

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                                                                                                                                                                                  |                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1a. Type of Work<br>DRILL                                                                                                                                                                                                                                        | 5. Lease Number<br>SF-080511<br>Unit Reporting Number                                                                              |
| 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                                                                                                             |
| 3. Address & Phone No. of Operator<br>PO Box 4289, Farmington, NM 87499<br>(505) 326-9700                                                                                                                                                                        | 8. Farm or Lease Name<br>Harrington<br>9. Well Number<br>9N                                                                        |
| 4. Location of Well<br>Surface: Unit J(NW/SE), 1600' FSL & 1786' FEL<br>BHL : Unit I(NE/SE), 1480' FSL & 935' FEL<br><br>Surface: Latitude: 36.526598° N (NAD83)<br>Longitude: 107.613719° W<br>BHL : Latitude: 36.526239° N (NAD83)<br>Longitude: 107.610824° W | 10. Field, Pool, Wildcat<br>Blanco MV/Basin DK<br>11. Sec., Twn, Rge, Mer. (NMPM)<br>Sec. 31, T27N, R7W<br><br>API # 30-039- 31140 |
| 14. Distance in Miles from Nearest Town<br>31.4 miles from Bloomfield                                                                                                                                                                                            | 12. County<br>Rio Arriba<br>13. State<br>NM                                                                                        |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>935'                                                                                                                                                                                    | 17. Acres Assigned to Well<br>320.00 Acres E/2                                                                                     |
| 16. Acres in Lease<br>641.600                                                                                                                                                                                                                                    |                                                                                                                                    |
| 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease<br>71' from Harrington 9                                                                                                                                          |                                                                                                                                    |
| 19. Proposed Depth<br>6741'                                                                                                                                                                                                                                      | 20. Rotary or Cable Tools<br>Rotary                                                                                                |
| 21. Elevations (DF, FT, GR, Etc.)<br>6036' GL                                                                                                                                                                                                                    | 22. Approx. Date Work will Start                                                                                                   |
| 23. Proposed Casing and Cementing Program<br>See Operations Plan attached                                                                                                                                                                                        |                                                                                                                                    |
| 24. Authorized by: <u>Arleen Kellywood</u><br>Arleen Kellywood (Staff Regulatory Tech)                                                                                                                                                                           | 8/17/12<br>Date                                                                                                                    |

Hold C104  
for Directional Survey  
and "As Drilled" plat

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE AFM DATE 10/19/12

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

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

Hold C104

for Directional Survey  
and "As Drilled" plat

NMOCD

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED

OCT 31 2012 ea

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

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                          |                                                                           |                                                         |
|------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------|
| <sup>1</sup> API Number<br>30-039- 31140 | <sup>2</sup> Pool Code<br>72319/71599                                     | <sup>3</sup> Pool Name<br>BLANCO MESAVERDE/BASIN DAKOTA |
| <sup>4</sup> Property Code<br>7094       | <sup>5</sup> Property Name<br>HARRINGTON                                  | <sup>6</sup> Well Number<br>9N                          |
| <sup>7</sup> OGRID No.<br>14538          | <sup>8</sup> Operator Name<br>BURLINGTON RESOURCES OIL AND GAS COMPANY LP | <sup>9</sup> Elevation<br>6036                          |

## <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     |
| J             | 31      | 27-N     | 7-W   |         | 1600          | SOUTH            | 1786          | 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     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| 1             | 31      | 27-N     | 7-W   |         | 1480          | SOUTH            | 935           | EAST           | RIO ARRIBA |

|                                           |                               |                                  |                                    |
|-------------------------------------------|-------------------------------|----------------------------------|------------------------------------|
| <sup>12</sup> Dedicated Acres<br>E/2(320) | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No.<br>R-11363 |
|-------------------------------------------|-------------------------------|----------------------------------|------------------------------------|

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.

N 89°10' W 5281.98' (R)  
N 89°15'30" E 5281.37' (M)

BASIS OF BEARING IS THE NEW MEXICO  
STATE PLANE COORDINATE SYSTEM, WEST  
ZONE, NAD83 AS DETERMINED BY GPS  
OBSERVATION AND NGS/OPUS SOLUTION.

BLM  
1955

SECTION 31  
T-27-N, R-07-W

E/2 DEDICATED  
ACREAGE  
SF-080511

WELL FLAG  
NAD 83  
LAT: 36.526598° N  
LONG: 107.613719° W

NAD 27  
LAT: 36°31.595325' N  
LONG: 107°36.786624' W

BOTTOM HOLE  
NAD 83  
LAT: 36.526239° N  
LONG: 107.610824° W

NAD 27  
LAT: 36°31.573781' N  
LONG: 107°36.612961' W

S 81°23'37\" E  
860.4'  
1786'

935'

1600'

1480'

BLM  
1954

BLM  
1954

N 89°25'23\" W 5274.9' (M)  
N 89°19' W 5277.36' (R)

**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 of such a mineral or working  
interest, or to a voluntary pooling agreement or a compulsory pooling  
under hereinafter entered by the division.

Arleen Kellywood 5/23/12

Signature Date

Arleen Kellywood

Printed Name

arleen.r.kellywood@conocophillips.com

E-mail Address

**15 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.

Date of Survey: 05/04/2012

Signature and Seal of Professional Surveyor:

