

District I  
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District III  
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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"

CONFIDENTIAL

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                        |                                                          |                                                                     |
|----------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------|
| <sup>1</sup> API Number<br>30-45-35439 | <sup>2</sup> Pool Code<br>47540 / 97232                  | <sup>3</sup> Pool Name<br>NAGEEZI GALLUP (I&J) / BASIN MANCOS (K&L) |
| <sup>4</sup> Property Code             | <sup>5</sup> Property Name<br>CHACO 2308-16I             | <sup>6</sup> Well Number<br>147H                                    |
| <sup>7</sup> GRID No.<br>120782        | <sup>8</sup> Operator Name<br>WPX ENERGY PRODUCTION, LLC | <sup>9</sup> Elevation<br>6858'                                     |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| I             | 16      | 23N      | 8W    |         | 1491          | SOUTH            | 248           | EAST           | SAN JUAN |

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

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| L             | 16      | 23N      | 8W    |         | 2291          | SOUTH            | 378           | WEST           | SAN JUAN |

|                                                          |                               |                                  |                         |
|----------------------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>160.0 Acres - (N/2 S/2) | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|----------------------------------------------------------|-------------------------------|----------------------------------|-------------------------|

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

N89°43'W 2627.13' (RECORD)  
N89°50'08"W 2627.81' (MEASURED)

N89°43'W 2627.13' (RECORD)  
N89°51'06"W 2624.33' (MEASURED)

<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: *Larry Higgins* Date: 4/2/13

Printed Name: Larry Higgins  
E-mail Address: larry.higgins@wpxenergy.com

<sup>18</sup> SURVEYOR CERTIFICATION

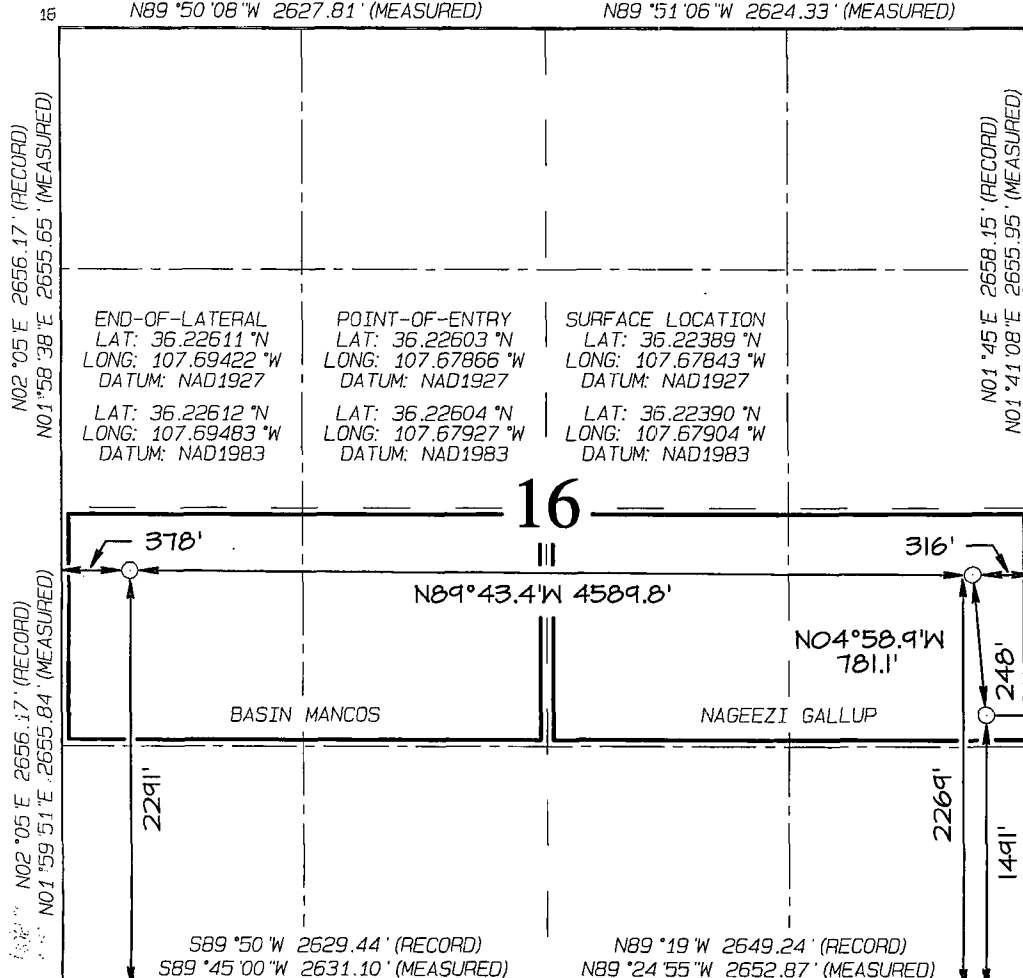
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: MARCH 22, 2013  
Survey Date: NOVEMBER 2, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS  
Certificate Number 15269





30-045-35439

## WPX Chaco 2308 - 16l #147 ST01 MWD 0' to 9751' Survey Geodetic Report



(Def Survey)

