



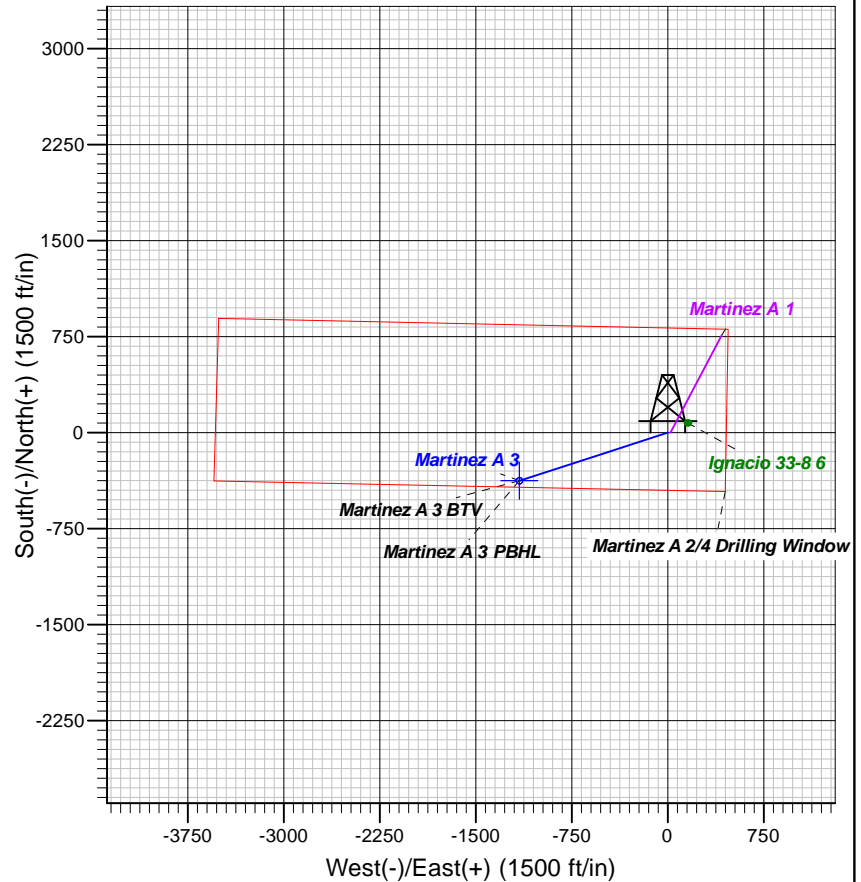
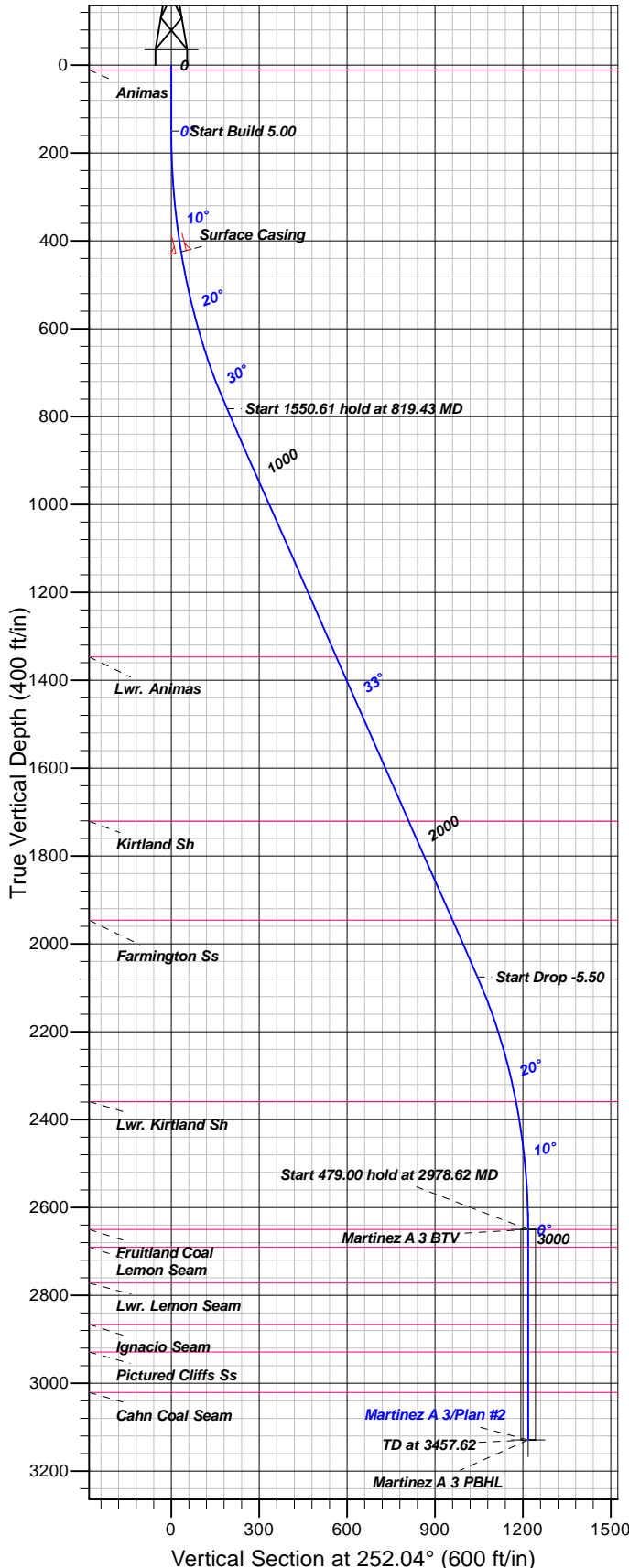
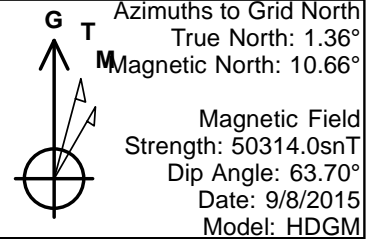
Company: B.P.
Project: La Plata County, CO NAD83
Site: Martinez A Pad
Well: Martinez A 3



