

District I  
1625 N. French Drive, Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

District II  
811 S. First Street, 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 Drive, Santa Fe, NM 87505  
Phone: (505) 476-3450 Fax: (505) 476-3452

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. ~~Oil Cons. Div. Dist. 3~~  
Santa Fe, NM 87505

AUG 13 2014

as drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

CONFIDENTIAL

|                             |  |                                              |  |                              |                      |
|-----------------------------|--|----------------------------------------------|--|------------------------------|----------------------|
| *API Number<br>30-043-21188 |  | *Pool Code<br>42289                          |  | *Pool Name<br>LYBROOK GALLUP |                      |
| *Property Code<br>40021     |  | *Property Name<br>CHACO 2306-19E             |  |                              | *Well Number<br>189H |
| *GRID No.<br>120782         |  | *Operator Name<br>WPX ENERGY PRODUCTION, LLC |  |                              | *Elevation<br>6965'  |

10 Surface Location

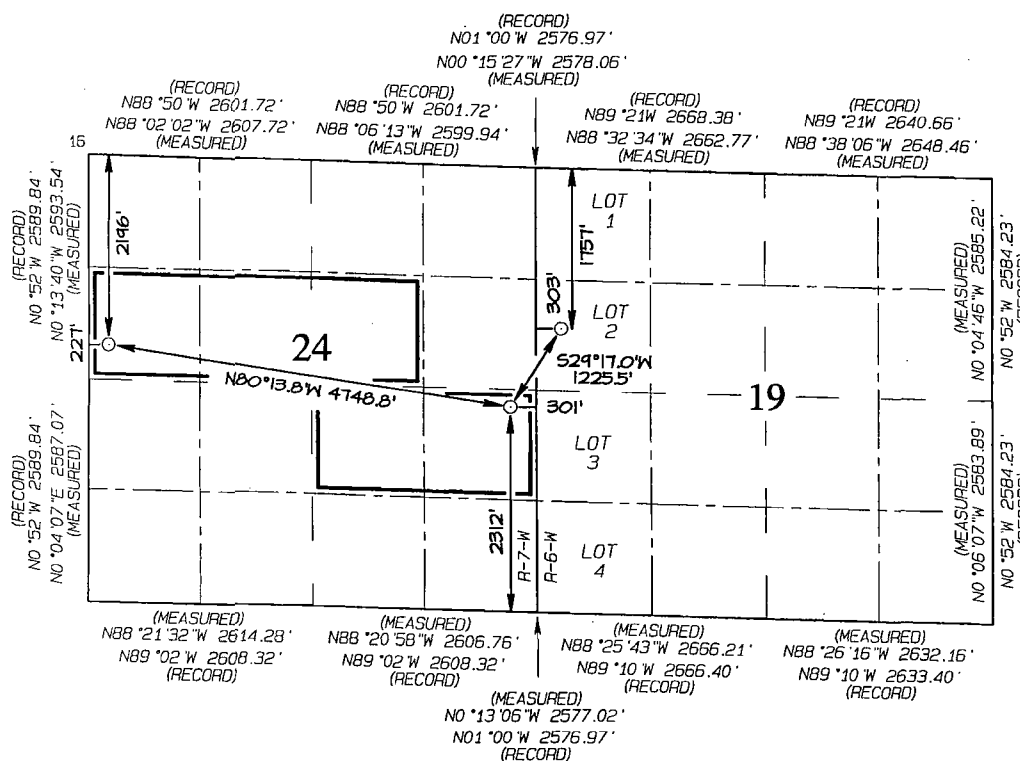
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| E             | 19      | 23N      | 6W    | 2       | 1757          | NORTH            | 303           | WEST           | SANDOVAL |

11 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   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| E             | 24      | 23N      | 7W    |         | 2196          | NORTH            | 227           | WEST           | SANDOVAL |

|                    |                                                             |                    |                       |              |
|--------------------|-------------------------------------------------------------|--------------------|-----------------------|--------------|
| 12 Dedicated Acres | 200.0 Acres - Section 24<br>N/2 SE/4 - S/2 NW/4 - SW/4 NE/4 | 13 Joint or Infill | 14 Consolidation Code | 15 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



END-OF-LATERAL  
2196' FNL 227' FWL  
SECTION 24, T23N, R7W  
LAT: 36.21244°N  
LONG: 107.53462°W  
DATUM: NAD1927

LAT: 36.21245°N  
LONG: 107.53523°W  
DATUM: NAD1983

POINT-OF-ENTRY  
2312' FSL 301' FEL  
SECTION 19, T23N, R7W  
LAT: 36.21040°N  
LONG: 107.51873°W  
DATUM: NAD1927

LAT: 36.21041°N  
LONG: 107.51933°W  
DATUM: NAD1983

SURFACE LOCATION  
1757' FNL 303' FWL  
SECTION 19, T23N, R6W  
LAT: 36.21335°N  
LONG: 107.51674°W  
DATUM: NAD1927

LAT: 36.21337°N  
LONG: 107.51735°W  
DATUM: NAD1983

17 OPERATOR CERTIFICATION  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Greg Higgins* Date: 8/11/14  
Printed Name: *Greg Higgins*  
E-mail Address: *greg.higgins@wpenergy.com*

18 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 24, 2014  
Date of Survey: JULY 10, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS  
Certificate Number 15269



Company Name: WPX Energy Rocky Mountain, LLC  
Project: Sandoval County, NM NAD27  
Site: Chaco 2306-19E  
Well: Chaco 2306-19E #189H

