

District I  
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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 Drive, Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 1, 2011

Submit one copy to  
Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Drive  
Santa Fe, NM 87505

☐ AMENDED REPORT

AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                             |                                              |                                        |
|-----------------------------|----------------------------------------------|----------------------------------------|
| *API Number<br>30-045-35622 | *Pool Code<br>98101                          | *Pool Name<br>LYBROOK UNIT NW HZ (OIL) |
| *Property Code<br>313874    | *Property Name<br>NW LYBROOK UT              | *Well Number<br>134H                   |
| *GRID No.<br>120782         | *Operator Name<br>WPX ENERGY PRODUCTION, LLC | *Elevation<br>6893'                    |

<sup>10</sup> Surface Location

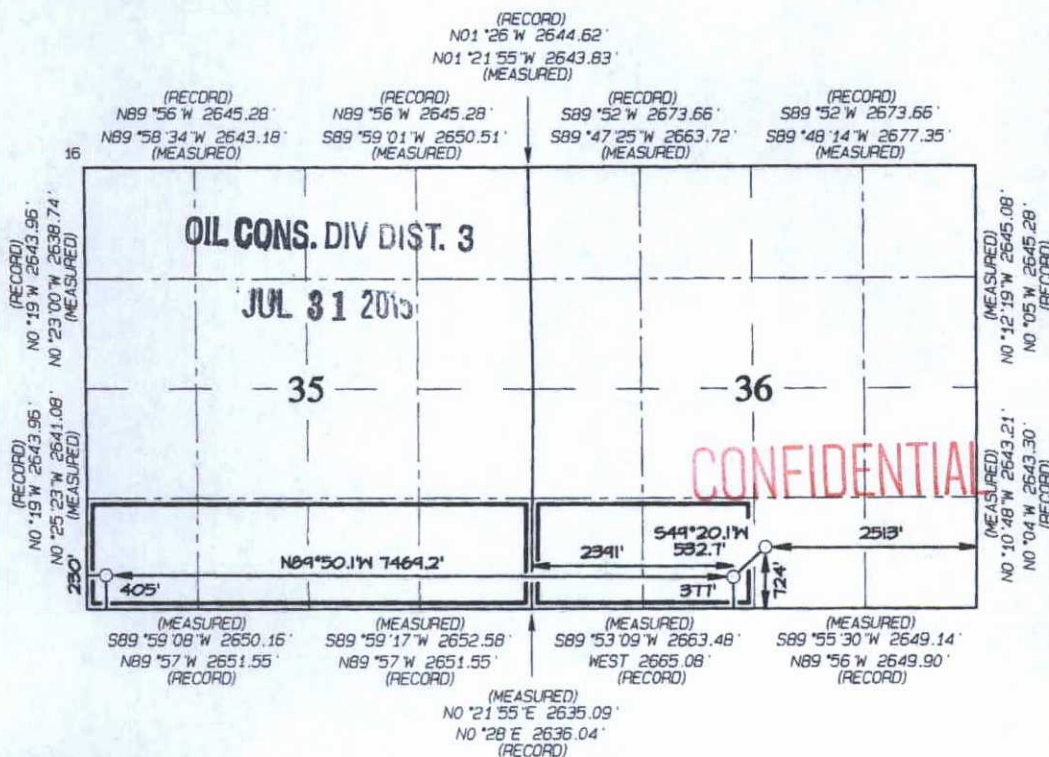
| UL or lot no. | Section | Township | Range | Lot | Feet from the | North/South line | Feet from the | East/West line | County   |
|---------------|---------|----------|-------|-----|---------------|------------------|---------------|----------------|----------|
| 0             | 36      | 24N      | 8W    |     | 724           | SOUTH            | 2513          | EAST           | SAN JUAN |

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

| UL or lot no. | Section | Township | Range | Lot | Feet from the | North/South line | Feet from the | East/West line | County   |
|---------------|---------|----------|-------|-----|---------------|------------------|---------------|----------------|----------|
| M             | 35      | 24N      | 8W    |     | 405           | SOUTH            | 230           | WEST           | SAN JUAN |

|                                        |                                               |                               |                                  |                                    |
|----------------------------------------|-----------------------------------------------|-------------------------------|----------------------------------|------------------------------------|
| <sup>12</sup> Dedicated Acres<br>240.0 | S/2 S/2 - Section 35<br>S/2 SW/4 - Section 36 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No.<br>R-13921 |
|----------------------------------------|-----------------------------------------------|-------------------------------|----------------------------------|------------------------------------|

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



END-OF-LATERAL  
405' FSL 230' FWL  
SECTION 35, T24N, R8W  
LAT: 36.264654°N  
LONG: 107.658863°W  
DATUM: NAD1927

PSI TOOL  
398' FSL 340' FWL  
SECTION 35, T24N, R8W  
LAT: 36.264636°N  
LONG: 107.658491°W  
DATUM: NAD1927

POINT-OF-ENTRY  
377' FSL 2391' FWL  
SECTION 36, T24N, R8W  
LAT: 36.264555°N  
LONG: 107.633528°W  
DATUM: NAD1927

SURFACE LOCATION  
724' FSL 2513' FWL  
SECTION 36, T24N, R8W  
LAT: 36.265507°N  
LONG: 107.632155°W  
DATUM: NAD1927

LAT: 36.264667°N  
LONG: 107.659474°W  
DATUM: NAD1983

LAT: 36.264649°N  
LONG: 107.659101°W  
DATUM: NAD1983

LAT: 36.264568°N  
LONG: 107.634137°W  
DATUM: NAD1983

LAT: 36.265519°N  
LONG: 107.632764°W  
DATUM: NAD1983

<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  
LACEY GRANILLO  
Date  
7/29/15  
Printed Name  
lacey.granillo@wpenergy.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 Revised: JUNE 11, 2015  
Date of Survey: APRIL 11, 2014

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



## **WPX Energy**

T24N R8W

Chaco 2408-36O

NW Lybrook UT #134H

Wellbore #1

OIL CONS. DIV DIST. 3

JUL 31 2015

Design: Wellbore #1

## **Survey Report - Geographic**

05 June, 2015

CONFIDENTIAL



[www.scientificdrilling.com](http://www.scientificdrilling.com)



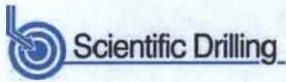
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3. BHA Summary Reports and Slide Sheets
4. Graphical Job History
5. Support Staff



OIL CONS. DIV DIST. 3

JUL 31 2015



Company Name: WPX Energy  
Project: T24N R8W  
Site: Chaco 2408-36O  
Well: NW Lybrook UT #134H

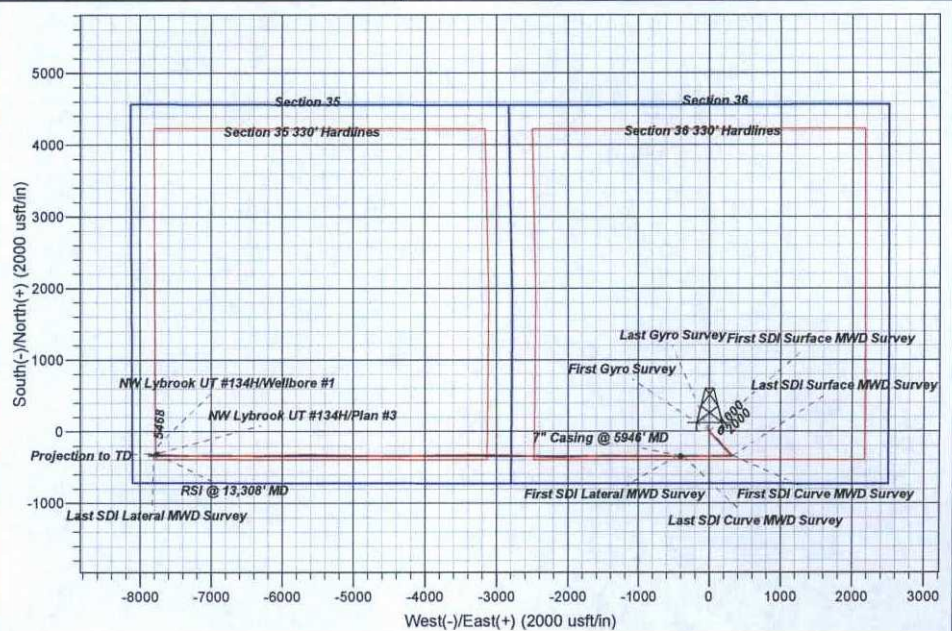
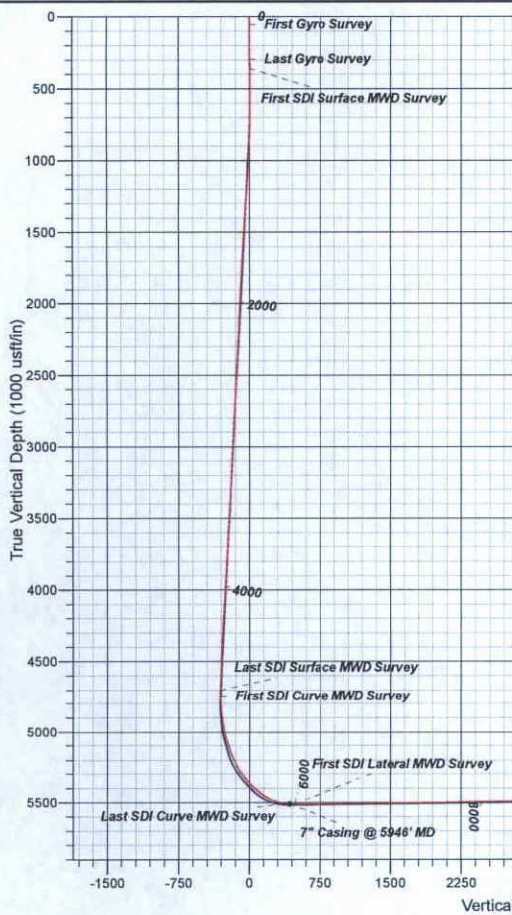


