

Weld Co., Co (NAD 83) Xcel 13-27HZ Pad Xcel 32C-22HZ Extreme 23 Plan #4

SITE DETAILS: Xcel 13-27HZ Pad

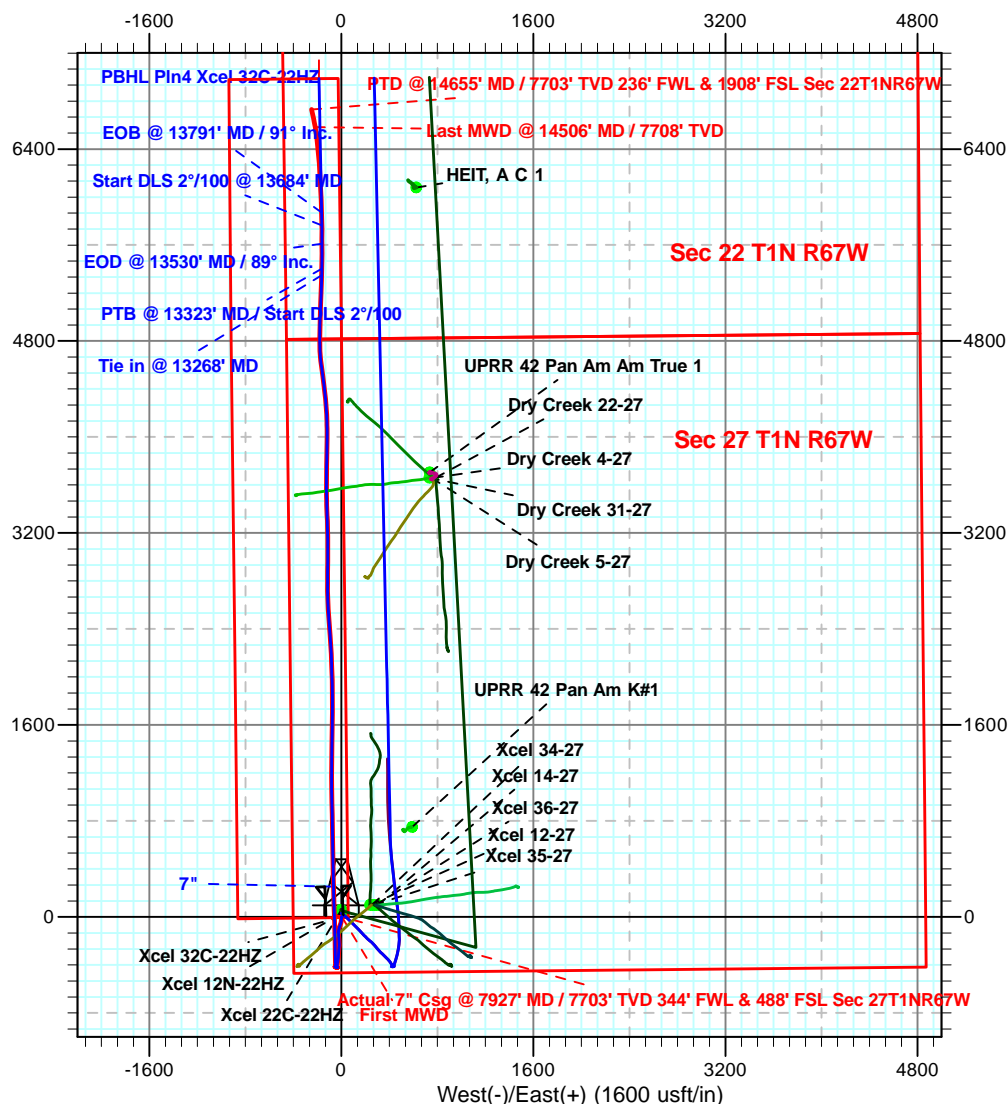
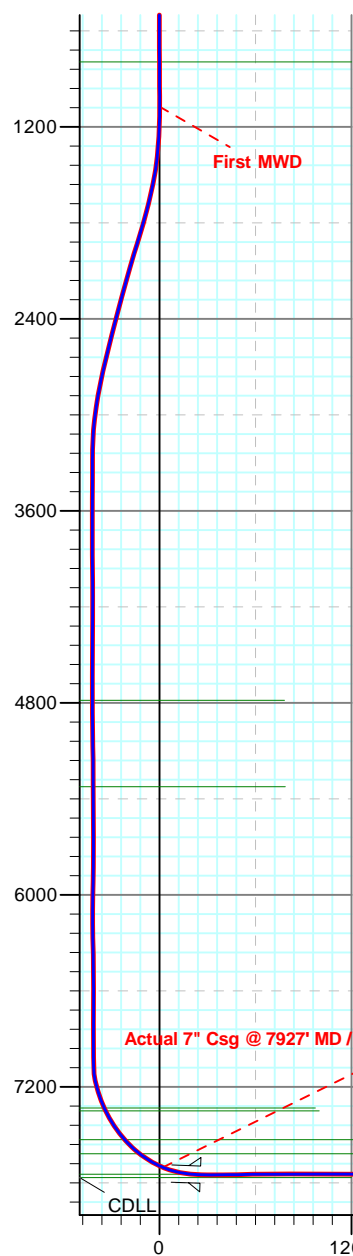
Site Centre Northing: 1249341.00
Easting: 3172361.42
Positional Uncertainty: 0.0
Convergence: 0.40
Local North: Grid

Azimuths to Grid North
Convergence: 0.40°
Total Correction: 8.17°

Magnetic Field
Strength: 52654.9snT
Dip Angle: 66.64°
Date: 12/3/2013
Model: IGRF2010

SECTION DETAILS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | Vsect | Target |
|---------|-------|--------|--------|--------|--------|------|---------|--------|-------------------------|
| 13268.0 | 92.90 | 1.00 | 7735.9 | 5348.2 | -164.9 | 0.00 | 0.00 | 5350.7 | |
| 13323.0 | 92.90 | 1.00 | 7733.1 | 5403.1 | -163.9 | 0.00 | 0.00 | 5405.6 | |
| 13530.2 | 89.00 | 359.60 | 7729.7 | 5610.2 | -162.8 | 2.00 | -160.24 | 5612.6 | |
| 13684.2 | 89.00 | 359.60 | 7732.4 | 5764.2 | -163.9 | 0.00 | 0.00 | 5766.5 | |
| 13790.7 | 91.00 | 358.85 | 7732.4 | 5870.7 | -165.4 | 2.00 | -20.47 | 5873.0 | |
| 14906.4 | 91.00 | 358.85 | 7713.0 | 6986.0 | -187.7 | 0.00 | 0.00 | 6988.6 | PBHL Pln4 Xcel 32C-22HZ |



Vertical Section at 358.46° (1200 usft/in)



Anadarko

Weld Co., Co (NAD 83)

Xcel 13-27HZ Pad

Xcel 32C-22HZ

Wellbore #1

Design: OH

Survey Report - Geographic

17 January, 2014



| | | | |
|------------------|-----------------------|-------------------------------------|--------------------------------|
| Company: | Anadarko | Local Co-ordinate Reference: | Well Xcel 32C-22HZ |
| Project: | Weld Co., Co (NAD 83) | TVD Reference: | Well @ 5043.0usft (Extreme 23) |
| Site: | Xcel 13-27HZ Pad | MD Reference: | Well @ 5043.0usft (Extreme 23) |
| Well: | Xcel 32C-22HZ | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | EDM 5000.1 Single User Db |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Weld Co., Co (NAD 83) | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | |
|------------------------------|------------------|--------------------------|-------------------|
| Site | Xcel 13-27HZ Pad | | |
| Site Position: | | Northing: | 1,249,340.99 usft |
| From: | Lat/Long | Easting: | 3,172,361.42 usft |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " |
| | | Latitude: | 40° 0' 58.269 N |
| | | Longitude: | 104° 53' 4.596 W |
| | | Grid Convergence: | 0.40 ° |

| | | | |
|-----------------------------|---------------|----------------------------|------------------------------------|
| Well | Xcel 32C-22HZ | | |
| Well Position | +N-S | 0.0 usft | Northing: 1,249,310.81 usft |
| | +E-W | 0.0 usft | Easting: 3,172,361.91 usft |
| Position Uncertainty | 0.0 usft | Wellhead Elevation: | 0.0 usft |
| | | Latitude: | 40° 0' 57.971 N |
| | | Longitude: | 104° 53' 4.592 W |
| | | Ground Level: | 5,027.0 usft |

