

Occidental Petroleum

Weld County, CO (UTM-NAD83)

BERRY FARMS 8-8HZ PAD

BERRY FARMS 8-8HZ

OH

Design: OH

Standard Survey Report

23 February, 2023



Project: Weld County, CO (UTM-NAD83)
Site: BERRY FARMS 8-8HZ PAD
Well: BERRY FARMS 8-8HZ
Wellbore: OH
Design: OH
Lat: 40.243720
Long: -104.907968
GL: 4817.00
KB: PD 461 @ 4837.00usft



Azimuths to True North
Magnetic North: 7.98°
Magnetic Field
Strength: 51722.0nT
Dip Angle: 66.43°
Date: 12/31/2022
Model: HDGM2022_FILE

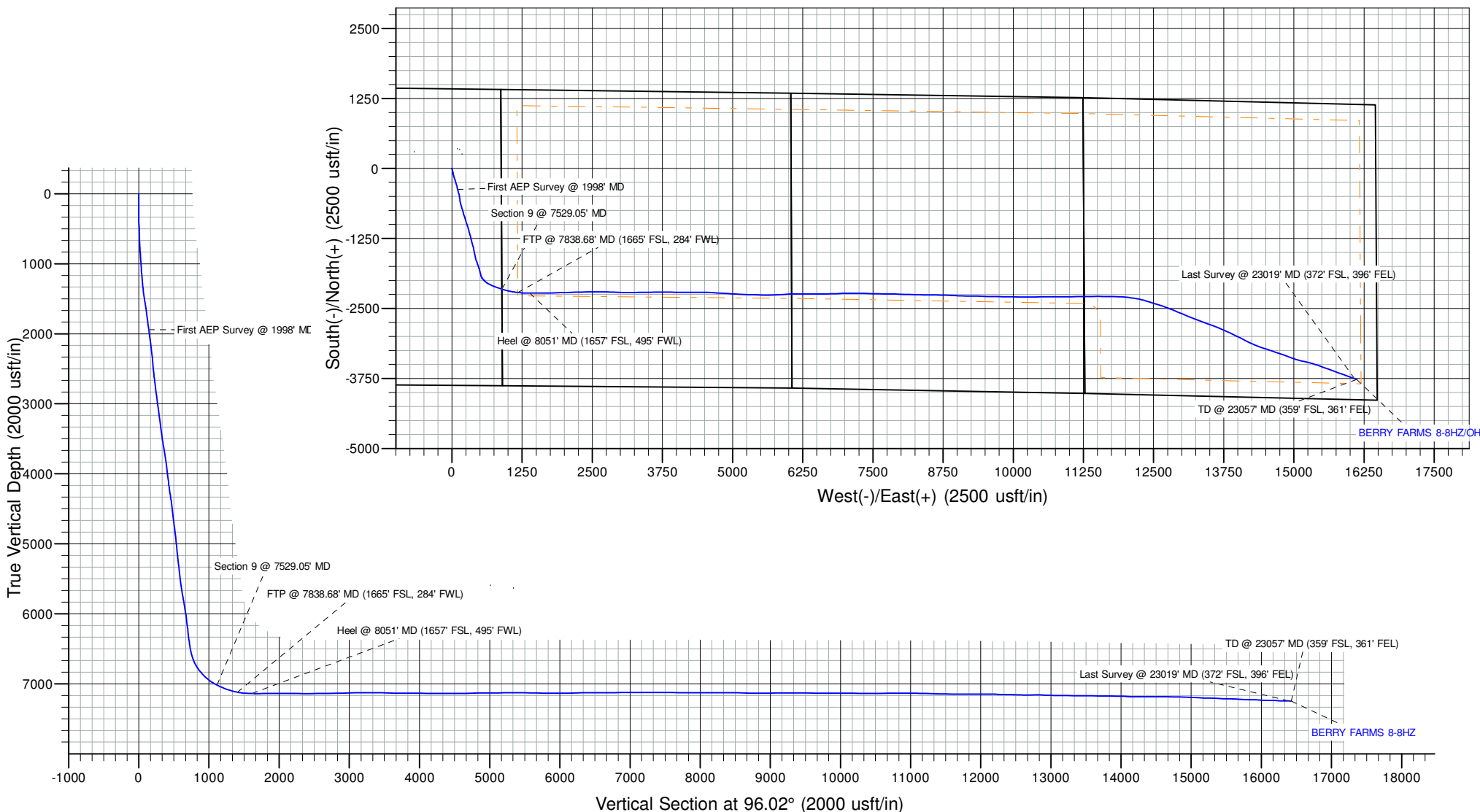
WELL DETAILS: BERRY FARMS 8-8HZ

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-------|-------|-------------|------------|-----------|-------------|
| 0.00 | 0.00 | 14615496.85 | 1666098.59 | 40.243720 | -104.907968 |

SHL: 1422' FNL, 879' FEL - Sec 8-T3N-R67W
Heel: 1657' FSL, 495' FWL - Sec 9-T3N-R67W
BHL: 359' FSL, 361' FEL - Sec 11-T3N-R67W

