

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

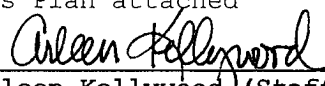
RECEIVED

DEC 08 2011

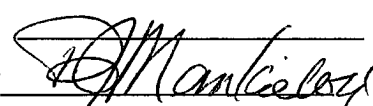
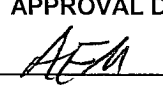
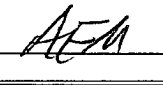
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office

Bureau of Land Management

|                                                                                                                                                                                                                                                                   |                                                                                                                                                                                        |                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1a. Type of Work<br>DRILL                                                                                                                                                                                                                                         | <b>BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS</b> | 5. Lease Number<br>NM-03566<br>Unit Reporting Number                                                                                |
| 1b. Type of Well<br>GAS                                                                                                                                                                                                                                           |                                                                                                                                                                                        | 6. If Indian, All. or Tribe                                                                                                         |
| 2. Operator<br><br>ConocoPhillips<br>Company                                                                                                                                                                                                                      |                                                                                                                                                                                        | 7. Unit Agreement Name                                                                                                              |
| 3. Address & Phone No. of Operator<br>PO Box 4289, Farmington, NM 87499<br><br>(505) 326-9700                                                                                                                                                                     |                                                                                                                                                                                        | 8. Farm or Lease Name<br>Stewart LS<br>9. Well Number<br>8N                                                                         |
| 4. Location of Well<br>Surface: Unit F (SENW), 1599' FNL & 1788' FWL<br>BHL : Unit D (NWNW), 1270' FNL & 1020' FWL<br><br>Surface: Latitude: 36.786411° N (NAD83)<br>Longitude: 107.892720° W<br>BHL : Latitude: 36.787396° N (NAD83)<br>Longitude: 107.895371° W |                                                                                                                                                                                        | 10. Field, Pool, Wildcat<br>Blanco MV/Basin DK<br>11. Sec., Twn, Rge, Mer. (NMPM)<br>Sec. 28, T30N, R10W<br><br>API # 30-045- 35330 |
| 14. Distance in Miles from Nearest Town<br>6.8 miles Aztec                                                                                                                                                                                                        |                                                                                                                                                                                        | 12. County<br>San Juan<br>13. State<br>NM                                                                                           |
| 15. Distance from Proposed Location to Nearest Property or Lease Line<br>1020                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                     |
| 16. Acres in Lease<br>880.380                                                                                                                                                                                                                                     |  H <sub>2</sub> S POTENTIAL EXIST                                                                   | 17. Acres Assigned to Well<br>326.64 W/2                                                                                            |
| 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease<br>319 from Stewart LS 8E (MV)                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                     |
| 19. Proposed Depth<br>7362                                                                                                                                                                                                                                        |                                                                                                                                                                                        | 20. Rotary or Cable Tools<br>Rotary                                                                                                 |
| 21. Elevations (DF, FT, GR, Etc.)<br>6317' GL                                                                                                                                                                                                                     |                                                                                                                                                                                        | 22. Approx. Date Work will Start                                                                                                    |
| 23. Proposed Casing and Cementing Program<br>See Operations Plan attached                                                                                                                                                                                         |                                                                                                                                                                                        |                                                                                                                                     |
| 24. Authorized by: <br>Arleen Kellywood (Staff Regulatory Tech)                                                                                                                |                                                                                                                                                                                        | 12-8-11<br>Date                                                                                                                     |

Hold C104  
for Directional Survey  
and "As Drilled" plat

PERMIT NO.  APPROVAL DATE   
APPROVED BY  TITLE  DATE 1/24/12

Archaeological Report attached  
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 ES-0048 and ES-0085

ca FEB 07 2012

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

NMOCD 

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4

PC

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

# RECEIVED

## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

1301 W. Grand Avenue, Artesia, NM 88210

## District III

1000 Rio Brazos Rd., Aztec, NM 87410

## District IV

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, NM 87505

DEC 08 2011

Form C-102

Revised July 16, 2010

Submit one copy to appropriate

Farmington Field Office

District Office

Bureau of Land Management

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                 |  |                                                      |  |                                                   |                                |
|-------------------------------------------------|--|------------------------------------------------------|--|---------------------------------------------------|--------------------------------|
| <sup>1</sup> API Number<br>30-045- <b>35330</b> |  | <sup>2</sup> Pool Code<br>72319/71599                |  | <sup>3</sup> Pool Name<br>BLANCO MESAVERDE/DAKOTA |                                |
| <sup>4</sup> Property Code<br>38765             |  | <sup>5</sup> Property Name<br>STEWART LS             |  |                                                   | <sup>6</sup> Well Number<br>8N |
| <sup>7</sup> OGRID No.<br>21787                 |  | <sup>8</sup> Operator Name<br>CONOCOPHILLIPS COMPANY |  |                                                   | <sup>9</sup> Elevation<br>6317 |