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|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 12/3/2013 | 8.56 | 66.64 | 52,655 |

| | | | | | |
|--------------------------|--------------------------------|--------------------|--------------------|----------------------|-----|
| Design | OH | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N-S (usft) | +E-W (usft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 358.46 | |

| | | | | | |
|-----------------------|------------------|--------------------------|------------------|---------------------------|--|
| Survey Program | Date | 1/17/2014 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 100.0 | 946.0 | Survey #1 (Wellbore #1) | CT_GYRO_MS | Continuous Gyro Multishot | |
| 1,074.0 | 14,655.0 | Survey #2 (Wellbore #1) | MWD | MWD - Standard | |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|--------------------|--------------------|----------------------------|---------------------------|-----------------|------------------|--|
| Survey | | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude | |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 1,249,310.81 | 3,172,361.91 | 40° 0' 57.971 N | 104° 53' 4.592 W | |
| 100.0 | 0.21 | 135.09 | 100.0 | -0.1 | 0.1 | 1,249,310.68 | 3,172,362.04 | 40° 0' 57.969 N | 104° 53' 4.591 W | |
| 200.0 | 0.33 | 117.73 | 200.0 | -0.4 | 0.5 | 1,249,310.42 | 3,172,362.42 | 40° 0' 57.967 N | 104° 53' 4.586 W | |
| 300.0 | 0.41 | 158.61 | 300.0 | -0.9 | 0.9 | 1,249,309.95 | 3,172,362.81 | 40° 0' 57.962 N | 104° 53' 4.581 W | |
| 400.0 | 0.35 | 90.56 | 400.0 | -1.2 | 1.3 | 1,249,309.61 | 3,172,363.24 | 40° 0' 57.959 N | 104° 53' 4.575 W | |
| 500.0 | 0.48 | 74.32 | 500.0 | -1.1 | 2.0 | 1,249,309.72 | 3,172,363.95 | 40° 0' 57.960 N | 104° 53' 4.566 W | |
| 600.0 | 0.34 | 90.21 | 600.0 | -1.0 | 2.7 | 1,249,309.83 | 3,172,364.65 | 40° 0' 57.961 N | 104° 53' 4.557 W | |
| 700.0 | 0.33 | 29.35 | 700.0 | -0.7 | 3.2 | 1,249,310.08 | 3,172,365.09 | 40° 0' 57.963 N | 104° 53' 4.552 W | |
| 800.0 | 0.32 | 32.11 | 800.0 | -0.2 | 3.5 | 1,249,310.57 | 3,172,365.38 | 40° 0' 57.968 N | 104° 53' 4.548 W | |
| 900.0 | 0.35 | 301.73 | 900.0 | 0.2 | 3.4 | 1,249,310.97 | 3,172,365.27 | 40° 0' 57.972 N | 104° 53' 4.549 W | |
| 946.0 | 0.26 | 298.49 | 946.0 | 0.3 | 3.1 | 1,249,311.09 | 3,172,365.06 | 40° 0' 57.973 N | 104° 53' 4.552 W | |

| | | | |
|------------------|-----------------------|-------------------------------------|--------------------------------|
| Company: | Anadarko | Local Co-ordinate Reference: | Well Xcel 32C-22HZ |
| Project: | Weld Co., Co (NAD 83) | TVD Reference: | Well @ 5043.0usft (Extreme 23) |
| Site: | Xcel 13-27HZ Pad | MD Reference: | Well @ 5043.0usft (Extreme 23) |
| Well: | Xcel 32C-22HZ | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------------|------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 1,074.0 | 0.50 | 1.60 | 1,074.0 | 1.0 | 2.9 | 1,249,311.79 | 3,172,364.82 | 40° 0' 57.980 N | 104° 53' 4.555 W |
| First MWD | | | | | | | | | |
| 1,168.0 | 1.80 | 191.20 | 1,168.0 | -0.1 | 2.6 | 1,249,310.75 | 3,172,364.54 | 40° 0' 57.970 N | 104° 53' 4.559 W |
| 1,261.0 | 4.00 | 191.60 | 1,260.8 | -4.7 | 1.7 | 1,249,306.14 | 3,172,363.61 | 40° 0' 57.924 N | 104° 53' 4.571 W |
| 1,354.0 | 4.60 | 180.50 | 1,353.6 | -11.6 | 1.0 | 1,249,299.23 | 3,172,362.92 | 40° 0' 57.856 N | 104° 53' 4.580 W |
| 1,448.0 | 8.30 | 188.40 | 1,447.0 | -22.1 | 0.0 | 1,249,288.75 | 3,172,361.90 | 40° 0' 57.753 N | 104° 53' 4.595 W |
| 1,541.0 | 11.30 | 190.90 | 1,538.6 | -37.7 | -2.7 | 1,249,273.16 | 3,172,359.19 | 40° 0' 57.599 N | 104° 53' 4.631 W |
| 1,635.0 | 13.70 | 196.70 | 1,630.4 | -57.4 | -7.7 | 1,249,253.45 | 3,172,354.25 | 40° 0' 57.404 N | 104° 53' 4.696 W |
| 1,729.0 | 15.70 | 201.10 | 1,721.3 | -79.9 | -15.4 | 1,249,230.92 | 3,172,346.47 | 40° 0' 57.182 N | 104° 53' 4.798 W |
| 1,822.0 | 16.50 | 190.30 | 1,810.7 | -104.6 | -22.3 | 1,249,206.18 | 3,172,339.58 | 40° 0' 56.938 N | 104° 53' 4.889 W |
| 1,918.0 | 17.10 | 178.60 | 1,902.6 | -132.2 | -24.4 | 1,249,178.65 | 3,172,337.49 | 40° 0' 56.666 N | 104° 53' 4.918 W |
| 2,011.0 | 16.70 | 175.10 | 1,991.6 | -159.1 | -22.9 | 1,249,151.67 | 3,172,338.96 | 40° 0' 56.399 N | 104° 53' 4.902 W |
| 2,104.0 | 16.20 | 176.60 | 2,080.8 | -185.4 | -21.0 | 1,249,125.40 | 3,172,340.87 | 40° 0' 56.140 N | 104° 53' 4.879 W |
| 2,197.0 | 16.00 | 175.60 | 2,170.1 | -211.1 | -19.3 | 1,249,099.67 | 3,172,342.63 | 40° 0' 55.885 N | 104° 53' 4.859 W |
| 2,290.0 | 15.30 | 181.90 | 2,259.7 | -236.2 | -18.7 | 1,249,074.63 | 3,172,343.20 | 40° 0' 55.638 N | 104° 53' 4.854 W |
| 2,383.0 | 15.10 | 186.30 | 2,349.4 | -260.5 | -20.4 | 1,249,050.32 | 3,172,341.47 | 40° 0' 55.398 N | 104° 53' 4.878 W |
| 2,476.0 | 14.30 | 185.60 | 2,439.4 | -284.0 | -22.9 | 1,249,026.85 | 3,172,339.02 | 40° 0' 55.166 N | 104° 53' 4.912 W |
| 2,569.0 | 13.90 | 183.70 | 2,529.6 | -306.5 | -24.7 | 1,249,004.27 | 3,172,337.17 | 40° 0' 54.943 N | 104° 53' 4.938 W |
| 2,662.0 | 13.70 | 181.90 | 2,619.9 | -328.7 | -25.8 | 1,248,982.12 | 3,172,336.09 | 40° 0' 54.724 N | 104° 53' 4.954 W |
| 2,755.0 | 13.20 | 187.90 | 2,710.4 | -350.2 | -27.6 | 1,248,960.59 | 3,172,334.26 | 40° 0' 54.512 N | 104° 53' 4.979 W |
| 2,848.0 | 12.00 | 190.00 | 2,801.1 | -370.3 | -30.8 | 1,248,940.55 | 3,172,331.12 | 40° 0' 54.314 N | 104° 53' 5.021 W |
| 2,941.0 | 9.70 | 190.20 | 2,892.5 | -387.5 | -33.8 | 1,248,923.32 | 3,172,328.06 | 40° 0' 54.144 N | 104° 53' 5.062 W |
| 3,033.0 | 7.40 | 188.80 | 2,983.4 | -401.0 | -36.1 | 1,248,909.83 | 3,172,325.78 | 40° 0' 54.011 N | 104° 53' 5.093 W |
| 3,124.0 | 6.00 | 200.00 | 3,073.8 | -411.2 | -38.7 | 1,248,899.57 | 3,172,323.26 | 40° 0' 53.909 N | 104° 53' 5.126 W |
| 3,215.0 | 2.60 | 180.20 | 3,164.5 | -417.8 | -40.3 | 1,248,893.04 | 3,172,321.62 | 40° 0' 53.845 N | 104° 53' 5.147 W |
| 3,306.0 | 0.90 | 100.50 | 3,255.5 | -420.0 | -39.6 | 1,248,890.84 | 3,172,322.32 | 40° 0' 53.823 N | 104° 53' 5.139 W |
| 3,397.0 | 0.90 | 109.70 | 3,346.5 | -420.3 | -38.2 | 1,248,890.47 | 3,172,323.69 | 40° 0' 53.819 N | 104° 53' 5.121 W |
| 3,489.0 | 0.70 | 104.90 | 3,438.5 | -420.7 | -37.0 | 1,248,890.08 | 3,172,324.92 | 40° 0' 53.815 N | 104° 53' 5.105 W |
| 3,580.0 | 0.40 | 109.10 | 3,529.5 | -421.0 | -36.2 | 1,248,889.84 | 3,172,325.75 | 40° 0' 53.813 N | 104° 53' 5.095 W |
| 3,671.0 | 0.20 | 121.10 | 3,620.5 | -421.2 | -35.7 | 1,248,889.65 | 3,172,326.19 | 40° 0' 53.811 N | 104° 53' 5.089 W |
| 3,756.0 | 0.40 | 115.30 | 3,705.5 | -421.4 | -35.3 | 1,248,889.45 | 3,172,326.58 | 40° 0' 53.809 N | 104° 53' 5.084 W |
| 3,842.0 | 0.00 | 326.20 | 3,791.5 | -421.5 | -35.1 | 1,248,889.32 | 3,172,326.86 | 40° 0' 53.808 N | 104° 53' 5.081 W |
| 3,927.0 | 0.40 | 12.30 | 3,876.5 | -421.2 | -35.0 | 1,248,889.61 | 3,172,326.92 | 40° 0' 53.811 N | 104° 53' 5.080 W |
| 4,012.0 | 1.20 | 338.70 | 3,961.5 | -420.1 | -35.2 | 1,248,890.73 | 3,172,326.66 | 40° 0' 53.822 N | 104° 53' 5.083 W |
| 4,097.0 | 0.90 | 339.20 | 4,046.5 | -418.6 | -35.8 | 1,248,892.18 | 3,172,326.10 | 40° 0' 53.836 N | 104° 53' 5.090 W |
| 4,183.0 | 0.90 | 296.20 | 4,132.4 | -417.7 | -36.7 | 1,248,893.11 | 3,172,325.25 | 40° 0' 53.845 N | 104° 53' 5.101 W |
| 4,268.0 | 0.70 | 241.00 | 4,217.4 | -417.7 | -37.7 | 1,248,893.15 | 3,172,324.20 | 40° 0' 53.846 N | 104° 53' 5.114 W |
| 4,354.0 | 0.90 | 207.20 | 4,303.4 | -418.5 | -38.5 | 1,248,892.30 | 3,172,323.43 | 40° 0' 53.837 N | 104° 53' 5.124 W |
| 4,439.0 | 1.10 | 153.60 | 4,388.4 | -419.8 | -38.4 | 1,248,890.97 | 3,172,323.49 | 40° 0' 53.824 N | 104° 53' 5.124 W |
| 4,524.0 | 0.90 | 109.70 | 4,473.4 | -420.8 | -37.4 | 1,248,890.02 | 3,172,324.48 | 40° 0' 53.815 N | 104° 53' 5.111 W |
| 4,609.0 | 0.70 | 117.00 | 4,558.4 | -421.3 | -36.3 | 1,248,889.56 | 3,172,325.57 | 40° 0' 53.810 N | 104° 53' 5.097 W |
| 4,695.0 | 0.40 | 91.20 | 4,644.4 | -421.5 | -35.6 | 1,248,889.31 | 3,172,326.34 | 40° 0' 53.808 N | 104° 53' 5.087 W |
| 4,782.0 | 0.90 | 300.00 | 4,731.4 | -421.2 | -35.9 | 1,248,889.65 | 3,172,326.05 | 40° 0' 53.811 N | 104° 53' 5.091 W |
| 4,865.0 | 1.40 | 296.30 | 4,814.4 | -420.4 | -37.3 | 1,248,890.42 | 3,172,324.58 | 40° 0' 53.819 N | 104° 53' 5.110 W |
| 4,951.0 | 1.20 | 292.80 | 4,900.3 | -419.6 | -39.1 | 1,248,891.24 | 3,172,322.81 | 40° 0' 53.827 N | 104° 53' 5.132 W |
| 5,036.0 | 1.20 | 294.90 | 4,985.3 | -418.9 | -40.7 | 1,248,891.96 | 3,172,321.18 | 40° 0' 53.834 N | 104° 53' 5.153 W |
| 5,122.0 | 1.20 | 302.30 | 5,071.3 | -418.0 | -42.3 | 1,248,892.82 | 3,172,319.60 | 40° 0' 53.843 N | 104° 53' 5.173 W |
| 5,207.0 | 1.40 | 297.80 | 5,156.3 | -417.0 | -44.0 | 1,248,893.78 | 3,172,317.93 | 40° 0' 53.852 N | 104° 53' 5.195 W |
| 5,292.0 | 1.80 | 283.20 | 5,241.3 | -416.2 | -46.2 | 1,248,894.57 | 3,172,315.71 | 40° 0' 53.860 N | 104° 53' 5.223 W |
| 5,377.0 | 1.90 | 277.90 | 5,326.2 | -415.7 | -48.9 | 1,248,895.07 | 3,172,313.02 | 40° 0' 53.865 N | 104° 53' 5.258 W |
| 5,463.0 | 1.90 | 281.20 | 5,412.2 | -415.3 | -51.7 | 1,248,895.54 | 3,172,310.20 | 40° 0' 53.870 N | 104° 53' 5.294 W |
| 5,548.0 | 0.20 | 152.60 | 5,497.1 | -415.1 | -53.0 | 1,248,895.68 | 3,172,308.89 | 40° 0' 53.872 N | 104° 53' 5.311 W |
| 5,634.0 | 0.20 | 64.10 | 5,583.1 | -415.2 | -52.8 | 1,248,895.61 | 3,172,309.09 | 40° 0' 53.871 N | 104° 53' 5.308 W |
| 5,719.0 | 0.40 | 344.51 | 5,668.1 | -414.8 | -52.8 | 1,248,895.96 | 3,172,309.15 | 40° 0' 53.875 N | 104° 53' 5.307 W |
| 5,805.0 | 0.50 | 351.90 | 5,754.1 | -414.2 | -52.9 | 1,248,896.62 | 3,172,309.02 | 40° 0' 53.881 N | 104° 53' 5.309 W |

