



Piceance Energy, LLC

Mesa County, CO

Piceance 28-05

Piceance 28-08M

Slot A-9

Survey: Survey #1

Survey Report - Geographic

20 October, 2015



Project: Mesa County, CO
Site: Piceance 28-05
Well: Piceance 28-08M
Wellbore: Slot A-9
Design: Design #2
Latitude: 39° 15' 3.360 N
Longitude: 107° 46' 45.750 W
Ground Level: 7556.0
Well @ 7578.0usft

Archer

PROJECT DETAILS: Mesa County, CO

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone
System Datum: Mean Sea Level

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Piceance 28-08M, True North
Vertical (TVD) Reference: Well @ 7578.0usft
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: Well @ 7578.0usft
Calculation Method: Minimum Curvature

WELL DETAILS: Piceance 28-08M

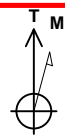
| | | | | | | |
|------|------|------------|---------------|-----------------|-------------------|------|
| +N-S | +E-W | North | Ground Level: | Latitude | Longitude | Slot |
| 0.0 | 0.0 | 1524384.02 | 7556.0 | 39° 15' 3.360 N | 107° 46' 45.750 W | |
| | | 2354587.45 | | | | |

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

| Name | TVD | +N-S | +E-W | North | Easting | Latitude | Longitude | Shape |
|-----------------------------|--------|--------|--------|------------|------------|-----------------|-------------------|-----------------------|
| Piceance Federal 28-08M tgt | 7886.0 | -284.2 | 1334.9 | 1524066.38 | 2355914.80 | 39° 15' 0.550 N | 107° 46' 28.780 W | Circle (Radius: 50.0) |