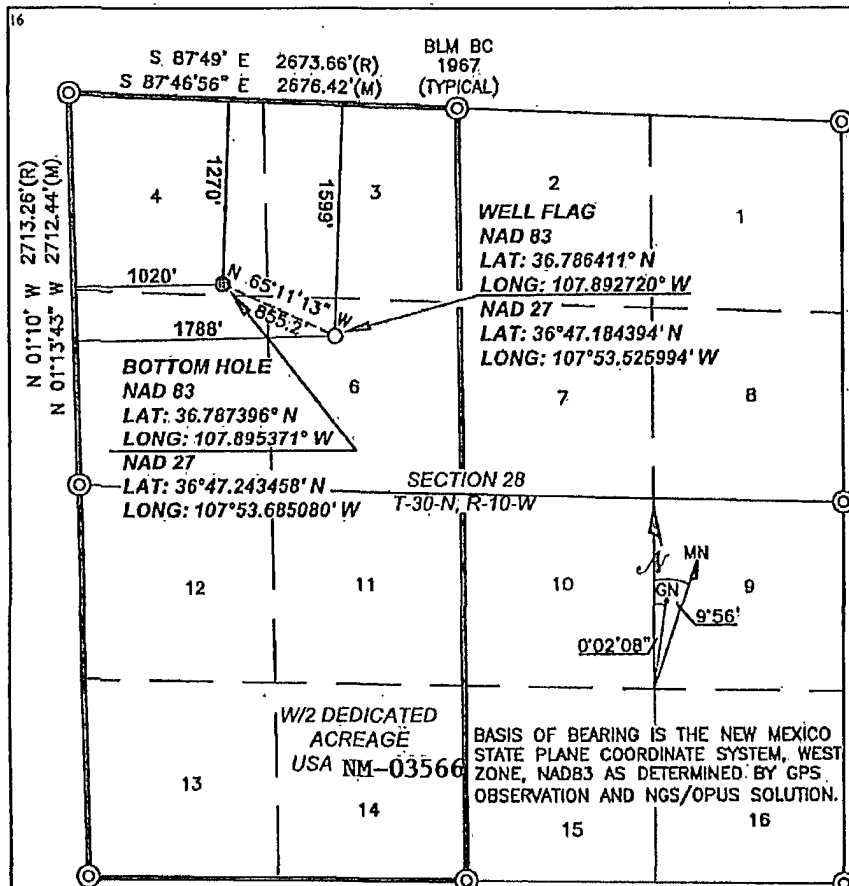
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| F             | 28      | 30-N     | 10-W  | 6       | 1599          | NORTH            | 1788'         | WEST           | SAN JUAN |

## <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   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| D             | 28      | 30-N     | 10-W  | 4       | 1270'         | NORTH            | 1020'         | WEST           | SAN JUAN |

|                                              |                               |                                  |                         |
|----------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>W/2(326.64) | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|----------------------------------------------|-------------------------------|----------------------------------|-------------------------|

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



## <sup>17</sup> 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 order heretofore entered by the division.

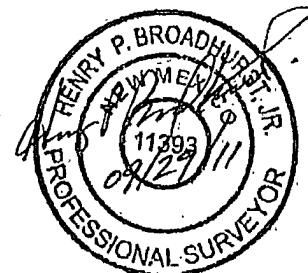
Signature: *Arleen Kellywood* Date: 10/5/11

Printed Name: Arleen Kellywood  
arleen.r.kellywood@conocophillips.com  
E-mail Address:

## <sup>18</sup> 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: 9/21/2011  
Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

STEWART LS 8N

DEVELOPMENT

|                                                             |                        |                             |         |                          |                  |                    |                                                                                                         |
|-------------------------------------------------------------|------------------------|-----------------------------|---------|--------------------------|------------------|--------------------|---------------------------------------------------------------------------------------------------------|
| Lease:                                                      |                        | AFE #: WAN.CDR.1079         |         |                          |                  | AFE \$:            |                                                                                                         |
| Field Name: SAN JUAN                                        |                        | Rig: Aztec Rig 920          |         | State: NM                | County: SAN JUAN |                    | API #:                                                                                                  |
| Geologist:                                                  |                        | Phone:                      |         | Geophysicist:            |                  | Phone:             |                                                                                                         |
| Geoscientist:                                               |                        | Phone:                      |         | Prod. Engineer:          |                  | Phone:             |                                                                                                         |
| Res. Engineer:                                              |                        | Phone:                      |         | Proj. Field Lead:        |                  | Phone:             |                                                                                                         |
| <b>Primary Objective (Zones):</b>                           |                        |                             |         |                          |                  |                    |                                                                                                         |
| Zone                                                        | Zone Name              |                             |         |                          |                  |                    |                                                                                                         |
| R20002                                                      | MESAVERDE(R20002)      |                             |         |                          |                  |                    |                                                                                                         |
| R20076                                                      | DAKOTA(R20076)         |                             |         |                          |                  |                    |                                                                                                         |
| <b>Location: Surface Datum Code: NAD 27 Directional</b>     |                        |                             |         |                          |                  |                    |                                                                                                         |
| Latitude: 36.786406                                         | Longitude: -107.892100 | X:                          | Y:      | Section: 28              |                  | Range: 010W        |                                                                                                         |
| Footage X: 1788 FWL                                         | Footage Y: 1599 FNL    | Elevation: 6317             | (FT)    | Township: 030N           |                  |                    |                                                                                                         |
| Tolerance:                                                  |                        |                             |         |                          |                  |                    |                                                                                                         |
| <b>Location: Bottom Hole Datum Code: NAD 27 Directional</b> |                        |                             |         |                          |                  |                    |                                                                                                         |
| Latitude: 36.787391                                         | Longitude: -107.894751 | X:                          | Y:      | Section: 28              |                  | Range: 010W        |                                                                                                         |
| Footage X: 1020 FWL                                         | Footage Y: 1270 FNL    | Elevation:                  | (FT)    | Township: 030N           |                  |                    |                                                                                                         |
| Tolerance:                                                  |                        |                             |         |                          |                  |                    |                                                                                                         |
| Location Type: Year Round                                   |                        | Start Date (Est.): 1/1/2012 |         | Completion Date:         |                  | Date In Operation: |                                                                                                         |
| Formation Data: Assume KB = 6332 Units = FT                 |                        |                             |         |                          |                  |                    |                                                                                                         |
| Formation Call & Casing Points                              | Depth (TVD in Ft)      | SS (Ft)                     | MD (Ft) | Depletion (Yes/No)       | BHP (PSIG)       | BHT                | Remarks                                                                                                 |
| NACIMIENTO                                                  | 158                    | 6174                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| Surface Casing                                              | 200                    | 6132                        | 200     | <input type="checkbox"/> |                  |                    | 12-1/4 hole. 320' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface. |
| OJO ALAMO                                                   | 1509                   | 4823                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| KIRTLAND                                                    | 1651                   | 4681                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| FRUITLAND                                                   | 2265                   | 4067                        |         | <input type="checkbox"/> |                  |                    | Possible Gas                                                                                            |
| PICTURED CLIFFS                                             | 2819                   | 3513                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| LEWIS                                                       | 2975                   | 3357                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| HUERFANITO BENTONITE                                        | 3578                   | 2754                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| CHACRA                                                      | 3838                   | 2494                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| MASSIVE CLIFF HOUSE                                         | 4497                   | 1835                        |         | <input type="checkbox"/> | 537              |                    | Gas                                                                                                     |
| MENEFEE                                                     | 4636                   | 1696                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| Intermediate Casing                                         | 4786                   | 1546                        | 4926    | <input type="checkbox"/> |                  | 121                | 8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1141 cuft. Circulate cement to surface.          |
| POINT LOOKOUT                                               | 5119                   | 1213                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| MANCOS                                                      | 5509                   | 823                         |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| UPPER GALLUP                                                | 6354                   | -22                         |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| GREENHORN                                                   | 7092                   | -760                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| GRANEROS                                                    | 7148                   | -816                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| TWO WELLS                                                   | 7203                   | -871                        |         | <input type="checkbox"/> | 2141             |                    | Gas                                                                                                     |
| PAGUATE                                                     | 7283                   | -951                        |         | <input type="checkbox"/> |                  |                    |                                                                                                         |
| CUBERO                                                      | 7342                   | -1010                       |         | <input type="checkbox"/> |                  |                    |                                                                                                         |