**Report Date:** March 19, 2013 - 12:45 PM  
**Client:** WPX Energy  
**Field:** NM San Juan County NAD27  
**Structure / Slot:** WPX Chaco 2308 - 16l #147H / Chaco 2308 - 16l #147H  
**Well:** Chaco 2308 - 16l #147H  
**Borehole:** ST01  
**UWI / API#:** Unknown / 30-045-35439  
**Survey Name:** WPX Chaco 2308 - 16l #147 ST01 MWD 0' to 9751'  
**Survey Date:** February 28, 2013  
**Tort / AHD / DDI / ERD Ratio:** 184.869 ° / 5610.666 ft / 6.295 / 1.094  
**Coordinate Reference System:** NAD27 New Mexico State Plane, Western Zone, US Feet  
**Location Lat / Long:** N 36° 13' 26.00400", W 107° 40' 42.34800"  
**Location Grid N/E Y/X:** N 1900774.024 ftUS, E 545689.699 ftUS  
**CRS Grid Convergence Angle:** 0.0915 °  
**Grid Scale Factor:** 0.99991906

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 279.750 ° (True North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** RKB  
**TVD Reference Elevation:** 6873.000 ft above MSL  
**Seabed / Ground Elevation:** 6858.000 ft above MSL  
**Magnetic Declination:** 9.636 °  
**Total Gravity Field Strength:** 999.1756 mgn (9.8 based)  
**Total Magnetic Field Strength:** 50216.665 nT  
**Magnetic Dip Angle:** 62.971 °  
**Declination Date:** February 28, 2013  
**Magnetic Declination Model:** BGGM 2012  
**North Reference:** True North  
**Grid Convergence Used:** 0.0000 °  
**Total Corr Mag North->True North:** 9.6364 °  
**Local Coord Referenced To:** Structure Reference Point

| Comments                                  | MD<br>(ft) | Incl<br>(°) | Azim True<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|-------------------------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
| Chaco 2308 - 16l<br>#147H - SHL<br>9 5/8" | 0.00       | 0.00        | 0.00             | 0.00        | 0.00         | 0.00       | 0.00       | N/A              | 1900774.02         | 545689.70         | N 36 13 26.00           | W 107 40 42.35           |
|                                           | 438.00     | 0.85        | 292.59           | 437.98      | 3.17         | 1.25       | -3.00      | 0.19             | 1900775.27         | 545686.69         | N 36 13 26.02           | W 107 40 42.38           |
|                                           | 453.00     | 0.88        | 292.59           | 452.98      | 3.39         | 1.34       | -3.21      | 0.19             | 1900775.35         | 545686.49         | N 36 13 26.02           | W 107 40 42.39           |
|                                           | 513.00     | 0.88        | 296.43           | 512.98      | 4.28         | 1.72       | -4.05      | 0.10             | 1900775.74         | 545685.65         | N 36 13 26.02           | W 107 40 42.40           |
|                                           | 573.00     | 1.58        | 349.67           | 572.96      | 5.01         | 2.74       | -4.61      | 2.11             | 1900776.75         | 545685.08         | N 36 13 26.03           | W 107 40 42.40           |
|                                           | 633.00     | 2.81        | 5.45             | 632.92      | 5.40         | 5.02       | -4.62      | 2.27             | 1900779.03         | 545685.07         | N 36 13 26.05           | W 107 40 42.40           |
|                                           | 693.00     | 4.13        | 8.19             | 692.81      | 5.57         | 8.62       | -4.17      | 2.22             | 1900782.63         | 545685.51         | N 36 13 26.09           | W 107 40 42.40           |
|                                           | 755.00     | 4.13        | 7.88             | 754.65      | 5.70         | 13.04      | -3.55      | 0.04             | 1900787.06         | 545686.13         | N 36 13 26.13           | W 107 40 42.39           |
|                                           | 815.00     | 4.04        | 7.70             | 814.49      | 5.85         | 17.27      | -2.97      | 0.15             | 1900791.29         | 545686.70         | N 36 13 26.17           | W 107 40 42.38           |
|                                           | 876.00     | 4.48        | 14.28            | 875.32      | 5.74         | 21.71      | -2.09      | 1.08             | 1900795.73         | 545687.57         | N 36 13 26.22           | W 107 40 42.37           |
|                                           | 938.00     | 5.72        | 16.87            | 937.08      | 5.17         | 27.02      | -0.60      | 2.03             | 1900801.04         | 545689.06         | N 36 13 26.27           | W 107 40 42.36           |
|                                           | 1001.00    | 7.03        | 14.48            | 999.69      | 4.46         | 33.75      | 1.28       | 2.12             | 1900807.78         | 545690.92         | N 36 13 26.34           | W 107 40 42.33           |
|                                           | 1063.00    | 8.09        | 12.25            | 1061.15     | 3.96         | 41.69      | 3.15       | 1.77             | 1900815.72         | 545692.78         | N 36 13 26.42           | W 107 40 42.31           |
|                                           | 1126.00    | 8.97        | 11.52            | 1123.45     | 3.61         | 50.84      | 5.07       | 1.41             | 1900824.86         | 545694.69         | N 36 13 26.51           | W 107 40 42.29           |
|                                           | 1189.00    | 9.58        | 10.82            | 1185.63     | 3.36         | 60.80      | 7.04       | 0.98             | 1900834.83         | 545696.64         | N 36 13 26.61           | W 107 40 42.26           |
|                                           | 1252.00    | 10.29       | 11.90            | 1247.68     | 3.05         | 71.45      | 9.18       | 1.17             | 1900845.48         | 545698.77         | N 36 13 26.71           | W 107 40 42.24           |
|                                           | 1315.00    | 10.90       | 15.59            | 1309.61     | 2.23         | 82.70      | 11.94      | 1.45             | 1900856.73         | 545701.51         | N 36 13 26.82           | W 107 40 42.20           |
|                                           | 1377.00    | 11.70       | 16.24            | 1370.41     | 0.93         | 94.38      | 15.28      | 1.31             | 1900868.42         | 545704.82         | N 36 13 26.94           | W 107 40 42.16           |
|                                           | 1440.00    | 12.13       | 14.84            | 1432.05     | -0.38        | 106.91     | 18.76      | 0.82             | 1900880.95         | 545708.29         | N 36 13 27.06           | W 107 40 42.12           |
|                                           | 1504.00    | 12.93       | 13.66            | 1494.52     | -1.47        | 120.37     | 22.17      | 1.31             | 1900894.42         | 545711.68         | N 36 13 27.19           | W 107 40 42.08           |
|                                           | 1567.00    | 13.54       | 13.35            | 1555.85     | -2.41        | 134.39     | 25.54      | 0.97             | 1900908.45         | 545715.02         | N 36 13 27.33           | W 107 40 42.04           |
|                                           | 1630.00    | 14.51       | 13.15            | 1616.97     | -3.34        | 149.25     | 29.04      | 1.54             | 1900923.31         | 545718.50         | N 36 13 27.48           | W 107 40 41.99           |
|                                           | 1693.00    | 14.77       | 12.50            | 1677.93     | -4.20        | 164.78     | 32.57      | 0.49             | 1900938.84         | 545722.00         | N 36 13 27.63           | W 107 40 41.95           |