| | | | |
|------------------|-----------------------|-------------------------------------|--------------------------------|
| Company: | Anadarko | Local Co-ordinate Reference: | Well Xcel 32C-22HZ |
| Project: | Weld Co., Co (NAD 83) | TVD Reference: | Well @ 5043.0usft (Extreme 23) |
| Site: | Xcel 13-27HZ Pad | MD Reference: | Well @ 5043.0usft (Extreme 23) |
| Well: | Xcel 32C-22HZ | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------------|------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 5,890.0 | 1.60 | 145.70 | 5,839.1 | -414.8 | -52.3 | 1,248,896.01 | 3,172,309.63 | 40° 0' 53.875 N | 104° 53' 5.301 W |
| 5,975.0 | 1.60 | 141.10 | 5,924.1 | -416.7 | -50.9 | 1,248,894.11 | 3,172,311.05 | 40° 0' 53.856 N | 104° 53' 5.283 W |
| 6,061.0 | 0.90 | 126.20 | 6,010.1 | -418.0 | -49.6 | 1,248,892.77 | 3,172,312.35 | 40° 0' 53.843 N | 104° 53' 5.267 W |
| 6,146.0 | 0.70 | 117.20 | 6,095.1 | -418.7 | -48.6 | 1,248,892.14 | 3,172,313.35 | 40° 0' 53.837 N | 104° 53' 5.254 W |
| 6,232.0 | 0.70 | 78.70 | 6,181.1 | -418.8 | -47.6 | 1,248,892.00 | 3,172,314.33 | 40° 0' 53.835 N | 104° 53' 5.241 W |
| 6,317.0 | 0.50 | 28.50 | 6,266.1 | -418.4 | -46.9 | 1,248,892.43 | 3,172,315.01 | 40° 0' 53.839 N | 104° 53' 5.232 W |
| 6,402.0 | 1.20 | 340.80 | 6,351.1 | -417.2 | -47.0 | 1,248,893.60 | 3,172,314.90 | 40° 0' 53.851 N | 104° 53' 5.234 W |
| 6,488.0 | 0.90 | 0.50 | 6,437.0 | -415.7 | -47.3 | 1,248,895.12 | 3,172,314.61 | 40° 0' 53.866 N | 104° 53' 5.237 W |
| 6,573.0 | 0.90 | 340.60 | 6,522.0 | -414.4 | -47.5 | 1,248,896.42 | 3,172,314.39 | 40° 0' 53.879 N | 104° 53' 5.240 W |
| 6,659.0 | 0.50 | 284.60 | 6,608.0 | -413.7 | -48.1 | 1,248,897.15 | 3,172,313.81 | 40° 0' 53.886 N | 104° 53' 5.248 W |
| 6,744.0 | 0.20 | 284.20 | 6,693.0 | -413.5 | -48.6 | 1,248,897.28 | 3,172,313.30 | 40° 0' 53.887 N | 104° 53' 5.254 W |
| 6,830.0 | 0.20 | 153.10 | 6,779.0 | -413.6 | -48.7 | 1,248,897.19 | 3,172,313.22 | 40° 0' 53.886 N | 104° 53' 5.255 W |
| 6,915.0 | 0.40 | 127.40 | 6,864.0 | -413.9 | -48.4 | 1,248,896.87 | 3,172,313.53 | 40° 0' 53.883 N | 104° 53' 5.251 W |
| 7,000.0 | 0.50 | 96.50 | 6,949.0 | -414.2 | -47.8 | 1,248,896.65 | 3,172,314.13 | 40° 0' 53.881 N | 104° 53' 5.243 W |
| 7,086.0 | 0.50 | 87.20 | 7,035.0 | -414.2 | -47.0 | 1,248,896.63 | 3,172,314.88 | 40° 0' 53.881 N | 104° 53' 5.234 W |
| 7,128.0 | 1.80 | 12.10 | 7,077.0 | -413.5 | -46.7 | 1,248,897.28 | 3,172,315.20 | 40° 0' 53.887 N | 104° 53' 5.230 W |
| 7,171.0 | 6.50 | 352.60 | 7,119.9 | -410.5 | -46.9 | 1,248,900.36 | 3,172,315.03 | 40° 0' 53.918 N | 104° 53' 5.232 W |
| 7,214.0 | 12.10 | 355.20 | 7,162.3 | -403.5 | -47.6 | 1,248,907.27 | 3,172,314.34 | 40° 0' 53.986 N | 104° 53' 5.240 W |
| 7,257.0 | 15.30 | 355.60 | 7,204.1 | -393.4 | -48.4 | 1,248,917.42 | 3,172,313.53 | 40° 0' 54.086 N | 104° 53' 5.249 W |
| 7,299.0 | 18.31 | 351.20 | 7,244.3 | -381.3 | -49.8 | 1,248,929.47 | 3,172,312.09 | 40° 0' 54.205 N | 104° 53' 5.267 W |
| 7,342.0 | 21.10 | 351.90 | 7,284.8 | -367.0 | -51.9 | 1,248,943.81 | 3,172,309.97 | 40° 0' 54.347 N | 104° 53' 5.293 W |
| 7,384.0 | 23.90 | 355.80 | 7,323.6 | -351.0 | -53.6 | 1,248,959.78 | 3,172,308.28 | 40° 0' 54.505 N | 104° 53' 5.313 W |
| 7,427.0 | 27.10 | 1.60 | 7,362.4 | -332.5 | -54.0 | 1,248,978.26 | 3,172,307.91 | 40° 0' 54.688 N | 104° 53' 5.316 W |
| 7,469.0 | 30.10 | 3.80 | 7,399.2 | -312.5 | -53.0 | 1,248,998.34 | 3,172,308.88 | 40° 0' 54.886 N | 104° 53' 5.302 W |
| 7,512.0 | 33.60 | 1.70 | 7,435.8 | -289.8 | -52.0 | 1,249,021.00 | 3,172,309.95 | 40° 0' 55.110 N | 104° 53' 5.286 W |
| 7,555.0 | 36.10 | 0.01 | 7,471.0 | -265.2 | -51.6 | 1,249,045.57 | 3,172,310.30 | 40° 0' 55.353 N | 104° 53' 5.279 W |
| 7,598.0 | 39.20 | 357.70 | 7,505.1 | -239.0 | -52.2 | 1,249,071.82 | 3,172,309.76 | 40° 0' 55.612 N | 104° 53' 5.284 W |
| 7,640.0 | 41.50 | 358.20 | 7,537.1 | -211.8 | -53.1 | 1,249,098.99 | 3,172,308.79 | 40° 0' 55.881 N | 104° 53' 5.294 W |
| 7,683.0 | 45.20 | 358.00 | 7,568.4 | -182.3 | -54.1 | 1,249,128.49 | 3,172,307.81 | 40° 0' 56.173 N | 104° 53' 5.304 W |
| 7,726.0 | 49.80 | 358.90 | 7,597.4 | -150.6 | -55.0 | 1,249,160.17 | 3,172,306.96 | 40° 0' 56.486 N | 104° 53' 5.312 W |
| 7,768.0 | 53.80 | 359.60 | 7,623.4 | -117.6 | -55.4 | 1,249,193.17 | 3,172,306.53 | 40° 0' 56.812 N | 104° 53' 5.315 W |
| 7,811.0 | 56.30 | 359.10 | 7,648.0 | -82.4 | -55.8 | 1,249,228.41 | 3,172,306.13 | 40° 0' 57.160 N | 104° 53' 5.317 W |
| 7,854.0 | 60.00 | 357.90 | 7,670.7 | -45.9 | -56.7 | 1,249,264.91 | 3,172,305.17 | 40° 0' 57.521 N | 104° 53' 5.326 W |
| 7,896.0 | 64.90 | 357.20 | 7,690.1 | -8.7 | -58.3 | 1,249,302.10 | 3,172,303.57 | 40° 0' 57.889 N | 104° 53' 5.343 W |
| 7,927.0 | 67.67 | 357.28 | 7,702.6 | 19.6 | -59.7 | 1,249,330.45 | 3,172,302.20 | 40° 0' 58.169 N | 104° 53' 5.358 W |
| Actual 7" Csg @ 7927' MD / 7703' TVD 344' FWL & 488' FSL Sec 27T1NR67W | | | | | | | | | |
| 7,934.0 | 68.30 | 357.30 | 7,705.2 | 26.1 | -60.0 | 1,249,336.93 | 3,172,301.90 | 40° 0' 58.233 N | 104° 53' 5.361 W |
| 7,965.0 | 71.10 | 357.70 | 7,716.0 | 55.2 | -61.3 | 1,249,365.98 | 3,172,300.63 | 40° 0' 58.520 N | 104° 53' 5.375 W |
| 7,996.0 | 74.10 | 358.40 | 7,725.2 | 84.7 | -62.3 | 1,249,395.54 | 3,172,299.62 | 40° 0' 58.812 N | 104° 53' 5.385 W |
| 8,027.0 | 76.90 | 359.80 | 7,733.0 | 114.7 | -62.8 | 1,249,425.54 | 3,172,299.16 | 40° 0' 59.109 N | 104° 53' 5.389 W |
| 8,058.0 | 80.60 | 359.50 | 7,739.0 | 145.1 | -62.9 | 1,249,455.94 | 3,172,298.97 | 40° 0' 59.409 N | 104° 53' 5.388 W |
| 8,089.0 | 83.60 | 358.70 | 7,743.3 | 175.8 | -63.4 | 1,249,486.64 | 3,172,298.49 | 40° 0' 59.713 N | 104° 53' 5.392 W |
| 8,120.0 | 86.00 | 358.00 | 7,746.1 | 206.7 | -64.3 | 1,249,517.50 | 3,172,297.60 | 40° 1' 0.018 N | 104° 53' 5.401 W |
| 8,151.0 | 87.60 | 358.00 | 7,747.8 | 237.6 | -65.4 | 1,249,548.43 | 3,172,296.52 | 40° 1' 0.323 N | 104° 53' 5.412 W |
| 8,213.0 | 88.70 | 357.90 | 7,749.8 | 299.5 | -67.6 | 1,249,610.36 | 3,172,294.30 | 40° 1' 0.936 N | 104° 53' 5.435 W |
| 8,306.0 | 91.00 | 358.90 | 7,750.1 | 392.5 | -70.2 | 1,249,703.31 | 3,172,291.70 | 40° 1' 1.854 N | 104° 53' 5.460 W |
| 8,399.0 | 91.50 | 359.10 | 7,748.0 | 485.5 | -71.8 | 1,249,796.28 | 3,172,290.08 | 40° 1' 2.773 N | 104° 53' 5.472 W |
| 8,492.0 | 90.60 | 359.30 | 7,746.3 | 578.4 | -73.1 | 1,249,889.25 | 3,172,288.78 | 40° 1' 3.692 N | 104° 53' 5.481 W |
| 8,585.0 | 89.40 | 358.60 | 7,746.3 | 671.4 | -74.8 | 1,249,982.23 | 3,172,287.08 | 40° 1' 4.611 N | 104° 53' 5.494 W |
| 8,678.0 | 91.00 | 359.10 | 7,746.0 | 764.4 | -76.7 | 1,250,075.21 | 3,172,285.21 | 40° 1' 5.530 N | 104° 53' 5.510 W |
| 8,771.0 | 92.00 | 359.50 | 7,743.6 | 857.4 | -77.8 | 1,250,168.17 | 3,172,284.08 | 40° 1' 6.449 N | 104° 53' 5.516 W |
| 8,864.0 | 88.20 | 358.90 | 7,743.4 | 950.3 | -79.1 | 1,250,261.14 | 3,172,282.78 | 40° 1' 7.368 N | 104° 53' 5.525 W |
| 8,956.0 | 89.20 | 359.30 | 7,745.5 | 1,042.3 | -80.6 | 1,250,353.11 | 3,172,281.33 | 40° 1' 8.277 N | 104° 53' 5.535 W |
| 9,047.0 | 89.70 | 359.30 | 7,746.4 | 1,133.3 | -81.7 | 1,250,444.09 | 3,172,280.22 | 40° 1' 9.176 N | 104° 53' 5.541 W |
| 9,138.0 | 90.10 | 359.80 | 7,746.5 | 1,224.3 | -82.4 | 1,250,535.09 | 3,172,279.51 | 40° 1' 10.075 N | 104° 53' 5.542 W |

