>Company:</b>  | BurlingtonResources        | <b>TVD Reference:</b>               | WELL @ 7319.0ft (Original Well Elev) |
| <b>Project:</b>  | SAN JUAN, NM               | <b>MD Reference:</b>                | WELL @ 7319.0ft (Original Well Elev) |
| <b>Site:</b>     | M-Pad                      | <b>North Reference:</b>             | Grid                                 |
| <b>Well:</b>     | 28-5 31M                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | 28-5 31M                   |                                     |                                      |
| <b>Design:</b>   | 28-5 31M S-Curve           |                                     |                                      |

| Planned Survey            |                    |                |                           |               |               |                             |                             |                            |                           |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/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                      |
| 320.0                     | 0.00               | 0.00           | 320.0                     | 0.0           | 0.0           | 0.0                         | 0.00                        | 0.00                       | 0.00                      |
| Surface                   |                    |                |                           |               |               |                             |                             |                            |                           |
| 400.0                     | 0.00               | 0.00           | 400.0                     | 0.0           | 0.0           | 0.0                         | 0.00                        | 0.00                       | 0.00                      |
| 500.0                     | 3.00               | 72.55          | 500.0                     | 0.8           | 2.5           | 2.6                         | 3.00                        | 3.00                       | 0.00                      |
| 600.0                     | 6.00               | 72.55          | 599.6                     | 3.1           | 10.0          | 10.5                        | 3.00                        | 3.00                       | 0.00                      |
| 700.0                     | 9.00               | 72.55          | 698.8                     | 7.1           | 22.4          | 23.5                        | 3.00                        | 3.00                       | 0.00                      |
| 800.0                     | 12.00              | 72.55          | 797.1                     | 12.5          | 39.8          | 41.7                        | 3.00                        | 3.00                       | 0.00                      |
| 900.0                     | 15.00              | 72.55          | 894.3                     | 19.5          | 62.1          | 65.1                        | 3.00                        | 3.00                       | 0.00                      |
| 1,000.0                   | 18.00              | 72.55          | 990.2                     | 28.0          | 89.2          | 93.5                        | 3.00                        | 3.00                       | 0.00                      |
| 1,100.0                   | 21.00              | 72.55          | 1,084.4                   | 38.0          | 121.0         | 126.9                       | 3.00                        | 3.00                       | 0.00                      |
| 1,104.5                   | 21.14              | 72.55          | 1,088.6                   | 38.5          | 122.6         | 128.5                       | 3.00                        | 3.00                       | 0.00                      |
| 1,200.0                   | 21.14              | 72.55          | 1,177.7                   | 48.8          | 155.4         | 162.9                       | 0.00                        | 0.00                       | 0.00                      |
| 1,300.0                   | 21.14              | 72.55          | 1,271.0                   | 59.7          | 189.8         | 199.0                       | 0.00                        | 0.00                       | 0.00                      |
| 1,400.0                   | 21.14              | 72.55          | 1,364.3                   | 70.5          | 224.2         | 235.0                       | 0.00                        | 0.00                       | 0.00                      |
| 1,500.0                   | 21.14              | 72.55          | 1,457.5                   | 81.3          | 258.6         | 271.1                       | 0.00                        | 0.00                       | 0.00                      |
| 1,600.0                   | 21.14              | 72.55          | 1,550.8                   | 92.1          | 293.0         | 307.1                       | 0.00                        | 0.00                       | 0.00                      |
| 1,700.0                   | 21.14              | 72.55          | 1,644.1                   | 102.9         | 327.4         | 343.2                       | 0.00                        | 0.00                       | 0.00                      |
| 1,800.0                   | 21.14              | 72.55          | 1,737.3                   | 113.7         | 361.8         | 379.2                       | 0.00                        | 0.00                       | 0.00                      |
| 1,900.0                   | 21.14              | 72.55          | 1,830.6                   | 124.5         | 396.2         | 415.3                       | 0.00                        | 0.00                       | 0.00                      |
| 2,000.0                   | 21.14              | 72.55          | 1,923.9                   | 135.3         | 430.6         | 451.4                       | 0.00                        | 0.00                       | 0.00                      |
| 2,100.0                   | 21.14              | 72.55          | 2,017.2                   | 146.1         | 465.0         | 487.4                       | 0.00                        | 0.00                       | 0.00                      |
| 2,200.0                   | 21.14              | 72.55          | 2,110.4                   | 157.0         | 499.4         | 523.5                       | 0.00                        | 0.00                       | 0.00                      |