| Comments                  | MD<br>(ft) | Incl<br>(°) | Azim True<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|---------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|                           | 1757.00    | 15.04       | 12.60            | 1739.77     | -5.00        | 180.85     | 36.15      | 0.42             | 1900954.91         | 545725.56         | N 36 13 27.79           | W 107 40 41.91           |
|                           | 1820.00    | 15.30       | 12.35            | 1800.58     | -5.78        | 196.94     | 39.71      | 0.43             | 1900971.01         | 545729.09         | N 36 13 27.95           | W 107 40 41.86           |
|                           | 1882.00    | 15.48       | 11.72            | 1860.35     | -6.44        | 213.04     | 43.14      | 0.40             | 1900987.11         | 545732.49         | N 36 13 28.11           | W 107 40 41.82           |
|                           | 1946.00    | 16.00       | 11.25            | 1921.95     | -6.96        | 230.05     | 46.59      | 0.84             | 1901004.13         | 545735.92         | N 36 13 28.28           | W 107 40 41.78           |
|                           | 2008.00    | 16.36       | 13.07            | 1981.50     | -7.69        | 246.94     | 50.24      | 1.00             | 1901021.02         | 545739.54         | N 36 13 28.45           | W 107 40 41.73           |
|                           | 2071.00    | 15.92       | 15.47            | 2042.02     | -9.07        | 263.91     | 54.55      | 1.27             | 1901038.00         | 545743.82         | N 36 13 28.61           | W 107 40 41.68           |
|                           | 2134.00    | 15.74       | 15.91            | 2102.63     | -10.85       | 280.45     | 59.19      | 0.34             | 1901054.55         | 545748.44         | N 36 13 28.78           | W 107 40 41.63           |
|                           | 2197.00    | 15.48       | 14.34            | 2163.30     | -12.44       | 296.82     | 63.62      | 0.79             | 1901070.92         | 545752.84         | N 36 13 28.94           | W 107 40 41.57           |
|                           | 2259.00    | 15.92       | 13.80            | 2222.99     | -13.70       | 313.09     | 67.70      | 0.75             | 1901087.19         | 545756.89         | N 36 13 29.10           | W 107 40 41.52           |
|                           | 2322.00    | 16.36       | 13.51            | 2283.51     | -14.89       | 330.11     | 71.83      | 0.71             | 1901104.22         | 545761.00         | N 36 13 29.27           | W 107 40 41.47           |
|                           | 2385.00    | 16.71       | 13.70            | 2343.90     | -16.10       | 347.53     | 76.05      | 0.56             | 1901121.65         | 545765.19         | N 36 13 29.44           | W 107 40 41.42           |
|                           | 2447.00    | 17.15       | 13.42            | 2403.21     | -17.29       | 365.09     | 80.28      | 0.72             | 1901139.21         | 545769.39         | N 36 13 29.61           | W 107 40 41.37           |
|                           | 2510.00    | 17.15       | 12.27            | 2463.41     | -18.30       | 383.20     | 84.41      | 0.54             | 1901157.32         | 545773.49         | N 36 13 29.79           | W 107 40 41.32           |
|                           | 2573.00    | 16.18       | 8.82             | 2523.77     | -18.56       | 400.95     | 87.73      | 2.20             | 1901175.08         | 545776.78         | N 36 13 29.97           | W 107 40 41.28           |
|                           | 2636.00    | 16.80       | 10.29            | 2584.18     | -18.51       | 418.58     | 90.70      | 1.19             | 1901192.71         | 545779.73         | N 36 13 30.14           | W 107 40 41.24           |
|                           | 2700.00    | 16.44       | 14.67            | 2645.50     | -19.37       | 436.44     | 94.65      | 2.04             | 1901210.58         | 545783.64         | N 36 13 30.32           | W 107 40 41.19           |
|                           | 2762.00    | 16.09       | 13.43            | 2705.02     | -20.67       | 453.29     | 98.87      | 0.80             | 1901227.43         | 545787.83         | N 36 13 30.49           | W 107 40 41.14           |
|                           | 2825.00    | 14.95       | 10.78            | 2765.73     | -21.38       | 469.76     | 102.41     | 2.13             | 1901243.91         | 545791.35         | N 36 13 30.65           | W 107 40 41.10           |
|                           | 2888.00    | 14.77       | 10.70            | 2826.62     | -21.66       | 485.63     | 105.43     | 0.29             | 1901259.79         | 545794.34         | N 36 13 30.81           | W 107 40 41.06           |
|                           | 2951.00    | 14.51       | 10.46            | 2887.57     | -21.89       | 501.29     | 108.35     | 0.42             | 1901275.44         | 545797.24         | N 36 13 30.96           | W 107 40 41.03           |
|                           | 3013.00    | 14.51       | 10.12            | 2947.60     | -22.04       | 516.57     | 111.12     | 0.14             | 1901290.73         | 545799.99         | N 36 13 31.11           | W 107 40 40.99           |
|                           | 3076.00    | 14.25       | 9.70             | 3008.62     | -22.08       | 531.98     | 113.82     | 0.44             | 1901306.14         | 545802.66         | N 36 13 31.26           | W 107 40 40.96           |
|                           | 3140.00    | 14.25       | 10.16            | 3070.65     | -22.13       | 547.50     | 116.53     | 0.18             | 1901321.67         | 545805.35         | N 36 13 31.42           | W 107 40 40.93           |