WPXENERGY



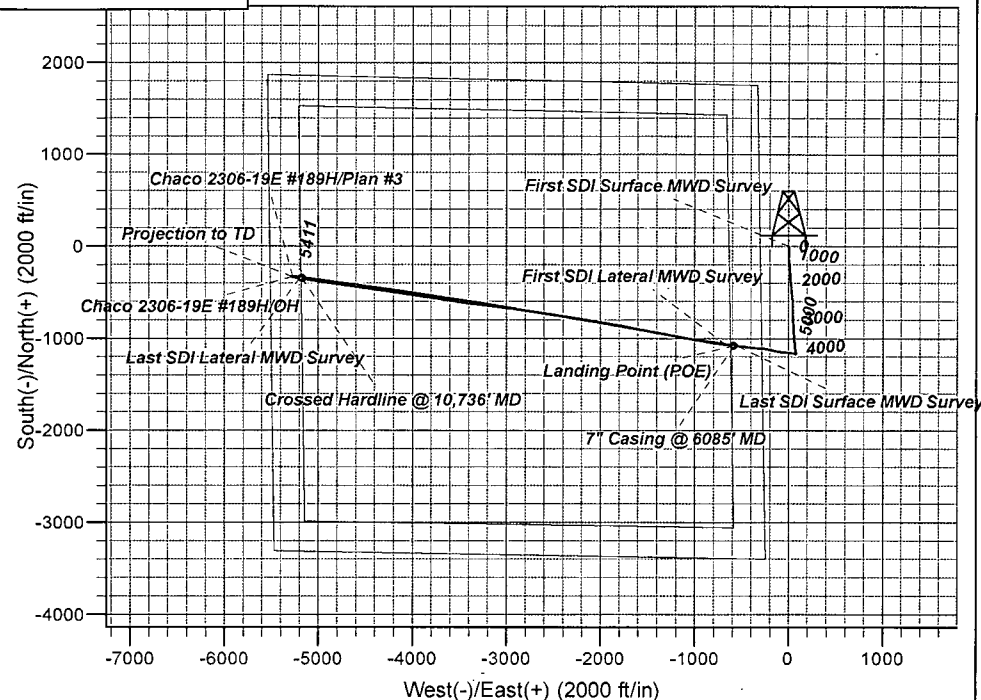
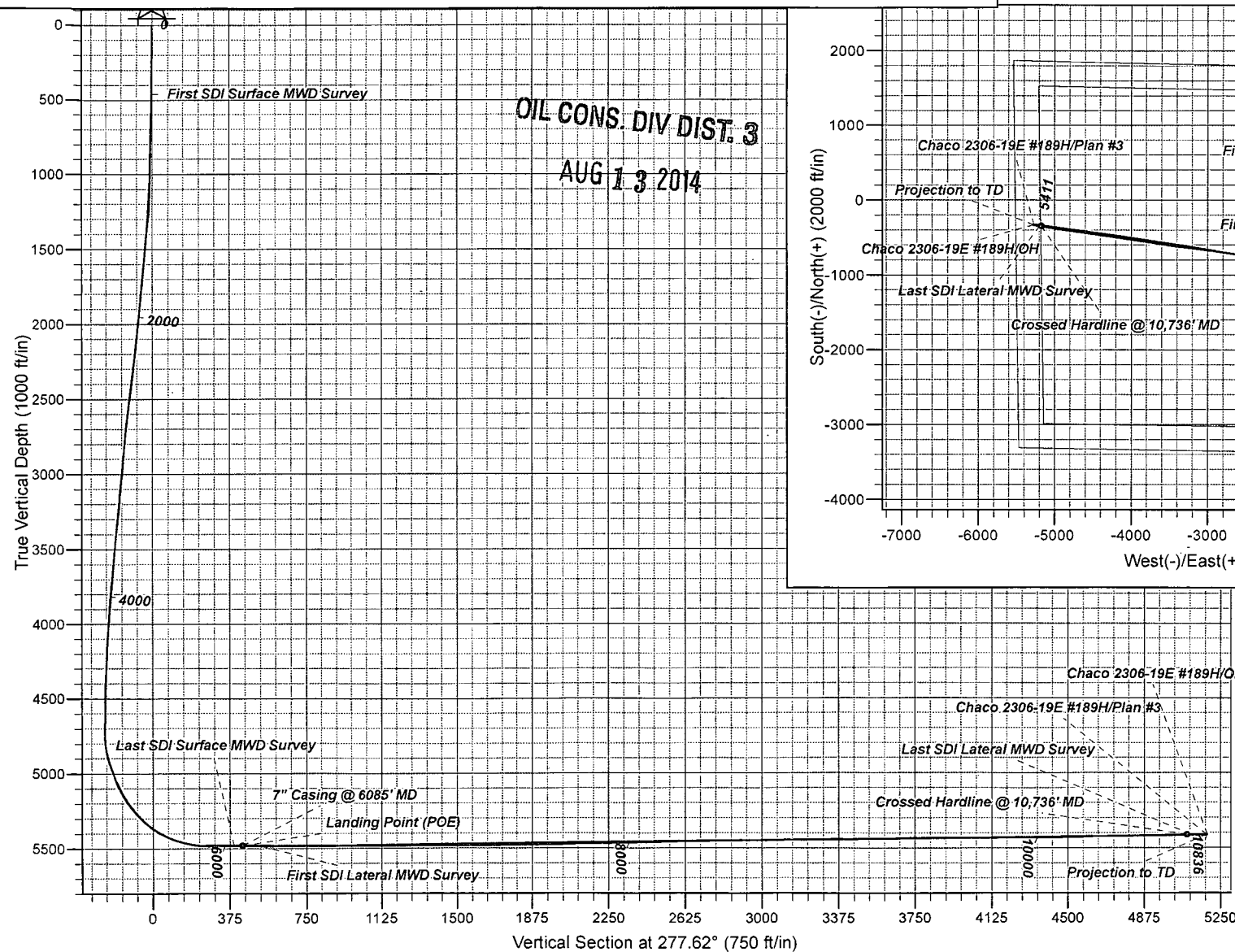
Azimuths to True North  
Magnetic North: 8.85°

Magnetic Field  
Strength: 49898.6snT  
Dip Angle: 61.05°  
Date: 5/19/2014  
Model: HDGM

CONFIDENTIAL

WELL DETAILS: Chaco 2306-19E #189H

| +N/-S | +E/-W | GL 6965' & RKB 14' @ 6979.00ft (Aztec 730) | Northing   | Easting   | Latitude         | Longitude        |
|-------|-------|--------------------------------------------|------------|-----------|------------------|------------------|
| 0.00  | 0.00  |                                            | 1899309.95 | 126314.15 | 36° 12' 48.060 N | 107° 31' 0.264 W |



|                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Design: OH (Chaco 2306-19E #189H/OH)                                                                                                               |
| Created By: Janie Collins Date: 10:53, June 16 2014                                                                                                |
| PROJECT DETAILS: Sandoval County, NM NAD27                                                                                                         |
| Geodetic System: US State Plane 1927 (Exact solution)<br>Datum: NAD 1927 (NADCON CONUS)<br>Ellipsoid: Clarke 1866<br>Zone: New Mexico Central 3002 |
| System Datum: Mean Sea Level<br>Local North: True                                                                                                  |

|                  |                                |                                     |                                            |
|------------------|--------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | WPX Energy Rocky Mountain, LLC | <b>Local Co-ordinate Reference:</b> | Well Chaco 2306-19E #189H                  |
| <b>Project:</b>  | Sandoval County, NM NAD27      | <b>TVD Reference:</b>               | GL 6965' & RKB 14' @ 6979.00ft (Aztec 730) |
| <b>Site:</b>     | Chaco 2306-19E                 | <b>MD Reference:</b>                | GL 6965' & RKB 14' @ 6979.00ft (Aztec 730) |
| <b>Well:</b>     | Chaco 2306-19E #189H           | <b>North Reference:</b>             | True                                       |
| <b>Wellbore:</b> | OH                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | OH                             | <b>Database:</b>                    | Grand Junction District                    |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Sandoval County, NM NAD27            |                      |                |
| <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 Central 3002              |                      |                |

|                              |                |                          |                   |
|------------------------------|----------------|--------------------------|-------------------|
| <b>Site</b>                  | Chaco 2306-19E |                          |                   |
| <b>Site Position:</b>        |                | <b>Northing:</b>         | 1,899,266.26 usft |
| <b>From:</b>                 | Lat/Long       | <b>Easting:</b>          | 126,313.58 usft   |
| <b>Position Uncertainty:</b> | 0.00 ft        | <b>Slot Radius:</b>      | 13.200 in         |
|                              |                | <b>Latitude:</b>         | 36° 12' 47.628 N  |
|                              |                | <b>Longitude:</b>        | 107° 31' 0.264 W  |
|                              |                | <b>Grid Convergence:</b> | -0.75 °           |

|                             |                      |                            |                                    |
|-----------------------------|----------------------|----------------------------|------------------------------------|
| <b>Well</b>                 | Chaco 2306-19E #189H |                            |                                    |
| <b>Well Position</b>        | +N/-S                | 0.00 ft                    | <b>Northing:</b> 1,899,309.95 usft |
|                             | +E/-W                | 0.00 ft                    | <b>Easting:</b> 126,314.15 usft    |
| <b>Position Uncertainty</b> | 0.00 ft              | <b>Wellhead Elevation:</b> | 0.00 ft                            |
|                             |                      | <b>Ground Level:</b>       | 6,965.00 ft                        |

|                  |                   |                    |                    |
|------------------|-------------------|--------------------|--------------------|
| <b>Wellbore</b>  | OH                |                    |                    |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> |
|                  | HDGM              | 5/19/2014          | 8.85               |
|                  |                   |                    | 61.05              |
|                  |                   |                    | 49,899             |

|                          |                         |                      |              |
|--------------------------|-------------------------|----------------------|--------------|
| <b>Design</b>            | OH                      |                      |              |
| <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)</b> | <b>+N/-S</b>         | <b>+E/-W</b> |
|                          | (ft)                    | (ft)                 | (ft)         |
|                          | 0.00                    | 0.00                 | 0.00         |
|                          |                         |                      | 277.62       |