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

STEWART LS 8N

DEVELOPMENT

|             |      |       |                                |                          |     |                                                                                                                                           |
|-------------|------|-------|--------------------------------|--------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------|
| Total Depth | 7362 | -1030 | <del>7902</del><br><b>7502</b> | <input type="checkbox"/> | 200 | 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 332 cuft. Circulate cement a minimum of 100' inside the previous casing string. |
| ENCINAL     | 7393 | -1061 |                                | <input type="checkbox"/> |     | TD ~20' + T/Cubero for rat hole only                                                                                                      |

## Reference Wells:

| Reference Type | Well Name | Comments |
|----------------|-----------|----------|
|----------------|-----------|----------|

## Logging Program:

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

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

Mud log from ~100' above the Upper Gallup to TD. Mud loggers will call final TD.

Additional Information:

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

# ConocoPhillips or its affiliates

## Planning Report

|                  |                                        |                                     |                                      |
|------------------|----------------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM Central Planning                   | <b>Local Co-ordinate Reference:</b> | Well Stewart LS #8N                  |
| <b>Company:</b>  | ConocoPhillips SJB                     | <b>TVD Reference:</b>               | WELL @ 6332.0ft (Original Well Elev) |
| <b>Project:</b>  | San Juan Basin - New Mexico West Wells | <b>MD Reference:</b>                | WELL @ 6332.0ft (Original Well Elev) |
| <b>Site:</b>     | Other Named Wells                      | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Stewart LS #8N                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Stewart LS #8N                         |                                     |                                      |
| <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> | Mean Sea Level              |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)                                             |                      |                             |
| <b>Map Zone:</b>   | New Mexico West 3003                                                |                      | Using geodetic scale factor |

|             |                   |
|-------------|-------------------|
| <b>Site</b> | Other Named Wells |
|-------------|-------------------|

|                              |          |                     |                 |                          |                   |
|------------------------------|----------|---------------------|-----------------|--------------------------|-------------------|
| <b>Site Position:</b>        |          | <b>Northing:</b>    | 2,108,178.26 ft | <b>Latitude:</b>         | 36° 47' 33.793 N  |
| <b>From:</b>                 | Lat/Long | <b>Easting:</b>     | 643,887.63 ft   | <b>Longitude:</b>        | 107° 20' 30.932 W |
| <b>Position Uncertainty:</b> | 15.0 ft  | <b>Slot Radius:</b> | 6-1/8"          | <b>Grid Convergence:</b> | 0.29 °            |

|                             |                |        |                            |                 |                                     |
|-----------------------------|----------------|--------|----------------------------|-----------------|-------------------------------------|
| <b>Well</b>                 | Stewart LS #8N |        |                            |                 |                                     |
| <b>Well Position</b>        | +N/-S          | 0.0 ft | <b>Northing:</b>           | 2,105,515.49 ft | <b>Latitude:</b> 36° 47' 11.064 N   |
|                             | +E/-W          | 0.0 ft | <b>Easting:</b>            | 482,791.39 ft   | <b>Longitude:</b> 107° 53' 31.560 W |
| <b>Position Uncertainty</b> |                | 3.5 ft | <b>Wellhead Elevation:</b> | ft              | <b>Ground Level:</b> 6,317.0 ft     |

|                 |                |
|-----------------|----------------|
| <b>Wellbore</b> | Stewart LS #8N |
|-----------------|----------------|

| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination<br/>(°)</b> | <b>Dip Angle<br/>(°)</b> | <b>Field Strength<br/>(nT)</b> |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
|                  | BGGM2011          | 11/21/2011         | 9.90                       | 63.47                    | 50,676                         |

|               |         |
|---------------|---------|
| <b>Design</b> | Plan #1 |
|---------------|---------|

|                     |                                             |
|---------------------|---------------------------------------------|
| <b>Audit Notes:</b> |                                             |
| <b>Version:</b>     | <b>Phase:</b> PLAN <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                   | 294.78                   |