Certificate Number: 0512393

# BURLINGTON RESOURCES OIL & GAS COMPANY LP

HARRINGTON 9N

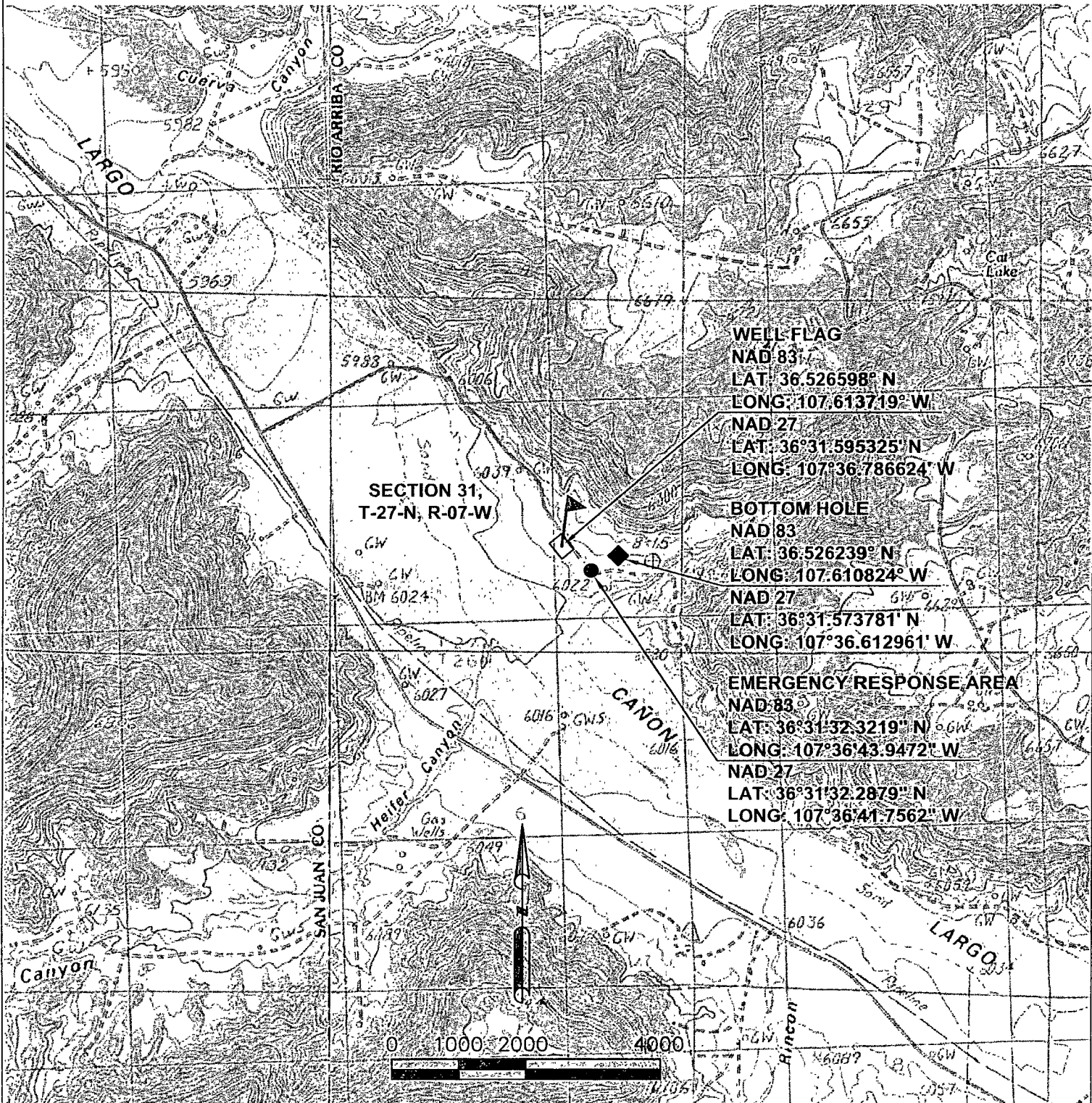
1600FSL/1786FEL

SECTION 31, T-27-N, R-07-W, N.M.P.M.,

RIO ARRIBA COUNTY, NEW MEXICO

ELEV.: GROUND 6036 NAVD88

NO NEW ACCESS



## WELL FLAG

NAD 83

LAT: 36.526598° N

LONG: 107.613719° W

NAD 27

LAT: 36°31'59.5325" N

LONG: 107°36'78.6624" W

## BOTTOM HOLE

NAD 83

LAT: 36.526239° N

LONG: 107.610824° W

NAD 27

LAT: 36°31'57.3781" N

LONG: 107°36'61.2961" W

## EMERGENCY RESPONSE AREA

NAD 83

LAT: 36°31'32.3219" N

LONG: 107°36'43.9472" W

NAD 27

LAT: 36°31'32.2879" N

LONG: 107°36'41.7562" W

NOTES:  
1) BASIS OF BEARING IS GRID NORTH, NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 DERIVED BY GPS OBSERVATION AND NGS/OPUS SOLUTION. NO MONUMENTS WERE RECOVERED, ONLY GCDDB CORDS USED.  
2) COMBINED FACTOR IS 0.999921430 AT WELL FLAG.

| REVISIONS |                   |            |         |
|-----------|-------------------|------------|---------|
| NO.       | DESCRIPTION       | REVISED BY | DATE    |
| 1         | ISSUED FOR REVIEW | P. THOMAS  | 5/14/12 |
|           |                   |            |         |
|           |                   |            |         |
|           |                   |            |         |