| | | | |
|------------------|-----------------------|-------------------------------------|--------------------------------|
| Company: | Anadarko | Local Co-ordinate Reference: | Well Xcel 32C-22HZ |
| Project: | Weld Co., Co (NAD 83) | TVD Reference: | Well @ 5043.0usft (Extreme 23) |
| Site: | Xcel 13-27HZ Pad | MD Reference: | Well @ 5043.0usft (Extreme 23) |
| Well: | Xcel 32C-22HZ | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------------|------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 9,229.0 | 89.90 | 0.70 | 7,746.5 | 1,315.3 | -82.0 | 1,250,626.09 | 3,172,279.90 | 40° 1' 10.974 N | 104° 53' 5.529 W |
| 9,320.0 | 91.80 | 1.60 | 7,745.2 | 1,406.2 | -80.2 | 1,250,717.06 | 3,172,281.73 | 40° 1' 11.873 N | 104° 53' 5.498 W |
| 9,412.0 | 89.60 | 1.40 | 7,744.1 | 1,498.2 | -77.8 | 1,250,809.01 | 3,172,284.14 | 40° 1' 12.782 N | 104° 53' 5.458 W |
| 9,505.0 | 88.90 | 0.50 | 7,745.3 | 1,591.2 | -76.2 | 1,250,901.99 | 3,172,285.68 | 40° 1' 13.701 N | 104° 53' 5.430 W |
| 9,597.0 | 88.50 | 0.20 | 7,747.4 | 1,683.2 | -75.7 | 1,250,993.96 | 3,172,286.24 | 40° 1' 14.609 N | 104° 53' 5.415 W |
| 9,682.0 | 89.00 | 0.30 | 7,749.2 | 1,768.1 | -75.3 | 1,251,078.94 | 3,172,286.61 | 40° 1' 15.449 N | 104° 53' 5.403 W |
| 9,768.0 | 89.20 | 359.10 | 7,750.6 | 1,854.1 | -75.7 | 1,251,164.93 | 3,172,286.16 | 40° 1' 16.299 N | 104° 53' 5.401 W |
| 9,853.0 | 88.90 | 357.70 | 7,752.0 | 1,939.1 | -78.1 | 1,251,249.88 | 3,172,283.79 | 40° 1' 17.139 N | 104° 53' 5.424 W |
| 9,938.0 | 88.90 | 358.70 | 7,753.6 | 2,024.0 | -80.8 | 1,251,334.82 | 3,172,281.12 | 40° 1' 17.978 N | 104° 53' 5.450 W |
| 10,024.0 | 90.30 | 358.90 | 7,754.2 | 2,110.0 | -82.6 | 1,251,420.80 | 3,172,279.32 | 40° 1' 18.828 N | 104° 53' 5.466 W |
| 10,109.0 | 89.70 | 357.20 | 7,754.2 | 2,194.9 | -85.5 | 1,251,505.75 | 3,172,276.43 | 40° 1' 19.668 N | 104° 53' 5.495 W |
| 10,194.0 | 91.00 | 356.50 | 7,753.7 | 2,279.8 | -90.2 | 1,251,590.62 | 3,172,271.76 | 40° 1' 20.507 N | 104° 53' 5.548 W |
| 10,280.0 | 88.50 | 354.90 | 7,754.1 | 2,365.6 | -96.6 | 1,251,676.36 | 3,172,265.31 | 40° 1' 21.355 N | 104° 53' 5.623 W |
| 10,365.0 | 89.70 | 356.50 | 7,755.4 | 2,450.3 | -103.0 | 1,251,761.11 | 3,172,258.94 | 40° 1' 22.193 N | 104° 53' 5.697 W |
| 10,451.0 | 89.90 | 355.90 | 7,755.7 | 2,536.1 | -108.7 | 1,251,846.92 | 3,172,253.24 | 40° 1' 23.041 N | 104° 53' 5.763 W |
| 10,536.0 | 91.00 | 357.50 | 7,755.0 | 2,621.0 | -113.6 | 1,251,931.77 | 3,172,248.34 | 40° 1' 23.880 N | 104° 53' 5.818 W |
| 10,621.0 | 90.30 | 359.50 | 7,754.1 | 2,705.9 | -115.8 | 1,252,016.73 | 3,172,246.12 | 40° 1' 24.720 N | 104° 53' 5.839 W |
| 10,706.0 | 89.40 | 0.01 | 7,754.3 | 2,790.9 | -116.2 | 1,252,101.73 | 3,172,245.75 | 40° 1' 25.560 N | 104° 53' 5.837 W |
| 10,792.0 | 90.80 | 1.20 | 7,754.2 | 2,876.9 | -115.3 | 1,252,187.72 | 3,172,246.66 | 40° 1' 26.409 N | 104° 53' 5.817 W |
| 10,877.0 | 89.70 | 359.80 | 7,753.8 | 2,961.9 | -114.5 | 1,252,272.71 | 3,172,247.40 | 40° 1' 27.249 N | 104° 53' 5.800 W |
| 10,962.0 | 89.40 | 359.80 | 7,754.4 | 3,046.9 | -114.8 | 1,252,357.71 | 3,172,247.10 | 40° 1' 28.089 N | 104° 53' 5.796 W |
| 11,048.0 | 89.70 | 0.20 | 7,755.1 | 3,132.9 | -114.8 | 1,252,443.71 | 3,172,247.10 | 40° 1' 28.939 N | 104° 53' 5.789 W |
| 11,133.0 | 90.10 | 358.70 | 7,755.3 | 3,217.9 | -115.6 | 1,252,528.70 | 3,172,246.29 | 40° 1' 29.779 N | 104° 53' 5.792 W |
| 11,218.0 | 90.10 | 357.70 | 7,755.1 | 3,302.8 | -118.3 | 1,252,613.66 | 3,172,243.62 | 40° 1' 30.619 N | 104° 53' 5.818 W |
| 11,304.0 | 90.60 | 357.20 | 7,754.6 | 3,388.8 | -122.1 | 1,252,699.57 | 3,172,239.79 | 40° 1' 31.468 N | 104° 53' 5.860 W |
| 11,389.0 | 93.40 | 359.50 | 7,751.6 | 3,473.7 | -124.6 | 1,252,784.47 | 3,172,237.34 | 40° 1' 32.307 N | 104° 53' 5.884 W |
| 11,475.0 | 94.30 | 0.01 | 7,745.9 | 3,559.5 | -124.9 | 1,252,870.27 | 3,172,236.97 | 40° 1' 33.155 N | 104° 53' 5.881 W |
| 11,560.0 | 93.40 | 359.80 | 7,740.1 | 3,644.3 | -125.1 | 1,252,955.08 | 3,172,236.83 | 40° 1' 33.993 N | 104° 53' 5.875 W |
| 11,645.0 | 91.50 | 0.90 | 7,736.5 | 3,729.2 | -124.6 | 1,253,040.00 | 3,172,237.35 | 40° 1' 34.833 N | 104° 53' 5.861 W |
| 11,731.0 | 87.60 | 1.20 | 7,737.2 | 3,815.2 | -123.0 | 1,253,125.96 | 3,172,238.92 | 40° 1' 35.682 N | 104° 53' 5.833 W |
| 11,816.0 | 88.00 | 1.20 | 7,740.5 | 3,900.1 | -121.2 | 1,253,210.88 | 3,172,240.70 | 40° 1' 36.521 N | 104° 53' 5.803 W |
| 11,902.0 | 89.00 | 0.70 | 7,742.7 | 3,986.0 | -119.8 | 1,253,296.84 | 3,172,242.13 | 40° 1' 37.370 N | 104° 53' 5.777 W |
| 11,987.0 | 91.10 | 359.50 | 7,742.6 | 4,071.0 | -119.6 | 1,253,381.83 | 3,172,242.27 | 40° 1' 38.210 N | 104° 53' 5.767 W |
| 12,072.0 | 89.20 | 357.50 | 7,742.4 | 4,156.0 | -121.9 | 1,253,466.79 | 3,172,240.05 | 40° 1' 39.050 N | 104° 53' 5.788 W |
| 12,158.0 | 90.60 | 356.30 | 7,742.6 | 4,241.9 | -126.5 | 1,253,552.66 | 3,172,235.40 | 40° 1' 39.899 N | 104° 53' 5.840 W |
| 12,243.0 | 88.30 | 354.20 | 7,743.4 | 4,326.5 | -133.5 | 1,253,637.36 | 3,172,228.36 | 40° 1' 40.737 N | 104° 53' 5.923 W |
| 12,329.0 | 89.70 | 352.70 | 7,744.9 | 4,412.0 | -143.4 | 1,253,722.78 | 3,172,218.55 | 40° 1' 41.581 N | 104° 53' 6.042 W |
| 12,414.0 | 88.50 | 351.90 | 7,746.2 | 4,496.2 | -154.7 | 1,253,807.00 | 3,172,207.17 | 40° 1' 42.414 N | 104° 53' 6.180 W |
| 12,499.0 | 90.80 | 352.60 | 7,746.7 | 4,580.4 | -166.2 | 1,253,891.22 | 3,172,195.71 | 40° 1' 43.247 N | 104° 53' 6.320 W |
| 12,585.0 | 91.50 | 354.50 | 7,745.0 | 4,665.8 | -175.9 | 1,253,976.65 | 3,172,186.05 | 40° 1' 44.092 N | 104° 53' 6.437 W |
| 12,670.0 | 90.80 | 358.60 | 7,743.3 | 4,750.7 | -181.0 | 1,254,061.46 | 3,172,180.93 | 40° 1' 44.931 N | 104° 53' 6.495 W |
| 12,756.0 | 90.60 | 0.50 | 7,742.2 | 4,836.6 | -181.6 | 1,254,147.45 | 3,172,180.26 | 40° 1' 45.781 N | 104° 53' 6.496 W |
| 12,841.0 | 89.60 | 1.40 | 7,742.1 | 4,921.6 | -180.2 | 1,254,232.43 | 3,172,181.67 | 40° 1' 46.621 N | 104° 53' 6.470 W |
| 12,926.0 | 91.00 | 2.10 | 7,741.7 | 5,006.6 | -177.6 | 1,254,317.39 | 3,172,184.26 | 40° 1' 47.460 N | 104° 53' 6.429 W |
| 13,012.0 | 89.40 | 3.10 | 7,741.4 | 5,092.5 | -173.7 | 1,254,403.30 | 3,172,188.17 | 40° 1' 48.309 N | 104° 53' 6.372 W |
| 13,097.0 | 90.30 | 2.30 | 7,741.6 | 5,177.4 | -169.7 | 1,254,488.20 | 3,172,192.17 | 40° 1' 49.147 N | 104° 53' 6.313 W |
| 13,183.0 | 92.20 | 1.60 | 7,739.7 | 5,263.3 | -166.8 | 1,254,574.13 | 3,172,195.09 | 40° 1' 49.996 N | 104° 53' 6.267 W |
| 13,268.0 | 92.90 | 1.00 | 7,735.9 | 5,348.2 | -164.9 | 1,254,659.02 | 3,172,197.02 | 40° 1' 50.835 N | 104° 53' 6.235 W |
| 13,311.0 | 91.80 | 0.70 | 7,734.2 | 5,391.2 | -164.2 | 1,254,701.98 | 3,172,197.66 | 40° 1' 51.260 N | 104° 53' 6.223 W |
| 13,397.0 | 90.30 | 0.30 | 7,732.6 | 5,477.1 | -163.5 | 1,254,787.96 | 3,172,198.41 | 40° 1' 52.109 N | 104° 53' 6.206 W |
| 13,482.0 | 89.00 | 359.50 | 7,733.1 | 5,562.1 | -163.6 | 1,254,872.95 | 3,172,198.26 | 40° 1' 52.949 N | 104° 53' 6.200 W |
| 13,567.0 | 89.60 | 0.50 | 7,734.1 | 5,647.1 | -163.6 | 1,254,957.94 | 3,172,198.26 | 40° 1' 53.789 N | 104° 53' 6.192 W |
| 13,653.0 | 90.40 | 0.20 | 7,734.1 | 5,733.1 | -163.1 | 1,255,043.94 | 3,172,198.79 | 40° 1' 54.639 N | 104° 53' 6.178 W |
| 13,738.0 | 89.90 | 358.60 | 7,733.9 | 5,818.1 | -164.0 | 1,255,128.93 | 3,172,197.90 | 40° 1' 55.479 N | 104° 53' 6.182 W |
| 13,824.0 | 89.90 | 357.90 | 7,734.1 | 5,904.1 | -166.6 | 1,255,214.89 | 3,172,195.27 | 40° 1' 56.329 N | 104° 53' 6.208 W |