SECTION DETAILS

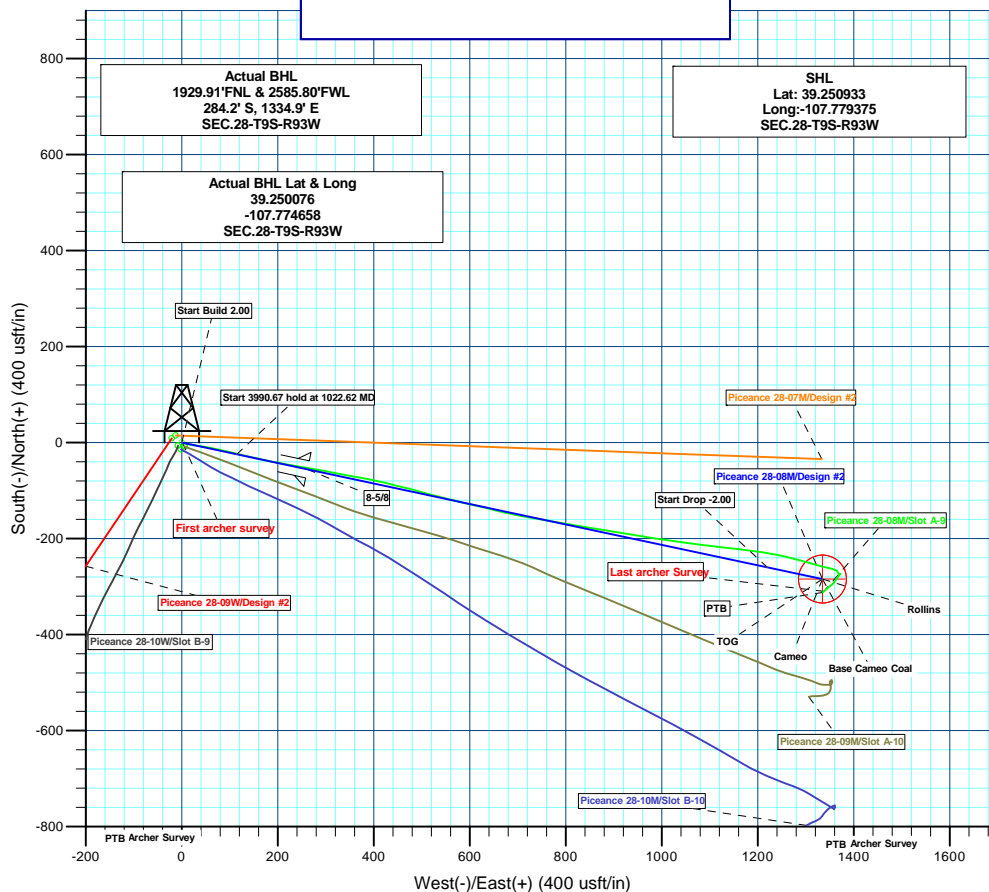
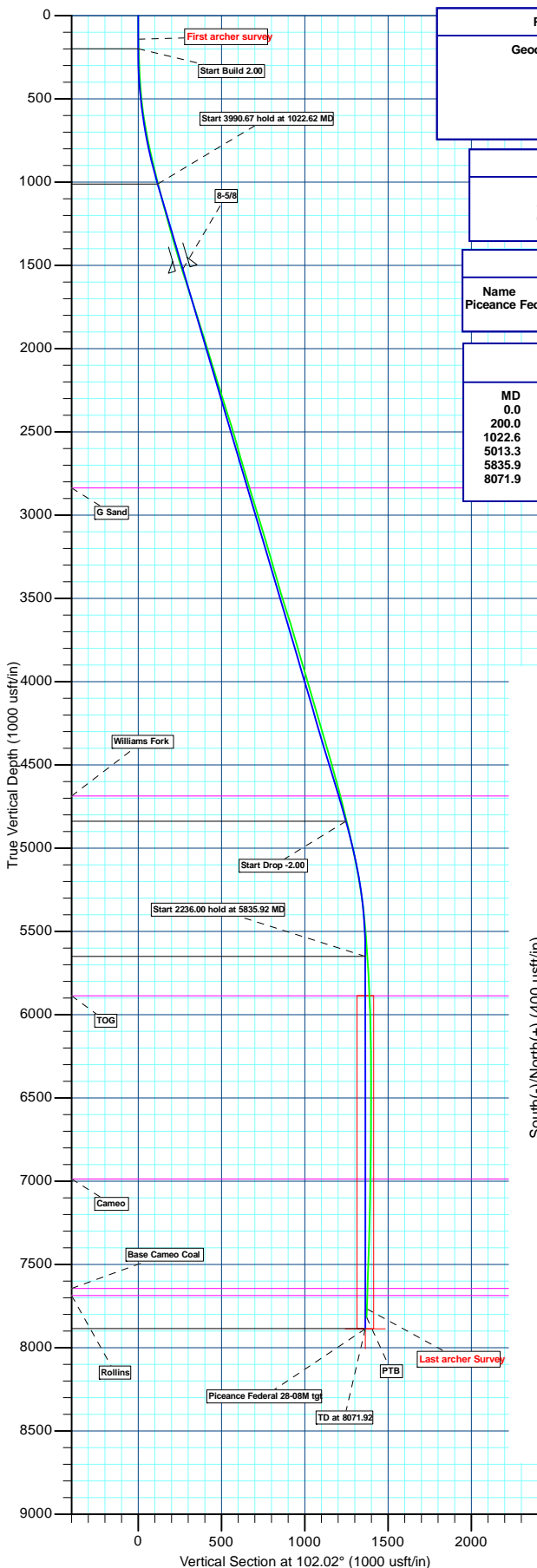
| MD | Inc | Azi | TVD | +N-S | +E-W | Dleg | TFace | Vsect | Annotation |
|--------|-------|--------|--------|--------|--------|------|--------|--------|----------------------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | Start Build 2.00 |
| 1022.6 | 16.45 | 102.02 | 1011.4 | -24.4 | 114.7 | 2.00 | 102.02 | 117.3 | Start 3990.67 hold at 1022.62 MD |
| 5013.3 | 16.45 | 102.02 | 4838.6 | -259.8 | 1220.2 | 0.00 | 0.00 | 1247.5 | Start Drop -2.00 |
| 5835.9 | 0.00 | 0.00 | 5650.0 | -284.2 | 1334.9 | 2.00 | 180.00 | 1364.8 | Start 2236.00 hold at 5835.92 MD |
| 8071.9 | 0.00 | 0.00 | 7886.0 | -284.2 | 1334.9 | 0.00 | 0.00 | 1364.8 | TD at 8071.92 |