Azimuths to True North  
Magnetic North: 9.12°

Magnetic Field  
Strength: 49900.4snT  
Dip Angle: 62.97°  
Date: 5/22/2015  
Model: HDGM

WELL DETAILS: NW Lybrook UT #134H

| +N/-S      | +E/-W     | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) | 6893.00      |
|------------|-----------|-----------------------------------------------|--------------|
| North      | East      | Latitude                                      | Longitude    |
| 1915949.35 | 559308.84 | 36.2655100                                    | -107.6321500 |



Design: Wellbore #1 (NW Lybrook UT #134H/Wellbore #1)  
Created By: Janie Collins Date: 15:40, June 05 2015

PROJECT DETAILS: T24N R8W

Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico West 3003

System Datum: Mean Sea Level  
Local North: True



|                  |                     |                                     |                                               |
|------------------|---------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | WPX Energy          | <b>Local Co-ordinate Reference:</b> | Well NW Lybrook UT #134H                      |
| <b>Project:</b>  | T24N R8W            | <b>TVD Reference:</b>               | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| <b>Site:</b>     | Chaco 2408-36O      | <b>MD Reference:</b>                | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| <b>Well:</b>     | NW Lybrook UT #134H | <b>North Reference:</b>             | True                                          |
| <b>Wellbore:</b> | Wellbore #1         | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | Wellbore #1         | <b>Database:</b>                    | Grand Junction District                       |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | T24N R8W                             |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico West 3003                 |                      |                |

|                              |                |                          |                   |
|------------------------------|----------------|--------------------------|-------------------|
| <b>Site</b>                  | Chaco 2408-36O |                          |                   |
| <b>Site Position:</b>        |                | <b>Northing:</b>         | 1,915,960.24 usft |
| <b>From:</b>                 | Map            | <b>Easting:</b>          | 559,288.18 usft   |
| <b>Position Uncertainty:</b> | 0.00 usft      | <b>Slot Radius:</b>      | 13.20 in          |
|                              |                | <b>Latitude:</b>         | 36.2655400        |
|                              |                | <b>Longitude:</b>        | -107.6322200      |
|                              |                | <b>Grid Convergence:</b> | 0.12 °            |

|                             |                     |                            |                                    |
|-----------------------------|---------------------|----------------------------|------------------------------------|
| <b>Well</b>                 | NW Lybrook UT #134H |                            |                                    |
| <b>Well Position</b>        | <b>+N/-S</b>        | 0.00 usft                  | <b>Northing:</b> 1,915,949.36 usft |
|                             | <b>+E/-W</b>        | 0.00 usft                  | <b>Easting:</b> 559,308.84 usft    |
| <b>Position Uncertainty</b> | 0.00 usft           | <b>Wellhead Elevation:</b> | 0.00 usft                          |
|                             |                     | <b>Latitude:</b>           | 36.2655100                         |
|                             |                     | <b>Longitude:</b>          | -107.6321500                       |
|                             |                     | <b>Ground Level:</b>       | 6,893.00 usft                      |

|                  |                   |                    |                                   |
|------------------|-------------------|--------------------|-----------------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                                   |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b>            |
|                  | HDGM              | 5/22/2015          | 9.12                              |
|                  |                   |                    | <b>Dip Angle (°)</b> 62.97        |
|                  |                   |                    | <b>Field Strength (nT)</b> 49,900 |

|                          |                                |                      |                             |
|--------------------------|--------------------------------|----------------------|-----------------------------|
| <b>Design</b>            | Wellbore #1                    |                      |                             |
| <b>Audit Notes:</b>      |                                |                      |                             |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>        | ACTUAL                      |
|                          |                                | <b>Tie On Depth:</b> | 0.00                        |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b>  | <b>+E/-W (usft)</b>         |
|                          | 0.00                           | 0.00                 | 0.00                        |
|                          |                                |                      | <b>Direction (°)</b> 267.56 |

|                       |                  |                                         |                              |
|-----------------------|------------------|-----------------------------------------|------------------------------|
| <b>Survey Program</b> | Date 6/5/2015    |                                         |                              |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>                | <b>Tool Name</b>             |
| 25.00                 | 295.00           | Survey #1 - Gyro Survey (Wellbore #1)   | GYRO-NS                      |
| 359.00                | 4,727.00         | Survey #2 - Surface MWD Survey (Wellbo  | SDI MWD                      |
| 4,773.00              | 5,899.00         | Survey #3 - Curve MWD Survey (Wellbore  | SDI MWD                      |
| 5,990.00              | 13,418.00        | Survey #4 - Lateral MWD Survey (Wellbor | SDI MWD                      |
|                       |                  |                                         | <b>Description</b>           |
|                       |                  |                                         | Gyrocompass Gyro             |
|                       |                  |                                         | SDI MWD - Standard ver 1.0.1 |
|                       |                  |                                         | SDI MWD - Standard ver 1.0.1 |
|                       |                  |                                         | SDI MWD - Standard ver 1.0.1 |

|                              |                        |                    |                              |                     |                     |                            |                           |                 |                  |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|----------------------------|---------------------------|-----------------|------------------|
| <b>Survey</b>                |                        |                    |                              |                     |                     |                            |                           |                 |                  |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Map Northing (usft)</b> | <b>Map Easting (usft)</b> | <b>Latitude</b> | <b>Longitude</b> |
| 0.00                         | 0.00                   | 0.00               | 0.00                         | 0.00                | 0.00                | 1,915,949.36               | 559,308.84                | 36.2655100      | -107.6321500     |
| 25.00                        | 0.00                   | 0.00               | 25.00                        | 0.00                | 0.00                | 1,915,949.36               | 559,308.84                | 36.2655100      | -107.6321500     |
| 55.00                        | 0.13                   | 2.66               | 55.00                        | 0.03                | 0.00                | 1,915,949.39               | 559,308.84                | 36.2655101      | -107.6321500     |
| <b>First Gyro Survey</b>     |                        |                    |                              |                     |                     |                            |                           |                 |                  |
| 85.00                        | 0.14                   | 18.69              | 85.00                        | 0.10                | 0.01                | 1,915,949.46               | 559,308.86                | 36.2655102      | -107.6321500     |
| 115.00                       | 0.14                   | 41.89              | 115.00                       | 0.16                | 0.05                | 1,915,949.52               | 559,308.89                | 36.2655104      | -107.6321499     |
| 145.00                       | 0.13                   | 28.18              | 145.00                       | 0.22                | 0.09                | 1,915,949.58               | 559,308.93                | 36.2655106      | -107.6321497     |
| 175.00                       | 0.13                   | 5.00               | 175.00                       | 0.29                | 0.11                | 1,915,949.64               | 559,308.95                | 36.2655107      | -107.6321497     |
| 205.00                       | 0.45                   | 345.82             | 205.00                       | 0.43                | 0.08                | 1,915,949.79               | 559,308.93                | 36.2655112      | -107.6321497     |

|                  |                     |                                     |                                               |
|------------------|---------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | WPX Energy          | <b>Local Co-ordinate Reference:</b> | Well NW Lybrook UT #134H                      |
| <b>Project:</b>  | T24N R8W            | <b>TVD Reference:</b>               | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| <b>Site:</b>     | Chaco 2408-360      | <b>MD Reference:</b>                | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| <b>Well:</b>     | NW Lybrook UT #134H | <b>North Reference:</b>             | True                                          |
| <b>Wellbore:</b> | Wellbore #1         | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | Wellbore #1         | <b>Database:</b>                    | Grand Junction District                       |