P.O. BOX 328  
BLOOMFIELD, NM, 87413  
PHONE: (505) 325-7707

**CCI**

**CHENAULT CONSULTING INC.**

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HARRINGTON 9N

DEVELOPMENT

|                                             |                                 |                             |         |                          |                    |                    |                                                                                                        |
|---------------------------------------------|---------------------------------|-----------------------------|---------|--------------------------|--------------------|--------------------|--------------------------------------------------------------------------------------------------------|
| Lease:                                      |                                 | AFE #: WAN.CDR.1100         |         |                          |                    | AFE \$:            |                                                                                                        |
| Field Name: SAN JUAN                        |                                 | Rig: Aztec Rig 711          |         | 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>           |                                 |                             |         |                          |                    |                    |                                                                                                        |
| <b>Zone</b>                                 | <b>Zone Name</b>                |                             |         |                          |                    |                    |                                                                                                        |
| FRR                                         | BASIN DAKOTA (PRORATED GAS)     |                             |         |                          |                    |                    |                                                                                                        |
| RON                                         | BLANCO MESAVERDE (PRORATED GAS) |                             |         |                          |                    |                    |                                                                                                        |
|                                             |                                 |                             |         |                          |                    |                    |                                                                                                        |
| <b>Location:</b> Surface                    |                                 | <b>Datum Code:</b> NAD 27   |         |                          |                    | <b>Directional</b> |                                                                                                        |
| Latitude: 36.526589                         | Longitude: -107.613110          | X:                          | Y:      | Section: 31              | Range: 007W        |                    |                                                                                                        |
| Footage X: 1786 FEL                         | Footage Y: 1600 FSL             | Elevation: 6036             | (FT)    | Township: 027N           |                    |                    |                                                                                                        |
| Tolerance:                                  |                                 |                             |         |                          |                    |                    |                                                                                                        |
| <b>Location:</b> Bottom Hole                |                                 | <b>Datum Code:</b> NAD 27   |         |                          |                    | <b>Directional</b> |                                                                                                        |
| Latitude: 36.526230                         | Longitude: -107.610215          | X:                          | Y:      | Section: 31              | Range: 007W        |                    |                                                                                                        |
| Footage X: 935 FEL                          | Footage Y: 1480 FSL             | Elevation:                  | (FT)    | Township: 027N           |                    |                    |                                                                                                        |
| Tolerance:                                  |                                 |                             |         |                          |                    |                    |                                                                                                        |
| Location Type: Year Round                   |                                 | Start Date (Est.): 1/1/2012 |         | Completion Date:         |                    | Date In Operation: |                                                                                                        |
| Formation Data: Assume KB = 6051 Units = FT |                                 |                             |         |                          |                    |                    |                                                                                                        |
| Formation Call & Casing Points              | Depth (TVD in Ft)               | SS (Ft)                     | MD (Ft) | Depletion (Yes/No)       | BHP (PSIG)         | BHT                | Remarks                                                                                                |
| NACIMIENTO                                  | 15                              | 6036                        |         | <input type="checkbox"/> |                    |                    | Lost circulation in SJ 27-8 B5. Ground water at 50' in SJ 28-7 65.                                     |
| Surface Casing                              | 200                             | 5851                        |         | <input type="checkbox"/> |                    | 59                 | 12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121cuft. Circulate cement to surface. |
| OJO ALAMO                                   | 1392                            | 4659                        |         | <input type="checkbox"/> |                    |                    |                                                                                                        |
| KIRTLAND                                    | 1538                            | 4513                        |         | <input type="checkbox"/> |                    |                    |                                                                                                        |
| FRUITLAND                                   | 1779                            | 4272                        |         | <input type="checkbox"/> |                    |                    | Possible Gas                                                                                           |
| PICTURED CLIFFS                             | 2187                            | 3864                        |         | <input type="checkbox"/> | 227                | 99                 |                                                                                                        |
| LEWIS                                       | 2327                            | 3724                        |         | <input type="checkbox"/> |                    |                    |                                                                                                        |
| HUERFANITO BENTONITE                        | 2672                            | 3379                        |         | <input type="checkbox"/> |                    |                    |                                                                                                        |
| CHACRA                                      | 3101                            | 2950                        |         | <input type="checkbox"/> |                    |                    |                                                                                                        |
| UPPER CLIFF HOUSE                           | 3675                            | 2376                        |         | <input type="checkbox"/> |                    |                    |                                                                                                        |
| MASSIVE CLIFF HOUSE                         | 3845                            | 2206                        |         | <input type="checkbox"/> | 325                | 132                |                                                                                                        |
| MENEFEE                                     | 3869                            | 2182                        |         | <input type="checkbox"/> |                    |                    |                                                                                                        |
| Intermediate Casing                         | 4019                            | 2032                        |         | <input type="checkbox"/> |                    |                    | 8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 904 cuft. Circulate cement to surface.          |
| POINT LOOKOUT                               | 4492                            | 1559                        |         | <input type="checkbox"/> |                    |                    | Gas                                                                                                    |
| MANCOS                                      | 4816                            | 1235                        |         | <input type="checkbox"/> |                    | 151                |                                                                                                        |
| UPPER GALLUP                                | 5624                            | 427                         |         | <input type="checkbox"/> |                    |                    |                                                                                                        |
| GREENHORN                                   | 6445                            | -394                        |         | <input type="checkbox"/> |                    |                    |                                                                                                        |
| GRANEROS                                    | 6503                            | -452                        |         | <input type="checkbox"/> |                    |                    |                                                                                                        |
| TWO WELLS                                   | 6564                            | -513                        |         | <input type="checkbox"/> | 2894               | 186                | Gas                                                                                                    |
| PAGUATE                                     | 6623                            | -572                        |         | <input type="checkbox"/> |                    |                    | Gas                                                                                                    |

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

## HARRINGTON 9N

## DEVELOPMENT

|              |      |      |                          |                                                                                                                                                   |
|--------------|------|------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| UPPER CUBERO | 6652 | -601 | <input type="checkbox"/> | Gas                                                                                                                                               |
| LOWER CUBERO | 6674 | -623 | <input type="checkbox"/> | Gas - Est bottom perf ~6726' (15' above Encinal). Wet in Harvey A 3N and A 3M (27N 7W 32). The 3N was condensate wet.                             |
| ENCINAL      | 6741 | -690 | <input type="checkbox"/> | Gas                                                                                                                                               |
| Total Depth  | 6741 | -690 | <input type="checkbox"/> | 190 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 361 cuft. Circulate cement a minimum of 100' inside the previous casing string. |
| BURRO CANYON | 6768 | -717 | <input type="checkbox"/> | Wet in Harvey A 3 (27N 7W 32) and Rincon 303 (27N 7W 33).                                                                                         |
| MORRISON     | 6865 | -814 | <input type="checkbox"/> |                                                                                                                                                   |

### Reference Wells:

| Reference Type | Well Name    | Comments |
|----------------|--------------|----------|
| Production     | LIVELY 21E   |          |
| Production     | HARRINGTON 9 |          |

### Logging Program:

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

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

GR/CBL.

Mudlog ~100' above GLLP down to TD.

Mudlogger will call TD.

### Additional Information:

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

|                  |                                        |
|------------------|----------------------------------------|
| <b>Database:</b> | EDM Central Planning                   |
| <b>Company:</b>  | ConocoPhillips SJBW                    |
| <b>Project:</b>  | San Juan Basin - New Mexico West Wells |
| <b>Site:</b>     | Other Named Wells                      |
| <b>Well:</b>     | Harrington #9N                         |
| <b>Wellbore:</b> | Wellbore #1                            |
| <b>Design:</b>   | Plan #1                                |

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

|                              |          |                     |                 |                          |                  |
|------------------------------|----------|---------------------|-----------------|--------------------------|------------------|
| <b>Site Position:</b>        |          | <b>Northing:</b>    | 2,063,826.04 ft | <b>Latitude:</b>         | 36° 40' 18.848 N |
| <b>From:</b>                 | Lat/Long | <b>Easting:</b>     | 504,691.02 ft   | <b>Longitude:</b>        | 107° 49' 2.415 W |
| <b>Position Uncertainty:</b> | 15.0 ft  | <b>Slot Radius:</b> | 6-1/8"          | <b>Grid Convergence:</b> | 0.01 °           |

|                             |                |        |                            |                 |                                     |
|-----------------------------|----------------|--------|----------------------------|-----------------|-------------------------------------|
| <b>Well</b>                 | Harrington #9N |        |                            |                 |                                     |
| <b>Well Position</b>        | <b>+N/-S</b>   | 0.0 ft | <b>Northing:</b>           | 2,011,000 41 ft | <b>Latitude:</b> 36° 31' 35 719 N   |
|                             | <b>+E/-W</b>   | 0.0 ft | <b>Easting:</b>            | 564,704 97 ft   | <b>Longitude:</b> 107° 36' 47 197 W |
| <b>Position Uncertainty</b> |                | 0.0 ft | <b>Wellhead Elevation:</b> | ft              | <b>Ground Level:</b> 6,036 0 ft     |

| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|-----------|------------|-------------|--------------------|------------------|------------------------|
|           | BGGM2012   | 6/26/2012   | 9.72               | 63.27            | 50,490                 |