|                           | 3203.00    | 14.51       | 12.17            | 3131.68     | -22.52       | 562.85     | 119.57     | 0.89             | 1901337.02         | 545808.36         | N 36 13 31.57           | W 107 40 40.89           |
|                           | 3265.00    | 14.25       | 12.31            | 3191.74     | -23.19       | 577.90     | 122.83     | 0.42             | 1901352.07         | 545811.60         | N 36 13 31.72           | W 107 40 40.85           |
|                           | 3329.00    | 14.86       | 12.37            | 3253.68     | -23.92       | 593.61     | 126.27     | 0.95             | 1901367.78         | 545815.01         | N 36 13 31.87           | W 107 40 40.81           |
|                           | 3392.00    | 14.68       | 12.69            | 3314.60     | -24.69       | 609.29     | 129.75     | 0.31             | 1901383.47         | 545818.47         | N 36 13 32.03           | W 107 40 40.76           |
|                           | 3454.00    | 14.60       | 12.57            | 3374.59     | -25.48       | 624.58     | 133.18     | 0.14             | 1901398.76         | 545821.87         | N 36 13 32.18           | W 107 40 40.72           |
|                           | 3517.00    | 14.07       | 11.95            | 3435.63     | -26.17       | 639.82     | 136.49     | 0.88             | 1901414.01         | 545825.16         | N 36 13 32.33           | W 107 40 40.68           |
|                           | 3580.00    | 13.37       | 10.79            | 3496.83     | -26.59       | 654.47     | 139.44     | 1.19             | 1901428.66         | 545828.08         | N 36 13 32.48           | W 107 40 40.65           |
|                           | 3644.00    | 12.93       | 11.63            | 3559.15     | -26.96       | 668.75     | 142.27     | 0.75             | 1901442.94         | 545830.89         | N 36 13 32.62           | W 107 40 40.61           |
|                           | 3707.00    | 13.19       | 12.88            | 3620.52     | -27.59       | 682.66     | 145.29     | 0.61             | 1901456.86         | 545833.89         | N 36 13 32.75           | W 107 40 40.57           |
|                           | 3769.00    | 12.66       | 12.79            | 3680.95     | -28.33       | 696.18     | 148.37     | 0.86             | 1901470.38         | 545836.95         | N 36 13 32.89           | W 107 40 40.54           |
|                           | 3832.00    | 12.57       | 12.17            | 3742.43     | -28.99       | 709.62     | 151.35     | 0.26             | 1901483.82         | 545839.90         | N 36 13 33.02           | W 107 40 40.50           |
|                           | 3895.00    | 11.70       | 10.65            | 3804.02     | -29.38       | 722.59     | 153.97     | 1.47             | 1901496.80         | 545842.50         | N 36 13 33.15           | W 107 40 40.47           |
|                           | 3958.00    | 10.46       | 10.77            | 3865.84     | -29.58       | 734.49     | 156.22     | 1.97             | 1901508.70         | 545844.73         | N 36 13 33.27           | W 107 40 40.44           |
|                           | 4021.00    | 9.58        | 13.25            | 3927.88     | -30.00       | 745.21     | 158.49     | 1.56             | 1901519.43         | 545846.99         | N 36 13 33.37           | W 107 40 40.41           |
|                           | 4083.00    | 8.00        | 15.01            | 3989.15     | -30.71       | 754.40     | 160.79     | 2.58             | 1901528.62         | 545849.27         | N 36 13 33.46           | W 107 40 40.39           |
|                           | 4145.00    | 5.45        | 14.38            | 4050.72     | -31.35       | 761.42     | 162.64     | 4.11             | 1901535.64         | 545851.11         | N 36 13 33.53           | W 107 40 40.36           |
|                           | 4207.00    | 3.87        | 3.02             | 4112.52     | -31.34       | 766.36     | 163.48     | 2.94             | 1901540.58         | 545851.94         | N 36 13 33.58           | W 107 40 40.35           |
|                           | 4269.00    | 2.73        | 347.05           | 4174.41     | -30.52       | 769.89     | 163.26     | 2.35             | 1901544.11         | 545851.72         | N 36 13 33.62           | W 107 40 40.36           |
|                           | 4332.00    | 2.29        | 348.11           | 4237.35     | -29.48       | 772.59     | 162.67     | 0.70             | 1901546.80         | 545851.12         | N 36 13 33.64           | W 107 40 40.36           |
|                           | 4394.00    | 1.85        | 350.17           | 4299.31     | -28.69       | 774.78     | 162.24     | 0.72             | 1901549.00         | 545850.69         | N 36 13 33.67           | W 107 40 40.37           |
|                           | 4457.00    | 1.06        | 343.85           | 4362.29     | -28.09       | 776.35     | 161.90     | 1.28             | 1901550.56         | 545850.35         | N 36 13 33.68           | W 107 40 40.37           |
|                           | 4520.00    | 0.79        | 337.40           | 4425.28     | -27.61       | 777.31     | 161.58     | 0.46             | 1901551.52         | 545850.02         | N 36 13 33.69           | W 107 40 40.38           |
| Last Pilot Hole<br>Survey | 4582.00    | 0.53        | 344.95           | 4487.28     | -27.26       | 777.98     | 161.34     | 0.44             | 1901552.19         | 545849.78         | N 36 13 33.70           | W 107 40 40.38           |
|                           | 4666.00    | 11.34       | 275.06           | 4570.72     | -18.84       | 779.09     | 152.98     | 13.30            | 1901553.29         | 545841.43         | N 36 13 33.71           | W 107 40 40.48           |