**Survey**

| Measured Depth (usft)               | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude   | Longitude    |
|-------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------|--------------|
| 235.00                              | 0.63            | 338.65      | 235.00                | 0.70         | 0.00         | 1,915,950.06        | 559,308.84         | 36.2655119 | -107.6321500 |
| 265.00                              | 0.58            | 320.22      | 265.00                | 0.97         | -0.16        | 1,915,950.33        | 559,308.68         | 36.2655126 | -107.6321506 |
| 295.00                              | 0.71            | 324.52      | 294.99                | 1.24         | -0.37        | 1,915,950.60        | 559,308.47         | 36.2655134 | -107.6321513 |
| <b>Last Gyro Survey</b>             |                 |             |                       |              |              |                     |                    |            |              |
| 359.00                              | 0.80            | 326.27      | 358.99                | 1.93         | -0.84        | 1,915,951.29        | 559,307.99         | 36.2655153 | -107.6321529 |
| <b>First SDI Surface MWD Survey</b> |                 |             |                       |              |              |                     |                    |            |              |
| 450.00                              | 0.94            | 182.77      | 449.98                | 1.72         | -1.23        | 1,915,951.07        | 559,307.61         | 36.2655147 | -107.6321542 |
| 542.00                              | 1.48            | 177.82      | 541.96                | -0.22        | -1.22        | 1,915,949.13        | 559,307.62         | 36.2655093 | -107.6321542 |
| 632.00                              | 2.44            | 150.94      | 631.91                | -3.06        | -0.25        | 1,915,946.30        | 559,308.60         | 36.2655016 | -107.6321509 |
| 723.00                              | 2.71            | 148.99      | 722.82                | -6.60        | 1.80         | 1,915,942.76        | 559,310.66         | 36.2654918 | -107.6321439 |
| 814.00                              | 3.80            | 132.51      | 813.67                | -10.48       | 5.13         | 1,915,938.89        | 559,313.99         | 36.2654812 | -107.6321326 |
| 905.00                              | 4.09            | 129.39      | 904.46                | -14.58       | 9.86         | 1,915,934.80        | 559,318.73         | 36.2654699 | -107.6321166 |
| 996.00                              | 6.49            | 131.32      | 995.06                | -20.03       | 16.23        | 1,915,929.36        | 559,325.12         | 36.2654549 | -107.6320950 |
| 1,087.00                            | 7.41            | 133.66      | 1,085.39              | -27.48       | 24.34        | 1,915,921.93        | 559,333.24         | 36.2654345 | -107.6320675 |
| 1,180.00                            | 7.95            | 134.71      | 1,177.56              | -36.14       | 33.25        | 1,915,913.28        | 559,342.17         | 36.2654107 | -107.6320372 |
| 1,271.00                            | 8.41            | 134.94      | 1,267.63              | -45.27       | 42.43        | 1,915,904.17        | 559,351.37         | 36.2653856 | -107.6320061 |
| 1,360.00                            | 9.21            | 133.86      | 1,355.58              | -54.80       | 52.18        | 1,915,894.66        | 559,361.13         | 36.2653594 | -107.6319730 |
| 1,451.00                            | 9.06            | 134.19      | 1,445.43              | -64.84       | 62.56        | 1,915,884.64        | 559,371.54         | 36.2653318 | -107.6319378 |
| 1,542.00                            | 7.15            | 132.02      | 1,535.52              | -73.63       | 71.91        | 1,915,875.88        | 559,380.90         | 36.2653077 | -107.6319061 |
| 1,633.00                            | 6.30            | 127.74      | 1,625.89              | -80.48       | 80.07        | 1,915,869.05        | 559,389.07         | 36.2652889 | -107.6318784 |
| 1,724.00                            | 6.23            | 121.67      | 1,716.35              | -86.13       | 88.22        | 1,915,863.42        | 559,397.24         | 36.2652734 | -107.6318508 |
| 1,815.00                            | 5.81            | 126.59      | 1,806.85              | -91.46       | 96.12        | 1,915,858.09        | 559,405.15         | 36.2652587 | -107.6318240 |
| 1,907.00                            | 5.71            | 126.70      | 1,898.38              | -96.97       | 103.53       | 1,915,852.60        | 559,412.57         | 36.2652436 | -107.6317989 |
| 1,998.00                            | 5.50            | 134.26      | 1,988.95              | -102.72      | 110.28       | 1,915,846.86        | 559,419.33         | 36.2652278 | -107.6317760 |
| 2,088.00                            | 5.52            | 139.90      | 2,078.53              | -109.04      | 116.16       | 1,915,840.55        | 559,425.22         | 36.2652104 | -107.6317560 |
| 2,178.00                            | 5.06            | 138.04      | 2,168.15              | -115.31      | 121.60       | 1,915,834.30        | 559,430.68         | 36.2651932 | -107.6317376 |
| 2,270.00                            | 6.25            | 138.34      | 2,259.70              | -122.07      | 127.64       | 1,915,827.56        | 559,436.73         | 36.2651746 | -107.6317171 |
| 2,360.00                            | 6.43            | 139.49      | 2,349.15              | -129.56      | 134.17       | 1,915,820.08        | 559,443.28         | 36.2651540 | -107.6316949 |
| 2,451.00                            | 5.91            | 136.90      | 2,439.62              | -136.85      | 140.68       | 1,915,812.80        | 559,449.81         | 36.2651340 | -107.6316728 |
| 2,543.00                            | 7.11            | 144.81      | 2,531.03              | -144.96      | 147.20       | 1,915,804.70        | 559,456.34         | 36.2651117 | -107.6316507 |
| 2,634.00                            | 7.54            | 147.96      | 2,621.29              | -154.63      | 153.61       | 1,915,795.05        | 559,462.77         | 36.2650852 | -107.6316290 |
| 2,725.00                            | 7.62            | 140.05      | 2,711.49              | -164.31      | 160.65       | 1,915,785.38        | 559,469.84         | 36.2650586 | -107.6316051 |
| 2,815.00                            | 7.67            | 135.89      | 2,800.69              | -173.20      | 168.66       | 1,915,776.51        | 559,477.87         | 36.2650342 | -107.6315779 |
| 2,907.00                            | 7.11            | 135.69      | 2,891.93              | -181.68      | 176.92       | 1,915,768.04        | 559,486.13         | 36.2650108 | -107.6315499 |
| 2,998.00                            | 6.61            | 137.44      | 2,982.28              | -189.57      | 184.39       | 1,915,760.17        | 559,493.63         | 36.2649892 | -107.6315246 |
| 3,089.00                            | 6.12            | 134.62      | 3,072.72              | -196.84      | 191.39       | 1,915,752.92        | 559,500.64         | 36.2649692 | -107.6315008 |
| 3,180.00                            | 6.12            | 136.62      | 3,163.20              | -203.77      | 198.17       | 1,915,746.00        | 559,507.44         | 36.2649502 | -107.6314778 |
| 3,271.00                            | 6.33            | 134.51      | 3,253.66              | -210.81      | 205.08       | 1,915,738.97        | 559,514.36         | 36.2649308 | -107.6314544 |
| 3,362.00                            | 7.84            | 138.09      | 3,343.96              | -218.95      | 212.80       | 1,915,730.85        | 559,522.10         | 36.2649085 | -107.6314282 |
| 3,453.00                            | 7.60            | 136.70      | 3,434.14              | -227.95      | 221.08       | 1,915,721.87        | 559,530.39         | 36.2648838 | -107.6314001 |
| 3,544.00                            | 7.14            | 134.78      | 3,524.39              | -236.31      | 229.22       | 1,915,713.52        | 559,538.55         | 36.2648608 | -107.6313725 |
| 3,634.00                            | 7.62            | 139.23      | 3,613.64              | -244.77      | 237.09       | 1,915,705.08        | 559,546.44         | 36.2648375 | -107.6313458 |
| 3,725.00                            | 7.66            | 139.28      | 3,703.84              | -253.93      | 244.98       | 1,915,695.93        | 559,554.35         | 36.2648124 | -107.6313190 |
| 3,816.00                            | 7.18            | 140.28      | 3,794.07              | -262.91      | 252.57       | 1,915,686.98        | 559,561.96         | 36.2647877 | -107.6312933 |
| 3,907.00                            | 7.34            | 141.58      | 3,884.34              | -271.83      | 259.82       | 1,915,678.06        | 559,569.23         | 36.2647632 | -107.6312687 |
| 3,998.00                            | 8.37            | 131.20      | 3,974.49              | -280.75      | 268.42       | 1,915,669.16        | 559,577.84         | 36.2647387 | -107.6312395 |
| 4,089.00                            | 8.44            | 133.49      | 4,064.52              | -289.71      | 278.24       | 1,915,660.23        | 559,587.69         | 36.2647141 | -107.6312062 |
| 4,181.00                            | 6.95            | 133.13      | 4,155.68              | -298.16      | 287.20       | 1,915,651.79        | 559,596.67         | 36.2646909 | -107.6311758 |
| 4,272.00                            | 7.08            | 133.70      | 4,246.00              | -305.80      | 295.28       | 1,915,644.17        | 559,604.75         | 36.2646699 | -107.6311484 |
| 4,363.00                            | 7.98            | 131.44      | 4,336.22              | -313.86      | 304.07       | 1,915,636.13        | 559,613.56         | 36.2646477 | -107.6311186 |
| 4,454.00                            | 7.19            | 138.92      | 4,426.42              | -322.33      | 312.55       | 1,915,627.68        | 559,622.06         | 36.2646245 | -107.6310898 |
| 4,545.00                            | 5.59            | 147.50      | 4,516.86              | -330.36      | 318.67       | 1,915,619.66        | 559,628.20         | 36.2646024 | -107.6310691 |
| 4,636.00                            | 3.16            | 145.19      | 4,607.59              | -336.16      | 322.48       | 1,915,613.87        | 559,632.02         | 36.2645865 | -107.6310561 |
| 4,682.00                            | 2.50            | 136.29      | 4,653.53              | -337.93      | 323.90       | 1,915,612.10        | 559,633.44         | 36.2645816 | -107.6310513 |