**Version:** **Phase:** PROTOTYPE **Tie On Depth:** 0 0

| Vertical Section: | Depth From (TVD)<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Direction<br>(°) |
|-------------------|--------------------------|---------------|---------------|------------------|
|                   | 0.0                      | 0.0           | 0.0           | 98.74            |

| Measured      |                    |                | Vertical      |               |               | Dogleg            | Build             | Turn              | TFO    | Target             |
|---------------|--------------------|----------------|---------------|---------------|---------------|-------------------|-------------------|-------------------|--------|--------------------|
| Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Rate<br>(°/100ft) | Rate<br>(°/100ft) | Rate<br>(°/100ft) |        |                    |
| 0.0           | 0.00               | 0.00           | 0.0           | 0.0           | 0.0           | 0.00              | 0.00              | 0.00              | 0.00   |                    |
| 500.0         | 0.00               | 0.00           | 500.0         | 0.0           | 0.0           | 0.00              | 0.00              | 0.00              | 0.00   |                    |
| 1,648.6       | 22.97              | 98.74          | 1,618.1       | -34.5         | 224.6         | 2.00              | 2.00              | 0.00              | 98.74  |                    |
| 2,883.0       | 22.97              | 98.74          | 2,754.6       | -107.7        | 700.8         | 0.00              | 0.00              | 0.00              | 0.00   |                    |
| 3,648.8       | 0.00               | 0.00           | 3,500.0       | -130.7        | 850.5         | 3.00              | -3.00             | 0.00              | 180.00 | Harrington #9N VEI |
| 4,167.8       | 0.00               | 0.00           | 4,019.0       | -130.7        | 850.5         | 0.00              | 0.00              | 0.00              | 0.00   | Harrington #9N ICF |
| 6,873.8       | 0.00               | 0.00           | 6,725.0       | -130.7        | 850.5         | 0.00              | 0.00              | 0.00              | 0.00   | Harrington #9N PCI |

# ConocoPhillips or its affiliates

## Planning Report

**Database:** EDM Central Planning  
**Company:** ConocoPhillips SJB  
**Project:** San Juan Basin - New Mexico West Wells  
**Site:** Other Named Wells  
**Well:** Harrington #9N  
**Wellbore:** Wellbore #1  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Harrington #9N  
**TVD Reference:** WELL @ 6051 0ft (Original Well Elev)  
**MD Reference:** WELL @ 6051 0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### 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                |
| 300.0                       | 0.00            | 0.00        | 300.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 400.0                       | 0.00            | 0.00        | 400.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 500.0                       | 0.00            | 0.00        | 500.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 600.0                       | 2.00            | 98.74       | 600.0               | -0.3       | 1.7        | 1.7                   | 2.00                  | 2.00                 | 0.00                |
| 700.0                       | 4.00            | 98.74       | 699.8               | -1.1       | 6.9        | 7.0                   | 2.00                  | 2.00                 | 0.00                |
| 800.0                       | 6.00            | 98.74       | 799.5               | -2.4       | 15.5       | 15.7                  | 2.00                  | 2.00                 | 0.00                |
| 900.0                       | 8.00            | 98.74       | 898.7               | -4.2       | 27.6       | 27.9                  | 2.00                  | 2.00                 | 0.00                |
| 1,000.0                     | 10.00           | 98.74       | 997.5               | -6.6       | 43.0       | 43.5                  | 2.00                  | 2.00                 | 0.00                |
| 1,100.0                     | 12.00           | 98.74       | 1,095.6             | -9.5       | 61.9       | 62.6                  | 2.00                  | 2.00                 | 0.00                |
| 1,200.0                     | 14.00           | 98.74       | 1,193.1             | -12.9      | 84.1       | 85.1                  | 2.00                  | 2.00                 | 0.00                |
| 1,300.0                     | 16.00           | 98.74       | 1,289.6             | -16.9      | 109.7      | 111.0                 | 2.00                  | 2.00                 | 0.00                |
| 1,400.0                     | 18.00           | 98.74       | 1,385.3             | -21.3      | 138.6      | 140.2                 | 2.00                  | 2.00                 | 0.00                |
| 1,407.1                     | 18.14           | 98.74       | 1,392.0             | -21.6      | 140.8      | 142.4                 | 2.00                  | 2.00                 | 0.00                |
| <b>OJO ALAMO</b>            |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,500.0                     | 20.00           | 98.74       | 1,479.8             | -26.2      | 170.8      | 172.8                 | 2.00                  | 2.00                 | 0.00                |
| 1,562.2                     | 21.24           | 98.74       | 1,538.0             | -29.6      | 192.4      | 194.7                 | 2.00                  | 2.00                 | 0.00                |
| <b>KIRTLAND</b>             |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,600.0                     | 22.00           | 98.74       | 1,573.2             | -31.7      | 206.2      | 208.6                 | 2.00                  | 2.00                 | 0.00                |
| 1,648.6                     | 22.97           | 98.74       | 1,618.1             | -34.5      | 224.6      | 227.2                 | 2.00                  | 2.00                 | 0.00                |
| 1,700.0                     | 22.97           | 98.74       | 1,665.4             | -37.6      | 244.4      | 247.3                 | 0.00                  | 0.00                 | 0.00                |
| 1,800.0                     | 22.97           | 98.74       | 1,757.5             | -43.5      | 283.0      | 286.3                 | 0.00                  | 0.00                 | 0.00                |
| 1,823.4                     | 22.97           | 98.74       | 1,779.0             | -44.9      | 292.0      | 295.4                 | 0.00                  | 0.00                 | 0.00                |
| <b>FRUITLAND</b>            |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,900.0                     | 22.97           | 98.74       | 1,849.5             | -49.4      | 321.5      | 325.3                 | 0.00                  | 0.00                 | 0.00                |
| 2,000.0                     | 22.97           | 98.74       | 1,941.6             | -55.3      | 360.1      | 364.3                 | 0.00                  | 0.00                 | 0.00                |
| 2,100.0                     | 22.97           | 98.74       | 2,033.7             | -61.3      | 398.7      | 403.4                 | 0.00                  | 0.00                 | 0.00                |
| 2,200.0                     | 22.97           | 98.74       | 2,125.7             | -67.2      | 437.3      | 442.4                 | 0.00                  | 0.00                 | 0.00                |
| 2,266.5                     | 22.97           | 98.74       | 2,187.0             | -71.1      | 462.9      | 468.4                 | 0.00                  | 0.00                 | 0.00                |
| <b>PICTURED CLIFFS</b>      |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,300.0                     | 22.97           | 98.74       | 2,217.8             | -73.1      | 475.8      | 481.4                 | 0.00                  | 0.00                 | 0.00                |
| 2,400.0                     | 22.97           | 98.74       | 2,309.9             | -79.1      | 514.4      | 520.5                 | 0.00                  | 0.00                 | 0.00                |
| 2,418.6                     | 22.97           | 98.74       | 2,327.0             | -80.2      | 521.6      | 527.7                 | 0.00                  | 0.00                 | 0.00                |
| <b>LEWIS</b>                |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,500.0                     | 22.97           | 98.74       | 2,401.9             | -85.0      | 553.0      | 559.5                 | 0.00                  | 0.00                 | 0.00                |
| 2,600.0                     | 22.97           | 98.74       | 2,494.0             | -90.9      | 591.6      | 598.5                 | 0.00                  | 0.00                 | 0.00                |
| 2,700.0                     | 22.97           | 98.74       | 2,586.1             | -96.8      | 630.1      | 637.5                 | 0.00                  | 0.00                 | 0.00                |
| 2,793.3                     | 22.97           | 98.74       | 2,672.0             | -102.4     | 666.1      | 674.0                 | 0.00                  | 0.00                 | 0.00                |
| <b>HUERFANITO BENTONITE</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,800.0                     | 22.97           | 98.74       | 2,678.2             | -102.8     | 668.7      | 676.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,883.0                     | 22.97           | 98.74       | 2,754.6             | -107.7     | 700.8      | 709.0                 | 0.00                  | 0.00                 | 0.00                |
| 2,900.0                     | 22.46           | 98.74       | 2,770.3             | -108.7     | 707.2      | 715.5                 | 3.00                  | -3.00                | 0.00                |
| 3,000.0                     | 19.46           | 98.74       | 2,863.6             | -114.1     | 742.6      | 751.3                 | 3.00                  | -3.00                | 0.00                |
| 3,100.0                     | 16.46           | 98.74       | 2,958.7             | -118.8     | 773.1      | 782.1                 | 3.00                  | -3.00                | 0.00                |
| 3,200.0                     | 13.46           | 98.74       | 3,055.3             | -122.7     | 798.6      | 808.0                 | 3.00                  | -3.00                | 0.00                |
| 3,246.8                     | 12.06           | 98.74       | 3,101.0             | -124.3     | 808.8      | 818.3                 | 3.00                  | -3.00                | 0.00                |
| <b>CHACRA</b>               |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,300.0                     | 10.46           | 98.74       | 3,153.2             | -125.9     | 819.1      | 828.7                 | 3.00                  | -3.00                | 0.00                |
| 3,400.0                     | 7.46            | 98.74       | 3,251.9             | -128.2     | 834.5      | 844.3                 | 3.00                  | -3.00                | 0.00                |
| 3,500.0                     | 4.46            | 98.74       | 3,351.4             | -129.8     | 844.7      | 854.7                 | 3.00                  | -3.00                | 0.00                |
| 3,600.0                     | 1.46            | 98.74       | 3,451.2             | -130.6     | 849.8      | 859.8                 | 3.00                  | -3.00                | 0.00                |