| <b>Plan Sections</b>               |                            |                        |                                    |                       |                       |                                      |                                     |                                    |                    |                    |
|------------------------------------|----------------------------|------------------------|------------------------------------|-----------------------|-----------------------|--------------------------------------|-------------------------------------|------------------------------------|--------------------|--------------------|
| <b>Measured<br/>Depth<br/>(ft)</b> | <b>Inclination<br/>(°)</b> | <b>Azimuth<br/>(°)</b> | <b>Vertical<br/>Depth<br/>(ft)</b> | <b>+N/-S<br/>(ft)</b> | <b>+E/-W<br/>(ft)</b> | <b>Dogleg<br/>Rate<br/>(°/100ft)</b> | <b>Build<br/>Rate<br/>(°/100ft)</b> | <b>Turn<br/>Rate<br/>(°/100ft)</b> | <b>TFO<br/>(°)</b> | <b>Target</b>      |
| 0.0                                | 0.00                       | 0.00                   | 0.0                                | 0.0                   | 0.0                   | 0.00                                 | 0.00                                | 0.00                               | 0.00               |                    |
| 1,058.9                            | 21.18                      | 294.78                 | 1,035.0                            | 81.1                  | -175.7                | 2.00                                 | 2.00                                | 0.00                               | 294.78             |                    |
| 2,533.6                            | 21.18                      | 294.78                 | 2,410.0                            | 304.3                 | -659.4                | 0.00                                 | 0.00                                | 0.00                               | 0.00               |                    |
| 3,239.5                            | 0.00                       | 0.00                   | 3,100.0                            | 358.4                 | -776.5                | 3.00                                 | -3.00                               | 0.00                               | 180.00             | Stewart LS #8N Ver |
| 4,925.5                            | 0.00                       | 0.00                   | 4,786.0                            | 358.4                 | -776.5                | 0.00                                 | 0.00                                | 0.00                               | 0.00               | Stewart LS #8N ICF |
| 7,501.5                            | 0.00                       | 0.00                   | 7,362.0                            | 358.4                 | -776.5                | 0.00                                 | 0.00                                | 0.00                               | 0.00               | Stewart LS #8N PC  |

**ConocoPhillips or its affiliates**  
Planning Report

|                  |                                        |                                     |                                      |
|------------------|----------------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM Central Planning                   | <b>Local Co-ordinate Reference:</b> | Well Stewart LS #8N                  |
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| <b>Project:</b>  | San Juan Basin - New Mexico West Wells | <b>MD Reference:</b>                | WELL @ 6332.0ft (Original Well Elev) |
| <b>Site:</b>     | Other Named Wells                      | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Stewart LS #8N                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Stewart LS #8N                         |                                     |                                      |
| <b>Design:</b>   | Plan #1                                |                                     |                                      |