|           |                     |                              |                                               |
|-----------|---------------------|------------------------------|-----------------------------------------------|
| Company:  | WPX Energy          | Local Co-ordinate Reference: | Well NW Lybrook UT #134H                      |
| Project:  | T24N R8W            | TVD Reference:               | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| Site:     | Chaco 2408-360      | MD Reference:                | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| Well:     | NW Lybrook UT #134H | North Reference:             | True                                          |
| Wellbore: | Wellbore #1         | Survey Calculation Method:   | Minimum Curvature                             |
| Design:   | Wellbore #1         | Database:                    | Grand Junction District                       |

**Survey**

| Measured Depth (usft)               | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude   | Longitude    |
|-------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------|--------------|
| 4,727.00                            | 0.74            | 171.71      | 4,698.51              | -338.92      | 324.62       | 1,915,611.11        | 559,634.17         | 36.2645789 | -107.6310489 |
| <b>Last SDI Surface MWD Survey</b>  |                 |             |                       |              |              |                     |                    |            |              |
| 4,773.00                            | 0.82            | 337.12      | 4,744.51              | -338.91      | 324.53       | 1,915,611.12        | 559,634.08         | 36.2645789 | -107.6310492 |
| <b>First SDI Curve MWD Survey</b>   |                 |             |                       |              |              |                     |                    |            |              |
| 4,818.00                            | 3.57            | 282.76      | 4,789.47              | -338.31      | 323.04       | 1,915,611.72        | 559,632.59         | 36.2645806 | -107.6310542 |
| 4,864.00                            | 6.40            | 273.22      | 4,835.30              | -337.85      | 319.09       | 1,915,612.17        | 559,628.63         | 36.2645818 | -107.6310677 |
| 4,909.00                            | 9.24            | 273.33      | 4,879.87              | -337.50      | 312.97       | 1,915,612.51        | 559,622.52         | 36.2645828 | -107.6310884 |
| 4,955.00                            | 12.37           | 272.90      | 4,925.05              | -337.03      | 304.36       | 1,915,612.96        | 559,613.91         | 36.2645841 | -107.6311176 |
| 5,000.00                            | 15.17           | 270.80      | 4,968.75              | -336.71      | 293.66       | 1,915,613.26        | 559,603.20         | 36.2645850 | -107.6311539 |
| 5,046.00                            | 19.37           | 269.92      | 5,012.67              | -336.63      | 280.01       | 1,915,613.31        | 559,589.55         | 36.2645852 | -107.6312002 |
| 5,092.00                            | 22.83           | 267.83      | 5,055.58              | -336.98      | 263.46       | 1,915,612.92        | 559,573.00         | 36.2645842 | -107.6312564 |
| 5,137.00                            | 26.99           | 267.47      | 5,096.39              | -337.76      | 244.52       | 1,915,612.10        | 559,554.07         | 36.2645821 | -107.6313206 |
| 5,183.00                            | 30.08           | 266.59      | 5,136.79              | -338.91      | 222.58       | 1,915,610.91        | 559,532.13         | 36.2645789 | -107.6313950 |
| 5,228.00                            | 32.94           | 269.04      | 5,175.16              | -339.79      | 199.09       | 1,915,609.99        | 559,508.63         | 36.2645765 | -107.6314747 |
| 5,274.00                            | 36.87           | 271.45      | 5,212.87              | -339.65      | 172.77       | 1,915,610.07        | 559,482.32         | 36.2645769 | -107.6315640 |
| 5,320.00                            | 40.37           | 270.06      | 5,248.81              | -339.28      | 144.07       | 1,915,610.38        | 559,453.62         | 36.2645779 | -107.6316613 |
| 5,365.00                            | 44.23           | 268.91      | 5,282.09              | -339.56      | 113.79       | 1,915,610.03        | 559,423.34         | 36.2645771 | -107.6317640 |
| 5,411.00                            | 47.07           | 267.98      | 5,314.24              | -340.46      | 80.92        | 1,915,609.06        | 559,390.47         | 36.2645747 | -107.6318756 |
| 5,456.00                            | 51.01           | 266.27      | 5,343.73              | -342.18      | 46.99        | 1,915,607.27        | 559,356.54         | 36.2645699 | -107.6319906 |
| 5,502.00                            | 56.55           | 267.00      | 5,370.91              | -344.35      | 9.95         | 1,915,605.03        | 559,319.51         | 36.2645640 | -107.6321163 |
| 5,548.00                            | 61.89           | 269.24      | 5,394.44              | -345.63      | -29.53       | 1,915,603.67        | 559,280.03         | 36.2645605 | -107.6322502 |
| 5,593.00                            | 63.21           | 269.22      | 5,415.18              | -346.16      | -69.46       | 1,915,603.05        | 559,240.11         | 36.2645590 | -107.6323856 |
| 5,639.00                            | 63.74           | 268.93      | 5,435.73              | -346.83      | -110.61      | 1,915,602.30        | 559,198.95         | 36.2645572 | -107.6325252 |
| 5,684.00                            | 66.48           | 269.80      | 5,454.66              | -347.28      | -151.42      | 1,915,601.77        | 559,158.14         | 36.2645559 | -107.6326637 |
| 5,730.00                            | 70.86           | 269.30      | 5,471.39              | -347.62      | -194.26      | 1,915,601.34        | 559,115.31         | 36.2645550 | -107.6328090 |
| 5,775.00                            | 75.34           | 269.42      | 5,484.47              | -348.10      | -237.30      | 1,915,600.77        | 559,072.26         | 36.2645537 | -107.6329550 |
| 5,821.00                            | 78.84           | 270.00      | 5,494.75              | -348.32      | -282.13      | 1,915,600.45        | 559,027.43         | 36.2645531 | -107.6331070 |
| 5,867.00                            | 81.67           | 269.78      | 5,502.53              | -348.41      | -327.46      | 1,915,600.27        | 558,982.10         | 36.2645528 | -107.6332608 |
| 5,899.00                            | 85.09           | 270.78      | 5,506.22              | -348.25      | -359.24      | 1,915,600.36        | 558,950.32         | 36.2645533 | -107.6333686 |
| <b>Last SDI Curve MWD Survey</b>    |                 |             |                       |              |              |                     |                    |            |              |
| 5,946.00                            | 87.05           | 271.05      | 5,509.44              | -347.50      | -406.13      | 1,915,601.01        | 558,903.44         | 36.2645553 | -107.6335276 |
| <b>7" Casing @ 5946' MD</b>         |                 |             |                       |              |              |                     |                    |            |              |
| 5,990.00                            | 88.89           | 271.31      | 5,511.00              | -346.59      | -450.09      | 1,915,601.83        | 558,859.48         | 36.2645578 | -107.6336768 |
| <b>First SDI Lateral MWD Survey</b> |                 |             |                       |              |              |                     |                    |            |              |
| 6,035.00                            | 89.26           | 271.38      | 5,511.72              | -345.54      | -495.07      | 1,915,602.79        | 558,814.49         | 36.2645607 | -107.6338293 |
| 6,081.00                            | 90.03           | 271.14      | 5,512.01              | -344.53      | -541.06      | 1,915,603.71        | 558,768.50         | 36.2645635 | -107.6339853 |
| 6,126.00                            | 90.17           | 270.86      | 5,511.93              | -343.74      | -586.05      | 1,915,604.40        | 558,723.51         | 36.2645656 | -107.6341380 |
| 6,172.00                            | 90.30           | 270.81      | 5,511.74              | -343.07      | -632.04      | 1,915,604.97        | 558,677.51         | 36.2645675 | -107.6342940 |
| 6,217.00                            | 90.81           | 271.00      | 5,511.31              | -342.36      | -677.04      | 1,915,605.59        | 558,632.52         | 36.2645694 | -107.6344466 |
| 6,263.00                            | 91.51           | 270.88      | 5,510.37              | -341.61      | -723.02      | 1,915,606.25        | 558,586.53         | 36.2645715 | -107.6346026 |
| 6,309.00                            | 91.08           | 269.61      | 5,509.33              | -341.41      | -769.01      | 1,915,606.35        | 558,540.55         | 36.2645720 | -107.6347586 |
| 6,354.00                            | 90.00           | 269.56      | 5,508.91              | -341.74      | -814.00      | 1,915,605.93        | 558,495.55         | 36.2645711 | -107.6349112 |
| 6,400.00                            | 90.37           | 269.32      | 5,508.76              | -342.19      | -860.00      | 1,915,605.39        | 558,449.55         | 36.2645699 | -107.6350672 |
| 6,445.00                            | 90.87           | 269.37      | 5,508.27              | -342.70      | -904.99      | 1,915,604.78        | 558,404.56         | 36.2645685 | -107.6352198 |
| 6,491.00                            | 90.20           | 270.03      | 5,507.85              | -342.94      | -950.99      | 1,915,604.44        | 558,358.57         | 36.2645678 | -107.6353759 |
| 6,537.00                            | 90.87           | 269.96      | 5,507.42              | -342.94      | -996.99      | 1,915,604.34        | 558,312.57         | 36.2645678 | -107.6355319 |
| 6,582.00                            | 90.67           | 270.24      | 5,506.81              | -342.87      | -1,041.99    | 1,915,604.33        | 558,267.57         | 36.2645680 | -107.6356845 |
| 6,627.00                            | 90.77           | 269.96      | 5,506.25              | -342.79      | -1,086.98    | 1,915,604.31        | 558,222.58         | 36.2645682 | -107.6358372 |
| 6,673.00                            | 89.93           | 270.82      | 5,505.96              | -342.47      | -1,132.98    | 1,915,604.53        | 558,176.58         | 36.2645691 | -107.6359932 |
| 6,719.00                            | 90.40           | 271.25      | 5,505.83              | -341.64      | -1,178.97    | 1,915,605.27        | 558,130.58         | 36.2645714 | -107.6361492 |
| 6,764.00                            | 90.97           | 271.44      | 5,505.29              | -340.59      | -1,223.95    | 1,915,606.23        | 558,085.60         | 36.2645742 | -107.6363018 |
| 6,810.00                            | 89.93           | 271.35      | 5,504.93              | -339.47      | -1,269.94    | 1,915,607.25        | 558,039.61         | 36.2645773 | -107.6364578 |
| 6,855.00                            | 90.20           | 271.26      | 5,504.88              | -338.44      | -1,314.93    | 1,915,608.18        | 557,994.62         | 36.2645801 | -107.6366104 |
| 6,901.00                            | 90.17           | 271.21      | 5,504.73              | -337.45      | -1,360.92    | 1,915,609.08        | 557,948.63         | 36.2645828 | -107.6367664 |