| 2,300.0                   | 21.14              | 72.55          | 2,203.7                   | 167.8         | 533.8         | 559.5                       | 0.00                        | 0.00                       | 0.00                      |
| 2,400.0                   | 21.14              | 72.55          | 2,297.0                   | 178.6         | 568.2         | 595.6                       | 0.00                        | 0.00                       | 0.00                      |
| 2,500.0                   | 21.14              | 72.55          | 2,390.3                   | 189.4         | 602.6         | 631.6                       | 0.00                        | 0.00                       | 0.00                      |
| 2,600.0                   | 21.14              | 72.55          | 2,483.5                   | 200.2         | 637.0         | 667.7                       | 0.00                        | 0.00                       | 0.00                      |
| 2,700.0                   | 21.14              | 72.55          | 2,576.8                   | 211.0         | 671.4         | 703.8                       | 0.00                        | 0.00                       | 0.00                      |
| 2,800.0                   | 21.14              | 72.55          | 2,670.1                   | 221.8         | 705.8         | 739.8                       | 0.00                        | 0.00                       | 0.00                      |
| 2,900.0                   | 21.14              | 72.55          | 2,763.4                   | 232.6         | 740.2         | 775.9                       | 0.00                        | 0.00                       | 0.00                      |
| 3,000.0                   | 21.14              | 72.55          | 2,856.6                   | 243.5         | 774.6         | 811.9                       | 0.00                        | 0.00                       | 0.00                      |
| 3,100.0                   | 21.14              | 72.55          | 2,949.9                   | 254.3         | 809.0         | 848.0                       | 0.00                        | 0.00                       | 0.00                      |
| 3,200.0                   | 21.14              | 72.55          | 3,043.2                   | 265.1         | 843.4         | 884.0                       | 0.00                        | 0.00                       | 0.00                      |
| 3,300.0                   | 21.14              | 72.55          | 3,136.4                   | 275.9         | 877.8         | 920.1                       | 0.00                        | 0.00                       | 0.00                      |
| 3,400.0                   | 21.14              | 72.55          | 3,229.7                   | 286.7         | 912.2         | 956.2                       | 0.00                        | 0.00                       | 0.00                      |
| 3,500.0                   | 21.14              | 72.55          | 3,323.0                   | 297.5         | 946.6         | 992.2                       | 0.00                        | 0.00                       | 0.00                      |
| 3,600.0                   | 21.14              | 72.55          | 3,416.3                   | 308.3         | 981.0         | 1,028.3                     | 0.00                        | 0.00                       | 0.00                      |
| 3,700.0                   | 21.14              | 72.55          | 3,509.5                   | 319.1         | 1,015.4       | 1,064.3                     | 0.00                        | 0.00                       | 0.00                      |
| 3,779.8                   | 21.14              | 72.55          | 3,584.0                   | 327.8         | 1,042.8       | 1,093.1                     | 0.00                        | 0.00                       | 0.00                      |
| Ojo Alamo                 |                    |                |                           |               |               |                             |                             |                            |                           |
| 3,800.0                   | 21.14              | 72.55          | 3,602.8                   | 329.9         | 1,049.8       | 1,100.4                     | 0.00                        | 0.00                       | 0.00                      |
| 3,900.0                   | 21.14              | 72.55          | 3,696.1                   | 340.8         | 1,084.2       | 1,136.4                     | 0.00                        | 0.00                       | 0.00                      |
| 3,985.7                   | 21.14              | 72.55          | 3,776.0                   | 350.0         | 1,113.6       | 1,167.3                     | 0.00                        | 0.00                       | 0.00                      |
| Kirtland                  |                    |                |                           |               |               |                             |                             |                            |                           |
| 4,000.0                   | 21.14              | 72.55          | 3,789.4                   | 351.6         | 1,118.6       | 1,172.5                     | 0.00                        | 0.00                       | 0.00                      |
| 4,100.0                   | 21.14              | 72.55          | 3,882.6                   | 362.4         | 1,153.0       | 1,208.6                     | 0.00                        | 0.00                       | 0.00                      |
| 4,200.0                   | 21.14              | 72.55          | 3,975.9                   | 373.2         | 1,187.4       | 1,244.6                     | 0.00                        | 0.00                       | 0.00                      |
| 4,230.5                   | 21.14              | 72.55          | 4,004.4                   | 376.5         | 1,197.8       | 1,255.6                     | 0.00                        | 0.00                       | 0.00                      |
| 4,257.9                   | 20.31              | 72.55          | 4,030.0                   | 379.4         | 1,207.1       | 1,265.3                     | 3.00                        | -3.00                      | 0.00                      |
| Fruitland                 |                    |                |                           |               |               |                             |                             |                            |                           |