| Planned Survey                       |                 |             |                     |          |          |                       |                       |                      |                     |
|--------------------------------------|-----------------|-------------|---------------------|----------|----------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)                  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | N/S (ft) | E/W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.0                                  | 0.00            | 0.00        | 0.0                 | 0.0      | 0.0      | 0.0                   | 0.00                  | 0.00                 | 0.00                |
| 100.0                                | 2.00            | 294.78      | 100.0               | 0.7      | -1.6     | 1.7                   | 2.00                  | 2.00                 | 0.00                |
| 158.1                                | 3.16            | 294.78      | 158.0               | 1.8      | -4.0     | 4.4                   | 2.00                  | 2.00                 | 0.00                |
| <b>Nacimiento</b>                    |                 |             |                     |          |          |                       |                       |                      |                     |
| 200.0                                | 4.00            | 294.78      | 199.8               | 2.9      | -6.3     | 7.0                   | 2.00                  | 2.00                 | 0.00                |
| 200.2                                | 4.00            | 294.78      | 200.0               | 2.9      | -6.3     | 7.0                   | 0.00                  | 0.00                 | 0.00                |
| <b>Surface</b>                       |                 |             |                     |          |          |                       |                       |                      |                     |
| 300.0                                | 6.00            | 294.78      | 299.5               | 6.6      | -14.2    | 15.7                  | 2.00                  | 2.00                 | 0.00                |
| 400.0                                | 8.00            | 294.78      | 398.7               | 11.7     | -25.3    | 27.9                  | 2.00                  | 2.00                 | 0.00                |
| 500.0                                | 10.00           | 294.78      | 497.5               | 18.2     | -39.5    | 43.5                  | 2.00                  | 2.00                 | 0.00                |
| 600.0                                | 12.00           | 294.78      | 595.6               | 26.2     | -56.8    | 62.6                  | 2.00                  | 2.00                 | 0.00                |
| 700.0                                | 14.00           | 294.78      | 693.1               | 35.7     | -77.3    | 85.1                  | 2.00                  | 2.00                 | 0.00                |
| 800.0                                | 16.00           | 294.78      | 789.6               | 46.5     | -100.8   | 111.0                 | 2.00                  | 2.00                 | 0.00                |
| 900.0                                | 18.00           | 294.78      | 885.3               | 58.8     | -127.3   | 140.2                 | 2.00                  | 2.00                 | 0.00                |
| 1,000.0                              | 20.00           | 294.78      | 979.8               | 72.4     | -156.9   | 172.8                 | 2.00                  | 2.00                 | 0.00                |
| 1,058.9                              | 21.18           | 294.78      | 1,035.0             | 81.1     | -175.7   | 193.5                 | 2.00                  | 2.00                 | 0.00                |
| 1,100.0                              | 21.18           | 294.78      | 1,073.3             | 87.3     | -189.2   | 208.3                 | 0.00                  | 0.00                 | 0.00                |
| 1,200.0                              | 21.18           | 294.78      | 1,166.5             | 102.4    | -222.0   | 244.5                 | 0.00                  | 0.00                 | 0.00                |
| 1,300.0                              | 21.18           | 294.78      | 1,259.8             | 117.6    | -254.8   | 280.6                 | 0.00                  | 0.00                 | 0.00                |
| 1,400.0                              | 21.18           | 294.78      | 1,353.0             | 132.7    | -287.6   | 316.7                 | 0.00                  | 0.00                 | 0.00                |
| 1,500.0                              | 21.18           | 294.78      | 1,446.3             | 147.9    | -320.4   | 352.8                 | 0.00                  | 0.00                 | 0.00                |
| 1,567.3                              | 21.18           | 294.78      | 1,509.0             | 158.1    | -342.4   | 377.1                 | 0.00                  | 0.00                 | 0.00                |
| <b>Ojo Alamo</b>                     |                 |             |                     |          |          |                       |                       |                      |                     |
| 1,600.0                              | 21.18           | 294.78      | 1,539.5             | 163.0    | -353.2   | 389.0                 | 0.00                  | 0.00                 | 0.00                |
| 1,700.0                              | 21.18           | 294.78      | 1,632.8             | 178.1    | -386.0   | 425.1                 | 0.00                  | 0.00                 | 0.00                |
| 1,719.6                              | 21.18           | 294.78      | 1,651.0             | 181.1    | -392.4   | 432.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Kirtland</b>                      |                 |             |                     |          |          |                       |                       |                      |                     |
| 1,800.0                              | 21.18           | 294.78      | 1,726.0             | 193.3    | -418.8   | 461.2                 | 0.00                  | 0.00                 | 0.00                |
| 1,900.0                              | 21.18           | 294.78      | 1,819.2             | 208.4    | -451.6   | 497.3                 | 0.00                  | 0.00                 | 0.00                |
| 2,000.0                              | 21.18           | 294.78      | 1,912.5             | 223.6    | -484.4   | 533.5                 | 0.00                  | 0.00                 | 0.00                |
| 2,100.0                              | 21.18           | 294.78      | 2,005.7             | 238.7    | -517.2   | 569.6                 | 0.00                  | 0.00                 | 0.00                |
| 2,200.0                              | 21.18           | 294.78      | 2,099.0             | 253.8    | -550.0   | 605.7                 | 0.00                  | 0.00                 | 0.00                |
| 2,300.0                              | 21.18           | 294.78      | 2,192.2             | 269.0    | -582.8   | 641.9                 | 0.00                  | 0.00                 | 0.00                |
| 2,378.0                              | 21.18           | 294.78      | 2,265.0             | 280.8    | -608.4   | 670.0                 | 0.00                  | 0.00                 | 0.00                |
| <b>Fruitland</b>                     |                 |             |                     |          |          |                       |                       |                      |                     |
| 2,400.0                              | 21.18           | 294.78      | 2,285.5             | 284.1    | -615.6   | 678.0                 | 0.00                  | 0.00                 | 0.00                |
| 2,500.0                              | 21.18           | 294.78      | 2,378.7             | 299.3    | -648.4   | 714.1                 | 0.00                  | 0.00                 | 0.00                |
| 2,533.6                              | 21.18           | 294.78      | 2,410.0             | 304.3    | -659.4   | 726.2                 | 0.00                  | 0.00                 | 0.00                |
| 2,600.0                              | 19.19           | 294.78      | 2,472.4             | 313.9    | -680.2   | 749.1                 | 3.00                  | -3.00                | 0.00                |
| 2,700.0                              | 16.19           | 294.78      | 2,567.6             | 326.7    | -707.8   | 779.5                 | 3.00                  | -3.00                | 0.00                |
| 2,800.0                              | 13.19           | 294.78      | 2,664.4             | 337.3    | -730.8   | 804.9                 | 3.00                  | -3.00                | 0.00                |
| 2,900.0                              | 10.19           | 294.78      | 2,762.3             | 345.8    | -749.2   | 825.1                 | 3.00                  | -3.00                | 0.00                |
| 2,957.5                              | 8.46            | 294.78      | 2,819.0             | 349.7    | -757.6   | 834.4                 | 3.00                  | -3.00                | 0.00                |
| <b>Pictured Cliffs</b>               |                 |             |                     |          |          |                       |                       |                      |                     |
| 3,000.0                              | 7.19            | 294.78      | 2,861.1             | 352.1    | -762.9   | 840.2                 | 3.00                  | -3.00                | 0.00                |
| 3,100.0                              | 4.19            | 294.78      | 2,960.6             | 356.3    | -771.9   | 850.1                 | 3.00                  | -3.00                | 0.00                |
| 3,114.4                              | 3.75            | 294.78      | 2,975.0             | 356.7    | -772.8   | 851.1                 | 3.00                  | -3.00                | 0.00                |
| <b>Lewis</b>                         |                 |             |                     |          |          |                       |                       |                      |                     |
| 3,200.0                              | 1.19            | 294.78      | 3,060.5             | 358.2    | -776.1   | 854.8                 | 3.00                  | -3.00                | 0.00                |
| 3,239.5                              | 0.00            | 0.00        | 3,100.0             | 358.4    | -776.5   | 855.2                 | 3.00                  | -3.00                | 0.00                |
| <b>Stewart LS #8N Vertical Point</b> |                 |             |                     |          |          |                       |                       |                      |                     |
| 3,300.0                              | 0.00            | 0.00        | 3,160.5             | 358.4    | -776.5   | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 3,400.0                              | 0.00            | 0.00        | 3,260.5             | 358.4    | -776.5   | 855.2                 | 0.00                  | 0.00                 | 0.00                |

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## Planning Report

|                  |                                        |                                     |                                      |
|------------------|----------------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM Central Planning                   | <b>Local Co-ordinate Reference:</b> | Well Stewart LS #8N                  |
| <b>Company:</b>  | ConocoPhillips SJB                     | <b>TVD Reference:</b>               | WELL @ 6332.0ft (Original Well Elev) |
| <b>Project:</b>  | San Juan Basin - New Mexico West Wells | <b>MD Reference:</b>                | WELL @ 6332.0ft (Original Well Elev) |
| <b>Site:</b>     | Other Named Wells                      | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Stewart LS #8N                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Stewart LS #8N                         |                                     |                                      |
| <b>Design:</b>   | Plan #1                                |                                     |                                      |