|           |                     |                              |                                               |
|-----------|---------------------|------------------------------|-----------------------------------------------|
| Company:  | WPX Energy          | Local Co-ordinate Reference: | Well NW Lybrook UT #134H                      |
| Project:  | T24N R8W            | TVD Reference:               | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| Site:     | Chaco 2408-360      | MD Reference:                | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| Well:     | NW Lybrook UT #134H | North Reference:             | True                                          |
| Wellbore: | Wellbore #1         | Survey Calculation Method:   | Minimum Curvature                             |
| Design:   | Wellbore #1         | Database:                    | Grand Junction District                       |

| Survey                |                 |             |                       |              |              |                     |                    |            |              |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------|--------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude   | Longitude    |  |
| 6,946.00              | 90.13           | 270.74      | 5,504.62              | -336.69      | -1,405.91    | 1,915,609.75        | 557,903.64         | 36.2645849 | -107.6369190 |  |
| 6,992.00              | 90.77           | 269.36      | 5,504.25              | -336.65      | -1,451.91    | 1,915,609.70        | 557,857.64         | 36.2645850 | -107.6370750 |  |
| 7,037.00              | 91.10           | 269.01      | 5,503.52              | -337.29      | -1,496.90    | 1,915,608.96        | 557,812.65         | 36.2645833 | -107.6372276 |  |
| 7,082.00              | 90.77           | 268.39      | 5,502.79              | -338.31      | -1,541.88    | 1,915,607.85        | 557,767.67         | 36.2645805 | -107.6373802 |  |
| 7,128.00              | 90.47           | 267.18      | 5,502.29              | -340.08      | -1,587.84    | 1,915,605.98        | 557,721.71         | 36.2645756 | -107.6375381 |  |
| 7,173.00              | 90.13           | 266.94      | 5,502.05              | -342.39      | -1,632.78    | 1,915,603.57        | 557,676.78         | 36.2645692 | -107.6376885 |  |
| 7,219.00              | 90.48           | 266.64      | 5,501.81              | -344.97      | -1,678.71    | 1,915,600.90        | 557,630.86         | 36.2645622 | -107.6378443 |  |
| 7,264.00              | 90.30           | 267.91      | 5,501.50              | -347.11      | -1,723.65    | 1,915,598.67        | 557,585.91         | 36.2645563 | -107.6379968 |  |
| 7,310.00              | 90.50           | 267.51      | 5,501.18              | -348.94      | -1,769.62    | 1,915,596.74        | 557,539.95         | 36.2645512 | -107.6381527 |  |
| 7,355.00              | 90.47           | 268.04      | 5,500.80              | -350.69      | -1,814.58    | 1,915,594.90        | 557,494.99         | 36.2645464 | -107.6383052 |  |
| 7,401.00              | 90.97           | 267.37      | 5,500.22              | -352.53      | -1,860.54    | 1,915,592.96        | 557,449.04         | 36.2645413 | -107.6384611 |  |
| 7,447.00              | 90.81           | 267.25      | 5,499.51              | -354.69      | -1,906.48    | 1,915,590.71        | 557,403.10         | 36.2645354 | -107.6386170 |  |
| 7,492.00              | 90.03           | 267.89      | 5,499.18              | -356.60      | -1,951.44    | 1,915,588.70        | 557,358.15         | 36.2645301 | -107.6387695 |  |
| 7,538.00              | 90.17           | 268.64      | 5,499.10              | -357.99      | -1,997.42    | 1,915,587.22        | 557,312.17         | 36.2645263 | -107.6389254 |  |
| 7,583.00              | 90.13           | 268.72      | 5,498.98              | -359.03      | -2,042.41    | 1,915,586.09        | 557,267.18         | 36.2645235 | -107.6390780 |  |
| 7,629.00              | 90.87           | 268.93      | 5,498.58              | -359.97      | -2,088.40    | 1,915,585.05        | 557,221.20         | 36.2645209 | -107.6392340 |  |
| 7,674.00              | 90.74           | 270.17      | 5,497.94              | -360.33      | -2,133.39    | 1,915,584.60        | 557,176.21         | 36.2645199 | -107.6393866 |  |
| 7,720.00              | 91.31           | 270.49      | 5,497.12              | -360.06      | -2,179.38    | 1,915,584.77        | 557,130.21         | 36.2645206 | -107.6395427 |  |
| 7,765.00              | 91.11           | 271.20      | 5,496.17              | -359.40      | -2,224.37    | 1,915,585.34        | 557,085.23         | 36.2645224 | -107.6396952 |  |
| 7,810.00              | 89.90           | 272.37      | 5,495.78              | -358.00      | -2,269.34    | 1,915,586.65        | 557,040.25         | 36.2645262 | -107.6398478 |  |
| 7,856.00              | 90.27           | 272.08      | 5,495.71              | -356.21      | -2,315.31    | 1,915,588.34        | 556,994.28         | 36.2645311 | -107.6400037 |  |
| 7,901.00              | 91.17           | 272.15      | 5,495.14              | -354.55      | -2,360.27    | 1,915,589.91        | 556,949.31         | 36.2645357 | -107.6401562 |  |
| 7,947.00              | 91.88           | 272.23      | 5,493.92              | -352.79      | -2,406.22    | 1,915,591.57        | 556,903.36         | 36.2645405 | -107.6403121 |  |
| 7,992.00              | 91.14           | 273.14      | 5,492.73              | -350.68      | -2,451.16    | 1,915,593.58        | 556,858.42         | 36.2645463 | -107.6404645 |  |