| | | | |
|------------------|-----------------------|-------------------------------------|--------------------------------|
| Company: | Anadarko | Local Co-ordinate Reference: | Well Xcel 32C-22HZ |
| Project: | Weld Co., Co (NAD 83) | TVD Reference: | Well @ 5043.0usft (Extreme 23) |
| Site: | Xcel 13-27HZ Pad | MD Reference: | Well @ 5043.0usft (Extreme 23) |
| Well: | Xcel 32C-22HZ | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------------|------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 13,909.0 | 91.10 | 357.50 | 7,733.3 | 5,989.0 | -170.0 | 1,255,299.82 | 3,172,191.86 | 40° 1' 57.168 N | 104° 53' 6.244 W |
| 13,995.0 | 92.20 | 357.20 | 7,730.8 | 6,074.9 | -174.0 | 1,255,385.69 | 3,172,187.88 | 40° 1' 58.017 N | 104° 53' 6.288 W |
| 14,080.0 | 93.10 | 357.90 | 7,726.9 | 6,159.7 | -177.7 | 1,255,470.52 | 3,172,184.25 | 40° 1' 58.856 N | 104° 53' 6.327 W |
| 14,165.0 | 92.60 | 355.40 | 7,722.7 | 6,244.5 | -182.6 | 1,255,555.26 | 3,172,179.29 | 40° 1' 59.693 N | 104° 53' 6.383 W |
| 14,251.0 | 92.60 | 354.60 | 7,718.8 | 6,330.0 | -190.1 | 1,255,640.85 | 3,172,171.81 | 40° 2' 0.540 N | 104° 53' 6.472 W |
| 14,336.0 | 92.60 | 354.40 | 7,714.9 | 6,414.6 | -198.2 | 1,255,725.37 | 3,172,163.67 | 40° 2' 1.376 N | 104° 53' 6.569 W |
| 14,421.0 | 92.60 | 353.70 | 7,711.1 | 6,499.0 | -207.0 | 1,255,809.82 | 3,172,154.87 | 40° 2' 2.211 N | 104° 53' 6.674 W |
| 14,506.0 | 91.80 | 350.10 | 7,707.8 | 6,583.1 | -219.0 | 1,255,893.90 | 3,172,142.90 | 40° 2' 3.042 N | 104° 53' 6.821 W |
| Last MWD @ 14506' MD / 7708' TVD | | | | | | | | | |
| 14,655.0 | 92.00 | 347.00 | 7,702.9 | 6,729.0 | -248.6 | 1,256,039.84 | 3,172,113.34 | 40° 2' 4.487 N | 104° 53' 7.188 W |
| PTD @ 14655' MD / 7703' TVD 236' FWL & 1908' FSL Sec 22T1NR67W | | | | | | | | | |