| Planned Survey                           |                 |             |                     |            |            |                       |                       |                      |                     |
|------------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)                      | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 3,500.0                                  | 0.00            | 0.00        | 3,360.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 3,600.0                                  | 0.00            | 0.00        | 3,460.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 3,700.0                                  | 0.00            | 0.00        | 3,560.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 3,717.5                                  | 0.00            | 0.00        | 3,578.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Huerfanito Bentonite</b>              |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,800.0                                  | 0.00            | 0.00        | 3,660.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 3,900.0                                  | 0.00            | 0.00        | 3,760.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 3,977.5                                  | 0.00            | 0.00        | 3,838.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Chacra</b>                            |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,000.0                                  | 0.00            | 0.00        | 3,860.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 4,100.0                                  | 0.00            | 0.00        | 3,960.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 4,200.0                                  | 0.00            | 0.00        | 4,060.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 4,300.0                                  | 0.00            | 0.00        | 4,160.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 4,400.0                                  | 0.00            | 0.00        | 4,260.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 4,500.0                                  | 0.00            | 0.00        | 4,360.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 4,600.0                                  | 0.00            | 0.00        | 4,460.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 4,636.5                                  | 0.00            | 0.00        | 4,497.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Massive Cliff House</b>               |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,700.0                                  | 0.00            | 0.00        | 4,560.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 4,775.5                                  | 0.00            | 0.00        | 4,636.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Menefee</b>                           |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,800.0                                  | 0.00            | 0.00        | 4,660.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 4,900.0                                  | 0.00            | 0.00        | 4,760.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 4,925.5                                  | 0.00            | 0.00        | 4,786.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Intermediate - Stewart LS #8N ICP</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,000.0                                  | 0.00            | 0.00        | 4,860.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 5,100.0                                  | 0.00            | 0.00        | 4,960.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 5,200.0                                  | 0.00            | 0.00        | 5,060.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 5,258.5                                  | 0.00            | 0.00        | 5,119.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Pt. Lookout</b>                       |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,300.0                                  | 0.00            | 0.00        | 5,160.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 5,400.0                                  | 0.00            | 0.00        | 5,260.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 5,500.0                                  | 0.00            | 0.00        | 5,360.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 5,600.0                                  | 0.00            | 0.00        | 5,460.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 5,648.5                                  | 0.00            | 0.00        | 5,509.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Mancos Shale</b>                      |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,700.0                                  | 0.00            | 0.00        | 5,560.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 5,800.0                                  | 0.00            | 0.00        | 5,660.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 5,900.0                                  | 0.00            | 0.00        | 5,760.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,000.0                                  | 0.00            | 0.00        | 5,860.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,100.0                                  | 0.00            | 0.00        | 5,960.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,200.0                                  | 0.00            | 0.00        | 6,060.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,300.0                                  | 0.00            | 0.00        | 6,160.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,400.0                                  | 0.00            | 0.00        | 6,260.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,493.5                                  | 0.00            | 0.00        | 6,354.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Gallup</b>                            |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,500.0                                  | 0.00            | 0.00        | 6,360.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,600.0                                  | 0.00            | 0.00        | 6,460.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,700.0                                  | 0.00            | 0.00        | 6,560.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,800.0                                  | 0.00            | 0.00        | 6,660.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 6,900.0                                  | 0.00            | 0.00        | 6,760.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 7,000.0                                  | 0.00            | 0.00        | 6,860.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |

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## Planning Report

|                  |                                        |                                     |                                      |
|------------------|----------------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM Central Planning                   | <b>Local Co-ordinate Reference:</b> | Well Stewart LS #8N                  |
| <b>Company:</b>  | ConocoPhillips SJB                     | <b>TVD Reference:</b>               | WELL @ 6332.0ft (Original Well Elev) |
| <b>Project:</b>  | San Juan Basin - New Mexico West Wells | <b>MD Reference:</b>                | WELL @ 6332.0ft (Original Well Elev) |
| <b>Site:</b>     | Other Named Wells                      | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Stewart LS #8N                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Stewart LS #8N                         |                                     |                                      |
| <b>Design:</b>   | Plan #1                                |                                     |                                      |

| Planned Survey                  |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)             | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 7,100.0                         | 0.00            | 0.00        | 6,960.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 7,200.0                         | 0.00            | 0.00        | 7,060.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 7,231.5                         | 0.00            | 0.00        | 7,092.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Greenhorn</b>                |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,287.5                         | 0.00            | 0.00        | 7,148.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Graneros</b>                 |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,300.0                         | 0.00            | 0.00        | 7,160.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 7,342.5                         | 0.00            | 0.00        | 7,203.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Two Wells</b>                |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,400.0                         | 0.00            | 0.00        | 7,260.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 7,422.5                         | 0.00            | 0.00        | 7,283.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Pauguate</b>                 |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,481.5                         | 0.00            | 0.00        | 7,342.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| <b>Cubero</b>                   |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,500.0                         | 0.00            | 0.00        | 7,360.5             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| 7,501.5                         | 0.00            | 0.00        | 7,362.0             | 358.4      | -776.5     | 855.2                 | 0.00                  | 0.00                 | 0.00                |
| Production - Stewart LS #8N PCP |                 |             |                     |            |            |                       |                       |                      |                     |

| Targets               |                           |               |             |          |            |            |               |              |                                    |
|-----------------------|---------------------------|---------------|-------------|----------|------------|------------|---------------|--------------|------------------------------------|
| Target Name           | hit/miss target           | Dip Angle (°) | Dip Dir (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude Longitude                 |
| Stewart LS #8N ICP    | - plan hits target center | 0.00          | 0.00        | 4,786.0  | 358.4      | -776.5     | 2,105,874.34  | 482,015.20   | 36° 47' 14.607 N 107° 53' 41.105 W |
| - Point               |                           |               |             |          |            |            |               |              |                                    |
| Stewart LS #8N Vertic | - plan hits target center | 0.00          | 0.00        | 3,100.0  | 358.4      | -776.5     | 2,105,874.33  | 482,015.17   | 36° 47' 14.607 N 107° 53' 41.105 W |
| - Point               |                           |               |             |          |            |            |               |              |                                    |
| Stewart LS #8N PCP    | - plan hits target center | 0.00          | 0.00        | 7,362.0  | 358.4      | -776.5     | 2,105,874.33  | 482,015.17   | 36° 47' 14.607 N 107° 53' 41.105 W |
| - Point               |                           |               |             |          |            |            |               |              |                                    |

| Casing Points       |                     |              |                      |                    |  |
|---------------------|---------------------|--------------|----------------------|--------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name         | Casing Diameter (in) | Hole Diameter (in) |  |
| 200.2               | 200.0               | Surface      | 9-5/8                | 12-1/4             |  |
| 4,925.5             | 4,786.0             | Intermediate | 7                    | 8-3/4              |  |
| 7,501.5             | 7,362.0             | Production   | 4-1/2                | 6-1/4              |  |