ANNOTATIONS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | Vsect | Departure | Annotation |
|----------|-------|--------|---------|----------|----------|----------|-----------|--|
| 1998.00 | 19.49 | 165.25 | 1943.62 | -371.64 | 102.11 | 140.52 | 387.92 | First AEP Survey @ 1998' MD |
| 7529.05 | 63.23 | 107.85 | 7018.79 | -2154.23 | 891.15 | 1112.16 | 2447.67 | Section 9 @ 7529.05' MD |
| 7838.68 | 78.45 | 96.72 | 7120.09 | -2213.37 | 1176.51 | 1402.15 | 2739.24 | FTP @ 7838.68' MD (1665' FSL, 284' FWL) |
| 8051.00 | 88.35 | 90.37 | 7139.52 | -2223.63 | 1387.25 | 1612.81 | 2950.14 | Heel @ 8051' MD (1657' FSL, 495' FWL) |
| 23019.00 | 89.20 | 110.57 | 7245.70 | -3753.88 | 16084.77 | 16389.76 | 17915.57 | Last Survey @ 23019' MD (372' FSL, 396' FEL) |
| 23057.00 | 89.20 | 110.57 | 7246.23 | -3767.23 | 16120.34 | 16426.53 | 17953.56 | TD @ 23057' MD (359' FSL, 361' FEL) |



Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------|
| Company: | Occidental Petroleum | Local Co-ordinate Reference: | Well BERRY FARMS 8-8HZ |
| Project: | Weld County, CO (UTM-NAD83) | TVD Reference: | PD 461 @ 4837.00usft |
| Site: | BERRY FARMS 8-8HZ PAD | MD Reference: | PD 461 @ 4837.00usft |
| Well: | BERRY FARMS 8-8HZ | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | FHartmann |

| | | | |
|--------------------|--|----------------------|--------------|
| Project | Weld County, CO (UTM-NAD83) | | |
| Map System: | Universal Transverse Mercator (US Survey Feet) | System Datum: | Ground Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Zone 13N (108 W to 102 W) | | |

| | | | | | |
|-----------------------|-----------------------|--------------|--------------------|------------|-------------|
| Site | BERRY FARMS 8-8HZ PAD | | | | |
| Site Position: | | Northing: | 14,615,497.59 usft | Latitude: | 40.243722 |
| From: | Lat/Long | Easting: | 1,665,993.52 usft | Longitude: | -104.908344 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " | | |

| Well | | BERRY FARMS 8-8HZ | | | | |
|----------------------|-------|-------------------|---------------------|--------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 14,615,496.85 usft | Latitude: | 40.243720 |
| | +E/-W | 0.00 usft | Easting: | 1,666,098.59 usft | Longitude: | -104.907968 |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | usft | Ground Level: | 4,817.00 usft |
| Grid Convergence: | | 0.06 ° | | | | |

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|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM2022_FILE | 12/31/2022 | 7.98 | 66.43 | 51,722.00000000 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| Design | OH | | | | |
| 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 | 96.02 | |

| | | | | | |
|-----------------------|------------------|--------------------------|-----------------------|---|--|
| Survey Program | Date | 2/23/2023 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 7.00 | 1,861.00 | Surface MWD (OH) | APC_ISCWSA REV 2 MWD+ | Fixed:v2:crustal field declination | |
| 1,998.00 | 23,057.00 | MWD Surveys (OH) | APC_ISCWSA REV 2 MWD+ | Fixed:v2:Rockies, crustal dec + 3-axis correction | |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| Survey | | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7.00 | 0.00 | 0.00 | 7.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 86.00 | 0.24 | 18.58 | 86.00 | 0.16 | 0.05 | 0.04 | 0.30 | 0.30 | 0.00 | |
| 178.00 | 0.47 | 292.17 | 178.00 | 0.48 | -0.24 | -0.28 | 0.56 | 0.25 | -93.92 | |
| 270.00 | 1.01 | 159.93 | 269.99 | -0.14 | -0.31 | -0.29 | 1.49 | 0.59 | -143.74 | |
| 360.00 | 2.26 | 157.00 | 359.96 | -2.52 | 0.66 | 0.92 | 1.39 | 1.39 | -3.26 | |
| 449.00 | 3.80 | 157.29 | 448.83 | -6.85 | 2.48 | 3.19 | 1.73 | 1.73 | 0.33 | |
| 539.00 | 5.43 | 161.86 | 538.53 | -13.65 | 4.96 | 6.37 | 1.86 | 1.81 | 5.08 | |
| 628.00 | 5.79 | 169.36 | 627.11 | -22.06 | 7.10 | 9.38 | 0.92 | 0.40 | 8.43 | |

Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------|
| Company: | Occidental Petroleum | Local Co-ordinate Reference: | Well BERRY FARMS 8-8HZ |
| Project: | Weld County, CO (UTM-NAD83) | TVD Reference: | PD 461 @ 4837.00usft |
| Site: | BERRY FARMS 8-8HZ PAD | MD Reference: | PD 461 @ 4837.00usft |
| Well: | BERRY FARMS 8-8HZ | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | FHartmann |