| 8,038.00              | 90.87           | 273.18      | 5,491.92              | -348.15      | -2,497.08    | 1,915,596.02        | 556,812.49         | 36.2645532 | -107.6406203 |  |
| 8,098.00              | 89.76           | 273.12      | 5,491.59              | -344.85      | -2,556.99    | 1,915,599.19        | 556,752.58         | 36.2645623 | -107.6408235 |  |
| 8,128.00              | 90.17           | 272.98      | 5,491.61              | -343.26      | -2,586.94    | 1,915,600.73        | 556,722.62         | 36.2645667 | -107.6409251 |  |
| 8,159.00              | 89.80           | 273.16      | 5,491.62              | -341.60      | -2,617.90    | 1,915,602.32        | 556,691.66         | 36.2645712 | -107.6410301 |  |
| 8,189.00              | 90.03           | 273.27      | 5,491.67              | -339.91      | -2,647.85    | 1,915,603.94        | 556,661.70         | 36.2645758 | -107.6411317 |  |
| 8,220.00              | 90.44           | 273.33      | 5,491.54              | -338.13      | -2,678.80    | 1,915,605.66        | 556,630.75         | 36.2645807 | -107.6412367 |  |
| 8,250.00              | 90.13           | 271.89      | 5,491.39              | -336.76      | -2,708.77    | 1,915,606.97        | 556,600.78         | 36.2645845 | -107.6413384 |  |
| 8,280.00              | 90.20           | 271.73      | 5,491.30              | -335.82      | -2,738.75    | 1,915,607.85        | 556,570.79         | 36.2645871 | -107.6414401 |  |
| 8,310.00              | 90.03           | 271.55      | 5,491.24              | -334.96      | -2,768.74    | 1,915,608.65        | 556,540.80         | 36.2645894 | -107.6415418 |  |
| 8,341.00              | 90.30           | 271.79      | 5,491.15              | -334.05      | -2,799.73    | 1,915,609.49        | 556,509.82         | 36.2645919 | -107.6416469 |  |
| 8,371.00              | 90.30           | 272.09      | 5,491.00              | -333.04      | -2,829.71    | 1,915,610.44        | 556,479.83         | 36.2645947 | -107.6417486 |  |
| 8,401.00              | 90.67           | 272.03      | 5,490.74              | -331.96      | -2,859.69    | 1,915,611.46        | 556,449.85         | 36.2645976 | -107.6418503 |  |
| 8,431.00              | 90.54           | 271.43      | 5,490.43              | -331.05      | -2,889.67    | 1,915,612.30        | 556,419.86         | 36.2646001 | -107.6419520 |  |
| 8,462.00              | 90.00           | 270.97      | 5,490.28              | -330.40      | -2,920.67    | 1,915,612.89        | 556,388.87         | 36.2646019 | -107.6420572 |  |
| 8,493.00              | 90.07           | 270.83      | 5,490.26              | -329.92      | -2,951.66    | 1,915,613.31        | 556,357.87         | 36.2646032 | -107.6421623 |  |
| 8,538.00              | 90.17           | 271.11      | 5,490.17              | -329.16      | -2,986.65    | 1,915,613.98        | 556,312.88         | 36.2646053 | -107.6423149 |  |
| 8,583.00              | 89.87           | 271.18      | 5,490.15              | -328.26      | -3,041.65    | 1,915,614.78        | 556,267.88         | 36.2646077 | -107.6424675 |  |
| 8,628.00              | 90.20           | 271.01      | 5,490.12              | -327.40      | -3,086.64    | 1,915,615.55        | 556,222.89         | 36.2646101 | -107.6426202 |  |
| 8,674.00              | 90.71           | 269.86      | 5,489.76              | -327.05      | -3,132.63    | 1,915,615.80        | 556,176.89         | 36.2646110 | -107.6427762 |  |
| 8,719.00              | 90.00           | 269.99      | 5,489.48              | -327.11      | -3,177.63    | 1,915,615.65        | 556,131.90         | 36.2646109 | -107.6429288 |  |
| 8,765.00              | 90.03           | 269.49      | 5,489.47              | -327.32      | -3,223.63    | 1,915,615.35        | 556,085.90         | 36.2646103 | -107.6430848 |  |
| 8,810.00              | 90.24           | 269.72      | 5,489.36              | -327.63      | -3,268.63    | 1,915,614.94        | 556,040.90         | 36.2646094 | -107.6432375 |  |
| 8,857.00              | 90.30           | 269.47      | 5,489.14              | -327.96      | -3,315.63    | 1,915,614.51        | 555,993.90         | 36.2646085 | -107.6433969 |  |
| 8,902.00              | 89.80           | 268.93      | 5,489.10              | -328.59      | -3,360.62    | 1,915,613.79        | 555,948.91         | 36.2646067 | -107.6435495 |  |
| 8,948.00              | 90.34           | 268.73      | 5,489.04              | -329.53      | -3,406.61    | 1,915,612.76        | 555,902.92         | 36.2646041 | -107.6437055 |  |
| 8,993.00              | 90.40           | 268.67      | 5,488.75              | -330.55      | -3,451.60    | 1,915,611.64        | 555,857.93         | 36.2646013 | -107.6438581 |  |
| 9,039.00              | 91.08           | 268.98      | 5,488.16              | -331.49      | -3,497.59    | 1,915,610.60        | 555,811.95         | 36.2645987 | -107.6440141 |  |
| 9,070.00              | 91.82           | 269.00      | 5,487.37              | -332.04      | -3,528.57    | 1,915,609.99        | 555,780.97         | 36.2645972 | -107.6441192 |  |
| 9,099.00              | 91.24           | 269.55      | 5,486.60              | -332.40      | -3,557.56    | 1,915,609.57        | 555,751.98         | 36.2645962 | -107.6442176 |  |
| 9,129.00              | 91.28           | 269.80      | 5,485.94              | -332.57      | -3,587.55    | 1,915,609.33        | 555,721.99         | 36.2645957 | -107.6443193 |  |
| 9,174.00              | 91.01           | 270.68      | 5,485.04              | -332.38      | -3,632.54    | 1,915,609.43        | 555,677.00         | 36.2645962 | -107.6444719 |  |