| Comments   | MD<br>(ft) | Incl<br>(°) | Azim True<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' '') | Longitude<br>(E/W ° ' '') |
|------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|--------------------------|---------------------------|
|            | 4697.00    | 13.54       | 272.67           | 4600.99     | -12.20       | 779.52     | 146.32     | 7.29             | 1901553.72         | 545834.76         | N 36 13 33.71            | W 107 40 40.56            |
|            | 4761.00    | 17.32       | 272.22           | 4662.67     | 4.69         | 780.24     | 129.31     | 5.91             | 1901554.41         | 545817.75         | N 36 13 33.72            | W 107 40 40.77            |
|            | 4824.00    | 22.42       | 271.70           | 4721.90     | 25.90        | 780.96     | 107.92     | 8.10             | 1901555.09         | 545796.36         | N 36 13 33.73            | W 107 40 41.03            |
|            | 4888.00    | 26.73       | 270.57           | 4780.09     | 52.20        | 781.47     | 81.31      | 6.77             | 1901555.56         | 545769.76         | N 36 13 33.73            | W 107 40 41.36            |
|            | 4950.00    | 31.48       | 270.73           | 4834.25     | 81.97        | 781.81     | 51.17      | 7.66             | 1901555.85         | 545739.61         | N 36 13 33.74            | W 107 40 41.72            |
| Mancos Unc | 5013.00    | 37.46       | 271.84           | 4886.17     | 117.23       | 782.64     | 15.54      | 9.54             | 1901556.62         | 545703.99         | N 36 13 33.74            | W 107 40 42.16            |
|            | 5076.00    | 44.41       | 272.75           | 4933.73     | 158.13       | 784.31     | -25.68     | 11.07            | 1901558.23         | 545662.77         | N 36 13 33.76            | W 107 40 42.66            |
|            | 5139.00    | 50.03       | 272.48           | 4976.50     | 203.99       | 786.42     | -71.85     | 8.93             | 1901560.26         | 545616.60         | N 36 13 33.78            | W 107 40 43.22            |
|            | 5144.00    | 50.57       | 272.17           | 4979.70     | 207.81       | 786.57     | -75.70     | 11.81            | 1901560.41         | 545612.75         | N 36 13 33.78            | W 107 40 43.27            |
|            | 5203.00    | 56.98       | 268.78           | 5014.55     | 254.74       | 786.91     | -123.25    | 11.81            | 1901560.67         | 545565.20         | N 36 13 33.79            | W 107 40 43.85            |
|            | 5266.00    | 64.54       | 267.53           | 5045.30     | 308.54       | 785.12     | -178.16    | 12.12            | 1901558.79         | 545510.30         | N 36 13 33.77            | W 107 40 44.52            |
|            | 5329.00    | 70.35       | 267.36           | 5069.46     | 365.36       | 782.52     | -236.25    | 9.23             | 1901556.10         | 545452.21         | N 36 13 33.74            | W 107 40 45.23            |
|            | 5392.00    | 74.48       | 268.28           | 5088.49     | 424.11       | 780.24     | -296.25    | 6.70             | 1901553.73         | 545392.22         | N 36 13 33.72            | W 107 40 45.96            |
|            | 5455.00    | 77.65       | 268.63           | 5103.66     | 484.06       | 778.60     | -357.37    | 5.06             | 1901551.98         | 545331.12         | N 36 13 33.70            | W 107 40 46.71            |
|            | 5517.00    | 79.84       | 269.34           | 5115.76     | 543.80       | 777.52     | -418.16    | 3.71             | 1901550.81         | 545270.33         | N 36 13 33.69            | W 107 40 47.45            |
| 7"         | 5575.00    | 85.74       | 270.73           | 5123.03     | 600.49       | 777.56     | -475.68    | 10.45            | 1901550.76         | 545212.82         | N 36 13 33.69            | W 107 40 48.15            |
|            | 5637.00    | 88.54       | 270.42           | 5126.13     | 661.61       | 778.18     | -537.59    | 4.54             | 1901551.28         | 545150.91         | N 36 13 33.70            | W 107 40 48.91            |
|            | 5719.00    | 92.24       | 270.02           | 5125.57     | 742.46       | 778.50     | -619.57    | 4.54             | 1901551.47         | 545068.93         | N 36 13 33.70            | W 107 40 49.91            |
|            | 5780.00    | 91.45       | 270.59           | 5123.61     | 802.60       | 778.83     | -680.54    | 1.60             | 1901551.70         | 545007.97         | N 36 13 33.71            | W 107 40 50.65            |
|            | 5840.00    | 92.59       | 270.07           | 5121.49     | 861.76       | 779.17     | -740.50    | 2.09             | 1901551.95         | 544948.02         | N 36 13 33.71            | W 107 40 51.39            |
|            | 5902.00    | 92.15       | 270.01           | 5118.93     | 922.82       | 779.22     | -802.45    | 0.72             | 1901551.89         | 544886.07         | N 36 13 33.71            | W 107 40 52.14            |
|            | 5962.00    | 92.33       | 269.26           | 5116.58     | 981.84       | 778.83     | -862.40    | 1.28             | 1901551.41         | 544826.13         | N 36 13 33.71            | W 107 40 52.87            |
|            | 6024.00    | 92.15       | 269.05           | 5114.16     | 1042.74      | 777.92     | -924.35    | 0.45             | 1901550.40         | 544764.19         | N 36 13 33.70            | W 107 40 53.63            |
|            | 6085.00    | 92.51       | 268.91           | 5111.68     | 1102.61      | 776.83     | -985.29    | 0.63             | 1901549.22         | 544703.26         | N 36 13 33.69            | W 107 40 54.37            |