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## Planning Report

**Database:** EDM Central Planning  
**Company:** ConocoPhillips SJB  
**Project:** San Juan Basin - New Mexico West Wells  
**Site:** Other Named Wells  
**Well:** Harrington #9N  
**Wellbore:** Wellbore #1  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Harrington #9N  
**TVD Reference:** WELL @ 6051 0ft (Original Well Elev)  
**MD Reference:** WELL @ 6051 0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

| Measured Depth (ft)        | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|----------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 3,648.8                    | 0 00            | 0 00        | 3,500 0             | -130 7     | 850 5      | 860.4                 | 3 00                  | -3 00                | 0 00                |
| <b>Harrington #9N VERT</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,700.0                    | 0 00            | 0 00        | 3,551.2             | -130.7     | 850.5      | 860.4                 | 0 00                  | 0 00                 | 0 00                |
| 3,800 0                    | 0 00            | 0 00        | 3,651 2             | -130 7     | 850.5      | 860.4                 | 0 00                  | 0.00                 | 0.00                |
| 3,823.8                    | 0 00            | 0 00        | 3,675.0             | -130.7     | 850.5      | 860.4                 | 0 00                  | 0 00                 | 0 00                |
| <b>UPPER CLIFF HOUSE</b>   |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,900.0                    | 0.00            | 0 00        | 3,751 2             | -130.7     | 850.5      | 860.4                 | 0 00                  | 0.00                 | 0 00                |
| 3,993.8                    | 0 00            | 0 00        | 3,845 0             | -130.7     | 850 5      | 860.4                 | 0 00                  | 0 00                 | 0 00                |
| <b>MASSIVE CLIFF HOUSE</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,000 0                    | 0 00            | 0 00        | 3,851 2             | -130 7     | 850.5      | 860.4                 | 0.00                  | 0 00                 | 0 00                |
| 4,017.8                    | 0.00            | 0 00        | 3,869 0             | -130 7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0 00                |
| <b>MENEFEE</b>             |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,100 0                    | 0 00            | 0.00        | 3,951 2             | -130.7     | 850.5      | 860.4                 | 0 00                  | 0 00                 | 0 00                |
| 4,167 8                    | 0 00            | 0.00        | 4,019 0             | -130.7     | 850.5      | 860 4                 | 0 00                  | 0.00                 | 0.00                |
| <b>Harrington #9N ICP</b>  |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,200 0                    | 0.00            | 0.00        | 4,051.2             | -130 7     | 850 5      | 860.4                 | 0.00                  | 0 00                 | 0.00                |
| 4,300 0                    | 0.00            | 0 00        | 4,151.2             | -130 7     | 850.5      | 860.4                 | 0 00                  | 0.00                 | 0.00                |
| 4,400.0                    | 0.00            | 0.00        | 4,251.2             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0 00                |
| 4,500.0                    | 0 00            | 0.00        | 4,351 2             | -130 7     | 850.5      | 860.4                 | 0 00                  | 0 00                 | 0 00                |
| 4,600 0                    | 0 00            | 0 00        | 4,451 2             | -130.7     | 850 5      | 860 4                 | 0 00                  | 0 00                 | 0.00                |
| 4,640 8                    | 0 00            | 0 00        | 4,492 0             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0 00                 | 0.00                |
| <b>POINT LOOKOUT</b>       |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,700.0                    | 0.00            | 0.00        | 4,551 2             | -130 7     | 850 5      | 860 4                 | 0 00                  | 0 00                 | 0 00                |
| 4,800 0                    | 0.00            | 0.00        | 4,651 2             | -130 7     | 850.5      | 860 4                 | 0 00                  | 0.00                 | 0.00                |
| 4,900.0                    | 0.00            | 0 00        | 4,751 2             | -130.7     | 850 5      | 860.4                 | 0.00                  | 0 00                 | 0 00                |
| 4,964.8                    | 0 00            | 0.00        | 4,816 0             | -130.7     | 850 5      | 860.4                 | 0 00                  | 0.00                 | 0 00                |
| <b>MANCOS</b>              |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,000 0                    | 0 00            | 0.00        | 4,851 2             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0 00                |
| 5,100 0                    | 0 00            | 0.00        | 4,951.2             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0 00                |
| 5,200 0                    | 0.00            | 0.00        | 5,051.2             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0 00                 | 0 00                |
| 5,300.0                    | 0.00            | 0.00        | 5,151 2             | -130 7     | 850.5      | 860 4                 | 0 00                  | 0 00                 | 0.00                |
| 5,400 0                    | 0.00            | 0.00        | 5,251.2             | -130 7     | 850 5      | 860 4                 | 0.00                  | 0 00                 | 0 00                |
| 5,500.0                    | 0 00            | 0 00        | 5,351 2             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0.00                |
| 5,600.0                    | 0 00            | 0 00        | 5,451.2             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0.00                |
| 5,700.0                    | 0 00            | 0 00        | 5,551 2             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0 00                |