# Burlington Resources Oil & Gas Company LI

## Planning Report

|                  |                            |                                     |                                      |
|------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM 2003.11 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 28-5 31M                        |
| <b>Company:</b>  | BurlingtonResources        | <b>TVD Reference:</b>               | WELL @ 7319.0ft (Original Well Elev) |
| <b>Project:</b>  | SAN JUAN , NM              | <b>MD Reference:</b>                | WELL @ 7319.0ft (Original Well Elev) |
| <b>Site:</b>     | M-Pad                      | <b>North Reference:</b>             | Grid                                 |
| <b>Well:</b>     | 28-5 31M                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | 28-5 31M                   |                                     |                                      |
| <b>Design:</b>   | 28-5 31M S-Curve           |                                     |                                      |

|                              |       |       |         |       |         |         |      |       |      |
|------------------------------|-------|-------|---------|-------|---------|---------|------|-------|------|
| 4,300.0                      | 19.05 | 72.55 | 4,069.6 | 383.6 | 1,220.6 | 1,279.5 | 3.00 | -3.00 | 0.00 |
| 4,400.0                      | 16.05 | 72.55 | 4,165.0 | 392.7 | 1,249.4 | 1,309.6 | 3.00 | -3.00 | 0.00 |
| 4,471.5                      | 13.91 | 72.55 | 4,234.0 | 398.2 | 1,267.0 | 1,328.1 | 3.00 | -3.00 | 0.00 |
| <b>Pic Cliffs</b>            |       |       |         |       |         |         |      |       |      |
| 4,500.0                      | 13.05 | 72.55 | 4,261.7 | 400.2 | 1,273.4 | 1,334.8 | 3.00 | -3.00 | 0.00 |
| 4,600.0                      | 10.05 | 72.55 | 4,359.7 | 406.2 | 1,292.4 | 1,354.8 | 3.00 | -3.00 | 0.00 |
| 4,700.0                      | 7.05  | 72.55 | 4,458.6 | 410.7 | 1,306.6 | 1,369.7 | 3.00 | -3.00 | 0.00 |
| 4,734.7                      | 6.01  | 72.55 | 4,493.0 | 411.9 | 1,310.4 | 1,373.6 | 3.00 | -3.00 | 0.00 |
| <b>Lewis</b>                 |       |       |         |       |         |         |      |       |      |
| 4,800.0                      | 4.05  | 72.55 | 4,558.1 | 413.6 | 1,315.9 | 1,379.3 | 3.00 | -3.00 | 0.00 |
| 4,900.0                      | 1.05  | 72.55 | 4,658.0 | 414.9 | 1,320.1 | 1,383.8 | 3.00 | -3.00 | 0.00 |
| 4,935.0                      | 0.00  | 0.00  | 4,693.0 | 415.0 | 1,320.4 | 1,384.1 | 3.00 | -3.00 | 0.00 |
| <b>Intermediate - 31M IC</b> |       |       |         |       |         |         |      |       |      |
| 5,194.0                      | 0.00  | 0.00  | 4,952.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Huerfano Bentonite</b>    |       |       |         |       |         |         |      |       |      |
| 5,521.0                      | 0.00  | 0.00  | 5,279.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Chacra</b>                |       |       |         |       |         |         |      |       |      |
| 6,122.0                      | 0.00  | 0.00  | 5,880.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Up. Cliff House</b>       |       |       |         |       |         |         |      |       |      |
| 6,356.0                      | 0.00  | 0.00  | 6,114.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Mass. Cliff House</b>     |       |       |         |       |         |         |      |       |      |