|            | 6147.00    | 92.68       | 268.97           | 5108.87     | 1163.45      | 775.69     | -1047.21   | 0.29             | 1901547.97         | 544641.34         | N 36 13 33.67            | W 107 40 55.13            |
|            | 6208.00    | 92.68       | 268.72           | 5106.02     | 1223.28      | 774.46     | -1108.13   | 0.41             | 1901546.65         | 544580.42         | N 36 13 33.66            | W 107 40 55.87            |
|            | 6269.00    | 92.33       | 268.25           | 5103.35     | 1283.05      | 772.85     | -1169.05   | 0.96             | 1901544.94         | 544519.51         | N 36 13 33.65            | W 107 40 56.62            |
|            | 6329.00    | 92.86       | 269.07           | 5100.64     | 1341.87      | 771.45     | -1228.97   | 1.63             | 1901543.44         | 544459.60         | N 36 13 33.63            | W 107 40 57.35            |
|            | 6390.00    | 92.24       | 269.93           | 5097.92     | 1401.83      | 770.92     | -1289.91   | 1.74             | 1901542.81         | 544398.67         | N 36 13 33.63            | W 107 40 58.09            |
|            | 6450.00    | 91.89       | 270.75           | 5095.76     | 1460.99      | 771.27     | -1349.87   | 1.49             | 1901543.07         | 544338.71         | N 36 13 33.63            | W 107 40 58.82            |
|            | 6512.00    | 91.54       | 270.72           | 5093.91     | 1522.19      | 772.07     | -1411.84   | 0.57             | 1901543.77         | 544276.75         | N 36 13 33.64            | W 107 40 59.58            |
|            | 6571.00    | 92.33       | 270.49           | 5091.91     | 1580.41      | 772.69     | -1470.80   | 1.39             | 1901544.30         | 544217.79         | N 36 13 33.64            | W 107 41 0.30             |
|            | 6633.00    | 92.15       | 270.69           | 5089.49     | 1641.57      | 773.33     | -1532.75   | 0.43             | 1901544.84         | 544155.84         | N 36 13 33.65            | W 107 41 1.05             |
|            | 6695.00    | 92.24       | 270.18           | 5087.12     | 1702.71      | 773.80     | -1594.70   | 0.83             | 1901545.21         | 544093.90         | N 36 13 33.66            | W 107 41 1.81             |
|            | 6757.00    | 92.07       | 270.19           | 5084.78     | 1763.80      | 774.00     | -1656.66   | 0.27             | 1901545.31         | 544031.95         | N 36 13 33.66            | W 107 41 2.57             |
|            | 6820.00    | 92.07       | 269.84           | 5082.51     | 1825.86      | 774.01     | -1719.62   | 0.56             | 1901545.23         | 543968.99         | N 36 13 33.66            | W 107 41 3.34             |
|            | 6883.00    | 92.07       | 270.19           | 5080.23     | 1887.91      | 774.03     | -1782.57   | 0.56             | 1901545.14         | 543906.04         | N 36 13 33.66            | W 107 41 4.10             |
|            | 6946.00    | 91.89       | 270.01           | 5078.06     | 1949.98      | 774.14     | -1845.54   | 0.40             | 1901545.15         | 543843.08         | N 36 13 33.66            | W 107 41 4.87             |
|            | 7008.00    | 92.33       | 270.37           | 5075.77     | 2011.08      | 774.35     | -1907.49   | 0.92             | 1901545.26         | 543781.13         | N 36 13 33.66            | W 107 41 5.63             |
|            | 7071.00    | 91.80       | 269.93           | 5073.50     | 2073.15      | 774.51     | -1970.45   | 1.09             | 1901545.32         | 543718.18         | N 36 13 33.66            | W 107 41 6.40             |
|            | 7135.00    | 92.33       | 269.64           | 5071.20     | 2136.15      | 774.27     | -2034.41   | 0.94             | 1901544.98         | 543654.22         | N 36 13 33.66            | W 107 41 7.18             |
|            | 7198.00    | 92.77       | 270.43           | 5068.40     | 2198.18      | 774.31     | -2097.35   | 1.43             | 1901544.92         | 543591.29         | N 36 13 33.66            | W 107 41 7.95             |
|            | 7261.00    | 92.77       | 270.40           | 5065.35     | 2260.28      | 774.76     | -2160.27   | 0.05             | 1901545.27         | 543528.37         | N 36 13 33.66            | W 107 41 8.71             |
|            | 7324.00    | 91.98       | 269.21           | 5062.74     | 2322.27      | 774.55     | -2223.22   | 2.27             | 1901544.96         | 543465.43         | N 36 13 33.66            | W 107 41 9.48             |
|            | 7387.00    | 92.07       | 270.44           | 5060.51     | 2384.29      | 774.36     | -2286.18   | 1.96             | 1901544.66         | 543402.48         | N 36 13 33.66            | W 107 41 10.25            |
|            | 7450.00    | 92.33       | 272.12           | 5058.09     | 2446.56      | 775.76     | -2349.11   | 2.70             | 1901545.97         | 543339.55         | N 36 13 33.67            | W 107 41 11.02            |
|            | 7512.00    | 91.80       | 271.25           | 5055.86     | 2507.90      | 777.59     | -2411.04   | 1.64             | 1901547.69         | 543277.62         | N 36 13 33.69            | W 107 41 11.77            |
|            | 7576.00    | 91.54       | 270.54           | 5054.00     | 2571.11      | 778.59     | -2475.01   | 1.18             | 1901548.59         | 543213.66         | N 36 13 33.70            | W 107 41 12.55            |
|            | 7639.00    | 92.07       | 270.81           | 5052.01     | 2633.29      | 779.33     | -2537.97   | 0.94             | 1901549.23         | 543150.70         | N 36 13 33.71            | W 107 41 13.32            |