| 5,772.8                    | 0 00            | 0 00        | 5,624 0             | -130.7     | 850 5      | 860.4                 | 0.00                  | 0.00                 | 0 00                |
| <b>UPPER GALLUP</b>        |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,800.0                    | 0 00            | 0 00        | 5,651.2             | -130.7     | 850.5      | 860 4                 | 0.00                  | 0 00                 | 0.00                |
| 5,900 0                    | 0 00            | 0 00        | 5,751.2             | -130.7     | 850 5      | 860 4                 | 0 00                  | 0.00                 | 0.00                |
| 6,000 0                    | 0 00            | 0.00        | 5,851 2             | -130 7     | 850.5      | 860 4                 | 0 00                  | 0 00                 | 0.00                |
| 6,100.0                    | 0 00            | 0.00        | 5,951.2             | -130 7     | 850.5      | 860 4                 | 0 00                  | 0 00                 | 0 00                |
| 6,200.0                    | 0.00            | 0.00        | 6,051 2             | -130 7     | 850.5      | 860.4                 | 0 00                  | 0 00                 | 0 00                |
| 6,300.0                    | 0.00            | 0.00        | 6,151 2             | -130.7     | 850 5      | 860.4                 | 0.00                  | 0.00                 | 0.00                |
| 6,400 0                    | 0.00            | 0.00        | 6,251.2             | -130.7     | 850.5      | 860.4                 | 0 00                  | 0.00                 | 0 00                |
| 6,500 0                    | 0.00            | 0.00        | 6,351 2             | -130.7     | 850 5      | 860.4                 | 0 00                  | 0.00                 | 0.00                |
| 6,593 8                    | 0 00            | 0 00        | 6,445.0             | -130.7     | 850.5      | 860.4                 | 0 00                  | 0.00                 | 0 00                |
| <b>GREENHORN</b>           |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,600 0                    | 0 00            | 0.00        | 6,451 2             | -130.7     | 850.5      | 860.4                 | 0 00                  | 0.00                 | 0.00                |
| 6,651 8                    | 0 00            | 0 00        | 6,503 0             | -130.7     | 850.5      | 860 4                 | 0 00                  | 0 00                 | 0.00                |
| <b>GRANEROS</b>            |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,700.0                    | 0.00            | 0.00        | 6,551 2             | -130.7     | 850.5      | 860 4                 | 0 00                  | 0.00                 | 0 00                |
| 6,712 8                    | 0 00            | 0.00        | 6,564.0             | -130 7     | 850 5      | 860.4                 | 0.00                  | 0 00                 | 0 00                |

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## Planning Report

Database: EDM Central Planning  
 Company: ConocoPhillips SJB  
 Project: San Juan Basin - New Mexico West Wells  
 Site: Other Named Wells  
 Well: Harrington #9N  
 Wellbore: Wellbore #1  
 Design: Plan #1

Local Co-ordinate Reference: Well Harrington #9N  
 TVD Reference: WELL @ 6051 0ft (Original Well Elev)  
 MD Reference: WELL @ 6051 0ft (Original Well Elev)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature

### 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>TWO WELLS</b>                    |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,771.8                             | 0.00            | 0.00        | 6,623.0             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0.00                |
| <b>PAGUATE</b>                      |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,800.0                             | 0.00            | 0.00        | 6,651.2             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0.00                |
| 6,800.8                             | 0.00            | 0.00        | 6,652.0             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0.00                |
| <b>UPPER CUBERO</b>                 |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,822.8                             | 0.00            | 0.00        | 6,674.0             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0.00                |
| <b>LOWER CUBERO</b>                 |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,873.8                             | 0.00            | 0.00        | 6,725.0             | -130.7     | 850.5      | 860.4                 | 0.00                  | 0.00                 | 0.00                |
| <b>ENCINAL - Harrington #9N PCP</b> |                 |             |                     |            |            |                       |                       |                      |                     |

### Targets

| Target Name         | hit/miss target           | Dip Angle (°) | Dip Dir (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude         | Longitude         |
|---------------------|---------------------------|---------------|-------------|----------|------------|------------|---------------|--------------|------------------|-------------------|
| Harrington #9N ICP  | - plan hits target center | 0.00          | 0.00        | 4,019.0  | -130.7     | 850.5      | 2,010,871.66  | 565,555.69   | 36° 31' 34.427 N | 107° 36' 36.778 W |
| - Point             |                           |               |             |          |            |            |               |              |                  |                   |
| Harrington #9N PCP  | - plan hits target center | 0.00          | 0.00        | 6,725.0  | -130.7     | 850.5      | 2,010,871.67  | 565,555.66   | 36° 31' 34.427 N | 107° 36' 36.778 W |
| - Point             |                           |               |             |          |            |            |               |              |                  |                   |
| Harrington #9N VERT | - plan hits target center | 0.00          | 0.00        | 3,500.0  | -130.7     | 850.5      | 2,010,871.67  | 565,555.66   | 36° 31' 34.427 N | 107° 36' 36.778 W |
| - Point             |                           |               |             |          |            |            |               |              |                  |                   |