| 6,389.0                      | 0.00  | 0.00  | 6,147.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Menefee</b>               |       |       |         |       |         |         |      |       |      |
| 6,686.0                      | 0.00  | 0.00  | 6,444.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Point Lookout</b>         |       |       |         |       |         |         |      |       |      |
| 7,187.0                      | 0.00  | 0.00  | 6,945.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Mancos Shale</b>          |       |       |         |       |         |         |      |       |      |
| 7,917.0                      | 0.00  | 0.00  | 7,675.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Gallup</b>                |       |       |         |       |         |         |      |       |      |
| 8,673.0                      | 0.00  | 0.00  | 8,431.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Greenhorn</b>             |       |       |         |       |         |         |      |       |      |
| 8,739.0                      | 0.00  | 0.00  | 8,497.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Graneros</b>              |       |       |         |       |         |         |      |       |      |
| 8,806.0                      | 0.00  | 0.00  | 8,564.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Two Wells</b>             |       |       |         |       |         |         |      |       |      |
| 8,859.0                      | 0.00  | 0.00  | 8,617.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Up. Cubero</b>            |       |       |         |       |         |         |      |       |      |
| 8,912.0                      | 0.00  | 0.00  | 8,670.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Lower cubero</b>          |       |       |         |       |         |         |      |       |      |
| 8,982.0                      | 0.00  | 0.00  | 8,740.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Oak canyon</b>            |       |       |         |       |         |         |      |       |      |
| 8,996.9                      | 0.00  | 0.00  | 8,754.9 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>Production</b>            |       |       |         |       |         |         |      |       |      |
| 8,997.0                      | 0.00  | 0.00  | 8,755.0 | 415.0 | 1,320.4 | 1,384.1 | 0.00 | 0.00  | 0.00 |
| <b>31M TD</b>                |       |       |         |       |         |         |      |       |      |

# Burlington Resources Oil & Gas Company LI

## Planning Report

|                  |                            |                                     |                                      |
|------------------|----------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM 2003.11 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 28-5 31M                        |
| <b>Company:</b>  | BurlingtonResources        | <b>TVD Reference:</b>               | WELL @ 7319.0ft (Original Well Elev) |
| <b>Project:</b>  | SAN JUAN , NM              | <b>MD Reference:</b>                | WELL @ 7319.0ft (Original Well Elev) |
| <b>Site:</b>     | M-Pad                      | <b>North Reference:</b>             | Grid                                 |
| <b>Well:</b>     | 28-5 31M                   | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | 28-5 31M                   |                                     |                                      |
| <b>Design:</b>   | 28-5 31M S-Curve           |                                     |                                      |