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## Planning Report

|                  |                                        |                                     |                                      |
|------------------|----------------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM Central Planning                   | <b>Local Co-ordinate Reference:</b> | Well Stewart LS #8N                  |
| <b>Company:</b>  | ConocoPhillips SJBU                    | <b>TVD Reference:</b>               | WELL @ 6332.0ft (Original Well Elev) |
| <b>Project:</b>  | San Juan Basin - New Mexico West Wells | <b>MD Reference:</b>                | WELL @ 6332.0ft (Original Well Elev) |
| <b>Site:</b>     | Other Named Wells                      | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | Stewart LS #8N                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Stewart LS #8N                         |                                     |                                      |
| <b>Design:</b>   | Plan #1                                |                                     |                                      |

| Formations          |                     |                      |           |         |                   |
|---------------------|---------------------|----------------------|-----------|---------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Name                 | Lithology | Dip (°) | Dip Direction (°) |
| 3,717.5             | 3,578.0             | Huerfanito Bentonite |           | 0.00    |                   |
| 158.1               | 158.0               | Nacimiento           |           | 0.00    |                   |
| 1,567.3             | 1,509.0             | Ojo Alamo            |           | 0.00    |                   |
| 7,481.5             | 7,342.0             | Cubero               |           | 0.00    |                   |
| 7,231.5             | 7,092.0             | Greenhorn            |           | 0.00    |                   |
| 4,636.5             | 4,497.0             | Massive Cliff House  |           | 0.00    |                   |
| 1,719.6             | 1,651.0             | Kirtland             |           | 0.00    |                   |
| 7,287.5             | 7,148.0             | Graneros             |           | 0.00    |                   |
| 2,378.0             | 2,265.0             | Fruitland            |           | 0.00    |                   |
| 3,114.4             | 2,975.0             | Lewis                |           | 0.00    |                   |
| 7,342.5             | 7,203.0             | Two Wells            |           | 0.00    |                   |
| 4,775.5             | 4,636.0             | Menefee              |           | 0.00    |                   |
| 7,422.5             | 7,283.0             | Pauguate             |           | 0.00    |                   |
| 3,977.5             | 3,838.0             | Chacra               |           | 0.00    |                   |
| 5,258.5             | 5,119.0             | Pt. Lookout          |           | 0.00    |                   |
| 2,957.5             | 2,819.0             | Pictured Cliffs      |           | 0.00    |                   |
| 5,648.5             | 5,509.0             | Mancos Shale         |           | 0.00    |                   |
| 6,493.5             | 6,354.0             | Gallup               |           | 0.00    |                   |
|                     | 7,393.0             | Encinal              |           | 0.00    |                   |

# REFERENCE INFORMATION

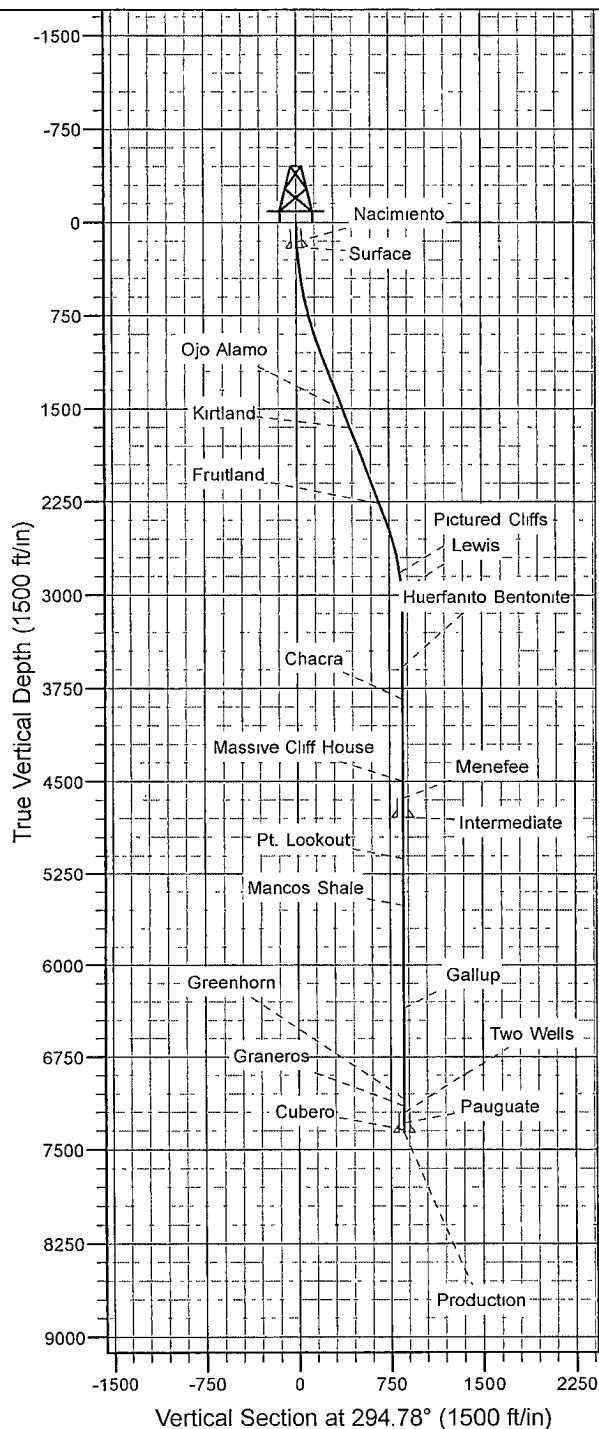
WELL @ 6332.0ft (Original Well Elev)  
Ground Elevation 6317.0  
Reference Lat: 36° 47' 11.064 N  
Reference Long: 107° 53' 31.560 W