|                       |             |                                     |                  |                          |
|-----------------------|-------------|-------------------------------------|------------------|--------------------------|
| <b>Survey Program</b> | <b>Date</b> | 6/16/2014                           |                  |                          |
| <b>From</b>           | <b>To</b>   | <b>Survey (Wellbore)</b>            | <b>Tool Name</b> | <b>Description</b>       |
| 462.00                | 6,042.00    | Survey #1 - Surface MWD (OH)        | MWD SDI          | MWD - Standard ver 1.0.1 |
| 6,174.00              | 10,836.00   | Survey #2 - Lateral MWD Survey (OH) | MWD SDI          | MWD - Standard ver 1.0.1 |

|                                     |                    |                |                 |              |              |                 |                |                  |                  |
|-------------------------------------|--------------------|----------------|-----------------|--------------|--------------|-----------------|----------------|------------------|------------------|
| <b>Survey</b>                       |                    |                |                 |              |              |                 |                |                  |                  |
| <b>Measured</b>                     | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical</b> | <b>+N/-S</b> | <b>+E/-W</b> | <b>Map</b>      | <b>Map</b>     | <b>Latitude</b>  | <b>Longitude</b> |
| <b>Depth</b>                        | <b>(°)</b>         | <b>(°)</b>     | <b>Depth</b>    | <b>(ft)</b>  | <b>(ft)</b>  | <b>Northing</b> | <b>Easting</b> |                  |                  |
| <b>(ft)</b>                         |                    |                | <b>(ft)</b>     |              |              | <b>(usft)</b>   | <b>(usft)</b>  |                  |                  |
| 0.00                                | 0.00               | 0.00           | 0.00            | 0.00         | 0.00         | 1,899,309.95    | 126,314.15     | 36° 12' 48.060 N | 107° 31' 0.264 W |
| 462.00                              | 1.04               | 47.39          | 461.97          | 2.84         | 3.09         | 1,899,312.75    | 126,317.27     | 36° 12' 48.088 N | 107° 31' 0.226 W |
| <b>First SDI Surface MWD Survey</b> |                    |                |                 |              |              |                 |                |                  |                  |
| 524.00                              | 0.74               | 36.71          | 523.97          | 3.54         | 3.74         | 1,899,313.44    | 126,317.93     | 36° 12' 48.095 N | 107° 31' 0.218 W |
| 588.00                              | 1.33               | 133.55         | 587.96          | 3.36         | 4.52         | 1,899,313.25    | 126,318.72     | 36° 12' 48.093 N | 107° 31' 0.209 W |
| 650.00                              | 2.47               | 159.15         | 649.93          | 1.62         | 5.52         | 1,899,311.49    | 126,319.69     | 36° 12' 48.076 N | 107° 31' 0.197 W |
| 714.00                              | 4.48               | 175.69         | 713.81          | -2.17        | 6.20         | 1,899,307.70    | 126,320.32     | 36° 12' 48.039 N | 107° 31' 0.188 W |
| 777.00                              | 6.56               | 177.10         | 776.51          | -8.21        | 6.57         | 1,899,301.65    | 126,320.61     | 36° 12' 47.979 N | 107° 31' 0.184 W |
| 841.00                              | 7.32               | 178.15         | 840.04          | -15.94       | 6.88         | 1,899,293.92    | 126,320.82     | 36° 12' 47.902 N | 107° 31' 0.180 W |
| 904.00                              | 8.26               | 183.02         | 902.46          | -24.47       | 6.78         | 1,899,285.39    | 126,320.60     | 36° 12' 47.818 N | 107° 31' 0.181 W |
| 966.00                              | 8.73               | 186.27         | 963.78          | -33.60       | 6.03         | 1,899,276.28    | 126,319.74     | 36° 12' 47.728 N | 107° 31' 0.190 W |

|           |                                |                              |                                            |
|-----------|--------------------------------|------------------------------|--------------------------------------------|
| Company:  | WPX Energy Rocky Mountain, LLC | Local Co-ordinate Reference: | Well Chaco 2306-19E #189H                  |
| Project:  | Sandoval County, NM NAD27      | TVD Reference:               | GL 6965' & RKB 14' @ 6979.00ft (Aztec 730) |
| Site:     | Chaco 2306-19E                 | MD Reference:                | GL 6965' & RKB 14' @ 6979.00ft (Aztec 730) |
| Well:     | Chaco 2306-19E #189H           | North Reference:             | True                                       |
| Wellbore: | OH                             | Survey Calculation Method:   | Minimum Curvature                          |
| Design:   | OH                             | Database:                    | Grand Junction District                    |

