

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                 |                                                      |                                            |
|-------------------------------------------------|------------------------------------------------------|--------------------------------------------|
| <sup>1</sup> API Number<br>30-025- <b>42103</b> | <sup>2</sup> Pool Code<br>62160                      | <sup>3</sup> Pool Name<br>Vacuum; Glorieta |
| <sup>4</sup> Property Code<br>31257             | <sup>5</sup> Property Name<br>VGEU                   | <sup>6</sup> Well Number<br>123H           |
| <sup>7</sup> OGRID No.<br>217817                | <sup>8</sup> Operator Name<br>ConocoPhillips Company | <sup>9</sup> Elevation<br>3939.1'          |

<sup>10</sup> Surface Location

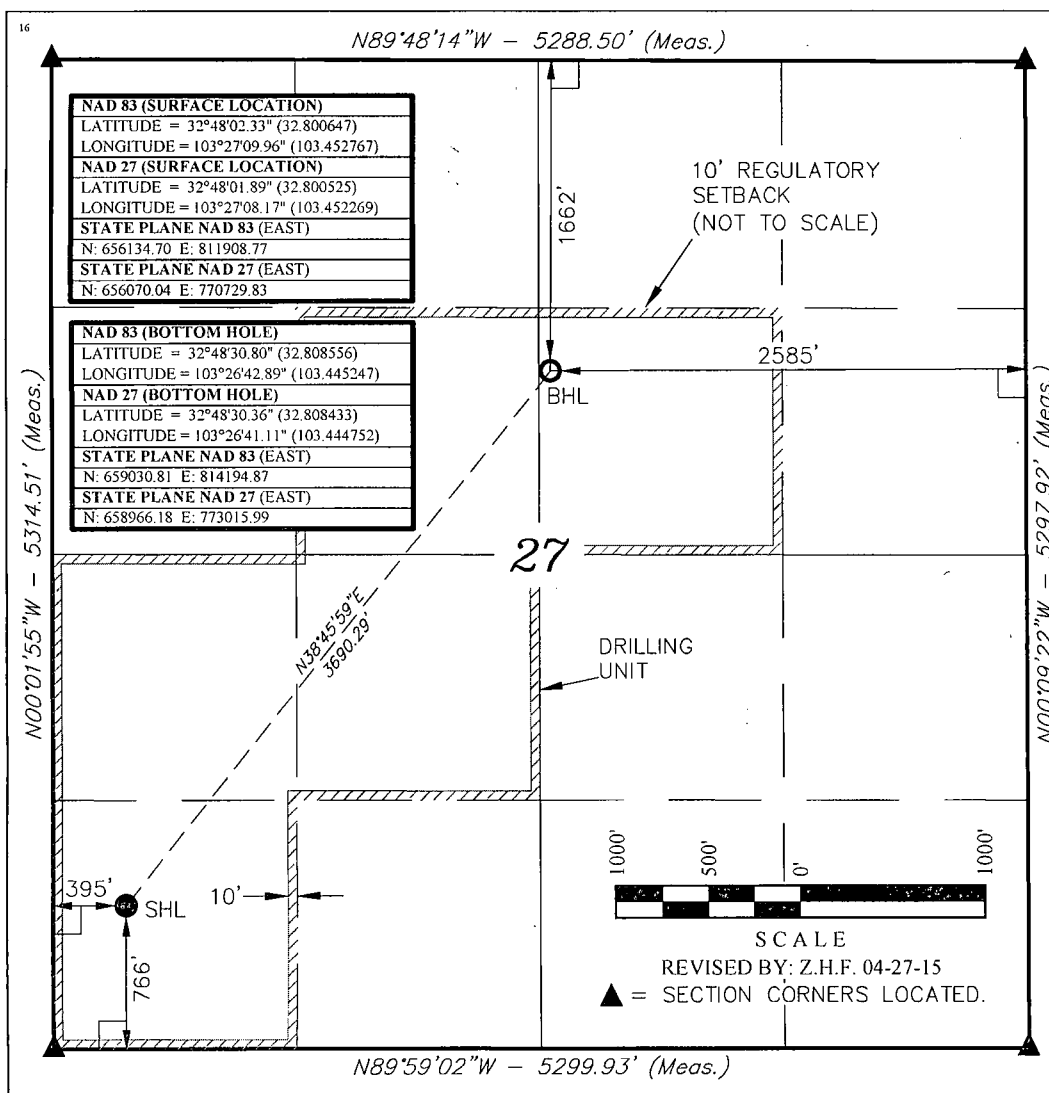
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M             | 27      | 17S      | 35E   |         | 766           | SOUTH            | 395           | WEST           | LEA    |

<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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| G             | 27      | 17S      | 35E   |         | 1662          | NORTH            | 2585          | EAST           | LEA    |

|                                      |                               |                                  |                         |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>160 | <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.

Susan B. Maunder 7/14/15  
Signature Date

Susan B. Maunder  
Printed Name

Susan.B.Maunder@cop.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.