Azimuths to True North
Magnetic North: 9.72°
Magnetic Field
Strength: 51741.8snT
Dip Angle: 65.47°
Date: 2015/04/27
Model: IGRF2010

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|--------|-----------------|
| 2836.0 | 2925.2 | G Sand |
| 4686.0 | 4854.1 | Williams Fork |
| 5886.0 | 6071.9 | TOG |
| 6986.0 | 7171.9 | Cameo |
| 7644.0 | 7829.9 | Base Cameo Coal |
| 7686.0 | 7871.9 | Rollins |



Plan: Design #2 (Piceance 28-08M/Slot A-9)

Created By: Ricky Osburn Date: 11:01, October 21 2015



Archer

Survey Report - Geographic

| | | | |
|------------------|----------------------|-------------------------------------|----------------------|
| Company: | Piceance Energy, LLC | Local Co-ordinate Reference: | Well Piceance 28-08M |
| Project: | Mesa County, CO | TVD Reference: | Well @ 7578.00usft |
| Site: | Piceance 28-05 | MD Reference: | Well @ 7578.00usft |
| Well: | Piceance 28-08M | North Reference: | True |
| Wellbore: | Slot A-9 | Survey Calculation Method: | Minimum Curvature |
| Design: | Slot A-9 | Database: | EDMDBBW |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Mesa County, CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| | | | | |
|------------------------------|----------------|---------------------|--------------------|----------------------------------|
| Site | Piceance 28-05 | | | |
| Site Position: | | Northing: | 1,524,375.785 usft | Latitude: 39.250911 |
| From: | Lat/Long | Easting: | 2,354,593.535 usft | Longitude: -107.779353 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16" | Grid Convergence: -1.44 ° |

| | | | | | | |
|----------------------|-----------------|-----------|---------------------|--------------------|---------------|---------------|
| Well | Piceance 28-08M | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 1,524,384.021 usft | Latitude: | 39.250933 |
| | +E/-W | 0.00 usft | Easting: | 2,354,587.447 usft | Longitude: | -107.779375 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | 0.00 usft | Ground Level: | 7,556.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Slot A-9 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 2015/04/27 | 9.73 | 65.47 | 51,742 |

| | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|---------------------------|
| Design | Slot A-9 | | | |
| Audit Notes: | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 101.52 |

| | | | | |
|-----------------------|------------------|--------------------------|------------------|--------------------|
| Survey Program | Date | 2015/07/27 | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
| 142.00 | 8,005.00 | Survey #1 (Slot A-9) | MWD | MWD - Standard |



Archer

Survey Report - Geographic

| | | | |
|------------------|----------------------|-------------------------------------|----------------------|
| Company: | Piceance Energy, LLC | Local Co-ordinate Reference: | Well Piceance 28-08M |
| Project: | Mesa County, CO | TVD Reference: | Well @ 7578.00usft |
| Site: | Piceance 28-05 | MD Reference: | Well @ 7578.00usft |
| Well: | Piceance 28-08M | North Reference: | True |
| Wellbore: | Slot A-9 | Survey Calculation Method: | Minimum Curvature |
| Design: | Slot A-9 | Database: | EDMDBBW |

Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,524,384.021 | 2,354,587.447 | 39.250933 | -107.779375 |
| First archer survey | | | | | | | | | |
| 142.00 | 1.49 | 110.71 | 141.98 | -0.65 | 1.73 | 1,524,383.325 | 2,354,589.157 | 39.250931 | -107.779369 |
| 203.00 | 1.85 | 99.72 | 202.96 | -1.10 | 3.44 | 1,524,382.835 | 2,354,590.857 | 39.250930 | -107.779363 |
| 295.00 | 1.89 | 107.54 | 294.91 | -1.81 | 6.35 | 1,524,382.054 | 2,354,593.749 | 39.250928 | -107.779353 |
| 387.00 | 4.22 | 99.72 | 386.77 | -2.84 | 11.13 | 1,524,380.906 | 2,354,598.505 | 39.250925 | -107.779336 |
| 479.00 | 4.66 | 101.21 | 478.50 | -4.13 | 18.14 | 1,524,379.432 | 2,354,605.473 | 39.250922 | -107.779311 |
| 572.00 | 7.38 | 98.58 | 570.97 | -5.76 | 27.75 | 1,524,377.566 | 2,354,615.043 | 39.250917 | -107.779277 |
| 664.00 | 10.33 | 99.19 | 661.87 | -7.96 | 41.74 | 1,524,375.016 | 2,354,628.971 | 39.250911 | -107.779228 |
| 756.00 | 10.94 | 99.02 | 752.29 | -10.65 | 58.50 | 1,524,371.911 | 2,354,645.664 | 39.250904 | -107.779168 |
| 848.00 | 13.27 | 103.06 | 842.24 | -14.40 | 77.41 | 1,524,367.682 | 2,354,664.474 | 39.250894 | -107.779102 |
| 940.00 | 13.80 | 103.06 | 931.68 | -19.27 | 98.39 | 1,524,362.292 | 2,354,685.320 | 39.250880 | -107.779028 |
| 1,032.00 | 14.02 | 103.59 | 1,020.98 | -24.36 | 119.91 | 1,524,356.656 | 2,354,706.706 | 39.250866 | -107.778952 |
| 1,127.00 | 14.15 | 102.80 | 1,113.13 | -29.64 | 142.42 | 1,524,350.816 | 2,354,729.075 | 39.250852 | -107.778872 |
| 1,222.00 | 15.82 | 102.01 | 1,204.89 | -34.91 | 166.41 | 1,524,344.948 | 2,354,752.926 | 39.250837 | -107.778787 |
| 1,317.00 | 16.00 | 101.39 | 1,296.26 | -40.19 | 191.91 | 1,524,339.030 | 2,354,778.287 | 39.250823 | -107.778697 |
| 1,412.00 | 16.25 | 100.42 | 1,387.52 | -45.18 | 217.82 | 1,524,333.392 | 2,354,804.061 | 39.250809 | -107.778606 |
| 1,507.00 | 16.83 | 99.46 | 1,478.59 | -49.84 | 244.45 | 1,524,328.061 | 2,354,830.574 | 39.250796 | -107.778512 |
| 1,600.00 | 18.02 | 100.34 | 1,567.32 | -54.64 | 271.89 | 1,524,322.579 | 2,354,857.878 | 39.250783 | -107.778415 |
| 1,695.00 | 17.31 | 99.46 | 1,657.84 | -59.60 | 300.28 | 1,524,316.908 | 2,354,886.141 | 39.250770 | -107.778315 |
| 1,790.00 | 18.24 | 101.83 | 1,748.30 | -64.97 | 328.78 | 1,524,310.824 | 2,354,914.491 | 39.250755 | -107.778214 |
| 1,884.00 | 17.97 | 100.16 | 1,837.65 | -70.54 | 357.45 | 1,524,304.532 | 2,354,943.014 | 39.250740 | -107.778113 |
| 1,979.00 | 17.27 | 99.72 | 1,928.19 | -75.51 | 385.77 | 1,524,298.857 | 2,354,971.205 | 39.250726 | -107.778013 |
| 2,074.00 | 17.58 | 104.64 | 2,018.84 | -81.52 | 413.56 | 1,524,292.155 | 2,354,998.827 | 39.250709 | -107.777915 |
| 2,169.00 | 16.92 | 103.50 | 2,109.56 | -88.37 | 440.88 | 1,524,284.618 | 2,355,025.970 | 39.250691 | -107.777818 |
| 2,264.00 | 16.17 | 102.27 | 2,200.63 | -94.41 | 467.25 | 1,524,277.920 | 2,355,052.179 | 39.250674 | -107.777725 |
| 2,359.00 | 18.28 | 106.22 | 2,291.37 | -101.38 | 494.48 | 1,524,270.265 | 2,355,079.232 | 39.250655 | -107.777629 |
| 2,454.00 | 17.53 | 105.35 | 2,381.77 | -109.33 | 522.59 | 1,524,261.613 | 2,355,107.126 | 39.250633 | -107.777530 |