**Survey**

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude         | Longitude         |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|------------------|-------------------|
| 1,029.00                  | 10.16              | 184.94         | 1,025.92                  | -43.88        | 5.03          | 1,899,266.00              | 126,318.60               | 36° 12' 47.626 N | 107° 31' 0.203 W  |
| 1,093.00                  | 11.53              | 179.44         | 1,088.78                  | -55.91        | 4.60          | 1,899,253.99              | 126,318.02               | 36° 12' 47.507 N | 107° 31' 0.208 W  |
| 1,156.00                  | 12.07              | 177.88         | 1,150.45                  | -68.78        | 4.91          | 1,899,241.11              | 126,318.16               | 36° 12' 47.380 N | 107° 31' 0.204 W  |
| 1,219.00                  | 12.76              | 178.81         | 1,211.98                  | -82.32        | 5.30          | 1,899,227.56              | 126,318.37               | 36° 12' 47.246 N | 107° 31' 0.199 W  |
| 1,281.00                  | 14.11              | 176.71         | 1,272.28                  | -96.71        | 5.87          | 1,899,213.17              | 126,318.76               | 36° 12' 47.104 N | 107° 31' 0.192 W  |
| 1,344.00                  | 15.29              | 174.40         | 1,333.22                  | -112.65       | 7.12          | 1,899,197.22              | 126,319.80               | 36° 12' 46.946 N | 107° 31' 0.177 W  |
| 1,407.00                  | 17.37              | 175.70         | 1,393.67                  | -130.29       | 8.64          | 1,899,179.55              | 126,321.08               | 36° 12' 46.772 N | 107° 31' 0.159 W  |
| 1,468.00                  | 18.47              | 176.52         | 1,451.71                  | -149.02       | 9.91          | 1,899,160.81              | 126,322.11               | 36° 12' 46.586 N | 107° 31' 0.143 W  |
| 1,529.00                  | 18.47              | 174.79         | 1,509.57                  | -168.29       | 11.37         | 1,899,141.53              | 126,323.32               | 36° 12' 46.396 N | 107° 31' 0.125 W  |
| 1,590.00                  | 18.20              | 174.57         | 1,567.47                  | -187.39       | 13.15         | 1,899,122.40              | 126,324.85               | 36° 12' 46.207 N | 107° 31' 0.104 W  |
| 1,651.00                  | 17.92              | 174.35         | 1,625.47                  | -206.22       | 14.98         | 1,899,103.55              | 126,326.43               | 36° 12' 46.021 N | 107° 31' 0.081 W  |
| 1,712.00                  | 18.99              | 174.86         | 1,683.33                  | -225.44       | 16.79         | 1,899,084.31              | 126,327.99               | 36° 12' 45.831 N | 107° 31' 0.059 W  |
| 1,773.00                  | 19.73              | 177.02         | 1,740.88                  | -245.61       | 18.21         | 1,899,064.12              | 126,329.15               | 36° 12' 45.631 N | 107° 31' 0.042 W  |
| 1,833.00                  | 19.16              | 176.43         | 1,797.46                  | -265.55       | 19.35         | 1,899,044.17              | 126,330.03               | 36° 12' 45.434 N | 107° 31' 0.028 W  |
| 1,920.00                  | 20.21              | 178.25         | 1,879.37                  | -294.82       | 20.70         | 1,899,014.88              | 126,331.00               | 36° 12' 45.145 N | 107° 31' 0.011 W  |
| 1,981.00                  | 21.21              | 176.88         | 1,936.43                  | -316.37       | 21.62         | 1,898,993.32              | 126,331.64               | 36° 12' 44.932 N | 107° 31' 0.000 W  |
| 2,042.00                  | 22.89              | 176.90         | 1,992.97                  | -339.24       | 22.87         | 1,898,970.44              | 126,332.58               | 36° 12' 44.706 N | 107° 30' 59.985 W |
| 2,104.00                  | 21.98              | 176.15         | 2,050.27                  | -362.85       | 24.30         | 1,898,946.81              | 126,333.70               | 36° 12' 44.472 N | 107° 30' 59.968 W |
| 2,167.00                  | 21.14              | 175.56         | 2,108.87                  | -385.94       | 25.97         | 1,898,923.70              | 126,335.07               | 36° 12' 44.244 N | 107° 30' 59.947 W |
| 2,227.00                  | 20.42              | 174.86         | 2,164.96                  | -407.16       | 27.74         | 1,898,902.46              | 126,336.57               | 36° 12' 44.034 N | 107° 30' 59.925 W |
| 2,289.00                  | 20.60              | 175.72         | 2,223.03                  | -428.81       | 29.53         | 1,898,880.79              | 126,338.07               | 36° 12' 43.820 N | 107° 30' 59.904 W |
| 2,349.00                  | 20.42              | 175.30         | 2,279.23                  | -449.76       | 31.17         | 1,898,859.82              | 126,339.44               | 36° 12' 43.613 N | 107° 30' 59.884 W |
| 2,409.00                  | 20.93              | 175.19         | 2,335.37                  | -470.87       | 32.93         | 1,898,838.68              | 126,340.92               | 36° 12' 43.404 N | 107° 30' 59.862 W |
| 2,471.00                  | 22.61              | 174.58         | 2,392.94                  | -493.78       | 34.98         | 1,898,815.76              | 126,342.68               | 36° 12' 43.177 N | 107° 30' 59.837 W |
| 2,531.00                  | 22.21              | 173.81         | 2,448.41                  | -516.53       | 37.30         | 1,898,792.97              | 126,344.69               | 36° 12' 42.952 N | 107° 30' 59.809 W |
| 2,592.00                  | 22.33              | 174.24         | 2,504.86                  | -539.52       | 39.70         | 1,898,769.95              | 126,346.80               | 36° 12' 42.725 N | 107° 30' 59.780 W |
| 2,653.00                  | 22.65              | 175.71         | 2,561.22                  | -562.77       | 41.74         | 1,898,746.69              | 126,348.54               | 36° 12' 42.495 N | 107° 30' 59.755 W |
| 2,714.00                  | 21.82              | 173.93         | 2,617.69                  | -585.75       | 43.82         | 1,898,723.67              | 126,350.31               | 36° 12' 42.268 N | 107° 30' 59.729 W |
| 2,776.00                  | 22.25              | 176.74         | 2,675.16                  | -608.93       | 45.71         | 1,898,700.47              | 126,351.90               | 36° 12' 42.039 N | 107° 30' 59.706 W |
| 2,836.00                  | 23.53              | 178.76         | 2,730.43                  | -632.25       | 46.61         | 1,898,677.15              | 126,352.50               | 36° 12' 41.808 N | 107° 30' 59.695 W |
| 2,897.00                  | 22.85              | 177.80         | 2,786.50                  | -656.26       | 47.33         | 1,898,653.13              | 126,352.90               | 36° 12' 41.571 N | 107° 30' 59.687 W |
| 2,960.00                  | 23.17              | 179.14         | 2,844.49                  | -680.87       | 47.99         | 1,898,628.51              | 126,353.24               | 36° 12' 41.327 N | 107° 30' 59.679 W |
| 3,023.00                  | 24.03              | 180.92         | 2,902.22                  | -706.09       | 47.97         | 1,898,603.29              | 126,352.89               | 36° 12' 41.078 N | 107° 30' 59.679 W |
| 3,085.00                  | 23.58              | 179.21         | 2,958.95                  | -731.11       | 47.93         | 1,898,578.27              | 126,352.53               | 36° 12' 40.830 N | 107° 30' 59.679 W |
| 3,149.00                  | 22.86              | 177.45         | 3,017.77                  | -756.33       | 48.66         | 1,898,553.05              | 126,352.93               | 36° 12' 40.581 N | 107° 30' 59.670 W |
| 3,212.00                  | 21.78              | 175.84         | 3,076.05                  | -780.22       | 50.06         | 1,898,529.15              | 126,354.01               | 36° 12' 40.345 N | 107° 30' 59.653 W |
| 3,275.00                  | 21.66              | 178.14         | 3,134.57                  | -803.49       | 51.28         | 1,898,505.85              | 126,354.93               | 36° 12' 40.115 N | 107° 30' 59.638 W |
| 3,338.00                  | 22.11              | 180.34         | 3,193.03                  | -826.97       | 51.59         | 1,898,482.38              | 126,354.93               | 36° 12' 39.883 N | 107° 30' 59.635 W |
| 3,402.00                  | 21.66              | 178.92         | 3,252.42                  | -850.82       | 51.74         | 1,898,458.52              | 126,354.77               | 36° 12' 39.647 N | 107° 30' 59.633 W |
| 3,465.00                  | 21.30              | 175.99         | 3,311.05                  | -873.86       | 52.76         | 1,898,435.47              | 126,355.49               | 36° 12' 39.419 N | 107° 30' 59.620 W |
| 3,529.00                  | 20.87              | 175.21         | 3,370.76                  | -896.82       | 54.52         | 1,898,412.49              | 126,356.95               | 36° 12' 39.192 N | 107° 30' 59.599 W |
| 3,592.00                  | 20.21              | 173.54         | 3,429.76                  | -918.82       | 56.68         | 1,898,390.47              | 126,358.83               | 36° 12' 38.974 N | 107° 30' 59.572 W |
| 3,655.00                  | 18.99              | 174.09         | 3,489.11                  | -939.82       | 58.96         | 1,898,369.43              | 126,360.83               | 36° 12' 38.767 N | 107° 30' 59.545 W |
| 3,718.00                  | 19.11              | 178.42         | 3,548.66                  | -960.33       | 60.30         | 1,898,348.91              | 126,361.90               | 36° 12' 38.564 N | 107° 30' 59.528 W |
| 3,780.00                  | 18.12              | 177.53         | 3,607.42                  | -980.11       | 61.00         | 1,898,329.13              | 126,362.34               | 36° 12' 38.368 N | 107° 30' 59.520 W |
| 3,843.00                  | 17.05              | 175.45         | 3,667.47                  | -999.10       | 62.15         | 1,898,310.12              | 126,363.25               | 36° 12' 38.181 N | 107° 30' 59.506 W |
| 3,906.00                  | 16.10              | 174.89         | 3,727.85                  | -1,017.01     | 63.70         | 1,898,292.20              | 126,364.55               | 36° 12' 38.003 N | 107° 30' 59.487 W |
| 3,968.00                  | 14.32              | 175.49         | 3,787.68                  | -1,033.21     | 65.09         | 1,898,275.97              | 126,365.74               | 36° 12' 37.843 N | 107° 30' 59.470 W |
| 4,032.00                  | 13.44              | 176.76         | 3,849.81                  | -1,048.53     | 66.14         | 1,898,260.65              | 126,366.58               | 36° 12' 37.692 N | 107° 30' 59.457 W |
| 4,095.00                  | 13.04              | 174.50         | 3,911.13                  | -1,062.91     | 67.23         | 1,898,246.25              | 126,367.49               | 36° 12' 37.550 N | 107° 30' 59.444 W |
| 4,158.00                  | 12.29              | 175.06         | 3,972.60                  | -1,076.67     | 68.49         | 1,898,232.48              | 126,368.57               | 36° 12' 37.414 N | 107° 30' 59.428 W |
| 4,221.00                  | 11.72              | 172.93         | 4,034.22                  | -1,089.70     | 69.86         | 1,898,219.43              | 126,369.76               | 36° 12' 37.285 N | 107° 30' 59.412 W |
| 4,283.00                  | 10.28              | 174.17         | 4,095.08                  | -1,101.45     | 71.19         | 1,898,207.66              | 126,370.95               | 36° 12' 37.168 N | 107° 30' 59.395 W |
| 4,346.00                  | 9.25               | 170.38         | 4,157.17                  | -1,112.04     | 72.61         | 1,898,197.06              | 126,372.23               | 36° 12' 37.064 N | 107° 30' 59.378 W |
| 4,410.00                  | 8.77               | 172.77         | 4,220.38                  | -1,121.95     | 74.08         | 1,898,187.13              | 126,373.57               | 36° 12' 36.966 N | 107° 30' 59.360 W |