Project: San Juan Basin - New Mexico West W  
Site: Other Named Wells  
Well: Stewart LS #8N  
Wellbore: Stewart LS #8N  
Design: Plan #1



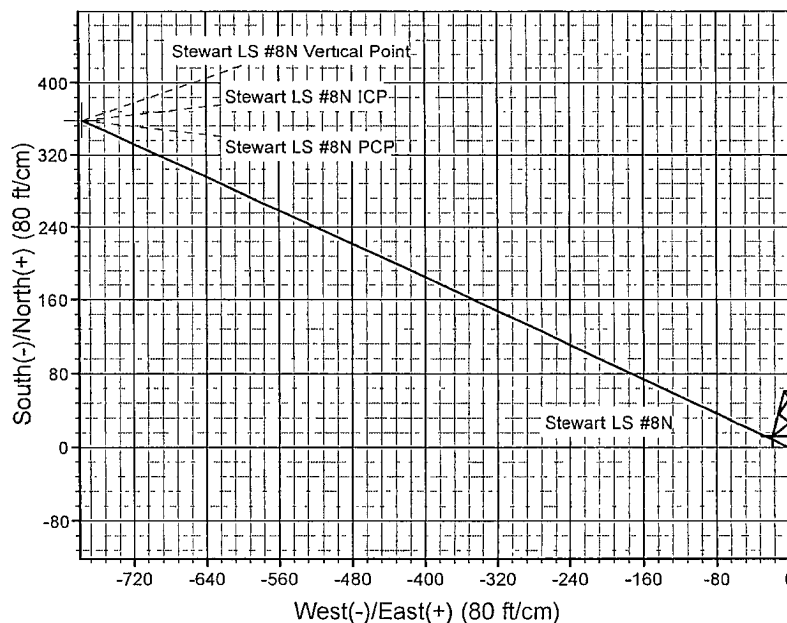
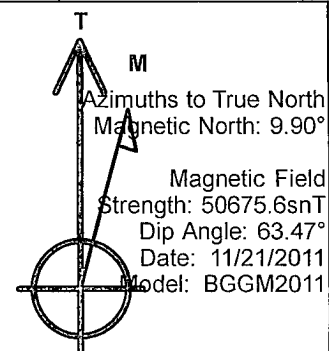
## SECTION DETAILS

| 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   | 1058.9 | 21.18 | 294.78 | 1035.0 | 81.1  | -175.7 | 2.00 | 294.78 | 193.5 |                               |
| 3   | 2533.6 | 21.18 | 294.78 | 2410.0 | 304.3 | -659.4 | 0.00 | 0.00   | 726.2 |                               |
| 4   | 3239.5 | 0.00  | 0.00   | 3100.0 | 358.4 | -776.5 | 3.00 | 180.00 | 855.2 | Stewart LS #8N Vertical Point |
| 5   | 4925.5 | 0.00  | 0.00   | 4786.0 | 358.4 | -776.5 | 0.00 | 0.00   | 855.2 | Stewart LS #8N ICP            |
| 6   | 7501.5 | 0.00  | 0.00   | 7362.0 | 358.4 | -776.5 | 0.00 | 0.00   | 855.2 | Stewart LS #8N PCP            |



## FORMATION TOP DETAILS

| TVDPath | MDPath | Formation            |
|---------|--------|----------------------|
| 158.0   | 158.1  | Nacimiento           |
| 1509.0  | 1567.3 | Ojo Alamo            |
| 1651.0  | 1719.6 | Kirtland             |
| 2265.0  | 2378.0 | Fruitland            |
| 2819.0  | 2957.5 | Pictured Cliffs      |
| 2975.0  | 3114.4 | Lewis                |
| 3578.0  | 3717.5 | Huerfanito Bentonite |
| 3838.0  | 3977.5 | Chacra               |
| 4497.0  | 4636.5 | Massive Cliff House  |
| 4636.0  | 4775.5 | Menefee              |
| 5119.0  | 5258.5 | Pt. Lookout          |
| 5509.0  | 5648.5 | Mancos Shale         |
| 6354.0  | 6493.5 | Gallup               |
| 7092.0  | 7231.5 | Greenhorn            |
| 7148.0  | 7287.5 | Graneros             |
| 7203.0  | 7342.5 | Two Wells            |
| 7283.0  | 7422.5 | Panguate             |
| 7342.0  | 7481.5 | Cubero               |





**CONOCOPHILLIPS COMPANY**  
**STEWART LS 8N**  
**1599' FNL, 1788' FWL**  
**SECTION 28, T-30-N, R-10-W, N.M.P.M.,**  
**SAN JUAN COUNTY, NEW MEXICO**  
**NAD 83 LAT.: 36.786411139°N LONG.: 107.892719972° W**  
**GROUND ELEV.: 6317**  
**CO-LOCATED N. OF: BP AMERICA STEWART LS 8M**  
**184' NEW ACCESS '**

**FROM AZTEC, NEW MEXICO, INTERSECTION OF HWY. 550 AND HWY. 173 TOWARD NAVAJO DAM.**

- GO 1.0 MILES EAST ON HWY 173. TURN LEFT AT NEW INTERSECTION, AND CONTINUE ON STATE HWY 173.
- GO 3.1 MILES EAST ON HWY 173. TURN RIGHT ON HWY 575.
- GO 2.2 MILES SOUTH ON HWY 575. TURN LEFT ON DIRT ROAD.
- GO 0.1-1/2 MILES NORTH EAST. TURN LEFT, JUST PAST METER SHED ON LEFT
- GO 0.4 MILES NORTH TO THE ENTRANCE TO WELL LOCATION, BP AMERICA, STEWART LS 8E. BEGIN 184 FT. NEW ACCESS ON LEFT, NORTH SIDE OF ROAD, JUST BEFORE LOCATION.