| Targets            |           |          |         |       |         |              |            |                   |                    |           |
|--------------------|-----------|----------|---------|-------|---------|--------------|------------|-------------------|--------------------|-----------|
| Target Name        |           |          |         |       |         |              |            |                   |                    |           |
| - hit/miss target  | Dip Angle | Dip Dir. | TVD     | +N-S  | +E-W    | Northing     | Easting    |                   |                    |           |
| - Shape            | (°)       | (°)      | (ft)    | ft    | ft      | (ft)         | (ft)       | Latitude          |                    | Longitude |
| 31M TD             | 0.00      | 0.00     | 8,755.0 | 415.0 | 1,320.4 | 2,064,170.61 | 655,458.96 | 36° 40' 18.012" N | 107° 18' 11.664" W |           |
| - plan hits target |           |          |         |       |         |              |            |                   |                    |           |
| - Point            |           |          |         |       |         |              |            |                   |                    |           |
| 31M IC             | 0.00      | 0.00     | 4,693.0 | 415.0 | 1,320.4 | 2,064,170.61 | 655,458.96 | 36° 40' 18.012" N | 107° 18' 11.664" W |           |
| - plan hits target |           |          |         |       |         |              |            |                   |                    |           |
| - Point            |           |          |         |       |         |              |            |                   |                    |           |

| Casing Points  |                |              |                 |               |  |
|----------------|----------------|--------------|-----------------|---------------|--|
| Measured Depth | Vertical Depth | Name         | Casing Diameter | Hole Diameter |  |
| (ft)           | (ft)           |              | (")             | (")           |  |
| 320.0          | 320.0          | Surface      | 9-5/8           | 12-1/4        |  |
| 4,935.0        | 4,693.0        | Intermediate | 7               | 8-3/4         |  |
| 8,996.9        | 8,754.9        | Production   | 4-1/2           | 6-1/4         |  |

| Formations     |                |                      |           |      |               |  |
|----------------|----------------|----------------------|-----------|------|---------------|--|
| Measured Depth | Vertical Depth | Name                 | Lithology | Dip  | Dip Direction |  |
| (ft)           | (ft)           |                      |           | (°)  | (°)           |  |
| 3,779.8        | 3,584.0        | Ojo Alamo            |           | 0.00 | 359.98        |  |
| 3,985.7        | 3,776.0        | Kirtland             |           | 0.00 | 359.98        |  |
| 4,257.9        | 4,030.0        | Fruitland            |           | 0.00 | 359.98        |  |
| 4,471.5        | 4,234.0        | Pic Cliffs           |           | 0.00 | 359.98        |  |
| 4,734.7        | 4,493.0        | Lewis                |           | 0.00 | 359.98        |  |
| 5,194.0        | 4,952.0        | Huerfanito Bentonite |           | 0.00 | 359.98        |  |
| 5,521.0        | 5,279.0        | Chacra               |           | 0.00 | 359.98        |  |
| 6,122.0        | 5,880.0        | Up. Cliff House      |           | 0.00 | 359.98        |  |
| 6,356.0        | 6,114.0        | Mass. Cliff House    |           | 0.00 | 359.98        |  |
| 6,389.0        | 6,147.0        | Menefee              |           | 0.00 | 359.98        |  |
| 6,686.0        | 6,444.0        | Point Lookout        |           | 0.00 | 359.98        |  |
| 7,187.0        | 6,945.0        | Mancos Shale         |           | 0.00 | 359.98        |  |
| 7,917.0        | 7,675.0        | Gallup               |           | 0.00 | 359.98        |  |
| 8,673.0        | 8,431.0        | Greenhorn            |           | 0.00 | 359.98        |  |
| 8,739.0        | 8,497.0        | Graneros             |           | 0.00 | 359.98        |  |
| 8,806.0        | 8,564.0        | Two Wells            |           | 0.00 | 359.98        |  |
| 8,859.0        | 8,617.0        | Up. Cubero           |           | 0.00 | 359.98        |  |
| 8,912.0        | 8,670.0        | Lower cubero         |           | 0.00 | 359.98        |  |
| 8,982.0        | 8,740.0        | Oak canyon           |           | 0.00 | 359.98        |  |