|                  |                                |                                     |                                            |
|------------------|--------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | WPX Energy Rocky Mountain, LLC | <b>Local Co-ordinate Reference:</b> | Well Chaco 2306-19E #189H                  |
| <b>Project:</b>  | Sandoval County, NM NAD27      | <b>TVD Reference:</b>               | GL 6965' & RKB 14' @ 6979.00ft (Aztec 730) |
| <b>Site:</b>     | Chaco 2306-19E                 | <b>MD Reference:</b>                | GL 6965' & RKB 14' @ 6979.00ft (Aztec 730) |
| <b>Well:</b>     | Chaco 2306-19E #189H           | <b>North Reference:</b>             | True                                       |
| <b>Wellbore:</b> | OH                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | OH                             | <b>Database:</b>                    | Grand Junction District                    |

**Survey**

| Measured<br>Depth<br>(ft)                         | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude         | Longitude         |
|---------------------------------------------------|--------------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|------------------|-------------------|
| 4,473.00                                          | 8.56               | 173.60         | 4,282.66                  | -1,131.37     | 75.21         | 1,898,177.69              | 126,374.57               | 36° 12' 36.873 N | 107° 30' 59.346 W |
| 4,536.00                                          | 7.93               | 172.81         | 4,345.01                  | -1,140.34     | 76.28         | 1,898,168.71              | 126,375.52               | 36° 12' 36.784 N | 107° 30' 59.333 W |
| 4,598.00                                          | 5.48               | 171.95         | 4,406.58                  | -1,147.52     | 77.23         | 1,898,161.52              | 126,376.38               | 36° 12' 36.713 N | 107° 30' 59.322 W |
| 4,662.00                                          | 3.01               | 168.84         | 4,470.40                  | -1,152.20     | 77.98         | 1,898,156.83              | 126,377.07               | 36° 12' 36.667 N | 107° 30' 59.313 W |
| 4,726.00                                          | 2.07               | 165.75         | 4,534.34                  | -1,154.96     | 78.59         | 1,898,154.06              | 126,377.64               | 36° 12' 36.639 N | 107° 30' 59.305 W |
| 4,789.00                                          | 1.94               | 175.66         | 4,597.30                  | -1,157.13     | 78.95         | 1,898,151.89              | 126,377.98               | 36° 12' 36.618 N | 107° 30' 59.301 W |
| 4,852.00                                          | 1.86               | 171.94         | 4,660.26                  | -1,159.21     | 79.18         | 1,898,149.81              | 126,378.17               | 36° 12' 36.597 N | 107° 30' 59.298 W |
| 4,915.00                                          | 2.02               | 171.33         | 4,723.23                  | -1,161.32     | 79.49         | 1,898,147.69              | 126,378.46               | 36° 12' 36.576 N | 107° 30' 59.294 W |
| 4,946.00                                          | 1.65               | 227.46         | 4,754.21                  | -1,162.16     | 79.24         | 1,898,146.86              | 126,378.20               | 36° 12' 36.568 N | 107° 30' 59.297 W |
| 4,978.00                                          | 3.21               | 269.80         | 4,786.19                  | -1,162.47     | 78.00         | 1,898,146.56              | 126,376.96               | 36° 12' 36.565 N | 107° 30' 59.312 W |
| 5,009.00                                          | 5.93               | 275.17         | 4,817.09                  | -1,162.33     | 75.54         | 1,898,146.73              | 126,374.50               | 36° 12' 36.566 N | 107° 30' 59.342 W |
| 5,040.00                                          | 7.81               | 279.77         | 4,847.86                  | -1,161.83     | 71.87         | 1,898,147.28              | 126,370.83               | 36° 12' 36.571 N | 107° 30' 59.387 W |
| 5,070.00                                          | 10.16              | 285.38         | 4,877.49                  | -1,160.78     | 67.31         | 1,898,148.39              | 126,366.29               | 36° 12' 36.582 N | 107° 30' 59.443 W |
| 5,103.00                                          | 12.15              | 287.96         | 4,909.87                  | -1,158.94     | 61.20         | 1,898,150.31              | 126,360.20               | 36° 12' 36.600 N | 107° 30' 59.517 W |
| 5,134.00                                          | 14.21              | 284.84         | 4,940.05                  | -1,156.96     | 54.42         | 1,898,152.38              | 126,353.45               | 36° 12' 36.620 N | 107° 30' 59.600 W |
| 5,166.00                                          | 14.69              | 281.50         | 4,971.04                  | -1,155.14     | 46.64         | 1,898,154.30              | 126,345.70               | 36° 12' 36.638 N | 107° 30' 59.695 W |
| 5,197.00                                          | 15.03              | 279.13         | 5,001.00                  | -1,153.72     | 38.82         | 1,898,155.82              | 126,337.90               | 36° 12' 36.652 N | 107° 30' 59.790 W |
| 5,229.00                                          | 16.12              | 279.57         | 5,031.83                  | -1,152.32     | 30.35         | 1,898,157.33              | 126,329.44               | 36° 12' 36.665 N | 107° 30' 59.894 W |
| 5,260.00                                          | 17.96              | 276.32         | 5,061.46                  | -1,151.08     | 21.35         | 1,898,158.69              | 126,320.46               | 36° 12' 36.678 N | 107° 31' 0.004 W  |
| 5,293.00                                          | 18.37              | 275.88         | 5,092.82                  | -1,149.99     | 11.12         | 1,898,159.91              | 126,310.25               | 36° 12' 36.688 N | 107° 31' 0.128 W  |
| 5,324.00                                          | 18.99              | 271.60         | 5,122.19                  | -1,149.35     | 1.22          | 1,898,160.68              | 126,300.35               | 36° 12' 36.695 N | 107° 31' 0.249 W  |
| 5,356.00                                          | 22.42              | 270.04         | 5,152.12                  | -1,149.20     | -10.09        | 1,898,160.98              | 126,289.05               | 36° 12' 36.696 N | 107° 31' 0.387 W  |
| 5,387.00                                          | 26.81              | 272.94         | 5,180.29                  | -1,148.84     | -22.99        | 1,898,161.51              | 126,276.15               | 36° 12' 36.700 N | 107° 31' 0.545 W  |
| 5,419.00                                          | 29.80              | 273.46         | 5,208.46                  | -1,147.99     | -38.14        | 1,898,162.56              | 126,261.02               | 36° 12' 36.708 N | 107° 31' 0.729 W  |
| 5,450.00                                          | 30.61              | 277.36         | 5,235.26                  | -1,146.51     | -53.66        | 1,898,164.24              | 126,245.52               | 36° 12' 36.723 N | 107° 31' 0.919 W  |