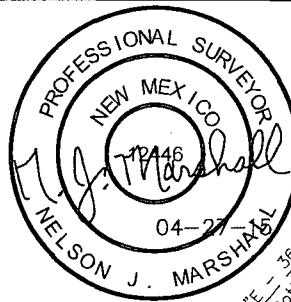
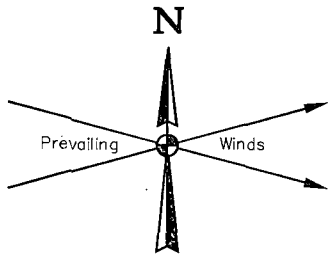
July 09, 2014

Date of Survey  
Signature and Seal of Professional Surveyor:



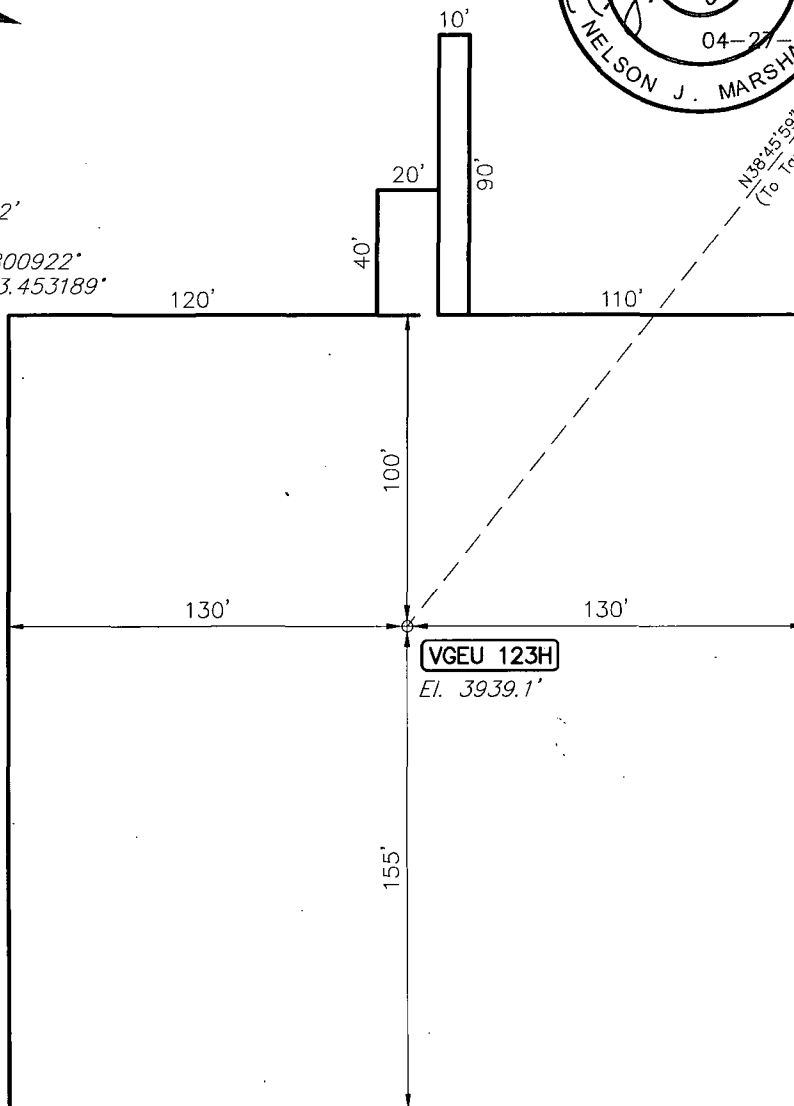
Certificate Number:

AUG 11 2015



El. 3939.2'  
(NAD 83)  
Lat: 32.800922°  
Long: 103.453189°

El. 3939.5'  
(NAD 83)  
Lat: 32.800922°  
Long: 103.452342°



El. 3939.1'  
(NAD 83)  
Lat: 32.800222°  
Long: 103.453189°

El. 3939.8'  
(NAD 83)  
Lat: 32.800222°  
Long: 103.452342°

ELEV. UNGRADED GROUND AT LOC. STAKE = 3939.1'

NOTES:

ConocoPhillips Company

VGEU 123H  
SECTION 27, T17S, R35E, N.M.P.M.  
766' FSL 395' FWL



UELS, LLC  
Corporate Office \* 85 South 200 East  
Vernal, UT 84078 \* (435) 789-1017

|                 |                          |
|-----------------|--------------------------|
| DRAWN BY: J.J.  | DATE DRAWN: 07-09-14     |
| SCALE: 1" = 60' | REVISED: 04-27-15 Z.H.F. |
| LOCATION LAYOUT | FIGURE #1                |