| Design Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|---|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 1,074.0 | 1,074.0 | 1.0 | 2.9 | First MWD |
| 7,927.0 | 7,702.6 | 19.6 | -59.7 | Actual 7" Csg @ 7927' MD / 7703' TVD 344' FWL & 488' FSL Sec 27T1 |
| 14,506.0 | 7,707.8 | 6,583.1 | -219.0 | Last MWD @ 14506' MD / 7708' TVD |
| 14,655.0 | 7,702.9 | 6,729.0 | -248.6 | PTD @ 14655' MD / 7703' TVD 236' FWL & 1908' FSL Sec 22T1NR67W |

| | | |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|



SDI Job #: CO13697AN
 COMPANY: Anadarko
 LOCATION: Brighton
 RIG NAME: XTREME23
 STATE: Colorado
 COUNTY: Weld
 WELL NAME: Xcel 32C-22HZ
 Lead Directional : Brian Moore

Report Time: 2400 18 of 18
 API JOB #
 WORK ORDER#
 FIELD: DJ Basin
 Sec-Twn-Rng:
 Range/Section 2079340
 Company Man Rodney McPeters
 2nd Dir Hand : Rodney Stanfield/Thomas Eric White

From Saturday, December 28, 2013 at 0000 to Saturday, December 28, 2013 at 2400

| DAILY TOTALS | | | Assembly Totals | | | | | | | | | |
|-----------------|----------|----|---------------------|--------------------|-----------|------------|------------|------------|-----------------------|-----------------|----------|---------|
| Start Depth | 14246.00 | | BHA # | Motor SN / R.S. SN | Slide Ftg | Slide Hrs | Rotate Ftg | Rotate Hrs | Circ Hrs | D & C Hrs | BHA Ftg | Avg ROP |
| End Depth | 14655.00 | | 4 | 47523 | 201.00 | 16.90 | 1,131.00 | 8.30 | 3.83 | 29.03 | 1,332.00 | 45.88 |
| Below Rot Hrs. | 24.00 | | | | | | | | | | | |
| Total Drilled: | 409.00 | | Drilling Parameters | | | Mud Record | | Bit Record | | Current BHA # 4 | | |
| Avg. Total ROP: | 40.90 | | | | | | | | | | | |
| Slide Footage: | 93.00 | | WOB: | | | 25 | Bit No: | | DP405S 5x18 - 5 Blade | | | |
| Slide Hours | 6.80 | | Rot Wt: | | | 0 | Model | | DP405S 5x18 | | | |
| Avg. Slide ROP: | 13.68 | | Pick UP: | | | 235 | SN.: | | 7033670 | | | |
| Rotate Footage: | 316.00 | | Slack Off: | | | 195 | MFG. | | 5 | | | |
| Rotary Hours | 3.20 | | SPP: | | | 3150 | Type | | NMDC | | | |
| Avg. Rot ROP: | 98.75 | | Flow: | | | 300 - 300 | IADC | | NMDC | | | |
| Circ Hours | 1.57 | | SPM: | | | 97 | JETS | | N/A | | | |
| Ream Hours | 0.00 | | Rot. RPM | | | 70 - 70 | TFA: | | 0 | | | |
| Rotary Hrs%: | 32.00 | | Mot RPM: | | | 70 - 70 | Hole ID: | | 6.125 | | | |
| Slide Hrs%: | 68.00 | | Incl. In: | | | 92.6 | Bit Hrs: | | 25.20 | | | |
| Rotary Ftg%: | 77.26 | | Azm. In: | | | 355.4 | Bit Ftg: | | 1332.00 | | | |
| Slide Ftg%: | 22.74 | | Incl. Out: | | | 0 | Pumps | | | | | |
| Casing | | | Azm. Out: | | | 0 | Liner | | 0 | 0 | | |
| Size | Lb/Ft | MD | Cost Breakdown | | | | Effic. | | 95.00% | 95.00% | | |
| | | | | | | | Gal/Stk | | 0.00 | 0.00 | | |
| | | | | | | | BBL/Stk | | 0.000 | 0.000 | | |

| Start Time | End Time | Hours | Start Depth | End Depth | Delta Depth | ROP | Activity Code | COMMENT |
|------------|----------|-------|-------------|-----------|-------------|--------|--------------------|---|
| 10:30 | 12:05 | 1.58 | 14360 | 14392 | 32 | 20.21 | Sliding | Sliding - (WOB:25;GPM :300;TFO:160R) |
| 12:05 | 12:17 | 0.20 | 14392 | 14392 | 0 | .00 | Survey & Conn. | |
| 12:17 | 12:50 | 0.55 | 14392 | 14477 | 85 | 154.55 | Drilling | Drilling - (WOB:25;GPM :300;RPM:70) |
| 12:50 | 12:55 | 0.08 | 14477 | 14477 | 0 | .00 | Survey & Conn. | @ |
| 12:55 | 13:55 | 1.00 | 14477 | 14477 | 0 | .00 | Drilling | Drilling - (WOB:25;GPM :300;RPM:70) |
| 13:55 | 14:00 | 0.08 | 14477 | 14477 | 0 | .00 | Survey & Conn. | @ |
| 14:00 | 14:30 | 0.50 | 14477 | 14477 | 0 | .00 | Rig Service-Inhole | Rig Service-Inhole |
| 14:30 | 15:30 | 1.00 | 14477 | 14648 | 171 | 171.00 | Drilling | Drilling - (WOB:25;GPM :300;RPM:70) |
| 15:30 | 15:40 | 0.17 | 14648 | 14648 | 0 | .00 | Survey & Conn. | @ |
| 15:40 | 16:25 | 0.75 | 14648 | 14655 | 7 | 9.33 | Sliding | Sliding - (WOB:25;GPM :300;TFO:160R) |
| 16:25 | 18:00 | 1.58 | 14655 | 14655 | 0 | .00 | Other | Work on mud pumps found that we unscrewed from the drill string so we screwed back into it. |
| 18:00 | 24:00 | 6.00 | 14655 | 14655 | 0 | .00 | POOH | POOH |