| 2,549.00 | 17.18 | 103.76 | 2,472.44 | -116.46 | 550.01 | 1,524,253.803 | 2,355,134.364 | 39.250614 | -107.777433 |
| 2,644.00 | 16.25 | 103.41 | 2,563.43 | -122.88 | 576.57 | 1,524,246.719 | 2,355,160.752 | 39.250596 | -107.777339 |
| 2,738.00 | 15.73 | 101.83 | 2,653.79 | -128.54 | 601.83 | 1,524,240.424 | 2,355,185.867 | 39.250580 | -107.777250 |
| 2,833.00 | 16.66 | 104.03 | 2,745.02 | -134.48 | 627.65 | 1,524,233.837 | 2,355,211.526 | 39.250564 | -107.777159 |
| 2,928.00 | 15.86 | 103.94 | 2,836.22 | -140.91 | 653.46 | 1,524,226.763 | 2,355,237.168 | 39.250546 | -107.777067 |
| 3,023.00 | 17.89 | 102.36 | 2,927.12 | -147.16 | 680.32 | 1,524,219.840 | 2,355,263.858 | 39.250529 | -107.776973 |
| 3,118.00 | 17.31 | 100.86 | 3,017.68 | -152.95 | 708.45 | 1,524,213.349 | 2,355,291.837 | 39.250513 | -107.776873 |
| 3,212.00 | 16.96 | 99.90 | 3,107.50 | -157.94 | 735.69 | 1,524,207.676 | 2,355,318.944 | 39.250500 | -107.776777 |
| 3,307.00 | 16.30 | 99.72 | 3,198.53 | -162.57 | 762.48 | 1,524,202.372 | 2,355,345.609 | 39.250487 | -107.776682 |
| 3,402.00 | 15.60 | 99.02 | 3,289.87 | -166.82 | 788.24 | 1,524,197.473 | 2,355,371.251 | 39.250475 | -107.776592 |
| 3,497.00 | 16.61 | 100.16 | 3,381.14 | -171.22 | 814.22 | 1,524,192.425 | 2,355,397.114 | 39.250463 | -107.776500 |
| 3,592.00 | 16.22 | 100.07 | 3,472.27 | -175.94 | 840.65 | 1,524,187.048 | 2,355,423.416 | 39.250450 | -107.776406 |
| 3,687.00 | 17.93 | 99.72 | 3,563.08 | -180.73 | 868.13 | 1,524,181.571 | 2,355,450.766 | 39.250437 | -107.776309 |
| 3,782.00 | 17.01 | 98.58 | 3,653.70 | -185.27 | 896.28 | 1,524,176.324 | 2,355,478.797 | 39.250425 | -107.776210 |
| 3,877.00 | 16.70 | 99.19 | 3,744.62 | -189.52 | 923.50 | 1,524,171.390 | 2,355,505.897 | 39.250413 | -107.776114 |
| 3,971.00 | 16.26 | 98.23 | 3,834.75 | -193.56 | 949.85 | 1,524,166.689 | 2,355,532.144 | 39.250402 | -107.776021 |
| 4,067.00 | 15.73 | 98.58 | 3,927.04 | -197.43 | 976.02 | 1,524,162.169 | 2,355,558.208 | 39.250391 | -107.775928 |
| 4,161.00 | 16.79 | 99.81 | 4,017.28 | -201.64 | 1,002.00 | 1,524,157.304 | 2,355,584.072 | 39.250380 | -107.775837 |
| 4,256.00 | 16.79 | 97.96 | 4,108.23 | -205.88 | 1,029.11 | 1,524,152.387 | 2,355,611.067 | 39.250368 | -107.775741 |
| 4,351.00 | 16.35 | 98.40 | 4,199.28 | -209.73 | 1,055.93 | 1,524,147.862 | 2,355,637.779 | 39.250357 | -107.775646 |
| 4,446.00 | 16.17 | 97.08 | 4,290.48 | -213.32 | 1,082.28 | 1,524,143.618 | 2,355,664.036 | 39.250348 | -107.775553 |
| 4,541.00 | 15.91 | 96.12 | 4,381.78 | -216.34 | 1,108.36 | 1,524,139.946 | 2,355,690.026 | 39.250339 | -107.775461 |
| 4,636.00 | 15.91 | 95.94 | 4,473.15 | -219.07 | 1,134.25 | 1,524,136.562 | 2,355,715.848 | 39.250332 | -107.775370 |
| 4,731.00 | 15.78 | 96.91 | 4,564.54 | -221.97 | 1,160.03 | 1,524,133.014 | 2,355,741.541 | 39.250324 | -107.775279 |
| 4,825.00 | 14.81 | 97.00 | 4,655.21 | -224.98 | 1,184.64 | 1,524,129.396 | 2,355,766.072 | 39.250316 | -107.775192 |
| 4,920.00 | 14.15 | 98.93 | 4,747.19 | -228.26 | 1,208.16 | 1,524,125.525 | 2,355,789.505 | 39.250306 | -107.775109 |
| 5,015.00 | 13.89 | 99.90 | 4,839.36 | -232.02 | 1,230.87 | 1,524,121.193 | 2,355,812.107 | 39.250296 | -107.775028 |