| Survey | | | | | | | | | |
|-----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 718.00 | 7.38 | 172.49 | 716.51 | -32.26 | 8.69 | 12.03 | 1.81 | 1.77 | 3.48 |
| 807.00 | 9.25 | 162.58 | 804.58 | -44.75 | 11.58 | 16.21 | 2.64 | 2.10 | -11.13 |
| 897.00 | 11.32 | 165.01 | 893.13 | -60.19 | 16.03 | 22.26 | 2.35 | 2.30 | 2.70 |
| 987.00 | 11.89 | 166.50 | 981.29 | -77.73 | 20.48 | 28.52 | 0.72 | 0.63 | 1.66 |
| 1,076.00 | 13.26 | 168.68 | 1,068.15 | -96.66 | 24.63 | 34.63 | 1.63 | 1.54 | 2.45 |
| 1,166.00 | 14.54 | 167.89 | 1,155.51 | -117.83 | 29.02 | 41.22 | 1.44 | 1.42 | -0.88 |
| 1,255.00 | 14.80 | 167.19 | 1,241.61 | -139.84 | 33.89 | 48.37 | 0.35 | 0.29 | -0.79 |
| 1,345.00 | 15.35 | 161.15 | 1,328.52 | -162.32 | 40.29 | 57.09 | 1.85 | 0.61 | -6.71 |
| 1,434.00 | 17.44 | 161.29 | 1,413.90 | -186.10 | 48.37 | 67.62 | 2.35 | 2.35 | 0.16 |
| 1,523.00 | 18.62 | 159.61 | 1,498.52 | -212.05 | 57.60 | 79.52 | 1.45 | 1.33 | -1.89 |
| 1,613.00 | 20.48 | 162.36 | 1,583.33 | -240.53 | 67.38 | 92.23 | 2.31 | 2.07 | 3.06 |
| 1,703.00 | 20.15 | 163.75 | 1,667.74 | -270.42 | 76.49 | 104.42 | 0.65 | -0.37 | 1.54 |
| 1,792.00 | 20.91 | 164.69 | 1,751.08 | -300.45 | 84.97 | 116.01 | 0.93 | 0.85 | 1.06 |
| 1,861.00 | 21.69 | 167.77 | 1,815.37 | -324.79 | 90.92 | 124.48 | 1.98 | 1.13 | 4.46 |
| 1,998.00 | 19.49 | 165.25 | 1,943.62 | -371.64 | 102.11 | 140.52 | 1.73 | -1.61 | -1.84 |
| First AEP Survey @ 1998' MD | | | | | | | | | |
| 2,092.00 | 20.06 | 163.67 | 2,032.07 | -402.28 | 110.63 | 152.21 | 0.83 | 0.61 | -1.68 |
| 2,185.00 | 20.01 | 162.62 | 2,119.44 | -432.77 | 119.87 | 164.59 | 0.39 | -0.05 | -1.13 |
| 2,277.00 | 20.10 | 167.68 | 2,205.87 | -463.24 | 127.94 | 175.82 | 1.89 | 0.10 | 5.50 |
| 2,371.00 | 20.64 | 169.26 | 2,293.99 | -495.29 | 134.48 | 185.68 | 0.82 | 0.57 | 1.68 |
| 2,465.00 | 21.82 | 171.89 | 2,381.62 | -528.87 | 140.03 | 194.72 | 1.61 | 1.26 | 2.80 |
| 2,558.00 | 21.41 | 171.72 | 2,468.08 | -562.78 | 144.91 | 203.14 | 0.45 | -0.44 | -0.18 |
| 2,651.00 | 20.60 | 171.86 | 2,554.90 | -595.77 | 149.67 | 211.33 | 0.87 | -0.87 | 0.15 |
| 2,743.00 | 19.14 | 166.54 | 2,641.42 | -626.46 | 155.48 | 220.32 | 2.52 | -1.59 | -5.78 |
| 2,834.00 | 19.42 | 163.43 | 2,727.32 | -655.47 | 163.26 | 231.11 | 1.17 | 0.31 | -3.42 |
| 2,929.00 | 19.73 | 163.26 | 2,816.83 | -685.97 | 172.39 | 243.38 | 0.33 | 0.33 | -0.18 |
| 3,022.00 | 19.90 | 164.48 | 2,904.32 | -716.25 | 181.14 | 255.26 | 0.48 | 0.18 | 1.31 |
| 3,116.00 | 19.24 | 161.84 | 2,992.90 | -746.38 | 190.25 | 267.48 | 1.17 | -0.70 | -2.81 |
| 3,208.00 | 18.32 | 165.26 | 3,080.00 | -774.77 | 198.66 | 278.81 | 1.56 | -1.00 | 3.72 |
| 3,300.00 | 18.70 | 166.27 | 3,167.24 | -803.08 | 205.83 | 288.92 | 0.54 | 0.41 | 1.10 |
| 3,393.00 | 18.54 | 161.83 | 3,255.38 | -831.61 | 213.98 | 300.02 | 1.53 | -0.17 | -4.77 |
| 3,485.00 | 19.08 | 162.47 | 3,342.46 | -859.85 | 223.07 | 312.02 | 0.63 | 0.59 | 0.70 |
| 3,579.00 | 20.04 | 161.83 | 3,431.04 | -889.80 | 232.72 | 324.76 | 1.05 | 1.02 | -0.68 |
| 3,671.00 | 19.98 | 163.58 | 3,517.48 | -919.85 | 242.08 | 337.22 | 0.65 | -0.07 | 1.90 |
| 3,764.00 | 22.04 | 161.17 | 3,604.30 | -951.61 | 252.21 | 350.62 | 2.40 | 2.22 | -2.59 |
| 3,856.00 | 21.12 | 161.70 | 3,689.85 | -983.69 | 262.98 | 364.70 | 1.02 | -1.00 | 0.58 |
| 3,949.00 | 20.88 | 162.69 | 3,776.67 | -1,015.42 | 273.18 | 378.16 | 0.46 | -0.26 | 1.06 |
| 4,042.00 | 18.93 | 162.84 | 3,864.11 | -1,045.66 | 282.56 | 390.66 | 2.10 | -2.10 | 0.16 |
| 4,135.00 | 18.32 | 163.77 | 3,952.24 | -1,074.11 | 291.10 | 402.14 | 0.73 | -0.66 | 1.00 |
| 4,227.00 | 18.17 | 162.36 | 4,039.62 | -1,101.66 | 299.48 | 413.37 | 0.51 | -0.16 | -1.53 |
| 4,320.00 | 18.64 | 166.82 | 4,127.86 | -1,129.95 | 307.27 | 424.08 | 1.60 | 0.51 | 4.80 |
| 4,413.00 | 20.72 | 163.41 | 4,215.43 | -1,160.19 | 315.35 | 435.29 | 2.55 | 2.24 | -3.67 |
| 4,506.00 | 23.47 | 164.58 | 4,301.59 | -1,193.82 | 324.98 | 448.39 | 2.99 | 2.96 | 1.26 |

Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------|
| Company: | Occidental Petroleum | Local Co-ordinate Reference: | Well BERRY FARMS 8-8HZ |
| Project: | Weld County, CO (UTM-NAD83) | TVD Reference: | PD 461 @ 4837.00usft |
| Site: | BERRY FARMS 8-8HZ PAD | MD Reference: | PD 461 @ 4837.00usft |
| Well: | BERRY FARMS 8-8HZ | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | FHartmann |

| Survey | | | | | | | | | |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,598.00 | 20.51 | 164.76 | 4,386.89 | -1,227.04 | 334.09 | 460.93 | 3.22 | -3.22 | 0.20 |
| 4,691.00 | 21.00 | 168.52 | 4,473.86 | -1,259.09 | 341.69 | 471.85 | 1.53 | 0.53 | 4.04 |
| 4,784.00 | 18.64 | 166.97 | 4,561.34 | -1,289.90 | 348.36 | 481.71 | 2.60 | -2.54 | -1.67 |
| 4,877.00 | 20.36 | 163.77 | 4,649.01 | -1,319.92 | 356.23 | 492.69 | 2.18 | 1.85 | -3.44 |
| 5,003.00 | 17.81 | 162.11 | 4,768.07 | -1,359.31 | 368.28 | 508.80 | 2.07 | -2.02 | -1.32 |
| 5,095.00 | 17.54 | 164.34 | 4,855.73 | -1,386.05 | 376.34 | 519.63 | 0.79 | -0.29 | 2.42 |
| 5,187.00 | 16.41 | 168.37 | 4,943.73 | -1,412.13 | 382.70 | 528.69 | 1.77 | -1.23 | 4.38 |
| 5,279.00 | 18.05 | 169.21 | 5,031.59 | -1,438.86 | 387.99 | 536.75 | 1.80 | 1.78 | 0.91 |
| 5,371.00 | 18.40 | 167.38 | 5,118.98 | -1,467.03 | 393.83 | 545.52 | 0.73 | 0.38 | -1.99 |
| 5,464.00 | 20.18 | 168.32 | 5,206.75 | -1,497.06 | 400.29 | 555.08 | 1.94 | 1.91 | 1.01 |
| 5,557.00 | 20.84 | 167.18 | 5,293.86 | -1,528.90 | 407.20 | 565.30 | 0.83 | 0.71 | -1.23 |
| 5,649.00 | 19.79 | 168.07 | 5,380.14 | -1,560.10 | 414.06 | 575.39 | 1.19 | -1.14 | 0.97 |
| 5,741.00 | 18.82 | 170.25 | 5,466.96 | -1,589.96 | 419.79 | 584.22 | 1.31 | -1.05 | 2.37 |
| 5,833.00 | 20.25 | 163.13 | 5,553.68 | -1,619.83 | 426.92 | 594.45 | 3.02 | 1.55 | -7.74 |
| 5,926.00 | 20.81 | 160.15 | 5,640.77 | -1,650.77 | 437.20 | 607.92 | 1.27 | 0.60 | -3.20 |
| 6,020.00 | 20.27 | 160.60 | 5,728.80 | -1,681.84 | 448.28 | 622.19 | 0.60 | -0.57 | 0.48 |
| 6,112.00 | 22.57 | 159.28 | 5,814.44 | -1,713.39 | 459.82 | 636.98 | 2.55 | 2.50 | -1.43 |
| 6,204.00 | 21.37 | 161.20 | 5,899.76 | -1,745.77 | 471.47 | 651.96 | 1.52 | -1.30 | 2.09 |
| 6,296.00 | 22.27 | 162.62 | 5,985.16 | -1,778.27 | 482.08 | 665.92 | 1.13 | 0.98 | 1.54 |
| 6,388.00 | 20.29 | 165.81 | 6,070.89 | -1,810.38 | 491.20 | 678.36 | 2.49 | -2.15 | 3.47 |
| 6,481.00 | 18.92 | 163.83 | 6,158.50 | -1,840.50 | 499.35 | 689.62 | 1.64 | -1.47 | -2.13 |
| 6,573.00 | 17.12 | 167.36 | 6,245.98 | -1,868.04 | 506.47 | 699.59 | 2.29 | -1.96 | 3.84 |
| 6,666.00 | 19.98 | 165.71 | 6,334.14 | -1,896.80 | 513.39 | 709.49 | 3.13 | 3.08 | -1.77 |
| 6,758.00 | 18.45 | 160.18 | 6,421.02 | -1,925.73 | 522.21 | 721.29 | 2.58 | -1.66 | -6.01 |
| 6,850.00 | 16.50 | 147.84 | 6,508.80 | -1,950.49 | 534.10 | 735.72 | 4.54 | -2.12 | -13.41 |
| 6,943.00 | 21.62 | 140.18 | 6,596.69 | -1,974.85 | 552.12 | 756.19 | 6.12 | 5.51 | -8.24 |
| 7,035.00 | 28.56 | 134.03 | 6,679.97 | -2,003.20 | 578.82 | 785.71 | 8.05 | 7.54 | -6.68 |
| 7,126.00 | 35.81 | 127.30 | 6,756.96 | -2,034.50 | 615.70 | 825.67 | 8.88 | 7.97 | -7.40 |
| 7,219.00 | 42.15 | 117.35 | 6,829.29 | -2,065.38 | 665.16 | 878.10 | 9.56 | 6.82 | -10.70 |
| 7,311.00 | 47.23 | 112.83 | 6,894.69 | -2,092.69 | 723.75 | 939.23 | 6.51 | 5.52 | -4.91 |
| 7,403.00 | 53.63 | 109.87 | 6,953.27 | -2,118.42 | 789.79 | 1,007.60 | 7.38 | 6.96 | -3.22 |
| 7,496.00 | 61.14 | 109.61 | 7,003.36 | -2,144.85 | 863.47 | 1,083.65 | 8.08 | 8.08 | -0.28 |
| 7,529.05 | 63.23 | 107.85 | 7,018.79 | -2,154.23 | 891.15 | 1,112.16 | 7.87 | 6.31 | -5.32 |
| Section 9 @ 7529.05' MD | | | | | | | | | |
| 7,588.00 | 67.00 | 104.87 | 7,043.59 | -2,169.27 | 942.45 | 1,164.75 | 7.87 | 6.40 | -5.06 |
| 7,680.00 | 71.01 | 101.33 | 7,076.56 | -2,188.69 | 1,026.08 | 1,249.96 | 5.65 | 4.36 | -3.85 |
| 7,772.00 | 74.00 | 99.28 | 7,104.22 | -2,204.37 | 1,112.39 | 1,337.45 | 3.88 | 3.25 | -2.23 |
| 7,838.68 | 78.45 | 96.72 | 7,120.09 | -2,213.37 | 1,176.51 | 1,402.15 | 7.64 | 6.67 | -3.84 |
| FTP @ 7838.68' MD (1665' FSL, 284' FWL) | | | | | | | | | |
| 7,866.00 | 80.28 | 95.70 | 7,125.13 | -2,216.27 | 1,203.20 | 1,429.00 | 7.64 | 6.70 | -3.74 |
| 7,959.00 | 86.78 | 91.55 | 7,135.61 | -2,222.09 | 1,295.35 | 1,521.25 | 8.28 | 6.99 | -4.46 |
| 8,051.00 | 88.35 | 90.37 | 7,139.52 | -2,223.63 | 1,387.25 | 1,612.81 | 2.13 | 1.71 | -1.28 |
| Heel @ 8051' MD (1657' FSL, 495' FWL) | | | | | | | | | |
| 8,143.00 | 90.61 | 90.05 | 7,140.36 | -2,223.97 | 1,479.24 | 1,704.32 | 2.48 | 2.46 | -0.35 |

Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------|
| Company: | Occidental Petroleum | Local Co-ordinate Reference: | Well BERRY FARMS 8-8HZ |
| Project: | Weld County, CO (UTM-NAD83) | TVD Reference: | PD 461 @ 4837.00usft |
| Site: | BERRY FARMS 8-8HZ PAD | MD Reference: | PD 461 @ 4837.00usft |
| Well: | BERRY FARMS 8-8HZ | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | FHartmann |

| Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 8,235.00 | 90.57 | 89.59 | 7,139.41 | -2,223.68 | 1,571.24 | 1,795.78 | 0.50 | -0.04 | -0.50 |
| 8,327.00 | 90.96 | 89.52 | 7,138.18 | -2,222.96 | 1,663.22 | 1,887.19 | 0.43 | 0.42 | -0.08 |
| 8,421.00 | 89.78 | 88.93 | 7,137.57 | -2,221.69 | 1,757.21 | 1,980.52 | 1.40 | -1.26 | -0.63 |
| 8,515.00 | 89.75 | 88.47 | 7,137.96 | -2,219.56 | 1,851.19 | 2,073.76 | 0.49 | -0.03 | -0.49 |
| 8,607.00 | 89.72 | 88.31 | 7,138.38 | -2,216.98 | 1,943.15 | 2,164.94 | 0.18 | -0.03 | -0.17 |
| 8,700.00 | 89.31 | 87.23 | 7,139.17 | -2,213.36 | 2,036.07 | 2,256.97 | 1.24 | -0.44 | -1.16 |
| 8,792.00 | 89.14 | 86.91 | 7,140.42 | -2,208.66 | 2,127.94 | 2,347.84 | 0.39 | -0.18 | -0.35 |
| 8,885.00 | 90.78 | 89.59 | 7,140.48 | -2,205.82 | 2,220.89 | 2,439.98 | 3.38 | 1.76 | 2.88 |
| 8,978.00 | 91.17 | 89.45 | 7,138.90 | -2,205.04 | 2,313.87 | 2,532.37 | 0.45 | 0.42 | -0.15 |
| 9,070.00 | 90.78 | 89.44 | 7,137.33 | -2,204.15 | 2,405.86 | 2,623.75 | 0.42 | -0.42 | -0.01 |
| 9,163.00 | 90.55 | 89.18 | 7,136.25 | -2,203.03 | 2,498.84 | 2,716.11 | 0.37 | -0.25 | -0.28 |
| 9,256.00 | 90.39 | 88.95 | 7,135.49 | -2,201.51 | 2,591.83 | 2,808.42 | 0.30 | -0.17 | -0.25 |
| 9,349.00 | 92.01 | 91.69 | 7,133.54 | -2,202.03 | 2,684.79 | 2,900.93 | 3.42 | 1.74 | 2.95 |
| 9,441.00 | 91.59 | 91.25 | 7,130.65 | -2,204.39 | 2,776.72 | 2,992.59 | 0.66 | -0.46 | -0.48 |
| 9,534.00 | 90.74 | 92.30 | 7,128.76 | -2,207.27 | 2,869.65 | 3,085.31 | 1.45 | -0.91 | 1.13 |
| 9,626.00 | 91.02 | 92.05 | 7,127.35 | -2,210.76 | 2,961.57 | 3,177.10 | 0.41 | 0.30 | -0.27 |
| 9,720.00 | 90.33 | 91.12 | 7,126.24 | -2,213.36 | 3,055.53 | 3,270.81 | 1.23 | -0.73 | -0.99 |
| 9,812.00 | 89.13 | 89.72 | 7,126.67 | -2,214.03 | 3,147.52 | 3,362.36 | 2.00 | -1.30 | -1.52 |
| 9,905.00 | 88.65 | 89.30 | 7,128.48 | -2,213.24 | 3,240.50 | 3,454.74 | 0.69 | -0.52 | -0.45 |
| 9,999.00 | 88.47 | 89.74 | 7,130.84 | -2,212.45 | 3,334.47 | 3,548.11 | 0.51 | -0.19 | 0.47 |
| 10,093.00 | 89.29 | 88.72 | 7,132.68 | -2,211.19 | 3,428.44 | 3,641.43 | 1.39 | 0.87 | -1.09 |
| 10,186.00 | 89.95 | 89.02 | 7,133.29 | -2,209.35 | 3,521.42 | 3,733.71 | 0.78 | 0.71 | 0.32 |
| 10,278.00 | 89.45 | 88.47 | 7,133.77 | -2,207.34 | 3,613.39 | 3,824.96 | 0.81 | -0.54 | -0.60 |
| 10,371.00 | 89.01 | 89.59 | 7,135.02 | -2,205.76 | 3,706.37 | 3,917.26 | 1.29 | -0.47 | 1.20 |
| 10,464.00 | 89.95 | 90.84 | 7,135.87 | -2,206.11 | 3,799.36 | 4,009.78 | 1.68 | 1.01 | 1.34 |
| 10,556.00 | 89.80 | 90.40 | 7,136.07 | -2,207.11 | 3,891.36 | 4,101.37 | 0.51 | -0.16 | -0.48 |
| 10,648.00 | 88.55 | 90.24 | 7,137.39 | -2,207.62 | 3,983.34 | 4,192.90 | 1.37 | -1.36 | -0.17 |
| 10,740.00 | 90.19 | 90.18 | 7,138.41 | -2,207.96 | 4,075.34 | 4,284.42 | 1.78 | 1.78 | -0.07 |
| 10,834.00 | 89.95 | 90.11 | 7,138.29 | -2,208.20 | 4,169.33 | 4,377.93 | 0.27 | -0.26 | -0.07 |
| 10,929.00 | 89.49 | 90.12 | 7,138.75 | -2,208.39 | 4,264.33 | 4,472.42 | 0.48 | -0.48 | 0.01 |
| 11,021.00 | 90.63 | 90.02 | 7,138.66 | -2,208.50 | 4,356.33 | 4,563.93 | 1.24 | 1.24 | -0.11 |
| 11,115.00 | 92.03 | 89.55 | 7,136.48 | -2,208.15 | 4,450.30 | 4,657.34 | 1.57 | 1.49 | -0.50 |
| 11,208.00 | 91.98 | 93.06 | 7,133.22 | -2,210.26 | 4,543.21 | 4,749.96 | 3.77 | -0.05 | 3.77 |
| 11,301.00 | 91.34 | 93.31 | 7,130.53 | -2,215.43 | 4,636.02 | 4,842.80 | 0.74 | -0.69 | 0.27 |
| 11,395.00 | 89.30 | 93.10 | 7,130.00 | -2,220.68 | 4,729.87 | 4,936.68 | 2.18 | -2.17 | -0.22 |
| 11,487.00 | 89.97 | 93.77 | 7,130.59 | -2,226.19 | 4,821.70 | 5,028.59 | 1.03 | 0.73 | 0.73 |
| 11,579.00 | 90.17 | 93.79 | 7,130.48 | -2,232.26 | 4,913.50 | 5,120.52 | 0.22 | 0.22 | 0.02 |
| 11,672.00 | 90.46 | 94.04 | 7,129.97 | -2,238.61 | 5,006.28 | 5,213.45 | 0.41 | 0.31 | 0.27 |
| 11,765.00 | 89.85 | 92.73 | 7,129.71 | -2,244.10 | 5,099.12 | 5,306.35 | 1.55 | -0.66 | -1.41 |
| 11,858.00 | 90.04 | 92.56 | 7,129.80 | -2,248.39 | 5,192.02 | 5,399.19 | 0.27 | 0.20 | -0.18 |
| 11,951.00 | 89.75 | 91.67 | 7,129.97 | -2,251.82 | 5,284.95 | 5,491.97 | 1.01 | -0.31 | -0.96 |
| 12,044.00 | 89.88 | 91.86 | 7,130.27 | -2,254.69 | 5,377.91 | 5,584.71 | 0.25 | 0.14 | 0.20 |
| 12,136.00 | 88.88 | 91.32 | 7,131.27 | -2,257.24 | 5,469.87 | 5,676.43 | 1.24 | -1.09 | -0.59 |

Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------|
| Company: | Occidental Petroleum | Local Co-ordinate Reference: | Well BERRY FARMS 8-8HZ |
| Project: | Weld County, CO (UTM-NAD83) | TVD Reference: | PD 461 @ 4837.00usft |
| Site: | BERRY FARMS 8-8HZ PAD | MD Reference: | PD 461 @ 4837.00usft |
| Well: | BERRY FARMS 8-8HZ | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | FHartmann |

| Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 12,229.00 | 88.60 | 90.76 | 7,133.31 | -2,258.93 | 5,562.83 | 5,769.06 | 0.67 | -0.30 | -0.60 | |
| 12,321.00 | 89.33 | 88.71 | 7,134.98 | -2,258.50 | 5,654.81 | 5,860.49 | 2.36 | 0.79 | -2.23 | |
| 12,414.00 | 90.35 | 87.73 | 7,135.24 | -2,255.61 | 5,747.76 | 5,952.62 | 1.52 | 1.10 | -1.05 | |
| 12,507.00 | 90.90 | 87.40 | 7,134.22 | -2,251.66 | 5,840.67 | 6,044.61 | 0.69 | 0.59 | -0.35 | |
| 12,599.00 | 90.88 | 85.66 | 7,132.79 | -2,246.10 | 5,932.49 | 6,135.33 | 1.89 | -0.02 | -1.89 | |
| 12,692.00 | 92.04 | 87.89 | 7,130.42 | -2,240.87 | 6,025.30 | 6,227.09 | 2.70 | 1.25 | 2.40 | |
| 12,784.00 | 90.85 | 90.15 | 7,128.10 | -2,239.29 | 6,117.25 | 6,318.36 | 2.78 | -1.29 | 2.46 | |
| 12,877.00 | 89.84 | 90.57 | 7,127.54 | -2,239.88 | 6,210.25 | 6,410.91 | 1.18 | -1.09 | 0.45 | |
| 12,970.00 | 90.35 | 90.19 | 7,127.39 | -2,240.49 | 6,303.24 | 6,503.46 | 0.68 | 0.55 | -0.41 | |
| 13,063.00 | 90.06 | 89.98 | 7,127.06 | -2,240.63 | 6,396.24 | 6,595.96 | 0.38 | -0.31 | -0.23 | |
| 13,155.00 | 90.28 | 89.60 | 7,126.78 | -2,240.30 | 6,488.24 | 6,687.41 | 0.48 | 0.24 | -0.41 | |
| 13,248.00 | 90.28 | 89.20 | 7,126.33 | -2,239.32 | 6,581.24 | 6,779.79 | 0.43 | 0.00 | -0.43 | |
| 13,341.00 | 90.43 | 89.34 | 7,125.75 | -2,238.14 | 6,674.23 | 6,872.15 | 0.22 | 0.16 | 0.15 | |
| 13,433.00 | 90.22 | 88.77 | 7,125.23 | -2,236.62 | 6,766.21 | 6,963.47 | 0.66 | -0.23 | -0.62 | |
| 13,525.00 | 90.03 | 87.75 | 7,125.03 | -2,233.83 | 6,858.17 | 7,054.62 | 1.13 | -0.21 | -1.11 | |
| 13,617.00 | 89.97 | 87.02 | 7,125.03 | -2,229.63 | 6,950.07 | 7,145.58 | 0.80 | -0.07 | -0.79 | |
| 13,709.00 | 91.26 | 89.08 | 7,124.04 | -2,226.50 | 7,042.01 | 7,236.68 | 2.64 | 1.40 | 2.24 | |
| 13,802.00 | 89.71 | 89.99 | 7,123.25 | -2,225.74 | 7,135.00 | 7,329.08 | 1.93 | -1.67 | 0.98 | |
| 13,894.00 | 90.49 | 90.43 | 7,123.09 | -2,226.08 | 7,226.99 | 7,420.60 | 0.97 | 0.85 | 0.48 | |
| 13,986.00 | 89.15 | 91.50 | 7,123.38 | -2,227.63 | 7,318.98 | 7,512.24 | 1.86 | -1.46 | 1.16 | |