Well Details: Martinez A 3

GL 6648.11' & RKB 11' @ 6659.15ft (Aztec 507)

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|-------|-------|------------|------------|------------|--------------|------|
| 0.00 | 0.00 | 1176001.82 | 2353526.95 | 37.1289500 | -107.7176156 | |



FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|---------|--------------------|
| 11.00 | 11.00 | Animas |
| 1347.00 | 1496.76 | Lwr. Animas |
| 1721.00 | 1945.12 | Kirtland Sh |
| 1946.00 | 2214.85 | Farmington Ss |
| 2359.00 | 2683.70 | Lwr. Kirtland Sh |
| 2650.00 | 2978.62 | Fruitland Coal |
| 2690.00 | 3018.62 | Lemon Seam |
| 2772.00 | 3100.62 | Lwr. Lemon Seam |
| 2866.00 | 3194.62 | Ignacio Seam |
| 2929.00 | 3257.62 | Pictured Cliffs Ss |
| 3021.00 | 3349.62 | Cahn Coal Seam |

Plan: Plan #2

10:06, September 09 2015
Created By: Janie Collins

PROJECT DETAILS: La Plata County, CO NAD83

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Southern Zone

System Datum: Mean Sea Level

CASING DETAILS

| TVD | MD | Name | Size |
|--------|--------|----------------|------|
| 425.00 | 427.71 | Surface Casing | |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | Vsect | Target |
|-----|---------|-------|--------|---------|---------|----------|------|--------|---------|-------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 150.00 | 0.00 | 0.00 | 150.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 819.43 | 33.47 | 252.04 | 782.00 | -58.60 | -180.78 | 5.00 | 252.04 | 190.04 | |
| 4 | 2370.04 | 33.47 | 252.04 | 2075.45 | -322.28 | -994.32 | 0.00 | 0.00 | 1045.24 | |
| 5 | 2978.62 | 0.00 | 0.00 | 2650.00 | -375.55 | -1158.66 | 5.50 | 180.00 | 218.01 | Martinez A 3 BTV |
| 6 | 3457.62 | 0.00 | 0.00 | 3129.00 | -375.55 | -1158.66 | 0.00 | 0.00 | 218.01 | Martinez A 3 PBHL |

DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|---------------------------|---------|---------|----------|------------|------------|------------|--------------|------------------------|
| Martinez A 3 BTV | 2650.00 | -375.55 | -1158.66 | 1175626.27 | 2352368.29 | 37.1278433 | -107.7215581 | Circle (Radius: 25.00) |
| - plan hits target center | | | | | | | | |
| Martinez A 3 PBHL | 3129.00 | -375.55 | -1158.66 | 1175626.27 | 2352368.29 | 37.1278433 | -107.7215581 | Point |
| - plan hits target center | | | | | | | | |



B.P.