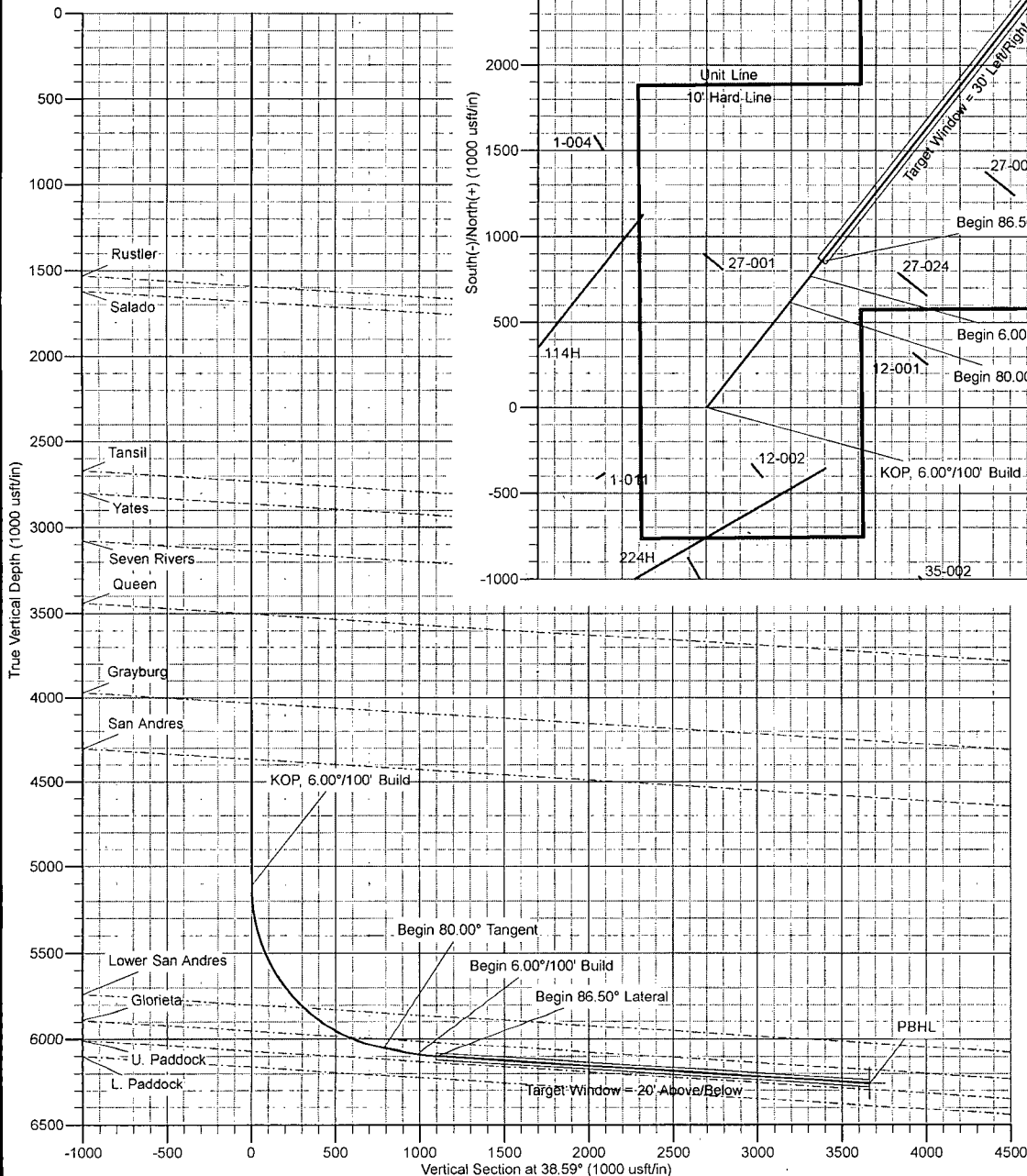
Azimuths to Grid North  
True North: -0.48°  
Magnetic North: 6.69°  
Magnetic Field  
Strength: 48551.7nT  
Dip Angle: 60.70°  
Date: 09/01/2015  
Model: BGGM2015

ANNOTATIONS

| MD      | Inc   | Azi   | TVD     | +N/-S   | +E/-W   | VSec    | Departure | Annotation             |
|---------|-------|-------|---------|---------|---------|---------|-----------|------------------------|
| 5112.13 | 0.00  | 0.00  | 5112.13 | 0.00    | 0.00    | 0.00    | 0.00      | KOP, 6.00°/100' Build  |
| 6445.46 | 80.00 | 38.59 | 6052.55 | 616.79  | 492.20  | 789.11  | 789.11    | Begin 80.00° Tangent   |
| 6645.46 | 80.00 | 38.59 | 6087.28 | 770.74  | 615.05  | 986.07  | 986.07    | Begin 6.00°/100' Build |
| 6753.72 | 86.50 | 38.59 | 6100.00 | 854.73  | 682.08  | 1093.52 | 1093.52   | Begin 86.50° Lateral   |
| 9330.37 | 86.50 | 38.59 | 6257.50 | 2865.00 | 2286.16 | 3665.34 | 3665.34   | PBHL                   |

US State Plane 1927 (Exact solution)  
New Mexico East 3001

Created By: HLH  
Date: 16:19, June 26 2015  
Plan: Design #6





## **ConocoPhillips**

**Lea County, New Mexico (NAD 27)**

**VGEU**

**123H**

**Wellbore #1**

**Plan: Design #6**

## **Standard Planning Report**

**26 June, 2015**



|           |                                 |                              |                                    |
|-----------|---------------------------------|------------------------------|------------------------------------|
| Database: | EDM 5000.1 Conroe DB            | Local Co-ordinate Reference: | Well 123H                          |
| Company:  | ConocoPhillips                  | TVD Reference:               | WELL @ 3953.00usft (Precision 194) |
| Project:  | Lea County, New Mexico (NAD 27) | MD Reference:                | WELL @ 3953.00usft (Precision 194) |
| Site:     | VGEU                            | North Reference:             | Grid                               |
| Well:     | 123H                            | Survey Calculation Method:   | Minimum Curvature                  |
| Wellbore: | Wellbore #1                     |                              |                                    |
| Design:   | Design #6                       |                              |                                    |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Lea County, New Mexico (NAD 27)      |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

|                      |           |                 |                                   |
|----------------------|-----------|-----------------|-----------------------------------|
| Well:                | 123H      |                 |                                   |
| Well Position        | +N/-S     | 656,070.04 usft | Northing: 656,070.04 usft         |
|                      | +E/-W     | 770,729.83 usft | Easting: 770,729.83 usft          |
| Position Uncertainty | 0.00 usft |                 | Wellhead Elevation: 3,939.00 usft |

|          |             |  |  |
|----------|-------------|--|--|
| Wellbore | Wellbore #1 |  |  |
|----------|-------------|--|--|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | BGGM2015   | 09/01/15    | 7.17            | 60.70         | 48,552              |

|        |           |  |  |
|--------|-----------|--|--|
| Design | Design #6 |  |  |
|--------|-----------|--|--|