|           |                     |                              |                                               |
|-----------|---------------------|------------------------------|-----------------------------------------------|
| Company:  | WPX Energy          | Local Co-ordinate Reference: | Well NW Lybrook UT #134H                      |
| Project:  | T24N R8W            | TVD Reference:               | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| Site:     | Chaco 2408-360      | MD Reference:                | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| Well:     | NW Lybrook UT #134H | North Reference:             | True                                          |
| Wellbore: | Wellbore #1         | Survey Calculation Method:   | Minimum Curvature                             |
| Design:   | Wellbore #1         | Database:                    | Grand Junction District                       |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude   | Longitude    |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------|--------------|
| 9,220.00              | 90.78           | 270.49      | 5,484.32              | -331.91      | -3,678.53    | 1,915,609.80        | 555,631.01         | 36.2645975 | -107.6446279 |
| 9,265.00              | 89.87           | 270.42      | 5,484.07              | -331.56      | -3,723.53    | 1,915,610.07        | 555,586.01         | 36.2645985 | -107.6447805 |
| 9,311.00              | 89.83           | 269.31      | 5,484.19              | -331.67      | -3,769.53    | 1,915,609.86        | 555,540.01         | 36.2645981 | -107.6449366 |
| 9,356.00              | 90.37           | 269.65      | 5,484.11              | -332.07      | -3,814.53    | 1,915,609.36        | 555,495.01         | 36.2645970 | -107.6450892 |
| 9,402.00              | 90.03           | 268.68      | 5,483.95              | -332.74      | -3,860.52    | 1,915,608.59        | 555,449.02         | 36.2645951 | -107.6452452 |
| 9,447.00              | 89.96           | 268.92      | 5,483.95              | -333.69      | -3,905.51    | 1,915,607.56        | 555,404.03         | 36.2645925 | -107.6453978 |
| 9,493.00              | 89.83           | 268.32      | 5,484.04              | -334.79      | -3,951.50    | 1,915,606.36        | 555,358.05         | 36.2645895 | -107.6455538 |
| 9,538.00              | 90.10           | 268.35      | 5,484.06              | -336.10      | -3,996.48    | 1,915,604.95        | 555,313.07         | 36.2645859 | -107.6457064 |
| 9,584.00              | 89.96           | 267.87      | 5,484.04              | -337.62      | -4,042.46    | 1,915,603.34        | 555,267.10         | 36.2645817 | -107.6458624 |
| 9,629.00              | 90.03           | 267.55      | 5,484.04              | -339.42      | -4,087.42    | 1,915,601.45        | 555,222.14         | 36.2645767 | -107.6460149 |
| 9,676.00              | 90.13           | 267.34      | 5,483.98              | -341.51      | -4,134.37    | 1,915,599.26        | 555,175.19         | 36.2645710 | -107.6461741 |
| 9,720.00              | 90.54           | 267.68      | 5,483.72              | -343.42      | -4,178.33    | 1,915,597.25        | 555,131.23         | 36.2645657 | -107.6463233 |
| 9,767.00              | 90.64           | 268.60      | 5,483.24              | -344.95      | -4,225.30    | 1,915,595.63        | 555,084.27         | 36.2645615 | -107.6464826 |
| 9,812.00              | 90.94           | 268.72      | 5,482.62              | -346.00      | -4,270.29    | 1,915,594.49        | 555,039.28         | 36.2645586 | -107.6466352 |
| 9,857.00              | 90.75           | 269.01      | 5,481.95              | -346.89      | -4,315.27    | 1,915,593.50        | 554,994.30         | 36.2645561 | -107.6467878 |
| 9,902.00              | 90.87           | 269.68      | 5,481.32              | -347.41      | -4,360.26    | 1,915,592.89        | 554,949.31         | 36.2645547 | -107.6469404 |
| 9,948.00              | 90.71           | 270.38      | 5,480.68              | -347.38      | -4,406.26    | 1,915,592.82        | 554,903.31         | 36.2645547 | -107.6470964 |
| 10,000.00             | 89.77           | 272.22      | 5,480.47              | -346.20      | -4,458.24    | 1,915,593.89        | 554,851.33         | 36.2645579 | -107.6472727 |
| 10,046.00             | 90.51           | 272.23      | 5,480.35              | -344.42      | -4,504.21    | 1,915,595.58        | 554,805.36         | 36.2645628 | -107.6474287 |
| 10,091.00             | 90.20           | 272.06      | 5,480.07              | -342.73      | -4,549.18    | 1,915,597.18        | 554,760.39         | 36.2645674 | -107.6475812 |
| 10,137.00             | 89.83           | 271.98      | 5,480.06              | -341.11      | -4,595.15    | 1,915,598.70        | 554,714.41         | 36.2645719 | -107.6477371 |
| 10,182.00             | 89.73           | 271.34      | 5,480.23              | -339.81      | -4,640.13    | 1,915,599.91        | 554,669.43         | 36.2645754 | -107.6478897 |
| 10,228.00             | 89.46           | 270.79      | 5,480.56              | -338.95      | -4,686.12    | 1,915,600.67        | 554,623.44         | 36.2645777 | -107.6480457 |
| 10,273.00             | 90.17           | 270.60      | 5,480.71              | -338.41      | -4,731.11    | 1,915,601.12        | 554,578.44         | 36.2645792 | -107.6481983 |
| 10,319.00             | 90.20           | 270.67      | 5,480.56              | -337.90      | -4,777.11    | 1,915,601.54        | 554,532.44         | 36.2645806 | -107.6483544 |
| 10,364.00             | 90.40           | 270.89      | 5,480.32              | -337.29      | -4,822.11    | 1,915,602.06        | 554,487.45         | 36.2645823 | -107.6485070 |
| 10,410.00             | 90.17           | 270.58      | 5,480.09              | -336.70      | -4,868.10    | 1,915,602.55        | 554,441.45         | 36.2645839 | -107.6486630 |
| 10,455.00             | 90.17           | 271.01      | 5,479.96              | -336.07      | -4,913.10    | 1,915,603.08        | 554,396.45         | 36.2645856 | -107.6488156 |
| 10,502.00             | 89.90           | 270.71      | 5,479.93              | -335.37      | -4,960.09    | 1,915,603.69        | 554,349.46         | 36.2645875 | -107.6489751 |
| 10,547.00             | 90.10           | 271.22      | 5,479.93              | -334.61      | -5,005.09    | 1,915,604.35        | 554,304.46         | 36.2645895 | -107.6491277 |
| 10,592.00             | 90.00           | 271.25      | 5,479.89              | -333.64      | -5,050.07    | 1,915,605.23        | 554,259.47         | 36.2645922 | -107.6492803 |
| 10,637.00             | 89.60           | 270.91      | 5,480.05              | -332.79      | -5,095.07    | 1,915,605.99        | 554,214.48         | 36.2645945 | -107.6494329 |
| 10,682.00             | 89.46           | 270.94      | 5,480.42              | -332.06      | -5,140.06    | 1,915,606.62        | 554,169.48         | 36.2645965 | -107.6495855 |
| 10,727.00             | 89.90           | 271.44      | 5,480.67              | -331.13      | -5,185.05    | 1,915,607.46        | 554,124.49         | 36.2645990 | -107.6497381 |
| 10,774.00             | 89.87           | 271.09      | 5,480.76              | -330.09      | -5,232.04    | 1,915,608.40        | 554,077.50         | 36.2646018 | -107.6498975 |
| 10,819.00             | 90.61           | 270.99      | 5,480.57              | -329.27      | -5,277.03    | 1,915,609.12        | 554,032.51         | 36.2646041 | -107.6500501 |
| 10,865.00             | 90.13           | 270.95      | 5,480.28              | -328.50      | -5,323.02    | 1,915,609.81        | 553,986.52         | 36.2646062 | -107.6502061 |
| 10,910.00             | 90.50           | 270.67      | 5,480.03              | -327.86      | -5,368.02    | 1,915,610.35        | 553,941.52         | 36.2646079 | -107.6503588 |
| 10,956.00             | 90.23           | 270.45      | 5,479.74              | -327.41      | -5,414.01    | 1,915,610.70        | 553,895.52         | 36.2646091 | -107.6505148 |
| 11,001.00             | 90.22           | 270.95      | 5,479.56              | -326.86      | -5,459.01    | 1,915,611.16        | 553,850.52         | 36.2646106 | -107.6506674 |
| 11,047.00             | 90.07           | 270.91      | 5,479.44              | -326.11      | -5,505.00    | 1,915,611.81        | 553,804.53         | 36.2646126 | -107.6508234 |
| 11,092.00             | 89.90           | 271.17      | 5,479.46              | -325.30      | -5,549.99    | 1,915,612.53        | 553,759.54         | 36.2646148 | -107.6509761 |
| 11,137.00             | 90.34           | 270.29      | 5,479.36              | -324.72      | -5,594.99    | 1,915,613.01        | 553,714.54         | 36.2646164 | -107.6511287 |
| 11,183.00             | 90.04           | 270.24      | 5,479.21              | -324.51      | -5,640.99    | 1,915,613.13        | 553,668.54         | 36.2646170 | -107.6512847 |
| 11,228.00             | 89.93           | 270.21      | 5,479.22              | -324.33      | -5,685.99    | 1,915,613.21        | 553,623.54         | 36.2646174 | -107.6514374 |
| 11,274.00             | 90.47           | 269.91      | 5,479.06              | -324.29      | -5,731.99    | 1,915,613.17        | 553,577.54         | 36.2646175 | -107.6515934 |
| 11,320.00             | 90.04           | 269.80      | 5,478.86              | -324.40      | -5,777.99    | 1,915,612.95        | 553,531.54         | 36.2646172 | -107.6517494 |
| 11,365.00             | 90.57           | 268.83      | 5,478.62              | -324.94      | -5,822.98    | 1,915,612.32        | 553,486.55         | 36.2646157 | -107.6519021 |
| 11,411.00             | 90.17           | 268.38      | 5,478.32              | -326.06      | -5,868.97    | 1,915,611.11        | 553,440.56         | 36.2646126 | -107.6520580 |
| 11,456.00             | 90.00           | 268.11      | 5,478.25              | -327.44      | -5,913.95    | 1,915,609.64        | 553,395.59         | 36.2646088 | -107.6522106 |
| 11,502.00             | 90.27           | 268.27      | 5,478.14              | -328.89      | -5,959.92    | 1,915,608.09        | 553,349.61         | 36.2646047 | -107.6523666 |
| 11,548.00             | 90.04           | 268.49      | 5,478.02              | -330.19      | -6,005.91    | 1,915,606.69        | 553,303.64         | 36.2646011 | -107.6525225 |
| 11,593.00             | 89.90           | 268.77      | 5,478.04              | -331.27      | -6,050.89    | 1,915,605.52        | 553,258.65         | 36.2645982 | -107.6526751 |
| 11,639.00             | 89.97           | 269.88      | 5,478.09              | -331.81      | -6,096.89    | 1,915,604.88        | 553,212.66         | 36.2645966 | -107.6528312 |
| 11,684.00             | 90.24           | 269.42      | 5,478.01              | -332.08      | -6,141.89    | 1,915,604.52        | 553,167.66         | 36.2645959 | -107.6529838 |