SDI Job #: CO13697AN
COMPANY: Anadarko
LOCATION: Brighton
RIG NAME: XTREME23
STATE: Colorado
COUNTY: Weld
WELL NAME: Xcel 32C-22HZ
Lead Directional : Brian Moore

Report Time: 2400 **19 of 19**
API JOB #
WORK ORDER#
FIELD: DJ Basin
Sec-Twn-Rng:
Range/Section 2079340
Company Man Rodney McPeters
2nd Dir Hand : Rodney Stanfield/Thomas Eric White

From Sunday, December 29, 2013 at 0000 to Sunday, December 29, 2013 at 2400

| DAILY TOTALS | | | | Assembly Totals | | | | | | | | |
|-----------------|----------|---------------------|--------------------|-----------------|-----------|------------|--|-----------------|-----------|----------|---------|-------------|
| Start Depth | 14655.00 | BHA # | Motor SN / R.S. SN | Slide Ftg | Slide Hrs | Rotate Ftg | Rotate Hrs | Circ Hrs | D & C Hrs | BHA Ftg | Avg ROP | |
| End Depth | 14655.00 | 4 | 47523 | 201.00 | 16.90 | 1,131.00 | 8.30 | 3.83 | 29.03 | 1,332.00 | 45.88 | |
| Below Rot Hrs. | 7.75 | | | | | | | | | | | |
| Total Drilled: | 0.00 | Drilling Parameters | | Mud Record | | Bit Record | | Current BHA # 4 | | | | |
| Avg. Total ROP: | NA | | | | | | | | | | | |
| Slide Footage: | 0.00 | WOB: | 25 | Weight: | 0 | Bit No: | DP405S 5x18 - 5 Blade 6/7 8.0, 0.81RPG (5 5/8 OD - Stabilizer (5 7/8 OD - BL .5 MULESHOE SUB NMDC NMDC FILTER SUB 5 Blade Stabilizer (5 7/8 OD - X-O 1 JT HWDP 4 4 Blade Ghost Reamer (5 1/2 48 jts. 4" Drill Pipe Agitator 132 jts. 4" Drill Pipe 60 Jts. HWDP 4" | | | | | |
| Slide Hours | 0.00 | Rot Wt: | 0 | Visc: | 0 | Model | | | | | | DP405S 5x18 |
| Avg. Slide ROP: | NA | Pick UP: | 235 | Chlorides: | 0 | SN.: | | | | | | 7033670 |
| Rotate Footage: | 0.00 | Slack Off: | 195 | YP: | 0 | MFG. | | | | | | |
| Rotary Hours | 0.00 | SPP: | 3150 | PV: | 0 | Type | | | | | | |
| Avg. Rot ROP: | NA | Flow: | 300 - 300 | PH: | 0 | IADC | | | | | | |
| Circ Hours | 0.00 | SPM: | 97 | GAS: | 0 | JETS | | | | | | N/A |
| Ream Hours | 0.00 | Rot. RPM | - | SAND: | 0 | TFA: | | | | | | 0 |
| Rotary Hrs%: | NA | Mot RPM: | - | WL: | 0 | Hole ID: | | | | | | 6.125 |
| Slide Hrs%: | NA | Incl. In: | 92 | SOLID: | 0 | Bit Hrs: | | | | | | 25.20 |
| Rotary Ftg%: | NA | Azm. In: | 348.2 | BHT °: | 0 | Bit Ftg: | | | | | | 1332.00 |
| Slide Ftg%: | NA | Incl. Out: | 92 | Flow T °: | 0 | Pumps | | | | | | |
| Casing | | Azm. Out: | 348.2 | Oil %: | 0 | | | | | | | Liner |
| Size | Lb/Ft | MD | Cost Breakdown | | | Effic. | 95.00% | | | | | 95.00% |
| | | | | | | Gal/Stk | 0.00 | | | | | 0.00 |
| | | | | | | BBL/Stk | 0.000 | 0.000 | | | | |

GENERAL COMMENT

| Start Time | End Time | Hours | Start Depth | End Depth | Delta Depth | ROP | Activity Code | COMMENT |
|------------|----------|-------|-------------|-----------|-------------|-----|---------------|---------|
| 00:00 | 06:00 | 6.00 | 14655 | 14655 | 0 | .00 | POOH | POOH |



SDI Job #: CO13697AN
COMPANY: Anadarko
LOCATION: Brighton
RIG NAME: XTREME23
STATE: Colorado
COUNTY: Weld
WELL NAME: Xcel 32C-22HZ

FIELD: DJ Basin
Sec-Twn-Rng:
Range/Section /2079340

MOTOR INFORMATION

Desc:
Bent Hsg/Sub: 0 0 **Bit to Bend:** 0
PAD OD: **NB Stab:**

Survey File:

Slide Report for BHA # 4 with Surveys included

Note: Sliding and Drilling Surveys are LOGICAL expectations.

| # | Date | Hrs | Start MD | End MD | DMD | WOB | ROP | RPM | Surf Torq | Flow Rate | SPP On B | SPP Off B | Delta SPP | TFO cTFO | Survey MD | INC | AZM | Surv DLS | Mot DLS | Rot DLS | Q | Drill Mode |
|---|--------|------|----------|--------|-----|-----|-------|-----|-----------|-----------|----------|-----------|-----------|----------|-----------|-------|--------|----------|---------|---------|---|----------------|
| 4 | 27-Dec | 0.08 | 13323 | 13325 | 2 | 25 | 24.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 13325 | -0.01 | 360.00 | 1.81 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 27-Dec | 2.00 | 13325 | 13345 | 20 | 25 | 10.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 160L | 13345 | -0.91 | 359.76 | 1.81 | 0.00 | 0.00 | 0 | Sliding |
| 4 | 27-Dec | 0.28 | 13345 | 13368 | 23 | 25 | 81.2 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 13368 | -0.99 | 359.74 | 1.81 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 27-Dec | 1.20 | 13368 | 13378 | 10 | 25 | 8.3 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 160L | 13378 | -2.34 | 359.38 | 1.81 | 0.00 | 0.00 | 0 | Sliding |
| 4 | 27-Dec | 0.25 | 13378 | 13397 | 19 | 25 | 132.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 13397 | 90.30 | 0.30 | 1.81 | 0.00 | 0.00 | 5 | Drilling |
| | | | | | 86 | | | | | | | | | -148 | 13397 | 90.30 | 0.30 | 1.81 | | | 6 | Survey & Conn. |
| | | | 13397 | 13411 | 14 | 25 | 132.0 | 70 | 15 | 300 | 3150 | 2050 | | | 13411 | 90.27 | 7.48 | 1.80 | | | 0 | Drilling |
| 4 | 27-Dec | 0.50 | 13411 | 13453 | 42 | 25 | 84.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 13453 | 90.18 | 34.42 | 1.80 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 27-Dec | 1.17 | 13453 | 13468 | 15 | 25 | 12.9 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 160L | 13468 | 89.01 | 357.70 | 1.80 | 0.00 | 0.00 | 0 | Sliding |
| 4 | 27-Dec | 0.25 | 13468 | 13482 | 14 | 25 | 112.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 13482 | 89.00 | 359.50 | 1.80 | 0.00 | 0.00 | 5 | Drilling |
| | | | | | 85 | | | | | | | | | 59 | 13482 | 89.00 | 359.50 | 1.80 | | | 6 | Survey & Conn. |
| | | | 13482 | 13496 | 14 | 25 | 112.0 | 70 | 15 | 300 | 3150 | 2050 | | | 13496 | 89.01 | 353.59 | 1.37 | | 1.37 | 4 | Drilling |
| 4 | 27-Dec | 0.22 | 13496 | 13567 | 71 | 25 | 590.8 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 13567 | 89.60 | 0.50 | 1.37 | 0.00 | 1.37 | 5 | Drilling |
| | | | | | 85 | | | | | | | | | -21 | 13567 | 89.60 | 0.50 | 1.37 | | | 6 | Survey & Conn. |
| | | | 13567 | 13624 | 57 | 25 | 590.8 | 70 | 15 | 300 | 3150 | 2050 | | | 13624 | 89.65 | 0.48 | 0.99 | | 0.99 | 4 | Drilling |
| 4 | 27-Dec | 0.47 | 13624 | 13653 | 29 | 25 | 182.1 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 13653 | 90.40 | 0.20 | 0.99 | 0.00 | 0.99 | 5 | Drilling |
| | | | | | 86 | | | | | | | | | -107 | 13653 | 90.40 | 0.20 | 0.99 | | | 6 | Survey & Conn. |
| | | | 13653 | 13709 | 56 | 25 | 182.1 | 70 | 15 | 300 | 3150 | 2050 | | | 13709 | 90.37 | 23.81 | 1.97 | | 1.97 | 4 | Drilling |
| 4 | 27-Dec | 0.47 | 13709 | 13738 | 29 | 25 | 184.3 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 13738 | 89.90 | 358.60 | 1.97 | 0.00 | 1.97 | 5 | Drilling |
| | | | | | 85 | | | | | | | | | -90 | 13738 | 89.90 | 358.60 | 1.97 | | | 6 | Survey & Conn. |
| | | | 13738 | 13795 | 57 | 25 | 184.3 | 70 | 15 | 300 | 3150 | 2050 | | | 13795 | 89.90 | 358.55 | 0.81 | | 0.81 | 4 | Drilling |
| 4 | 27-Dec | 0.50 | 13795 | 13824 | 29 | 25 | 170.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 13824 | 89.90 | 357.90 | 0.81 | 0.00 | 0.81 | 5 | Drilling |
| | | | | | 86 | | | | | | | | | -18 | 13824 | 89.90 | 357.90 | 0.81 | | | 6 | Survey & Conn. |
| | | | 13824 | 13880 | 56 | 25 | 170.0 | 70 | 15 | 300 | 3150 | 2050 | | | 13880 | 89.98 | 357.87 | 1.49 | | 1.49 | 4 | Drilling |
| 4 | 27-Dec | 0.47 | 13880 | 13909 | 29 | 25 | 182.1 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 13909 | 91.10 | 357.50 | 1.49 | 0.00 | 1.49 | 5 | Drilling |