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.00

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|-------------------|-------------------------|--------------|--------------|---------------|
|                   | 0.00                    | 0.00         | 0.00         | 38.59         |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                   |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|-------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target            |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 5,112.13              | 0.00            | 0.00        | 5,112.13              | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 6,445.46              | 80.00           | 38.59       | 6,052.55              | 616.79       | 492.20       | 6.00                    | 6.00                   | 0.00                  | 38.59   |                   |
| 6,645.46              | 80.00           | 38.59       | 6,087.28              | 770.74       | 615.05       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 6,753.72              | 86.50           | 38.59       | 6,100.00              | 854.73       | 682.08       | 6.00                    | 6.00                   | 0.00                  | -0.02   |                   |
| 9,330.37              | 86.50           | 38.59       | 6,257.50              | 2,865.00     | 2,286.16     | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL v6 - VGEU 1: |

|           |                                 |                              |                                    |
|-----------|---------------------------------|------------------------------|------------------------------------|
| Database: | EDM 5000.1 Conroe DB            | Local Co-ordinate Reference: | Well 123H                          |
| Company:  | ConocoPhillips                  | TVD Reference:               | WELL @ 3953.00usft (Precision 194) |
| Project:  | Lea County, New Mexico (NAD 27) | MD Reference:                | WELL @ 3953.00usft (Precision 194) |
| Site:     | VGEU                            | North Reference:             | Grid                               |
| Well:     | 123H                            | Survey Calculation Method:   | Minimum Curvature                  |
| Wellbore: | Wellbore #1                     |                              |                                    |
| Design:   | Design #6                       |                              |                                    |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 100.00                | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 200.00                | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 300.00                | 0.00            | 0.00        | 300.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 400.00                | 0.00            | 0.00        | 400.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 500.00                | 0.00            | 0.00        | 500.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 600.00                | 0.00            | 0.00        | 600.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 700.00                | 0.00            | 0.00        | 700.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 800.00                | 0.00            | 0.00        | 800.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 900.00                | 0.00            | 0.00        | 900.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,000.00              | 0.00            | 0.00        | 1,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,100.00              | 0.00            | 0.00        | 1,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,200.00              | 0.00            | 0.00        | 1,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00              | 0.00            | 0.00        | 1,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00              | 0.00            | 0.00        | 1,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00              | 0.00            | 0.00        | 1,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,593.00              | 0.00            | 0.00        | 1,593.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Rustler</b>        |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,600.00              | 0.00            | 0.00        | 1,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,685.00              | 0.00            | 0.00        | 1,685.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Salado</b>         |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,700.00              | 0.00            | 0.00        | 1,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00              | 0.00            | 0.00        | 1,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00              | 0.00            | 0.00        | 1,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00              | 0.00            | 0.00        | 2,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00              | 0.00            | 0.00        | 2,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00              | 0.00            | 0.00        | 2,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00              | 0.00            | 0.00        | 2,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00              | 0.00            | 0.00        | 2,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00              | 0.00            | 0.00        | 2,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00              | 0.00            | 0.00        | 2,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00              | 0.00            | 0.00        | 2,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,733.00              | 0.00            | 0.00        | 2,733.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Tansil</b>         |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,800.00              | 0.00            | 0.00        | 2,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,864.00              | 0.00            | 0.00        | 2,864.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Yates</b>          |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,900.00              | 0.00            | 0.00        | 2,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00              | 0.00            | 0.00        | 3,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00              | 0.00            | 0.00        | 3,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,140.00              | 0.00            | 0.00        | 3,140.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Seven Rivers</b>   |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,200.00              | 0.00            | 0.00        | 3,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00              | 0.00            | 0.00        | 3,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00              | 0.00            | 0.00        | 3,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00              | 0.00            | 0.00        | 3,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,504.00              | 0.00            | 0.00        | 3,504.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Queen</b>          |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,600.00              | 0.00            | 0.00        | 3,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00              | 0.00            | 0.00        | 3,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00              | 0.00            | 0.00        | 3,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00              | 0.00            | 0.00        | 3,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00              | 0.00            | 0.00        | 4,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |

|           |                                 |                              |                                    |
|-----------|---------------------------------|------------------------------|------------------------------------|
| Database: | EDM 5000.1 Conroe DB            | Local Co-ordinate Reference: | Well 123H                          |
| Company:  | ConocoPhillips                  | TVD Reference:               | WELL @ 3953.00usft (Precision 194) |
| Project:  | Lea County, New Mexico (NAD 27) | MD Reference:                | WELL @ 3953.00usft (Precision 194) |
| Site:     | VGEU                            | North Reference:             | Grid                               |
| Well:     | 123H                            | Survey Calculation Method:   | Minimum Curvature.                 |
| Wellbore: | Wellbore #1                     |                              |                                    |
| Design:   | Design #6                       |                              |                                    |