| 5,482.00                                          | 32.58              | 278.48         | 5,262.51                  | -1,144.20     | -70.26        | 1,898,166.77              | 126,228.95               | 36° 12' 36.746 N | 107° 31' 1.121 W  |
| 5,513.00                                          | 35.32              | 276.28         | 5,288.23                  | -1,141.98     | -87.43        | 1,898,169.21              | 126,211.81               | 36° 12' 36.768 N | 107° 31' 1.331 W  |
| 5,545.00                                          | 37.16              | 278.49         | 5,314.04                  | -1,139.54     | -106.18       | 1,898,171.89              | 126,193.09               | 36° 12' 36.792 N | 107° 31' 1.560 W  |
| 5,575.00                                          | 40.83              | 283.54         | 5,337.36                  | -1,135.91     | -124.69       | 1,898,175.77              | 126,174.63               | 36° 12' 36.828 N | 107° 31' 1.785 W  |
| 5,605.00                                          | 44.05              | 284.88         | 5,359.49                  | -1,130.93     | -144.31       | 1,898,181.00              | 126,155.08               | 36° 12' 36.877 N | 107° 31' 2.025 W  |
| 5,637.00                                          | 48.50              | 283.68         | 5,381.61                  | -1,125.24     | -166.72       | 1,898,186.98              | 126,132.75               | 36° 12' 36.933 N | 107° 31' 2.298 W  |
| 5,669.00                                          | 53.55              | 283.23         | 5,401.73                  | -1,119.46     | -190.90       | 1,898,193.08              | 126,108.64               | 36° 12' 36.990 N | 107° 31' 2.593 W  |
| 5,703.00                                          | 57.48              | 280.98         | 5,420.97                  | -1,113.59     | -218.30       | 1,898,199.30              | 126,081.32               | 36° 12' 37.048 N | 107° 31' 2.928 W  |
| 5,734.00                                          | 61.78              | 278.17         | 5,436.65                  | -1,109.16     | -244.67       | 1,898,204.08              | 126,055.01               | 36° 12' 37.092 N | 107° 31' 3.249 W  |
| 5,766.00                                          | 66.39              | 275.76         | 5,450.63                  | -1,105.68     | -273.23       | 1,898,207.93              | 126,026.50               | 36° 12' 37.127 N | 107° 31' 3.598 W  |
| 5,799.00                                          | 70.87              | 273.29         | 5,462.65                  | -1,103.27     | -303.85       | 1,898,210.74              | 125,995.91               | 36° 12' 37.150 N | 107° 31' 3.971 W  |
| 5,830.00                                          | 75.80              | 273.56         | 5,471.54                  | -1,101.50     | -333.49       | 1,898,212.90              | 125,966.30               | 36° 12' 37.168 N | 107° 31' 4.333 W  |
| 5,863.00                                          | 80.50              | 275.71         | 5,478.32                  | -1,098.88     | -365.67       | 1,898,215.94              | 125,934.16               | 36° 12' 37.194 N | 107° 31' 4.726 W  |
| 5,894.00                                          | 85.05              | 276.70         | 5,482.21                  | -1,095.56     | -396.23       | 1,898,219.66              | 125,903.64               | 36° 12' 37.227 N | 107° 31' 5.099 W  |
| 5,926.00                                          | 90.03              | 277.15         | 5,483.59                  | -1,091.70     | -427.96       | 1,898,223.93              | 125,871.97               | 36° 12' 37.265 N | 107° 31' 5.486 W  |
| 5,958.00                                          | 92.35              | 276.93         | 5,482.92                  | -1,087.78     | -459.71       | 1,898,228.27              | 125,840.27               | 36° 12' 37.304 N | 107° 31' 5.873 W  |
| 5,990.00                                          | 92.76              | 276.27         | 5,481.50                  | -1,084.11     | -491.46       | 1,898,232.35              | 125,808.56               | 36° 12' 37.340 N | 107° 31' 6.261 W  |
| 6,042.00                                          | 89.26              | 275.08         | 5,480.58                  | -1,078.97     | -543.19       | 1,898,238.17              | 125,756.91               | 36° 12' 37.391 N | 107° 31' 6.892 W  |
| <b>Last SDI Surface MWD Survey</b>                |                    |                |                           |               |               |                           |                          |                  |                   |
| 6,085.00                                          | 88.91              | 275.41         | 5,481.27                  | -1,075.04     | -586.01       | 1,898,242.66              | 125,714.15               | 36° 12' 37.430 N | 107° 31' 7.414 W  |
| <b>7" Casing @ 6085' MD - Landing Point (POE)</b> |                    |                |                           |               |               |                           |                          |                  |                   |
| 6,174.00                                          | 88.19              | 276.09         | 5,483.52                  | -1,066.12     | -674.53       | 1,898,252.73              | 125,625.75               | 36° 12' 37.518 N | 107° 31' 8.494 W  |
| <b>First SDI Lateral MWD Survey</b>               |                    |                |                           |               |               |                           |                          |                  |                   |
| 6,235.00                                          | 90.84              | 278.55         | 5,484.03                  | -1,058.35     | -735.02       | 1,898,261.29              | 125,565.37               | 36° 12' 37.595 N | 107° 31' 9.232 W  |
| 6,296.00                                          | 89.83              | 280.29         | 5,483.68                  | -1,048.37     | -795.19       | 1,898,272.06              | 125,505.33               | 36° 12' 37.693 N | 107° 31' 9.966 W  |
| 6,357.00                                          | 90.34              | 280.49         | 5,483.59                  | -1,037.37     | -855.19       | 1,898,283.84              | 125,445.48               | 36° 12' 37.802 N | 107° 31' 10.699 W |
| 6,419.00                                          | 90.17              | 280.32         | 5,483.31                  | -1,026.17     | -916.17       | 1,898,295.83              | 125,384.65               | 36° 12' 37.913 N | 107° 31' 11.443 W |
| 6,480.00                                          | 90.67              | 280.83         | 5,482.86                  | -1,014.98     | -976.14       | 1,898,307.81              | 125,324.84               | 36° 12' 38.023 N | 107° 31' 12.174 W |
| 6,540.00                                          | 90.94              | 280.62         | 5,482.02                  | -1,003.81     | -1,035.08     | 1,898,319.74              | 125,266.04               | 36° 12' 38.134 N | 107° 31' 12.893 W |
| 6,604.00                                          | 90.94              | 280.58         | 5,480.97                  | -992.04       | -1,097.98     | 1,898,332.34              | 125,203.30               | 36° 12' 38.250 N | 107° 31' 13.661 W |