| Comments                                    | MD<br>(ft) | Incl<br>(°) | Azim True<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|---------------------------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|                                             | 7703.00    | 92.07       | 271.34           | 5049.70     | 2696.52      | 780.53     | -2601.92   | 0.83             | 1901550.33         | 543086.75         | N 36 13 33.72           | W 107 41 14.10           |
|                                             | 7765.00    | 91.98       | 270.48           | 5047.51     | 2757.74      | 781.51     | -2663.87   | 1.39             | 1901551.21         | 543024.80         | N 36 13 33.73           | W 107 41 14.86           |
|                                             | 7829.00    | 91.89       | 270.48           | 5045.35     | 2820.87      | 782.05     | -2727.83   | 0.14             | 1901551.65         | 542960.85         | N 36 13 33.74           | W 107 41 15.64           |
|                                             | 7892.00    | 92.15       | 270.57           | 5043.13     | 2883.02      | 782.62     | -2790.79   | 0.44             | 1901552.12         | 542897.89         | N 36 13 33.74           | W 107 41 16.41           |
|                                             | 7956.00    | 92.24       | 270.16           | 5040.68     | 2946.11      | 783.03     | -2854.74   | 0.66             | 1901552.43         | 542833.95         | N 36 13 33.75           | W 107 41 17.19           |
|                                             | 8018.00    | 92.15       | 270.70           | 5038.30     | 3007.25      | 783.50     | -2916.69   | 0.88             | 1901552.79         | 542772.00         | N 36 13 33.75           | W 107 41 17.94           |
|                                             | 8081.00    | 92.07       | 270.59           | 5035.98     | 3069.41      | 784.20     | -2979.65   | 0.22             | 1901553.40         | 542709.05         | N 36 13 33.76           | W 107 41 18.71           |
|                                             | 8145.00    | 91.54       | 269.73           | 5033.97     | 3132.49      | 784.38     | -3043.62   | 1.58             | 1901553.48         | 542645.09         | N 36 13 33.76           | W 107 41 19.49           |
|                                             | 8208.00    | 92.15       | 269.69           | 5031.94     | 3194.49      | 784.06     | -3106.58   | 0.97             | 1901553.06         | 542582.13         | N 36 13 33.76           | W 107 41 20.26           |
|                                             | 8270.00    | 91.89       | 269.64           | 5029.75     | 3255.50      | 783.70     | -3168.54   | 0.43             | 1901552.60         | 542520.17         | N 36 13 33.75           | W 107 41 21.02           |
|                                             | 8334.00    | 92.15       | 269.94           | 5027.50     | 3318.49      | 783.47     | -3232.50   | 0.62             | 1901552.26         | 542456.22         | N 36 13 33.75           | W 107 41 21.80           |
|                                             | 8397.00    | 91.71       | 269.45           | 5025.37     | 3380.49      | 783.13     | -3295.46   | 1.05             | 1901551.83         | 542393.26         | N 36 13 33.75           | W 107 41 22.57           |
|                                             | 8458.00    | 91.80       | 268.77           | 5023.51     | 3440.41      | 782.19     | -3356.43   | 1.12             | 1901550.78         | 542332.30         | N 36 13 33.74           | W 107 41 23.31           |
|                                             | 8521.00    | 91.54       | 268.89           | 5021.67     | 3502.24      | 780.90     | -3419.39   | 0.45             | 1901549.40         | 542269.35         | N 36 13 33.72           | W 107 41 24.08           |
|                                             | 8585.00    | 92.33       | 269.31           | 5019.51     | 3565.10      | 779.90     | -3483.34   | 1.40             | 1901548.29         | 542205.40         | N 36 13 33.71           | W 107 41 24.86           |
|                                             | 8648.00    | 92.33       | 269.00           | 5016.95     | 3626.98      | 778.97     | -3546.28   | 0.49             | 1901547.26         | 542142.47         | N 36 13 33.70           | W 107 41 25.63           |
|                                             | 8711.00    | 92.33       | 269.53           | 5014.39     | 3688.88      | 778.16     | -3609.23   | 0.84             | 1901546.35         | 542079.53         | N 36 13 33.70           | W 107 41 26.40           |
|                                             | 8775.00    | 91.89       | 268.78           | 5012.03     | 3751.74      | 777.22     | -3673.18   | 1.36             | 1901545.31         | 542015.59         | N 36 13 33.69           | W 107 41 27.18           |
|                                             | 8839.00    | 91.19       | 268.80           | 5010.31     | 3814.55      | 775.87     | -3737.14   | 1.09             | 1901543.85         | 541951.64         | N 36 13 33.67           | W 107 41 27.96           |
|                                             | 8901.00    | 91.80       | 269.49           | 5008.69     | 3875.47      | 774.94     | -3799.11   | 1.49             | 1901542.83         | 541889.67         | N 36 13 33.66           | W 107 41 28.71           |
|                                             | 8965.00    | 91.36       | 269.12           | 5006.93     | 3938.39      | 774.16     | -3863.08   | 0.90             | 1901541.95         | 541825.71         | N 36 13 33.66           | W 107 41 29.49           |
|                                             | 9027.00    | 92.15       | 270.95           | 5005.03     | 3999.47      | 774.20     | -3925.05   | 3.21             | 1901541.89         | 541763.75         | N 36 13 33.66           | W 107 41 30.25           |
|                                             | 9090.00    | 91.45       | 270.73           | 5003.05     | 4061.67      | 775.13     | -3988.01   | 1.16             | 1901542.71         | 541700.79         | N 36 13 33.67           | W 107 41 31.02           |
|                                             | 9153.00    | 92.59       | 270.60           | 5000.83     | 4123.84      | 775.86     | -4050.97   | 1.82             | 1901543.34         | 541637.84         | N 36 13 33.67           | W 107 41 31.79           |
|                                             | 9216.00    | 91.71       | 270.20           | 4998.47     | 4185.96      | 776.30     | -4113.92   | 1.53             | 1901543.68         | 541574.89         | N 36 13 33.68           | W 107 41 32.56           |
|                                             | 9279.00    | 91.28       | 270.29           | 4996.82     | 4248.08      | 776.56     | -4176.90   | 0.70             | 1901543.85         | 541511.91         | N 36 13 33.68           | W 107 41 33.32           |
|                                             | 9343.00    | 92.33       | 270.62           | 4994.81     | 4311.20      | 777.07     | -4240.86   | 1.72             | 1901544.26         | 541447.95         | N 36 13 33.69           | W 107 41 34.11           |
|                                             | 9406.00    | 91.98       | 270.59           | 4992.44     | 4373.36      | 777.74     | -4303.81   | 0.56             | 1901544.82         | 541385.01         | N 36 13 33.69           | W 107 41 34.87           |
|                                             | 9469.00    | 90.22       | 269.40           | 4991.23     | 4435.43      | 777.73     | -4366.80   | 3.37             | 1901544.71         | 541322.03         | N 36 13 33.69           | W 107 41 35.64           |
|                                             | 9532.00    | 89.16       | 266.42           | 4991.57     | 4497.08      | 775.43     | -4429.75   | 5.02             | 1901542.32         | 541259.09         | N 36 13 33.67           | W 107 41 36.41           |
|                                             | 9595.00    | 90.13       | 267.09           | 4991.96     | 4558.47      | 771.87     | -4492.64   | 1.87             | 1901538.65         | 541196.20         | N 36 13 33.63           | W 107 41 37.18           |
|                                             | 9658.00    | 90.04       | 267.50           | 4991.87     | 4619.99      | 768.90     | -4555.57   | 0.67             | 1901535.58         | 541133.28         | N 36 13 33.60           | W 107 41 37.95           |
|                                             | 9688.00    | 90.04       | 267.51           | 4991.85     | 4649.30      | 767.59     | -4585.55   | 0.03             | 1901534.22         | 541103.31         | N 36 13 33.59           | W 107 41 38.31           |
| Straight Line<br>Projection to Bit<br>Depth | 9751.00    | 90.04       | 267.51           | 4991.80     | 4710.87      | 764.85     | -4648.49   | 0.00             | 1901531.39         | 541040.38         | N 36 13 33.56           | W 107 41 39.08           |