| Planned Survey                |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)         | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,033.00                      | 0.00            | 0.00        | 4,033.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Grayburg</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,100.00                      | 0.00            | 0.00        | 4,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00                      | 0.00            | 0.00        | 4,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00                      | 0.00            | 0.00        | 4,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,368.00                      | 0.00            | 0.00        | 4,368.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>San Andres</b>             |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,400.00                      | 0.00            | 0.00        | 4,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                      | 0.00            | 0.00        | 4,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00                      | 0.00            | 0.00        | 4,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00                      | 0.00            | 0.00        | 4,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00                      | 0.00            | 0.00        | 4,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00                      | 0.00            | 0.00        | 4,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                      | 0.00            | 0.00        | 5,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                      | 0.00            | 0.00        | 5,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 5,112.13                      | 0.00            | 0.00        | 5,112.13              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>KOP, 6.00°/100' Build</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,150.00                      | 2.27            | 38.59       | 5,149.99              | 0.59         | 0.47         | 0.75                    | 6.00                    | 6.00                   | 0.00                  |
| 5,200.00                      | 5.27            | 38.59       | 5,199.88              | 3.16         | 2.52         | 4.04                    | 6.00                    | 6.00                   | 0.00                  |
| 5,250.00                      | 8.27            | 38.59       | 5,249.52              | 7.77         | 6.20         | 9.94                    | 6.00                    | 6.00                   | 0.00                  |
| 5,300.00                      | 11.27           | 38.59       | 5,298.79              | 14.40        | 11.49        | 18.42                   | 6.00                    | 6.00                   | 0.00                  |
| 5,350.00                      | 14.27           | 38.59       | 5,347.55              | 23.04        | 18.38        | 29.47                   | 6.00                    | 6.00                   | 0.00                  |
| 5,400.00                      | 17.27           | 38.59       | 5,395.66              | 33.66        | 26.86        | 43.06                   | 6.00                    | 6.00                   | 0.00                  |
| 5,450.00                      | 20.27           | 38.59       | 5,442.99              | 46.23        | 36.90        | 59.15                   | 6.00                    | 6.00                   | 0.00                  |
| 5,500.00                      | 23.27           | 38.59       | 5,489.42              | 60.73        | 48.46        | 77.69                   | 6.00                    | 6.00                   | 0.00                  |
| 5,550.00                      | 26.27           | 38.59       | 5,534.82              | 77.10        | 61.53        | 98.64                   | 6.00                    | 6.00                   | 0.00                  |
| 5,600.00                      | 29.27           | 38.59       | 5,579.05              | 95.31        | 76.06        | 121.94                  | 6.00                    | 6.00                   | 0.00                  |
| 5,650.00                      | 32.27           | 38.59       | 5,622.01              | 115.30       | 92.01        | 147.52                  | 6.00                    | 6.00                   | 0.00                  |
| 5,700.00                      | 35.27           | 38.59       | 5,663.57              | 137.03       | 109.35       | 175.31                  | 6.00                    | 6.00                   | 0.00                  |
| 5,750.00                      | 38.27           | 38.59       | 5,703.61              | 160.42       | 128.01       | 205.24                  | 6.00                    | 6.00                   | 0.00                  |
| 5,800.00                      | 41.27           | 38.59       | 5,742.04              | 185.42       | 147.96       | 237.22                  | 6.00                    | 6.00                   | 0.00                  |
| 5,850.00                      | 44.27           | 38.59       | 5,778.74              | 211.95       | 169.14       | 271.17                  | 6.00                    | 6.00                   | 0.00                  |
| 5,900.00                      | 47.27           | 38.59       | 5,813.61              | 239.96       | 191.49       | 306.99                  | 6.00                    | 6.00                   | 0.00                  |
| 5,908.20                      | 47.76           | 38.59       | 5,819.15              | 244.68       | 195.26       | 313.04                  | 6.00                    | 6.00                   | 0.00                  |
| <b>Lower San Andres</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,950.00                      | 50.27           | 38.59       | 5,846.56              | 269.35       | 214.94       | 344.59                  | 6.00                    | 6.00                   | 0.00                  |
| 6,000.00                      | 53.27           | 38.59       | 5,877.49              | 300.04       | 239.44       | 383.87                  | 6.00                    | 6.00                   | 0.00                  |
| 6,050.00                      | 56.27           | 38.59       | 5,906.33              | 331.96       | 264.91       | 424.71                  | 6.00                    | 6.00                   | 0.00                  |
| 6,100.00                      | 59.27           | 38.59       | 5,932.99              | 365.02       | 291.29       | 467.00                  | 6.00                    | 6.00                   | 0.00                  |
| 6,150.00                      | 62.27           | 38.59       | 5,957.40              | 399.12       | 318.50       | 510.63                  | 6.00                    | 6.00                   | 0.00                  |
| 6,200.00                      | 65.27           | 38.59       | 5,979.50              | 434.18       | 346.47       | 555.48                  | 6.00                    | 6.00                   | 0.00                  |
| 6,224.16                      | 66.72           | 38.59       | 5,989.32              | 451.42       | 360.24       | 577.54                  | 6.00                    | 6.00                   | 0.00                  |
| <b>Glorieta</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,250.00                      | 68.27           | 38.59       | 5,999.21              | 470.09       | 375.13       | 601.42                  | 6.00                    | 6.00                   | 0.00                  |
| 6,300.00                      | 71.27           | 38.59       | 6,016.50              | 506.75       | 404.39       | 648.33                  | 6.00                    | 6.00                   | 0.00                  |
| 6,350.00                      | 74.27           | 38.59       | 6,031.31              | 544.08       | 434.17       | 696.08                  | 6.00                    | 6.00                   | 0.00                  |
| 6,400.00                      | 77.27           | 38.59       | 6,043.60              | 581.95       | 464.40       | 744.54                  | 6.00                    | 6.00                   | 0.00                  |
| 6,445.46                      | 80.00           | 38.59       | 6,052.55              | 616.79       | 492.20       | 789.11                  | 6.00                    | 6.00                   | 0.00                  |
| <b>Begin 80.00° Tangent</b>   |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,500.00                      | 80.00           | 38.59       | 6,062.02              | 658.77       | 525.70       | 842.82                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                      | 80.00           | 38.59       | 6,079.39              | 735.75       | 587.13       | 941.30                  | 0.00                    | 0.00                   | 0.00                  |
| 6,645.46                      | 80.00           | 38.59       | 6,087.28              | 770.74       | 615.05       | 986.07                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Begin 6.00°/100' Build</b> |                 |             |                       |              |              |                         |                         |                        |                       |