La Plata County, CO NAD83

Martinez A Pad

Martinez A 3

OH

Plan: Plan #2

Standard Planning Report

09 September, 2015





| | | | |
|------------------|---------------------------|-------------------------------------|---|
| Database: | Grand Junction District | Local Co-ordinate Reference: | Well Martinez A 3 |
| Company: | B.P. | TVD Reference: | GL 6648.11' & RKB 11' @ 6659.15ft (Aztec 507) |
| Project: | La Plata County, CO NAD83 | MD Reference: | GL 6648.11' & RKB 11' @ 6659.15ft (Aztec 507) |
| Site: | Martinez A Pad | North Reference: | Grid |
| Well: | Martinez A 3 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #2 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | La Plata County, CO NAD83 | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Southern Zone | | |

| | | | | |
|------------------------------|----------------|---------------------|-------------------|----------------------------------|
| Site | Martinez A Pad | | | |
| Site Position: | | Northing: | 1,175,867.47 usft | Latitude: 37.1284089 |
| From: Map | | Easting: | 2,350,890.92 usft | Longitude: -107.7266437 |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 13.200 in | Grid Convergence: -1.37 ° |

| | | | | |
|-----------------------------|--------------|----------------------------|------------------|----------------------------------|
| Well | Martinez A 3 | | | |
| Well Position | +N/-S | 134.35 ft | Northing: | 1,176,001.82 usft |
| | +E/-W | 2,636.04 ft | Easting: | 2,353,526.95 usft |
| Position Uncertainty | 0.00 ft | Wellhead Elevation: | 0.00 ft | Ground Level: 6,648.15 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 9/8/2015 | 9.30 | 63.70 | 50,314 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #2 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 252.04 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|-------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 150.00 | 0.00 | 0.00 | 150.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 819.43 | 33.47 | 252.04 | 782.00 | -58.60 | -180.78 | 5.00 | 5.00 | 0.00 | 252.04 | |
| 2,370.04 | 33.47 | 252.04 | 2,075.45 | -322.28 | -994.32 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,978.62 | 0.00 | 0.00 | 2,650.00 | -375.55 | -1,158.66 | 5.50 | -5.50 | 0.00 | 180.00 | Martinez A 3 BTV |
| 3,457.62 | 0.00 | 0.00 | 3,129.00 | -375.55 | -1,158.66 | 0.00 | 0.00 | 0.00 | 0.00 | Martinez A 3 PBHL |



| | | | |
|------------------|---------------------------|-------------------------------------|---|
| Database: | Grand Junction District | Local Co-ordinate Reference: | Well Martinez A 3 |
| Company: | B.P. | TVD Reference: | GL 6648.11' & RKB 11' @ 6659.15ft (Aztec 507) |
| Project: | La Plata County, CO NAD83 | MD Reference: | GL 6648.11' & RKB 11' @ 6659.15ft (Aztec 507) |
| Site: | Martinez A Pad | North Reference: | Grid |
| Well: | Martinez A 3 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #2 | | |