Archer

Survey Report - Geographic

| | | | |
|------------------|----------------------|-------------------------------------|----------------------|
| Company: | Piceance Energy, LLC | Local Co-ordinate Reference: | Well Piceance 28-08M |
| Project: | Mesa County, CO | TVD Reference: | Well @ 7578.00usft |
| Site: | Piceance 28-05 | MD Reference: | Well @ 7578.00usft |
| Well: | Piceance 28-08M | North Reference: | True |
| Wellbore: | Slot A-9 | Survey Calculation Method: | Minimum Curvature |
| Design: | Slot A-9 | Database: | EDMDBBW |

| Survey | | | | | | | | | |
|-----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 5,110.00 | 12.48 | 103.59 | 4,931.85 | -236.39 | 1,252.08 | 1,524,116.290 | 2,355,833.203 | 39.250284 | -107.774954 |
| 5,205.00 | 12.39 | 103.15 | 5,024.62 | -241.12 | 1,271.98 | 1,524,111.061 | 2,355,852.980 | 39.250271 | -107.774883 |
| 5,299.00 | 10.20 | 105.70 | 5,116.80 | -245.67 | 1,289.82 | 1,524,106.068 | 2,355,870.695 | 39.250259 | -107.774820 |
| 5,394.00 | 10.20 | 105.26 | 5,210.30 | -250.16 | 1,306.03 | 1,524,101.173 | 2,355,886.790 | 39.250246 | -107.774763 |
| 5,489.00 | 8.22 | 105.26 | 5,304.07 | -254.16 | 1,320.70 | 1,524,096.804 | 2,355,901.353 | 39.250235 | -107.774711 |
| 5,584.00 | 5.49 | 107.28 | 5,398.38 | -257.30 | 1,331.59 | 1,524,093.394 | 2,355,912.164 | 39.250227 | -107.774673 |
| 5,679.00 | 4.75 | 102.53 | 5,493.00 | -259.50 | 1,339.77 | 1,524,090.986 | 2,355,920.285 | 39.250221 | -107.774644 |
| 5,773.00 | 4.35 | 103.32 | 5,586.70 | -261.17 | 1,347.04 | 1,524,089.139 | 2,355,927.510 | 39.250216 | -107.774618 |
| 5,868.00 | 3.69 | 104.91 | 5,681.47 | -262.79 | 1,353.50 | 1,524,087.361 | 2,355,933.927 | 39.250212 | -107.774595 |
| 5,963.00 | 3.60 | 107.45 | 5,776.28 | -264.47 | 1,359.30 | 1,524,085.535 | 2,355,939.682 | 39.250207 | -107.774575 |
| 6,058.00 | 2.64 | 126.35 | 5,871.14 | -266.66 | 1,363.91 | 1,524,083.229 | 2,355,944.234 | 39.250201 | -107.774559 |
| 6,153.00 | 1.89 | 145.42 | 5,966.06 | -269.25 | 1,366.56 | 1,524,080.576 | 2,355,946.819 | 39.250194 | -107.774549 |
| 6,247.00 | 1.98 | 161.33 | 6,060.01 | -272.06 | 1,367.96 | 1,524,077.727 | 2,355,948.148 | 39.250186 | -107.774544 |
| 6,342.00 | 1.36 | 134.70 | 6,154.97 | -274.41 | 1,369.28 | 1,524,075.347 | 2,355,949.415 | 39.250180 | -107.774540 |
| 6,437.00 | 1.10 | 36.88 | 6,249.96 | -274.47 | 1,370.63 | 1,524,075.249 | 2,355,950.762 | 39.250180 | -107.774535 |