|                  |                                 |                                     |                                    |
|------------------|---------------------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | EDM 5000.1 Conroe DB            | <b>Local Co-ordinate Reference:</b> | Well-123H                          |
| <b>Company:</b>  | ConocoPhillips                  | <b>TVD Reference:</b>               | WELL @ 3953.00usft (Precision 194) |
| <b>Project:</b>  | Lea County, New Mexico (NAD 27) | <b>MD Reference:</b>                | WELL @ 3953.00usft (Precision 194) |
| <b>Site:</b>     | VGEU                            | <b>North Reference:</b>             | Grid                               |
| <b>Well:</b>     | 123H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1                     |                                     |                                    |
| <b>Design:</b>   | Design #6                       |                                     |                                    |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 6,650.00              | 80.27           | 38.59       | 6,088.06              | 774.23       | 617.84       | 990.54                  | 6.00                    | 6.00                   | 0.00                  |  |
| 6,700.00              | 83.27           | 38.59       | 6,095.21              | 812.91       | 648.70       | 1,040.02                | 6.00                    | 6.00                   | 0.00                  |  |
| 6,753.72              | 86.50           | 38.59       | 6,100.00              | 854.73       | 682.08       | 1,093.52                | 6.00                    | 6.00                   | 0.00                  |  |
| Begin 86.50° Lateral  |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 6,800.00              | 86.50           | 38.59       | 6,102.83              | 890.83       | 710.88       | 1,139.71                | 0.00                    | 0.00                   | 0.00                  |  |
| 6,900.00              | 86.50           | 38.59       | 6,108.94              | 968.85       | 773.14       | 1,239.52                | 0.00                    | 0.00                   | 0.00                  |  |
| 7,000.00              | 86.50           | 38.59       | 6,115.06              | 1,046.87     | 835.39       | 1,339.34                | 0.00                    | 0.00                   | 0.00                  |  |
| 7,100.00              | 86.50           | 38.59       | 6,121.17              | 1,124.89     | 897.65       | 1,439.15                | 0.00                    | 0.00                   | 0.00                  |  |
| 7,200.00              | 86.50           | 38.59       | 6,127.28              | 1,202.91     | 959.90       | 1,538.96                | 0.00                    | 0.00                   | 0.00                  |  |
| 7,300.00              | 86.50           | 38.59       | 6,133.39              | 1,280.93     | 1,022.16     | 1,638.78                | 0.00                    | 0.00                   | 0.00                  |  |
| 7,400.00              | 86.50           | 38.59       | 6,139.51              | 1,358.95     | 1,084.41     | 1,738.59                | 0.00                    | 0.00                   | 0.00                  |  |
| 7,500.00              | 86.50           | 38.59       | 6,145.62              | 1,436.97     | 1,146.67     | 1,838.40                | 0.00                    | 0.00                   | 0.00                  |  |
| 7,600.00              | 86.50           | 38.59       | 6,151.73              | 1,514.99     | 1,208.92     | 1,938.22                | 0.00                    | 0.00                   | 0.00                  |  |
| 7,700.00              | 86.50           | 38.59       | 6,157.84              | 1,593.01     | 1,271.18     | 2,038.03                | 0.00                    | 0.00                   | 0.00                  |  |
| 7,800.00              | 86.50           | 38.59       | 6,163.96              | 1,671.02     | 1,333.43     | 2,137.84                | 0.00                    | 0.00                   | 0.00                  |  |
| 7,900.00              | 86.50           | 38.59       | 6,170.07              | 1,749.04     | 1,395.69     | 2,237.65                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,000.00              | 86.50           | 38.59       | 6,176.18              | 1,827.06     | 1,457.94     | 2,337.47                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,100.00              | 86.50           | 38.59       | 6,182.29              | 1,905.08     | 1,520.20     | 2,437.28                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,200.00              | 86.50           | 38.59       | 6,188.41              | 1,983.10     | 1,582.45     | 2,537.09                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,300.00              | 86.50           | 38.59       | 6,194.52              | 2,061.12     | 1,644.71     | 2,636.91                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,400.00              | 86.50           | 38.59       | 6,200.63              | 2,139.14     | 1,706.96     | 2,736.72                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,500.00              | 86.50           | 38.59       | 6,206.74              | 2,217.16     | 1,769.22     | 2,836.53                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,600.00              | 86.50           | 38.59       | 6,212.86              | 2,295.18     | 1,831.47     | 2,936.35                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,700.00              | 86.50           | 38.59       | 6,218.97              | 2,373.20     | 1,893.73     | 3,036.16                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,800.00              | 86.50           | 38.59       | 6,225.08              | 2,451.21     | 1,955.98     | 3,135.97                | 0.00                    | 0.00                   | 0.00                  |  |
| 8,900.00              | 86.50           | 38.59       | 6,231.19              | 2,529.23     | 2,018.24     | 3,235.78                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,000.00              | 86.50           | 38.59       | 6,237.31              | 2,607.25     | 2,080.49     | 3,335.60                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,100.00              | 86.50           | 38.59       | 6,243.42              | 2,685.27     | 2,142.75     | 3,435.41                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,200.00              | 86.50           | 38.59       | 6,249.53              | 2,763.29     | 2,205.00     | 3,535.22                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,300.00              | 86.50           | 38.59       | 6,255.64              | 2,841.31     | 2,267.26     | 3,635.04                | 0.00                    | 0.00                   | 0.00                  |  |
| 9,330.37              | 86.50           | 38.59       | 6,257.50              | 2,865.00     | 2,286.16     | 3,665.34                | 0.00                    | 0.00                   | 0.00                  |  |
| PBHL                  |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Design Targets            |               |             |            |              |              |                 |                |                  |                   |  |
|---------------------------|---------------|-------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|--|
| Target Name               | Dip Angle (°) | Dip Dir (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |  |
| PBHL v6 - VGEU 123        | 0.00          | 0.00        | 6,257.50   | 2,865.00     | 2,286.16     | 658,935.04      | 773,015.99     | 32° 48' 30.051 N | 103° 26' 41.109 W |  |
| - plan hits target center |               |             |            |              |              |                 |                |                  |                   |  |
| - Point                   |               |             |            |              |              |                 |                |                  |                   |  |