Company: WPX Energy  
 Project: T24N R8W  
 Site: Chaco 2408-360  
 Well: NW Lybrook UT #134H  
 Wellbore: Wellbore #1  
 Design: Wellbore #1

Local Co-ordinate Reference: Well NW Lybrook UT #134H  
 TVD Reference: GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000)  
 MD Reference: GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: Grand Junction District

**Survey**

| Measured Depth (usft)              | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude   | Longitude    |
|------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------|--------------|
| 11,730.00                          | 89.87           | 269.54      | 5,477.97              | -332.50      | -6,187.89    | 1,915,604.00        | 553,121.66         | 36.2645947 | -107.6531398 |
| 11,775.00                          | 89.69           | 269.89      | 5,478.14              | -332.73      | -6,232.88    | 1,915,603.69        | 553,076.66         | 36.2645940 | -107.6532925 |
| 11,821.00                          | 89.53           | 269.64      | 5,478.45              | -332.91      | -6,278.88    | 1,915,603.40        | 553,030.66         | 36.2645935 | -107.6534485 |
| 11,866.00                          | 90.22           | 269.72      | 5,478.55              | -333.17      | -6,323.88    | 1,915,603.06        | 552,985.67         | 36.2645928 | -107.6536011 |
| 11,912.00                          | 90.40           | 269.86      | 5,478.30              | -333.33      | -6,369.88    | 1,915,602.79        | 552,939.67         | 36.2645923 | -107.6537572 |
| 11,957.00                          | 90.40           | 269.68      | 5,477.99              | -333.51      | -6,414.88    | 1,915,602.52        | 552,894.67         | 36.2645918 | -107.6539098 |
| 12,003.00                          | 90.44           | 270.19      | 5,477.65              | -333.57      | -6,460.88    | 1,915,602.37        | 552,848.67         | 36.2645916 | -107.6540658 |
| 12,048.00                          | 90.34           | 269.57      | 5,477.35              | -333.66      | -6,505.88    | 1,915,602.18        | 552,803.67         | 36.2645913 | -107.6542185 |
| 12,094.00                          | 90.50           | 269.65      | 5,477.01              | -333.97      | -6,551.87    | 1,915,601.77        | 552,757.68         | 36.2645904 | -107.6543745 |
| 12,139.00                          | 89.43           | 268.66      | 5,477.04              | -334.64      | -6,596.87    | 1,915,601.02        | 552,712.68         | 36.2645886 | -107.6545271 |
| 12,185.00                          | 90.27           | 268.50      | 5,477.16              | -335.78      | -6,642.85    | 1,915,599.78        | 552,666.70         | 36.2645854 | -107.6546831 |
| 12,231.00                          | 90.03           | 268.44      | 5,477.04              | -337.01      | -6,688.84    | 1,915,598.46        | 552,620.72         | 36.2645820 | -107.6548391 |
| 12,276.00                          | 89.96           | 268.92      | 5,477.04              | -338.04      | -6,733.83    | 1,915,597.33        | 552,575.73         | 36.2645791 | -107.6549917 |
| 12,322.00                          | 89.93           | 268.41      | 5,477.08              | -339.11      | -6,779.81    | 1,915,596.16        | 552,529.75         | 36.2645762 | -107.6551477 |
| 12,367.00                          | 89.50           | 269.44      | 5,477.31              | -339.96      | -6,824.80    | 1,915,595.22        | 552,484.76         | 36.2645738 | -107.6553003 |
| 12,413.00                          | 90.00           | 269.84      | 5,477.51              | -340.25      | -6,870.80    | 1,915,594.84        | 552,438.76         | 36.2645730 | -107.6554563 |
| 12,459.00                          | 89.90           | 269.73      | 5,477.55              | -340.42      | -6,916.80    | 1,915,594.57        | 552,392.76         | 36.2645725 | -107.6556124 |
| 12,504.00                          | 90.10           | 270.23      | 5,477.55              | -340.44      | -6,961.80    | 1,915,594.46        | 552,347.76         | 36.2645724 | -107.6557650 |
| 12,550.00                          | 90.92           | 270.77      | 5,477.14              | -340.03      | -7,007.80    | 1,915,594.77        | 552,301.77         | 36.2645735 | -107.6559210 |
| 12,595.00                          | 90.30           | 271.70      | 5,476.66              | -339.06      | -7,052.78    | 1,915,595.64        | 552,256.78         | 36.2645761 | -107.6560736 |
| 12,641.00                          | 89.87           | 271.30      | 5,476.59              | -337.86      | -7,098.77    | 1,915,596.75        | 552,210.79         | 36.2645794 | -107.6562296 |
| 12,687.00                          | 90.57           | 271.05      | 5,476.42              | -336.92      | -7,144.76    | 1,915,597.60        | 552,164.80         | 36.2645819 | -107.6563856 |
| 12,732.00                          | 90.51           | 270.39      | 5,475.99              | -336.35      | -7,189.75    | 1,915,598.07        | 552,119.81         | 36.2645835 | -107.6565382 |
| 12,778.00                          | 90.27           | 270.46      | 5,475.68              | -336.01      | -7,235.75    | 1,915,598.32        | 552,073.81         | 36.2645844 | -107.6566943 |
| 12,823.00                          | 91.10           | 271.30      | 5,475.14              | -335.32      | -7,280.74    | 1,915,598.92        | 552,028.82         | 36.2645862 | -107.6568469 |
| 12,869.00                          | 90.10           | 272.36      | 5,474.66              | -333.85      | -7,326.71    | 1,915,600.29        | 551,982.84         | 36.2645902 | -107.6570028 |
| 12,915.00                          | 90.34           | 272.43      | 5,474.48              | -331.93      | -7,372.67    | 1,915,602.12        | 551,936.88         | 36.2645955 | -107.6571587 |
| 12,960.00                          | 90.07           | 271.61      | 5,474.32              | -330.34      | -7,417.64    | 1,915,603.61        | 551,891.90         | 36.2645998 | -107.6573113 |
| 13,005.00                          | 90.70           | 272.17      | 5,474.02              | -328.86      | -7,462.62    | 1,915,605.00        | 551,846.92         | 36.2646039 | -107.6574638 |
| 13,051.00                          | 90.60           | 272.16      | 5,473.50              | -327.12      | -7,508.58    | 1,915,606.64        | 551,800.96         | 36.2646086 | -107.6576197 |
| 13,097.00                          | 90.13           | 271.66      | 5,473.20              | -325.59      | -7,554.55    | 1,915,608.08        | 551,754.98         | 36.2646128 | -107.6577757 |
| 13,143.00                          | 90.57           | 272.03      | 5,472.92              | -324.11      | -7,600.53    | 1,915,609.46        | 551,709.00         | 36.2646168 | -107.6579316 |
| 13,188.00                          | 90.47           | 272.04      | 5,472.51              | -322.51      | -7,645.50    | 1,915,610.97        | 551,664.03         | 36.2646212 | -107.6580842 |
| 13,234.00                          | 90.81           | 272.13      | 5,472.00              | -320.84      | -7,691.47    | 1,915,612.55        | 551,618.06         | 36.2646257 | -107.6582401 |
| 13,279.00                          | 90.75           | 273.14      | 5,471.39              | -318.77      | -7,736.41    | 1,915,614.52        | 551,573.11         | 36.2646314 | -107.6583926 |
| 13,308.00                          | 91.12           | 273.32      | 5,470.91              | -317.13      | -7,785.36    | 1,915,616.09        | 551,544.15         | 36.2646358 | -107.6584908 |
| <b>RSI @ 13,308' MD</b>            |                 |             |                       |              |              |                     |                    |            |              |
| 13,325.00                          | 91.34           | 273.42      | 5,470.55              | -316.14      | -7,782.33    | 1,915,617.06        | 551,527.19         | 36.2646386 | -107.6585483 |
| 13,353.00                          | 91.35           | 273.51      | 5,469.89              | -314.44      | -7,810.27    | 1,915,618.69        | 551,499.24         | 36.2646432 | -107.6586431 |
| <b>Last SDI Lateral MWD Survey</b> |                 |             |                       |              |              |                     |                    |            |              |
| 13,418.00                          | 91.35           | 273.51      | 5,468.36              | -310.46      | -7,875.13    | 1,915,622.54        | 551,434.37         | 36.2646541 | -107.6588631 |
| <b>Projection to TD</b>            |                 |             |                       |              |              |                     |                    |            |              |

|                  |                     |                                     |                                               |
|------------------|---------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | WPX Energy          | <b>Local Co-ordinate Reference:</b> | Well NW Lybrook UT #134H                      |
| <b>Project:</b>  | T24N R8W            | <b>TVD Reference:</b>               | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| <b>Site:</b>     | Chaco 2408-36O      | <b>MD Reference:</b>                | GL 6893' & RKB 25' @ 6918.00usft (Aztec 1000) |
| <b>Well:</b>     | NW Lybrook UT #134H | <b>North Reference:</b>             | True                                          |
| <b>Wellbore:</b> | Wellbore #1         | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | Wellbore #1         | <b>Database:</b>                    | Grand Junction District                       |

**Design Annotations**

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                      |
|-----------------------------|-----------------------------|-------------------|-----------------|------------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                              |
| 55.00                       | 55.00                       | 0.03              | 0.00            | First Gyro Survey            |
| 295.00                      | 294.99                      | 1.24              | -0.37           | Last Gyro Survey             |
| 359.00                      | 358.99                      | 1.93              | -0.84           | First SDI Surface MWD Survey |
| 4,727.00                    | 4,698.51                    | -338.92           | 324.62          | Last SDI Surface MWD Survey  |
| 4,773.00                    | 4,744.51                    | -338.91           | 324.53          | First SDI Curve MWD Survey   |
| 5,899.00                    | 5,506.22                    | -348.25           | -359.24         | Last SDI Curve MWD Survey    |
| 5,946.00                    | 5,509.44                    | -347.50           | -406.13         | 7" Casing @ 5946' MD         |
| 5,990.00                    | 5,511.00                    | -346.59           | -450.09         | First SDI Lateral MWD Survey |
| 13,308.00                   | 5,470.91                    | -317.13           | -7,765.36       | RSI @ 13,308' MD             |
| 13,353.00                   | 5,469.89                    | -314.44           | -7,810.27       | Last SDI Lateral MWD Survey  |
| 13,418.00                   | 5,468.36                    | -310.46           | -7,875.13       | Projection to TD             |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_