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## Planning Report

|                  |                                        |                                     |                                      |
|------------------|----------------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM Central Planning                   | <b>Local Co-ordinate Reference:</b> | Well Harrington #9N                  |
| <b>Company:</b>  | ConocoPhillips SJB                     | <b>TVD Reference:</b>               | WELL @ 6051 0ft (Original Well Elev) |
| <b>Project:</b>  | San Juan Basin - New Mexico West Wells | <b>MD Reference:</b>                | WELL @ 6051 0ft (Original Well Elev) |
| <b>Site:</b>     | Other Named Wells                      | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Harrington #9N                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                            |                                     |                                      |
| <b>Design:</b>   | Plan #1                                |                                     |                                      |

### Formations

| Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Name                 | Lithology | Dip<br>(°) | Dip Direction<br>(°) |
|------------------------|------------------------|----------------------|-----------|------------|----------------------|
| 6,593.8                | 6,445.0                | GREENHORN            |           | 0.00       |                      |
| 5,772.8                | 5,624.0                | UPPER GALLUP         |           | 0.00       |                      |
| 1,823.4                | 1,779.0                | FRUITLAND            |           | 0.00       |                      |
| 4,964.8                | 4,816.0                | MANCOS               |           | 0.00       |                      |
| 3,993.8                | 3,845.0                | MASSIVE CLIFF HOUSE  |           | 0.00       |                      |
| 2,793.3                | 2,672.0                | HUERFANITO BENTONITE |           | 0.00       |                      |
| 2,418.6                | 2,327.0                | LEWIS                |           | 0.00       |                      |
| 6,822.8                | 6,674.0                | LOWER CUBERO         |           | 0.00       |                      |
| 6,800.8                | 6,652.0                | UPPER CUBERO         |           | 0.00       |                      |
| 4,017.8                | 3,869.0                | MENEFEE              |           | 0.00       |                      |
| 6,771.8                | 6,623.0                | PAGUATE              |           | 0.00       |                      |
| 6,712.8                | 6,564.0                | TWO WELLS            |           | 0.00       |                      |
| 1,407.1                | 1,392.0                | OJO ALAMO            |           | 0.00       |                      |
| 2,266.5                | 2,187.0                | PICTURED CLIFFS      |           | 0.00       |                      |
| 3,246.8                | 3,101.0                | CHACRA               |           | 0.00       |                      |
| 6,873.8                | 6,725.0                | ENCINAL              |           | 0.00       |                      |
| 4,640.8                | 4,492.0                | POINT LOOKOUT        |           | 0.00       |                      |
| 6,651.8                | 6,503.0                | GRANEROS             |           | 0.00       |                      |
| 3,823.8                | 3,675.0                | UPPER CLIFF HOUSE    |           | 0.00       |                      |
| 1,562.2                | 1,538.0                | KIRTLAND             |           | 0.00       |                      |

# REFERENCE INFORMATION

WELL @ 6051 0ft (Original Well Elev)  
Ground Elevation 6036.0  
Reference Lat 36° 31' 35 719 N  
Reference Long 107° 36' 47 197 W

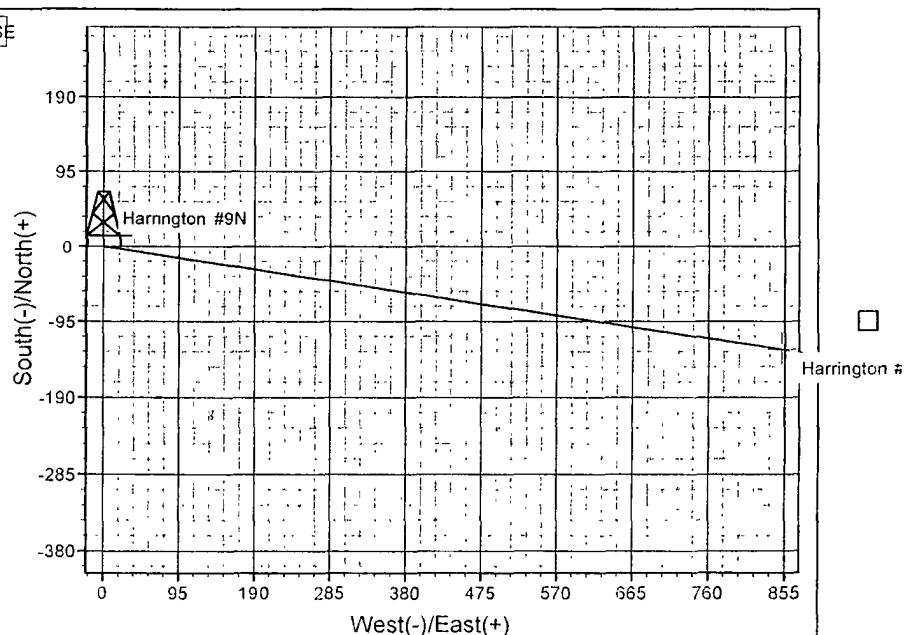
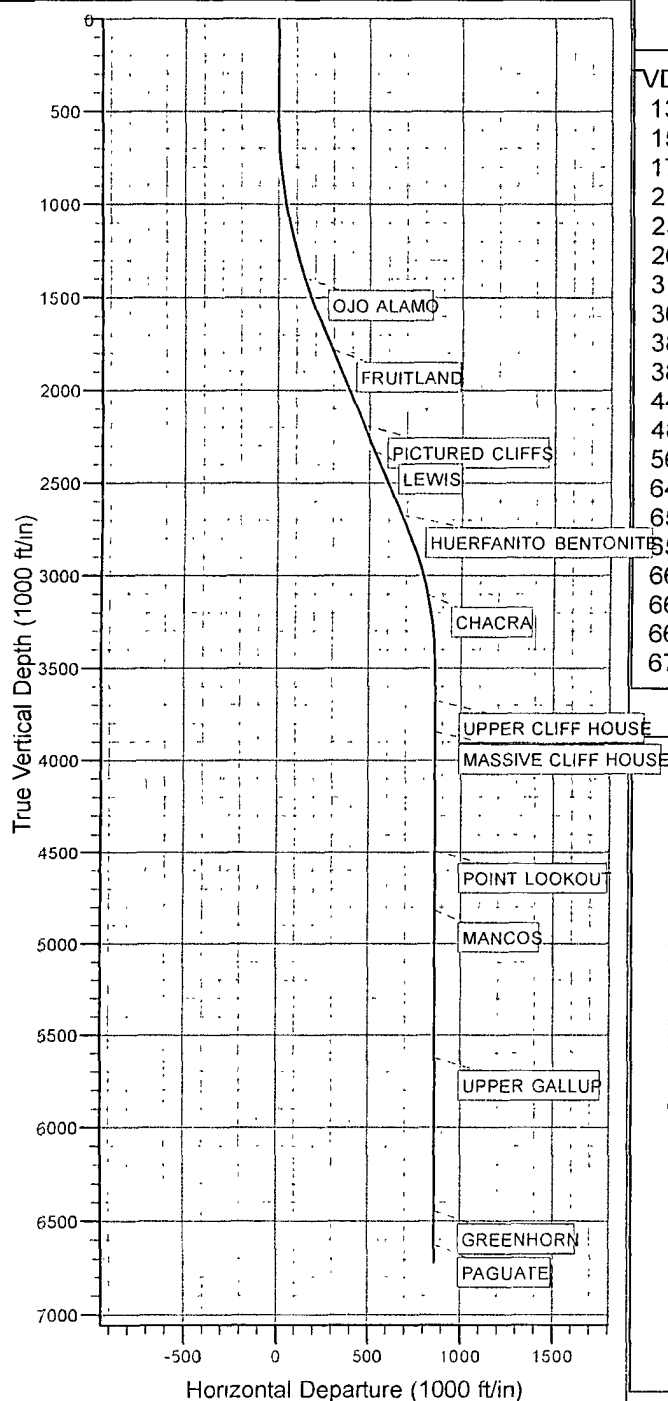
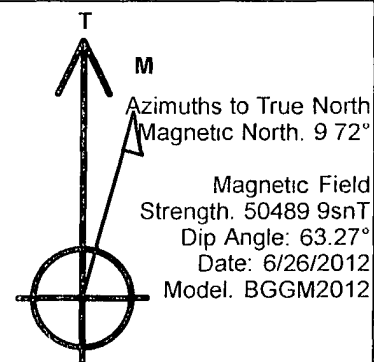
Project: San Juan Basin - New Mexico West V  
Site: Other Named Wells  
Well: Harrington #9N  
Wellbore: Wellbore #1  
Design: Plan #1