| 6,532.00 | 0.79 | 43.47 | 6,344.95 | -273.27 | 1,371.63 | 1,524,076.429 | 2,355,951.790 | 39.250183 | -107.774531 |
| 6,627.00 | 0.26 | 133.29 | 6,439.94 | -272.94 | 1,372.24 | 1,524,076.741 | 2,355,952.405 | 39.250184 | -107.774529 |
| 6,722.00 | 0.44 | 231.29 | 6,534.94 | -273.32 | 1,372.11 | 1,524,076.368 | 2,355,952.268 | 39.250183 | -107.774530 |
| 6,816.00 | 1.05 | 216.97 | 6,628.93 | -274.23 | 1,371.31 | 1,524,075.475 | 2,355,951.446 | 39.250180 | -107.774533 |
| 6,912.00 | 1.45 | 220.04 | 6,724.91 | -275.86 | 1,370.00 | 1,524,073.876 | 2,355,950.095 | 39.250176 | -107.774537 |
| 7,007.00 | 1.45 | 215.91 | 6,819.88 | -277.76 | 1,368.52 | 1,524,072.019 | 2,355,948.570 | 39.250171 | -107.774542 |
| 7,102.00 | 1.85 | 212.48 | 6,914.84 | -280.02 | 1,366.99 | 1,524,069.791 | 2,355,946.985 | 39.250164 | -107.774548 |
| 7,197.00 | 2.46 | 215.12 | 7,009.77 | -282.98 | 1,365.00 | 1,524,066.881 | 2,355,944.915 | 39.250156 | -107.774555 |
| 7,292.00 | 2.55 | 210.29 | 7,104.68 | -286.48 | 1,362.76 | 1,524,063.446 | 2,355,942.589 | 39.250147 | -107.774563 |
| 7,386.00 | 2.68 | 217.32 | 7,198.58 | -290.03 | 1,360.37 | 1,524,059.954 | 2,355,940.114 | 39.250137 | -107.774571 |
| 7,481.00 | 2.81 | 229.86 | 7,293.48 | -293.30 | 1,357.24 | 1,524,056.766 | 2,355,936.906 | 39.250128 | -107.774582 |
| 7,576.00 | 2.68 | 232.08 | 7,388.37 | -296.16 | 1,353.71 | 1,524,053.989 | 2,355,933.303 | 39.250120 | -107.774595 |
| 7,671.00 | 2.81 | 231.75 | 7,483.26 | -298.97 | 1,350.13 | 1,524,051.273 | 2,355,929.653 | 39.250112 | -107.774607 |
| 7,766.00 | 3.56 | 225.84 | 7,578.11 | -302.47 | 1,346.19 | 1,524,047.877 | 2,355,925.621 | 39.250103 | -107.774621 |
| 7,860.00 | 3.38 | 228.22 | 7,671.94 | -306.35 | 1,342.03 | 1,524,044.103 | 2,355,921.365 | 39.250092 | -107.774636 |
| Last archer Survey | | | | | | | | | |
| 7,955.00 | 3.21 | 227.78 | 7,766.78 | -310.00 | 1,337.97 | 1,524,040.553 | 2,355,917.217 | 39.250082 | -107.774650 |
| PTB - Piceance Federal 28-08M tgt | | | | | | | | | |
| 8,005.00 | 3.60 | 223.03 | 7,816.69 | -312.09 | 1,335.86 | 1,524,038.518 | 2,355,915.057 | 39.250076 | -107.774658 |

| Survey Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|---------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 142.00 | 141.98 | -0.65 | 1.73 | First archer survey |
| 7,955.00 | 7,766.78 | -310.00 | 1,337.97 | Last archer Survey |
| 8,005.00 | 7,816.69 | -312.09 | 1,335.86 | PTB |

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