|                  |                                |                                     |                                            |
|------------------|--------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | WPX Energy Rocky Mountain, LLC | <b>Local Co-ordinate Reference:</b> | Well Chaco 2306-19E #189H                  |
| <b>Project:</b>  | Sandoval County NM NAD27       | <b>TVD Reference:</b>               | GL 6965' & RKB 14' @ 6979.00ft (Aztec 730) |
| <b>Site:</b>     | Chaco 2306-19E                 | <b>MD Reference:</b>                | GL 6965' & RKB 14' @ 6979.00ft (Aztec 730) |
| <b>Well:</b>     | Chaco 2306-19E #189H           | <b>North Reference:</b>             | True                                       |
| <b>Wellbore:</b> | OH                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | OH                             | <b>Database:</b>                    | Grand Junction District                    |

**Survey**

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude         | Longitude         |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|------------------|-------------------|
| 6,667.00                  | 89.36              | 281.26         | 5,480.80                  | -980.11       | -1,159.84     | 1,898,345.08              | 125,141.61               | 36° 12' 38.368 N | 107° 31' 14.416 W |
| 6,730.00                  | 89.43              | 281.47         | 5,481.47                  | -967.69       | -1,221.60     | 1,898,358.30              | 125,080.02               | 36° 12' 38.491 N | 107° 31' 15.169 W |
| 6,793.00                  | 90.03              | 281.66         | 5,481.77                  | -955.06       | -1,283.32     | 1,898,371.73              | 125,018.47               | 36° 12' 38.616 N | 107° 31' 15.922 W |
| 6,855.00                  | 90.67              | 281.42         | 5,481.39                  | -942.66       | -1,344.06     | 1,898,384.93              | 124,957.89               | 36° 12' 38.738 N | 107° 31' 16.663 W |
| 6,917.00                  | 91.01              | 281.40         | 5,480.48                  | -930.40       | -1,404.83     | 1,898,397.98              | 124,897.29               | 36° 12' 38.860 N | 107° 31' 17.405 W |
| 6,980.00                  | 90.64              | 280.62         | 5,479.57                  | -918.37       | -1,466.67     | 1,898,410.82              | 124,835.61               | 36° 12' 38.979 N | 107° 31' 18.159 W |
| 7,042.00                  | 89.09              | 280.43         | 5,479.72                  | -907.04       | -1,527.62     | 1,898,422.94              | 124,774.81               | 36° 12' 39.090 N | 107° 31' 18.903 W |
| 7,105.00                  | 89.26              | 280.36         | 5,480.63                  | -895.68       | -1,589.58     | 1,898,435.12              | 124,713.01               | 36° 12' 39.203 N | 107° 31' 19.659 W |
| 7,168.00                  | 89.63              | 280.44         | 5,481.24                  | -884.30       | -1,651.54     | 1,898,447.30              | 124,651.20               | 36° 12' 39.315 N | 107° 31' 20.415 W |
| 7,231.00                  | 91.04              | 280.96         | 5,480.87                  | -872.61       | -1,713.44     | 1,898,459.80              | 124,589.46               | 36° 12' 39.431 N | 107° 31' 21.170 W |
| 7,295.00                  | 91.58              | 281.06         | 5,479.40                  | -860.39       | -1,776.25     | 1,898,472.84              | 124,526.82               | 36° 12' 39.552 N | 107° 31' 21.937 W |
| 7,358.00                  | 90.10              | 280.14         | 5,478.48                  | -848.80       | -1,838.16     | 1,898,485.23              | 124,465.06               | 36° 12' 39.666 N | 107° 31' 22.692 W |
| 7,421.00                  | 90.54              | 279.80         | 5,478.13                  | -837.89       | -1,900.21     | 1,898,496.95              | 124,403.16               | 36° 12' 39.774 N | 107° 31' 23.449 W |
| 7,484.00                  | 90.77              | 279.56         | 5,477.41                  | -827.30       | -1,962.31     | 1,898,508.35              | 124,341.20               | 36° 12' 39.879 N | 107° 31' 24.207 W |
| 7,547.00                  | 91.24              | 279.60         | 5,476.30                  | -816.82       | -2,024.42     | 1,898,519.65              | 124,279.23               | 36° 12' 39.982 N | 107° 31' 24.965 W |
| 7,610.00                  | 91.35              | 279.46         | 5,474.88                  | -806.39       | -2,086.54     | 1,898,530.89              | 124,217.26               | 36° 12' 40.085 N | 107° 31' 25.723 W |
| 7,673.00                  | 91.68              | 279.32         | 5,473.21                  | -796.11       | -2,148.67     | 1,898,541.97              | 124,155.26               | 36° 12' 40.187 N | 107° 31' 26.481 W |
| 7,735.00                  | 91.88              | 279.15         | 5,471.29                  | -786.17       | -2,209.84     | 1,898,552.72              | 124,094.23               | 36° 12' 40.285 N | 107° 31' 27.227 W |
| 7,799.00                  | 92.08              | 278.77         | 5,469.08                  | -776.21       | -2,273.02     | 1,898,563.50              | 124,031.19               | 36° 12' 40.384 N | 107° 31' 27.998 W |
| 7,862.00                  | 90.84              | 279.04         | 5,467.47                  | -766.46       | -2,335.24     | 1,898,574.06              | 123,969.10               | 36° 12' 40.480 N | 107° 31' 28.757 W |
| 7,925.00                  | 91.24              | 279.10         | 5,466.33                  | -756.53       | -2,397.44     | 1,898,584.80              | 123,907.03               | 36° 12' 40.578 N | 107° 31' 29.516 W |
| 7,988.00                  | 92.86              | 278.92         | 5,464.07                  | -746.67       | -2,459.62     | 1,898,595.47              | 123,844.99               | 36° 12' 40.676 N | 107° 31' 30.275 W |
| 8,051.00                  | 91.68              | 279.15         | 5,461.58                  | -736.78       | -2,521.79     | 1,898,606.17              | 123,782.95               | 36° 12' 40.773 N | 107° 31' 31.034 W |
| 8,114.00                  | 91.71              | 279.05         | 5,459.72                  | -726.82       | -2,583.97     | 1,898,616.94              | 123,720.91               | 36° 12' 40.872 N | 107° 31' 31.792 W |
| 8,176.00                  | 91.92              | 278.91         | 5,457.75                  | -717.15       | -2,645.18     | 1,898,627.41              | 123,659.83               | 36° 12' 40.967 N | 107° 31' 32.539 W |
| 8,239.00                  | 92.05              | 278.46         | 5,455.57                  | -707.64       | -2,707.42     | 1,898,637.73              | 123,597.72               | 36° 12' 41.061 N | 107° 31' 33.299 W |
| 8,303.00                  | 90.04              | 278.39         | 5,454.40                  | -698.27       | -2,770.71     | 1,898,647.93              | 123,534.55               | 36° 12' 41.154 N | 107° 31' 34.071 W |
| 8,365.00                  | 90.44              | 277.79         | 5,454.14                  | -689.54       | -2,832.10     | 1,898,657.46              | 123,473.29               | 36° 12' 41.240 N | 107° 31' 34.820 W |
| 8,428.00                  | 91.41              | 278.11         | 5,453.13                  | -680.83       | -2,894.48     | 1,898,666.99              | 123,411.03               | 36° 12' 41.326 N | 107° 31' 35.581 W |
| 8,490.00                  | 91.78              | 278.04         | 5,451.40                  | -672.13       | -2,955.84     | 1,898,676.49              | 123,349.78               | 36° 12' 41.412 N | 107° 31' 36.330 W |
| 8,552.00                  | 91.72              | 277.58         | 5,449.51                  | -663.71       | -3,017.24     | 1,898,685.72              | 123,288.50               | 36° 12' 41.496 N | 107° 31' 37.079 W |
| 8,615.00                  | 90.57              | 277.10         | 5,448.25                  | -655.66       | -3,079.71     | 1,898,694.58              | 123,226.14               | 36° 12' 41.575 N | 107° 31' 37.841 W |
| 8,678.00                  | 90.57              | 276.76         | 5,447.62                  | -648.06       | -3,142.25     | 1,898,703.00              | 123,163.71               | 36° 12' 41.650 N | 107° 31' 38.604 W |
| 8,741.00                  | 91.18              | 277.03         | 5,446.66                  | -640.50       | -3,204.78     | 1,898,711.37              | 123,101.28               | 36° 12' 41.725 N | 107° 31' 39.367 W |
| 8,803.00                  | 91.21              | 277.73         | 5,445.37                  | -632.53       | -3,266.26     | 1,898,720.14              | 123,039.92               | 36° 12' 41.803 N | 107° 31' 40.117 W |
| 8,866.00                  | 90.34              | 277.63         | 5,444.51                  | -624.11       | -3,328.68     | 1,898,729.37              | 122,977.60               | 36° 12' 41.887 N | 107° 31' 40.879 W |
| 8,929.00                  | 90.34              | 276.89         | 5,444.14                  | -616.15       | -3,391.18     | 1,898,738.15              | 122,915.22               | 36° 12' 41.965 N | 107° 31' 41.642 W |
| 8,992.00                  | 90.07              | 278.30         | 5,443.91                  | -607.83       | -3,453.62     | 1,898,747.29              | 122,852.89               | 36° 12' 42.048 N | 107° 31' 42.403 W |
| 9,055.00                  | 91.14              | 278.02         | 5,443.25                  | -598.89       | -3,515.98     | 1,898,757.05              | 122,790.65               | 36° 12' 42.136 N | 107° 31' 43.164 W |
| 9,118.00                  | 91.48              | 278.12         | 5,441.81                  | -590.04       | -3,578.34     | 1,898,766.70              | 122,728.41               | 36° 12' 42.223 N | 107° 31' 43.925 W |
| 9,181.00                  | 91.61              | 279.70         | 5,440.11                  | -580.29       | -3,640.55     | 1,898,777.27              | 122,666.33               | 36° 12' 42.320 N | 107° 31' 44.684 W |
| 9,244.00                  | 91.82              | 279.93         | 5,438.23                  | -569.56       | -3,702.60     | 1,898,788.81              | 122,604.43               | 36° 12' 42.426 N | 107° 31' 45.441 W |
| 9,307.00                  | 92.32              | 279.50         | 5,435.95                  | -558.93       | -3,764.66     | 1,898,800.25              | 122,542.52               | 36° 12' 42.531 N | 107° 31' 46.199 W |
| 9,371.00                  | 91.21              | 278.08         | 5,433.98                  | -549.16       | -3,827.88     | 1,898,810.84              | 122,479.43               | 36° 12' 42.627 N | 107° 31' 46.970 W |
| 9,434.00                  | 91.21              | 277.60         | 5,432.65                  | -540.56       | -3,890.27     | 1,898,820.25              | 122,417.15               | 36° 12' 42.712 N | 107° 31' 47.731 W |
| 9,497.00                  | 90.03              | 278.06         | 5,431.97                  | -531.98       | -3,952.68     | 1,898,829.65              | 122,354.86               | 36° 12' 42.797 N | 107° 31' 48.493 W |
| 9,560.00                  | 90.13              | 278.04         | 5,431.88                  | -523.16       | -4,015.06     | 1,898,839.28              | 122,292.60               | 36° 12' 42.884 N | 107° 31' 49.254 W |
| 9,623.00                  | 90.20              | 277.84         | 5,431.70                  | -514.46       | -4,077.46     | 1,898,848.80              | 122,230.33               | 36° 12' 42.970 N | 107° 31' 50.015 W |
| 9,685.00                  | 90.37              | 278.33         | 5,431.39                  | -505.74       | -4,138.84     | 1,898,858.32              | 122,169.06               | 36° 12' 43.056 N | 107° 31' 50.764 W |
| 9,749.00                  | 90.44              | 278.27         | 5,430.94                  | -496.50       | -4,202.17     | 1,898,868.39              | 122,105.86               | 36° 12' 43.147 N | 107° 31' 51.537 W |
| 9,812.00                  | 90.54              | 278.01         | 5,430.40                  | -487.58       | -4,264.53     | 1,898,878.12              | 122,043.62               | 36° 12' 43.236 N | 107° 31' 52.298 W |
| 9,875.00                  | 90.47              | 278.16         | 5,429.84                  | -478.72       | -4,326.90     | 1,898,887.79              | 121,981.37               | 36° 12' 43.323 N | 107° 31' 53.059 W |
| 9,938.00                  | 90.34              | 278.82         | 5,429.40                  | -469.42       | -4,389.21     | 1,898,897.91              | 121,919.19               | 36° 12' 43.415 N | 107° 31' 53.819 W |
| 10,001.00                 | 90.30              | 278.91         | 5,429.04                  | -459.71       | -4,451.46     | 1,898,908.43              | 121,857.08               | 36° 12' 43.511 N | 107° 31' 54.579 W |
| 10,064.00                 | 90.04              | 279.27         | 5,428.86                  | -449.76       | -4,513.66     | 1,898,919.19              | 121,795.00               | 36° 12' 43.609 N | 107° 31' 55.338 W |