| Planned Survey | | | | | | | | | |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11.00 | 0.00 | 0.00 | 11.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Animas | | | | | | | | | |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150.00 | 0.00 | 0.00 | 150.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 2.50 | 252.04 | 199.98 | -0.34 | -1.04 | 1.09 | 5.00 | 5.00 | 0.00 |
| 300.00 | 7.50 | 252.04 | 299.57 | -3.02 | -9.33 | 9.80 | 5.00 | 5.00 | 0.00 |
| 400.00 | 12.50 | 252.04 | 398.02 | -8.38 | -25.84 | 27.16 | 5.00 | 5.00 | 0.00 |
| 427.71 | 13.89 | 252.04 | 425.00 | -10.33 | -31.86 | 33.49 | 5.00 | 5.00 | 0.00 |
| Surface Casing | | | | | | | | | |
| 500.00 | 17.50 | 252.04 | 494.58 | -16.35 | -50.45 | 53.04 | 5.00 | 5.00 | 0.00 |
| 600.00 | 22.50 | 252.04 | 588.52 | -26.90 | -82.98 | 87.23 | 5.00 | 5.00 | 0.00 |
| 700.00 | 27.50 | 252.04 | 679.13 | -39.92 | -123.17 | 129.48 | 5.00 | 5.00 | 0.00 |
| 800.00 | 32.50 | 252.04 | 765.70 | -55.33 | -170.72 | 179.46 | 5.00 | 5.00 | 0.00 |
| 819.43 | 33.47 | 252.04 | 782.00 | -58.60 | -180.78 | 190.04 | 5.00 | 5.00 | 0.00 |
| 900.00 | 33.47 | 252.04 | 849.21 | -72.30 | -223.05 | 234.48 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 33.47 | 252.04 | 932.62 | -89.30 | -275.52 | 289.63 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 33.47 | 252.04 | 1,016.04 | -106.31 | -327.98 | 344.78 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 33.47 | 252.04 | 1,099.46 | -123.31 | -380.45 | 399.93 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 33.47 | 252.04 | 1,182.87 | -140.32 | -432.91 | 455.09 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 33.47 | 252.04 | 1,266.29 | -157.32 | -485.38 | 510.24 | 0.00 | 0.00 | 0.00 |
| 1,496.76 | 33.47 | 252.04 | 1,347.00 | -173.78 | -536.15 | 563.60 | 0.00 | 0.00 | 0.00 |
| Lwr. Animas | | | | | | | | | |
| 1,500.00 | 33.47 | 252.04 | 1,349.70 | -174.33 | -537.85 | 565.39 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 33.47 | 252.04 | 1,433.12 | -191.33 | -590.31 | 620.54 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 33.47 | 252.04 | 1,516.54 | -208.34 | -642.78 | 675.70 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 33.47 | 252.04 | 1,599.95 | -225.34 | -695.24 | 730.85 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 33.47 | 252.04 | 1,683.37 | -242.35 | -747.71 | 786.00 | 0.00 | 0.00 | 0.00 |
| 1,945.12 | 33.47 | 252.04 | 1,721.00 | -250.02 | -771.38 | 810.88 | 0.00 | 0.00 | 0.00 |
| Kirtland Sh | | | | | | | | | |
| 2,000.00 | 33.47 | 252.04 | 1,766.78 | -259.36 | -800.17 | 841.16 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 33.47 | 252.04 | 1,850.20 | -276.36 | -852.64 | 896.31 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 33.47 | 252.04 | 1,933.61 | -293.37 | -905.10 | 951.46 | 0.00 | 0.00 | 0.00 |
| 2,214.85 | 33.47 | 252.04 | 1,946.00 | -295.89 | -912.89 | 959.65 | 0.00 | 0.00 | 0.00 |
| Farmington Ss | | | | | | | | | |
| 2,300.00 | 33.47 | 252.04 | 2,017.03 | -310.37 | -957.57 | 1,006.61 | 0.00 | 0.00 | 0.00 |
| 2,370.04 | 33.47 | 252.04 | 2,075.45 | -322.28 | -994.32 | 1,045.24 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 31.82 | 252.04 | 2,100.68 | -327.27 | -1,009.69 | 1,061.40 | 5.50 | -5.50 | 0.00 |
| 2,500.01 | 26.32 | 252.04 | 2,188.05 | -342.24 | -1,055.90 | 1,109.98 | 5.50 | -5.50 | 0.00 |
| 2,600.01 | 20.82 | 252.04 | 2,279.67 | -354.57 | -1,093.93 | 1,149.96 | 5.50 | -5.50 | 0.00 |
| 2,683.70 | 16.22 | 252.04 | 2,359.00 | -362.76 | -1,119.21 | 1,176.54 | 5.50 | -5.50 | 0.00 |
| Lwr. Kirtland Sh | | | | | | | | | |
| 2,700.01 | 15.32 | 252.04 | 2,374.70 | -364.13 | -1,123.43 | 1,180.97 | 5.50 | -5.50 | 0.00 |
| 2,800.01 | 9.82 | 252.04 | 2,472.26 | -370.84 | -1,144.13 | 1,202.73 | 5.50 | -5.50 | 0.00 |
| 2,900.01 | 4.32 | 252.04 | 2,571.46 | -374.64 | -1,155.84 | 1,215.04 | 5.50 | -5.50 | 0.00 |
| 2,978.62 | 0.00 | 0.00 | 2,650.00 | -375.55 | -1,158.66 | 1,218.01 | 5.50 | -5.50 | 0.00 |
| Fruitland Coal - Martinez A 3 BTV | | | | | | | | | |
| 3,000.01 | 0.00 | 0.00 | 2,671.39 | -375.55 | -1,158.66 | 1,218.01 | 0.00 | 0.00 | 0.00 |
| 3,018.62 | 0.00 | 0.00 | 2,690.00 | -375.55 | -1,158.66 | 1,218.01 | 0.00 | 0.00 | 0.00 |
| Lemon Seam | | | | | | | | | |
| 3,100.01 | 0.00 | 0.00 | 2,771.39 | -375.55 | -1,158.66 | 1,218.01 | 0.00 | 0.00 | 0.00 |