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 \*\*\* 3-D 95.000% Confidence 2.7955 sigma  
Survey Program:

| Description | MD From<br>(ft) | MD To<br>(ft) | EOU Freq<br>(ft) | Hole Size<br>(in) | Casing Diameter<br>(in) | Survey Tool Type       | Borehole / Survey                                          |
|-------------|-----------------|---------------|------------------|-------------------|-------------------------|------------------------|------------------------------------------------------------|
|             | 0.000           | 15.000        | Act Stns         | 8.750             | 0.000                   | SLB_MWD-STD-Depth Only | Pilot / WPX Chaco 2308 - 161<br>#147 Pilot MWD 0' to 5675' |

| Comments | MD<br>(ft) | Incl<br>(°) | Azim True<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ")                                    | Longitude<br>(E/W ° ' ") |
|----------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|------------------------------------------------------------|--------------------------|
|          |            | 15.000      | 453.000          |             | 1/98.425     | 8.750      | 0.000      | SLB_MWD-STD      |                    |                   | Pilot / WPX Chaco 2308 - 16l<br>#147 Pilot MWD 0' to 5675' |                          |
|          |            | 453.000     | 4582.000         |             | Act Stns     | 8.750      | 0.000      | SLB_MWD-STD      |                    |                   | Pilot / WPX Chaco 2308 - 16l<br>#147 Pilot MWD 0' to 5675' |                          |
|          |            | 4582.000    | 5638.000         |             | Act Stns     | 8.750      | 7.000      | SLB_MWD-STD      |                    |                   | ST01 / WPX Chaco 2308 - 16l<br>#147 ST01 MWD 0' to 9751'   |                          |
|          |            | 5638.000    | 9688.000         |             | Act Stns     | 6.125      | 4.500      | SLB_MWD-STD      |                    |                   | ST01 / WPX Chaco 2308 - 16l<br>#147 ST01 MWD 0' to 9751'   |                          |
|          |            | 9688.000    | 9751.000         |             | Act Stns     | 6.125      | 4.500      | SLB_BLIND+TREND  |                    |                   | ST01 / WPX Chaco 2308 - 16l<br>#147 ST01 MWD 0' to 9751'   |                          |