|                  |                               |                                     |                                            |
|------------------|-------------------------------|-------------------------------------|--------------------------------------------|
| <b>Company:</b>  | WPX Energy Rocky Mountain LLC | <b>Local Co-ordinate Reference:</b> | Well Chaco 2306-19E #189H                  |
| <b>Project:</b>  | Sandoval County, NM NAD27     | <b>TVD Reference:</b>               | GL 6965' & RKB 14' @ 6979.00ft (Aztec 730) |
| <b>Site:</b>     | Chaco 2306-19E                | <b>MD Reference:</b>                | GL 6965' & RKB 14' @ 6979.00ft (Aztec 730) |
| <b>Well:</b>     | Chaco 2306-19E #189H          | <b>North Reference:</b>             | True                                       |
| <b>Wellbore:</b> | OH                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                          |
| <b>Design:</b>   | OH                            | <b>Database:</b>                    | Grand Junction District                    |

**Survey**

| Measured Depth (ft)                  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude         |
|--------------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|------------------|-------------------|
| 10,127.00                            | 91.41           | 278.94      | 5,428.06            | -439.79    | -4,575.86  | 1,898,929.97        | 121,732.94         | 36° 12' 43.708 N | 107° 31' 56.097 W |
| 10,190.00                            | 92.05           | 278.52      | 5,426.16            | -430.23    | -4,638.10  | 1,898,940.34        | 121,670.83         | 36° 12' 43.802 N | 107° 31' 56.856 W |
| 10,253.00                            | 92.05           | 277.52      | 5,423.91            | -421.45    | -4,700.45  | 1,898,949.94        | 121,608.61         | 36° 12' 43.889 N | 107° 31' 57.617 W |
| 10,316.00                            | 90.60           | 277.47      | 5,422.45            | -413.23    | -4,762.89  | 1,898,958.97        | 121,546.28         | 36° 12' 43.970 N | 107° 31' 58.379 W |
| 10,379.00                            | 90.67           | 277.31      | 5,421.75            | -405.13    | -4,825.36  | 1,898,967.89        | 121,483.91         | 36° 12' 44.050 N | 107° 31' 59.141 W |
| 10,442.00                            | 91.85           | 278.02      | 5,420.36            | -396.73    | -4,887.78  | 1,898,977.11        | 121,421.61         | 36° 12' 44.133 N | 107° 31' 59.903 W |
| 10,505.00                            | 91.61           | 280.79      | 5,418.46            | -386.44    | -4,949.90  | 1,898,988.21        | 121,359.63         | 36° 12' 44.235 N | 107° 32' 0.661 W  |
| 10,568.00                            | 91.88           | 280.48      | 5,416.54            | -374.82    | -5,011.79  | 1,899,000.63        | 121,297.90         | 36° 12' 44.349 N | 107° 32' 1.416 W  |
| 10,631.00                            | 91.65           | 279.88      | 5,414.60            | -363.69    | -5,073.77  | 1,899,012.57        | 121,236.07         | 36° 12' 44.459 N | 107° 32' 2.172 W  |
| 10,694.00                            | 90.91           | 279.51      | 5,413.20            | -353.08    | -5,135.85  | 1,899,023.99        | 121,174.13         | 36° 12' 44.564 N | 107° 32' 2.930 W  |
| 10,736.00                            | 90.88           | 279.21      | 5,412.54            | -346.25    | -5,177.29  | 1,899,031.36        | 121,132.79         | 36° 12' 44.632 N | 107° 32' 3.435 W  |
| <b>Crossed Hardline @ 10,736' MD</b> |                 |             |                     |            |            |                     |                    |                  |                   |
| 10,756.00                            | 90.87           | 279.07      | 5,412.23            | -343.07    | -5,197.03  | 1,899,034.80        | 121,113.09         | 36° 12' 44.663 N | 107° 32' 3.676 W  |
| <b>Last SDI Lateral MWD Survey</b>   |                 |             |                     |            |            |                     |                    |                  |                   |
| 10,836.00                            | 90.87           | 279.07      | 5,411.02            | -330.46    | -5,276.02  | 1,899,048.44        | 121,034.27         | 36° 12' 44.787 N | 107° 32' 4.640 W  |
| <b>Projection to TD</b>              |                 |             |                     |            |            |                     |                    |                  |                   |

**Design Annotations**

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                       |
|---------------------|---------------------|-------------------|------------|-------------------------------|
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                               |
| 462.00              | 461.97              | 2.84              | 3.09       | First SDI Surface MWD Survey  |
| 6,042.00            | 5,480.58            | -1,078.97         | -543.19    | Last SDI Surface MWD Survey   |
| 6,085.00            | 5,481.27            | -1,075.04         | -586.01    | 7" Casing @ 6085' MD          |
| 6,085.00            | 5,481.27            | -1,075.04         | -586.01    | Landing Point (POE)           |
| 6,174.00            | 5,483.52            | -1,066.12         | -674.53    | First SDI Lateral MWD Survey  |
| 10,736.00           | 5,412.54            | -346.25           | -5,177.29  | Crossed Hardline @ 10,736' MD |
| 10,756.00           | 5,412.23            | -343.07           | -5,197.03  | Last SDI Lateral MWD Survey   |
| 10,836.00           | 5,411.02            | -330.46           | -5,276.02  | Projection to TD              |

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