## 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   | 500.0  | 0.00  | 0.00  | 500.0  | 0.0    | 0.0   | 0.00 | 0.00   | 0.0   |                     |
| 3   | 1648.6 | 22.97 | 98.74 | 1618.1 | -34.5  | 224.6 | 2.00 | 98.74  | 227.2 |                     |
| 4   | 2883.0 | 22.97 | 98.74 | 2754.6 | -107.7 | 700.8 | 0.00 | 0.00   | 709.0 |                     |
| 5   | 3648.8 | 0.00  | 0.00  | 3500.0 | -130.7 | 850.5 | 3.00 | 180.00 | 860.4 | Harrington #9N VERT |
| 6   | 4167.8 | 0.00  | 0.00  | 4019.0 | -130.7 | 850.5 | 0.00 | 0.00   | 860.4 | Harrington #9N ICP  |
| 7   | 6873.8 | 0.00  | 0.00  | 6725.0 | -130.7 | 850.5 | 0.00 | 0.00   | 860.4 | Harrington #9N PCP  |

## FORMATION TOP DETAILS

| VDPPath | MDPath | Formation       |
|---------|--------|-----------------|
| 1392.0  | 1407.1 | OJO ALAMO       |
| 1538.0  | 1562.2 | KIRTLAND        |
| 1779.0  | 1823.4 | FRUITLAND       |
| 2187.0  | 2266.5 | PICTURED CLIFF  |
| 2327.0  | 2418.6 | LEWIS           |
| 2672.0  | 2793.3 | HUERFANITO BE   |
| 3101.0  | 3246.8 | CHACRA          |
| 3675.0  | 3823.8 | UPPER CLIFF HO  |
| 3845.0  | 3993.8 | MASSIVE CLIFF H |
| 3869.0  | 4017.8 | MENEFEE         |
| 4492.0  | 4640.8 | POINT LOOKOUT   |
| 4816.0  | 4964.8 | MANCOS          |
| 5624.0  | 5772.8 | UPPER GALLUP    |
| 6445.0  | 6593.8 | GREENHORN       |
| 6503.0  | 6651.8 | GRANEROS        |
| 6564.0  | 6712.8 | TWO WELLS       |
| 6623.0  | 6771.8 | PAGUATE         |
| 6652.0  | 6800.8 | UPPER CUBERO    |
| 6674.0  | 6822.8 | LOWER CUBERO    |
| 6725.0  | 6873.8 | ENCINAL         |



**BURLINGTON**  
**RESOURCES**  
Operator Certification

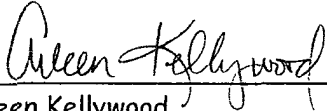
Operator Information:

Burlington Resources Oil & Gas, LP  
P.O. Box 4289  
Farmington, NM 87499-4289  
505-326-9700

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provision of 18 U.S.C. 1001 for the filing of false statements.

Executed this 9<sup>th</sup> day of August, 2012.



Arleen Kellywood  
Staff Regulatory Technician  
On behalf of Kristy Robinson and Doug Elston

The person who can be contacted concerning compliance of the APD is:

Kristy Robinson,  
Regulatory Supervisor  
ConocoPhillips Company  
P.O. Box 4289  
Farmington, NM 87499-4289  
505-326-9739

The Field Representative who can be contacted concerning compliance of the enclosed Surface Use Plan is:

Doug Elston,  
Supt. Capital Projects  
ConocoPhillips Company  
P.O. Box 4289  
Farmington, NM 87499-4289  
505-599-4004

**BURLINGTON RESOURCES OIL & GAS COMPANY LP**

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**HARRINGTON 9N**

**1600' FSL, 1786' FEL**

**SECTION 31, T-27-N, R-07-W, N.M.P.M.**

**RIO ARriba COUNTY, NEW MEXICO**

**NAD 83 LAT.: 36.526598°N LONG.: 107.613719°W**

**NAD 83 LAT.: 36°31'35.7535"N LONG.: 107°36'49.3886"W**

**ELEV.: 6036 NAVD88**

**NO NEW ACCESS**

FROM BLOOMFIELD N.M.INTERSECTION OF HWY 64 & HWY 550 SOUTH:

GO: 1.1 MILES SOUTH ON HWY 550. TURN LEFT (EAST) ON SULLIVAN ROAD, CR #4990.

GO: 15.0 MILES EAST ON CO.ROAD 4990 TO INTERSECTION WITH CR #4450. CONTINUE EAST ON CR #4450.

GO: 14.2 MILES SOUTH ON CR #4450.TURN LEFT (NORTH EAST) AT "CROW CANYON" SIGN.

GO: 0.6 MILES NE, CROSSING LARGO CANYON WASH. TURN RIGHT.

GO: 0.5 MILES SOUTH EAST. TURN RIGHT INTO EXISTING LOCATION FOR HARRINGTON #9 WELL. WELL STAKED 70 FEET SOUTH EAST OF #9 WELL HEAD.