Slide Report for BHA # 4 with Surveys included

Note: Sliding and Drilling Surveys are LOGICAL expectations.

| # | Date | Hrs | Start MD | End MD | DMD | WOB | ROP | RPM | Surf Torq | Flow Rate | SPP On B | SPP Off B | Delta SPP | TFO cTFO | Survey MD | INC | AZM | Surv DLS | Mot DLS | Rot DLS | Q | Drill Mode |
|---|--------|------|----------|--------|-----|-----|-------|-----|-----------|-----------|----------|-----------|-----------|----------|-----------|-------|--------|----------|---------|---------|---|----------------|
| | | | | | 85 | | | | | | | | | -15 | 13909 | 91.10 | 357.50 | 1.49 | | | 6 | Survey & Conn. |
| | | | 13909 | 13965 | 56 | 25 | 182.1 | 70 | 15 | 300 | 3150 | 2050 | | | 13965 | 91.17 | 357.48 | 1.33 | | 1.33 | 4 | Drilling |
| 4 | 27-Dec | 0.42 | 13965 | 13995 | 30 | 25 | 206.4 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 13995 | 92.20 | 357.20 | 1.33 | 0.00 | 1.33 | 5 | Drilling |
| | | | | | 86 | | | | | | | | | 38 | 13995 | 92.20 | 357.20 | 1.33 | | | 6 | Survey & Conn. |
| | | | 13995 | 14051 | 56 | 25 | 206.4 | 70 | 15 | 300 | 3150 | 2050 | | | 14051 | 92.27 | 357.26 | 1.34 | | | 0 | Drilling |
| 4 | 27-Dec | 1.25 | 14051 | 14066 | 15 | 25 | 12.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 150R | 14066 | 93.08 | 357.89 | 1.34 | 0.00 | 0.00 | 0 | Sliding |
| 4 | 27-Dec | 0.33 | 14066 | 14080 | 14 | 25 | 210.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 14080 | 93.10 | 357.90 | 1.34 | 0.00 | 0.00 | 5 | Drilling |
| | | | | | 85 | | | | | | | | | -101 | 14080 | 93.10 | 357.90 | 1.34 | | | 6 | Survey & Conn. |
| | | | 14080 | 14136 | 56 | 25 | 210.0 | 70 | 15 | 300 | 3150 | 2050 | | | 14136 | 93.06 | 357.70 | 3.00 | | | 0 | Drilling |
| 4 | 27-Dec | 1.83 | 14136 | 14152 | 16 | 25 | 8.7 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 160R | 14152 | 92.61 | 355.45 | 3.00 | 0.00 | 0.00 | 0 | Sliding |
| 4 | 27-Dec | 0.23 | 14152 | 14165 | 13 | 25 | 115.7 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 14165 | 92.60 | 355.40 | 3.00 | 0.00 | 0.00 | 5 | Drilling |
| | | | | | 85 | | | | | | | | | -90 | 14165 | 92.60 | 355.40 | 3.00 | | | 6 | Survey & Conn. |
| | | | 14165 | 14179 | 14 | 25 | 115.7 | 70 | 15 | 300 | 3150 | 2050 | | | 14179 | 92.60 | 355.38 | 0.78 | | | 0 | Drilling |
| 4 | 27-Dec | 0.73 | 14179 | 14194 | 15 | 25 | 20.5 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 150R | 14194 | 92.60 | 355.15 | 0.78 | 0.00 | 0.00 | 0 | Sliding |
| 4 | 27-Dec | 0.18 | 14194 | 14221 | 27 | 25 | 147.3 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 14221 | 92.60 | 355.10 | 0.78 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 27-Dec | 0.45 | 14221 | 14229 | 8 | 25 | 17.8 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 14229 | 92.60 | 355.07 | 0.78 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 27-Dec | 1.92 | 14229 | 14246 | 17 | 25 | 8.9 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 150R | 14246 | 92.60 | 354.69 | 0.78 | 0.00 | 0.00 | 0 | Sliding |
| 4 | 28-Dec | 0.25 | 14246 | 14249 | 3 | 25 | 12.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 150R | 14249 | 92.60 | 354.57 | 0.78 | 0.00 | 0.00 | 0 | Sliding |
| 4 | 28-Dec | 0.08 | 14249 | 14264 | 15 | 25 | 180.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 14264 | 92.60 | 354.48 | 0.78 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 28-Dec | 1.68 | 14264 | 14281 | 17 | 25 | 11.9 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 160R | 14281 | 92.60 | 354.50 | 0.78 | 0.00 | 0.00 | 5 | Sliding |
| | | | | | 116 | | | | | | | | | | 14281 | 92.60 | 354.50 | 0.78 | | | 6 | Survey & Conn. |
| | | | 14281 | 14284 | 3 | 25 | 11.9 | 70 | 15 | 300 | 3150 | 2050 | | 160R | 14284 | 0.00 | 0.00 | 0.00 | | | 0 | Sliding |
| 4 | 28-Dec | 0.15 | 14284 | 14307 | 23 | 25 | 153.3 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 14307 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 28-Dec | 2.03 | 14307 | 14337 | 30 | 25 | 14.8 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 160R | 14337 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | Sliding |
| 4 | 28-Dec | 0.12 | 14337 | 14349 | 12 | 25 | 102.9 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 14349 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 28-Dec | 0.30 | 14349 | 14359 | 10 | 25 | 33.3 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 14359 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 28-Dec | 0.50 | 14359 | 14360 | 1 | 25 | 2.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 160R | 14360 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | Sliding |
| 4 | 28-Dec | 1.58 | 14360 | 14392 | 32 | 25 | 20.2 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 160R | 14392 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | Sliding |
| 4 | 28-Dec | 0.55 | 14392 | 14477 | 85 | 25 | 154.5 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 14477 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 28-Dec | 1.00 | 14477 | 14477 | 0 | 25 | 0.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 14477 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 28-Dec | 1.00 | 14477 | 14648 | 171 | 25 | 171.0 | 70 | 15 | 300 | 3150 | 2050 | 1100 | | 14648 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | Drilling |
| 4 | 28-Dec | 0.75 | 14648 | 14655 | 7 | 25 | 9.3 | 70 | 15 | 300 | 3150 | 2050 | 1100 | 160R | 14655 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | Sliding |

Slide Report for BHA # 4 with Surveys included

Note: Sliding and Drilling Surveys are LOGICAL expectations.

| # | Date | Hrs | Start MD | End MD | DMD | WOB | ROP | RPM | Surf Torq | Flow Rate | SPP On B | SPP Off B | Delta SPP | TFO cTFO | Survey MD | INC | AZM | Surv DLS | Mot DLS | Rot DLS | Q | Drill Mode |
|---|------|-----|----------|--------|-----|-----|-----|-----|-----------|-----------|----------|-----------|-----------|----------|-----------|-----|-----|----------|---------|---------|---|------------|
|---|------|-----|----------|--------|-----|-----|-----|-----|-----------|-----------|----------|-----------|-----------|----------|-----------|-----|-----|----------|---------|---------|---|------------|

Total Drilled: 1332 Avg. Total ROP: 52.86 DEPTH% - TIME %

Total Rotary Drilled: 1131 Avg. Rotary ROP: 136.27 Percent Rotary: 84.91 - 32.94

Total Drilled Sliding: 201 Avg. Slide ROP: 11.89 Percent Slide: 15.09 - 67.06