| | | | |
|------------------|---------------------------|-------------------------------------|---|
| Database: | Grand Junction District | Local Co-ordinate Reference: | Well Martinez A 3 |
| Company: | B.P. | TVD Reference: | GL 6648.11' & RKB 11' @ 6659.15ft (Aztec 507) |
| Project: | La Plata County, CO NAD83 | MD Reference: | GL 6648.11' & RKB 11' @ 6659.15ft (Aztec 507) |
| Site: | Martinez A Pad | North Reference: | Grid |
| Well: | Martinez A 3 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #2 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 3,100.62 | 0.00 | 0.00 | 2,772.00 | -375.55 | -1,158.66 | 1,218.01 | 0.00 | 0.00 | 0.00 |
| Lwr. Lemon Seam | | | | | | | | | |
| 3,194.62 | 0.00 | 0.00 | 2,866.00 | -375.55 | -1,158.66 | 1,218.01 | 0.00 | 0.00 | 0.00 |
| Ignacio Seam | | | | | | | | | |
| 3,200.01 | 0.00 | 0.00 | 2,871.39 | -375.55 | -1,158.66 | 1,218.01 | 0.00 | 0.00 | 0.00 |
| 3,257.62 | 0.00 | 0.00 | 2,929.00 | -375.55 | -1,158.66 | 1,218.01 | 0.00 | 0.00 | 0.00 |
| Pictured Cliffs Ss | | | | | | | | | |
| 3,300.01 | 0.00 | 0.00 | 2,971.39 | -375.55 | -1,158.66 | 1,218.01 | 0.00 | 0.00 | 0.00 |
| 3,349.62 | 0.00 | 0.00 | 3,021.00 | -375.55 | -1,158.66 | 1,218.01 | 0.00 | 0.00 | 0.00 |
| Cahn Coal Seam | | | | | | | | | |
| 3,400.01 | 0.00 | 0.00 | 3,071.39 | -375.55 | -1,158.66 | 1,218.01 | 0.00 | 0.00 | 0.00 |
| 3,457.62 | 0.00 | 0.00 | 3,129.00 | -375.55 | -1,158.66 | 1,218.01 | 0.00 | 0.00 | 0.00 |
| Martinez A 3 PBHL | | | | | | | | | |

Design Targets

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|--|---------------|--------------|----------|------------|------------|-----------------|----------------|------------|--------------|
| Martinez A 3 BTV - plan hits target center - Circle (radius 25.00) | 0.00 | 360.00 | 2,650.00 | -375.55 | -1,158.66 | 1,175,626.27 | 2,352,368.29 | 37.1278433 | -107.7215581 |
| Martinez A 3 PBHL - plan hits target center - Point | 0.00 | 360.00 | 3,129.00 | -375.55 | -1,158.66 | 1,175,626.27 | 2,352,368.29 | 37.1278433 | -107.7215581 |

Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (in) | Hole Diameter (in) |
|---------------------|---------------------|----------------|----------------------|--------------------|
| 427.71 | 425.00 | Surface Casing | | |



| | | | |
|------------------|---------------------------|-------------------------------------|---|
| Database: | Grand Junction District | Local Co-ordinate Reference: | Well Martinez A 3 |
| Company: | B.P. | TVD Reference: | GL 6648.11' & RKB 11' @ 6659.15ft (Aztec 507) |
| Project: | La Plata County, CO NAD83 | MD Reference: | GL 6648.11' & RKB 11' @ 6659.15ft (Aztec 507) |
| Site: | Martinez A Pad | North Reference: | Grid |
| Well: | Martinez A 3 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #2 | | |

| Formations | | | | | | |
|---------------------|---------------------|--------------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 11.00 | 11.00 | Animas | | 0.00 | 360.00 | |
| 1,496.76 | 1,347.00 | Lwr. Animas | | 0.00 | 360.00 | |
| 1,945.12 | 1,721.00 | Kirtland Sh | | 0.00 | 360.00 | |
| 2,214.85 | 1,946.00 | Farmington Ss | | 0.00 | 360.00 | |
| 2,683.70 | 2,359.00 | Lwr. Kirtland Sh | | 0.00 | 360.00 | |
| 2,978.62 | 2,650.00 | Fruitland Coal | | 0.00 | 360.00 | |
| 3,018.62 | 2,690.00 | Lemon Seam | | 0.00 | 360.00 | |
| 3,100.62 | 2,772.00 | Lwr. Lemon Seam | | 0.00 | 360.00 | |
| 3,194.62 | 2,866.00 | Ignacio Seam | | 0.00 | 360.00 | |
| 3,257.62 | 2,929.00 | Pictured Cliffs Ss | | 0.00 | 360.00 | |
| 3,349.62 | 3,021.00 | Cahn Coal Seam | | 0.00 | 360.00 | |