| Casing Points         |                       |        |                     |                   |  |
|-----------------------|-----------------------|--------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name   | Casing Diameter (") | Hole Diameter (") |  |
| 9,330.37              | 6,257.50              | 5 1/2" | 5-1/2               | 6                 |  |

|           |                                 |                              |                                    |
|-----------|---------------------------------|------------------------------|------------------------------------|
| Database: | EDM 5000.1 Conroe DB            | Local Co-ordinate Reference: | Well 123H                          |
| Company:  | ConocoPhillips                  | TVD Reference:               | WELL @ 3953.00usft (Precision 194) |
| Project:  | Lea County, New Mexico (NAD 27) | MD Reference:                | WELL @ 3953.00usft (Precision 194) |
| Site:     | VGEU                            | North Reference:             | Grid                               |
| Well:     | 123H                            | Survey Calculation Method:   | Minimum Curvature                  |
| Wellbore: | Wellbore #1                     |                              |                                    |
| Design:   | Design #6                       |                              |                                    |

| Formations            |                       |                  |           |         |                   |
|-----------------------|-----------------------|------------------|-----------|---------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name             | Lithology | Dip (°) | Dip Direction (°) |
| 1,593.00              | 1,593.00              | Rustler          |           | 3.50    | 38.59             |
| 1,685.00              | 1,685.00              | Salado           |           | 3.50    | 38.59             |
| 2,733.00              | 2,733.00              | Tansil           |           | 3.50    | 38.59             |
| 2,864.00              | 2,864.00              | Yates            |           | 3.50    | 38.59             |
| 3,140.00              | 3,140.00              | Seven Rivers     |           | 3.50    | 38.59             |
| 3,504.00              | 3,504.00              | Queen            |           | 3.50    | 38.59             |
| 4,033.00              | 4,033.00              | Grayburg         |           | 3.50    | 38.59             |
| 4,368.00              | 4,368.00              | San Andres       |           | 3.50    | 38.59             |
| 5,908.20              | 5,819.15              | Lower San Andres |           | 3.50    | 38.59             |
| 6,224.16              | 5,989.32              | Glorieta         |           | 3.50    | 38.59             |

| Plan Annotations      |                       |                   |              |                        |
|-----------------------|-----------------------|-------------------|--------------|------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                        |
| 5,112.13              | 5,112.13              | 0.00              | 0.00         | KOP, 6.00°/100' Build  |
| 6,445.46              | 6,052.55              | 616.79            | 492.20       | Begin 80.00° Tangent   |
| 6,645.46              | 6,087.28              | 770.74            | 615.05       | Begin 6.00°/100' Build |
| 6,753.72              | 6,100.00              | 854.73            | 682.08       | Begin 86.50° Lateral   |
| 9,330.37              | 6,257.50              | 2,865.00          | 2,286.16     | PBHL                   |



Date:  
Version:  
Prepared by:

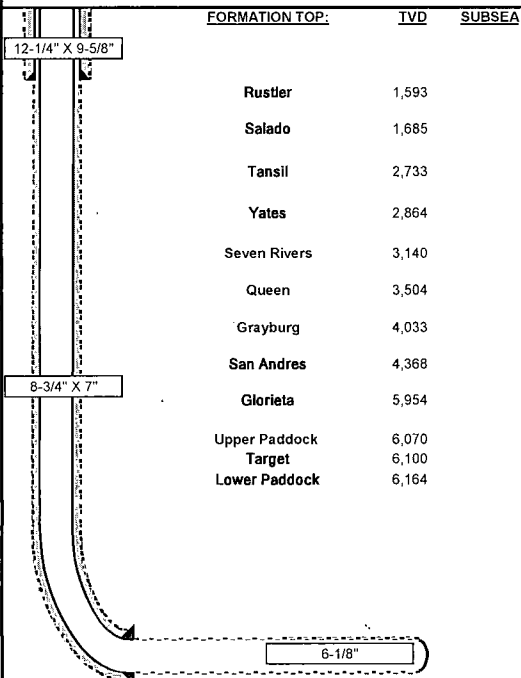
WELL: Vacuum Glorieta East Unit 123H  
SURFACE LOC: UL - M - S27 - T17S - R35E 766' FSL 395' FWL  
BH LOC: UL - G - S27 - T17S - R35E 1662' FNL 2585' FEL

COUNTY, STATE:  
API No.:  
NDIC Permit:  
BLM Permit: N/A

AFE:  
Drilling Network No.:  
Invoice Handler ID:  
COST ESTIMATE  
DRILLING  
COMPLETION  
FACILITIES  
TOTAL

ELEVATIONS: GL 3,939.1'  
KB +14.0' Rlg - PD194

WH Coord.: LAT 32° 48' 01.89"  
(NAD-27) LON 103° 27' 08.17"



#### Objective

#### Notes

#### Goals

#### CONTACTS

Office Cell

Drilling Engineer:  
Geologist:  
Onsite Drilling Rep.:

Drilling Supt.:

Offset logs indicate the presence of the Dunham, Pine, Opeche, and Charles Salts.

| DRILLING FLUID: | Type            | Interval<br>(MD) | Density<br>ppg | Vis<br>sec/qt | PV<br>cP | YP<br>#100ft <sup>2</sup> | pH | FL<br>mL | LGS<br>% by vol | Cl<br>k mg/L | NaCl<br>ppb sol | Remarks |
|-----------------|-----------------|------------------|----------------|---------------|----------|---------------------------|----|----------|-----------------|--------------|-----------------|---------|
| Surface:        | Fresh Water/WBM | Surface-1,645'   | 8.4-8.9        |               |          |                           |    |          |                 |              |                 |         |
| Intermediate:   | Brine           | 1,645' - 6,774'  | 10             |               |          |                           |    |          |                 |              |                 |         |
| Production:     | Brine           | 6,774' - 9,330'  | 9.0-10.0       |               |          |                           |    |          |                 |              |                 |         |

Reference Baroid Drilling Fluids Program

| CASING:       | Hole    | TOP (MD) | BTM (MD) | Length | Size   | Wt    | Grade     | Connection | BOP:       | Working  | Test     |
|---------------|---------|----------|----------|--------|--------|-------|-----------|------------|------------|----------|----------|
| Surface:      | 12-1/4" | 0'       | 1,640'   | 1,640' | 9-5/8" | 36.00 | J55       | LTC        | Annular    | 3000 psi | 2100 psi |
| Intermediate: | 8-3/4"  | 0'       | 6,754'   | 6,754' | 7"     | 23.00 | L80       | BTC        | Double Ram | 3000 psi | 3000 psi |
| Production:   | 6-1/8"  | 6,754'   | 9,330'   | 2,576' |        |       | Open Hole |            |            |          |          |

Reference Drilling Procedure for details on float equipment, centralizers, and liner equipment.

| CEMENT:       | Hole           | MD     | TVD    | Spacer | Lead   | Tail   | COMMENTS    |
|---------------|----------------|--------|--------|--------|--------|--------|-------------|
| Surface:      | 12-1/4"X9-5/8" | 1,640' | 1,640' |        | 507 SX | 168 SX | TOC Surface |
| Intermediate: | 8-3/4"X7"      | 6,754' | 6,100  |        | 386 SX | 530 SX | TOC Surface |

Reference Halliburton Cementing Recommendation

| DIRECTIONAL PLAN: | Comments | MD<br>(ft) | INC<br>(deg) | AZI<br>(deg) | TVD<br>(ft) | VS<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100') | SEC-T-R | Section Line Distance |
|-------------------|----------|------------|--------------|--------------|-------------|------------|------------|------------|-----------------|---------|-----------------------|
|-------------------|----------|------------|--------------|--------------|-------------|------------|------------|------------|-----------------|---------|-----------------------|

| FORMATION EVALUATION:  | Correlation Well: |
|------------------------|-------------------|
| Mud Logging - One-Man: |                   |
| Mud Logging - Two-Man: |                   |
| Open Hole - PEX        |                   |
| Cased Hole - GR/CBL    |                   |
| MWD - GR               |                   |

OUR WORK IS NEVER SO URGENT OR IMPORTANT THAT WE CANNOT TAKE THE TIME TO DO IT SAFELY!