| 14,078.00 | 88.72 | 91.70 | 7,125.09 | -2,230.20 | 7,410.93 | 7,603.95 | 0.52 | -0.47 | 0.22 | |
| 14,170.00 | 89.08 | 91.53 | 7,126.86 | -2,232.79 | 7,502.87 | 7,695.66 | 0.43 | 0.39 | -0.18 | |
| 14,264.00 | 89.58 | 91.63 | 7,127.96 | -2,235.38 | 7,596.83 | 7,789.37 | 0.54 | 0.53 | 0.11 | |
| 14,356.00 | 89.95 | 91.60 | 7,128.34 | -2,237.98 | 7,688.79 | 7,881.10 | 0.40 | 0.40 | -0.03 | |
| 14,448.00 | 89.73 | 91.46 | 7,128.59 | -2,240.43 | 7,780.76 | 7,972.82 | 0.28 | -0.24 | -0.15 | |
| 14,540.00 | 89.78 | 90.99 | 7,128.99 | -2,242.40 | 7,872.74 | 8,064.49 | 0.51 | 0.05 | -0.51 | |
| 14,632.00 | 89.77 | 91.02 | 7,129.35 | -2,244.01 | 7,964.72 | 8,156.14 | 0.03 | -0.01 | 0.03 | |
| 14,724.00 | 90.09 | 91.38 | 7,129.46 | -2,245.94 | 8,056.70 | 8,247.82 | 0.52 | 0.35 | 0.39 | |
| 14,817.00 | 90.80 | 91.72 | 7,128.74 | -2,248.45 | 8,149.66 | 8,340.53 | 0.85 | 0.76 | 0.37 | |
| 14,910.00 | 89.38 | 91.96 | 7,128.59 | -2,251.44 | 8,242.61 | 8,433.28 | 1.55 | -1.53 | 0.26 | |
| 15,003.00 | 89.15 | 91.37 | 7,129.78 | -2,254.14 | 8,335.57 | 8,526.00 | 0.68 | -0.25 | -0.63 | |
| 15,096.00 | 88.96 | 90.29 | 7,131.32 | -2,255.49 | 8,428.54 | 8,618.61 | 1.18 | -0.20 | -1.16 | |
| 15,189.00 | 89.14 | 90.40 | 7,132.86 | -2,256.05 | 8,521.53 | 8,711.14 | 0.23 | 0.19 | 0.12 | |
| 15,282.00 | 89.57 | 90.57 | 7,133.91 | -2,256.84 | 8,614.52 | 8,803.70 | 0.50 | 0.46 | 0.18 | |
| 15,374.00 | 90.50 | 91.25 | 7,133.85 | -2,258.30 | 8,706.50 | 8,895.33 | 1.25 | 1.01 | 0.74 | |
| 15,467.00 | 91.68 | 92.32 | 7,132.08 | -2,261.19 | 8,799.44 | 8,988.06 | 1.71 | 1.27 | 1.15 | |
| 15,559.00 | 89.83 | 92.29 | 7,130.87 | -2,264.89 | 8,891.35 | 9,079.85 | 2.01 | -2.01 | -0.03 | |
| 15,653.00 | 90.89 | 93.03 | 7,130.28 | -2,269.26 | 8,985.25 | 9,173.69 | 1.38 | 1.13 | 0.79 | |
| 15,745.00 | 89.26 | 91.39 | 7,130.16 | -2,272.80 | 9,077.17 | 9,265.48 | 2.51 | -1.77 | -1.78 | |
| 15,837.00 | 89.82 | 91.46 | 7,130.90 | -2,275.09 | 9,169.14 | 9,357.18 | 0.61 | 0.61 | 0.08 | |
| 15,931.00 | 90.64 | 91.65 | 7,130.52 | -2,277.64 | 9,263.11 | 9,450.89 | 0.90 | 0.87 | 0.20 | |
| 16,023.00 | 88.79 | 90.90 | 7,130.98 | -2,279.69 | 9,355.08 | 9,542.57 | 2.17 | -2.01 | -0.82 | |
| 16,115.00 | 89.09 | 90.96 | 7,132.68 | -2,281.18 | 9,447.05 | 9,634.19 | 0.33 | 0.33 | 0.07 | |
| 16,207.00 | 89.23 | 90.78 | 7,134.03 | -2,282.58 | 9,539.03 | 9,725.81 | 0.25 | 0.15 | -0.20 | |

Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------|
| Company: | Occidental Petroleum | Local Co-ordinate Reference: | Well BERRY FARMS 8-8HZ |
| Project: | Weld County, CO (UTM-NAD83) | TVD Reference: | PD 461 @ 4837.00usft |
| Site: | BERRY FARMS 8-8HZ PAD | MD Reference: | PD 461 @ 4837.00usft |
| Well: | BERRY FARMS 8-8HZ | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | FHartmann |

| Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 16,300.00 | 90.30 | 91.31 | 7,134.41 | -2,284.27 | 9,632.01 | 9,818.46 | 1.28 | 1.15 | 0.57 | |
| 16,392.00 | 90.98 | 91.59 | 7,133.38 | -2,286.60 | 9,723.97 | 9,910.16 | 0.80 | 0.74 | 0.30 | |
| 16,484.00 | 90.48 | 92.19 | 7,132.21 | -2,289.64 | 9,815.92 | 10,001.91 | 0.85 | -0.54 | 0.65 | |
| 16,577.00 | 88.71 | 90.42 | 7,132.87 | -2,291.75 | 9,908.88 | 10,094.59 | 2.69 | -1.90 | -1.90 | |
| 16,669.00 | 88.76 | 90.12 | 7,134.90 | -2,292.19 | 10,000.86 | 10,186.10 | 0.33 | 0.05 | -0.33 | |
| 16,761.00 | 89.30 | 90.32 | 7,136.46 | -2,292.54 | 10,092.84 | 10,277.62 | 0.63 | 0.59 | 0.22 | |
| 16,853.00 | 89.27 | 90.32 | 7,137.60 | -2,293.05 | 10,184.84 | 10,369.16 | 0.03 | -0.03 | 0.00 | |
| 16,946.00 | 90.42 | 90.01 | 7,137.85 | -2,293.32 | 10,277.83 | 10,461.67 | 1.28 | 1.24 | -0.33 | |
| 17,062.00 | 91.09 | 89.59 | 7,136.33 | -2,292.92 | 10,393.82 | 10,576.97 | 0.68 | 0.58 | -0.36 | |
| 17,155.00 | 90.26 | 89.44 | 7,135.23 | -2,292.13 | 10,486.81 | 10,669.37 | 0.91 | -0.89 | -0.16 | |
| 17,247.00 | 90.23 | 89.59 | 7,134.84 | -2,291.35 | 10,578.81 | 10,760.78 | 0.17 | -0.03 | 0.16 | |
| 17,339.00 | 89.78 | 89.86 | 7,134.83 | -2,290.91 | 10,670.81 | 10,852.22 | 0.57 | -0.49 | 0.29 | |
| 17,433.00 | 89.92 | 89.89 | 7,135.08 | -2,290.70 | 10,764.81 | 10,945.68 | 0.15 | 0.15 | 0.03 | |
| 17,525.00 | 89.68 | 89.86 | 7,135.40 | -2,290.50 | 10,856.80 | 11,037.15 | 0.26 | -0.26 | -0.03 | |
| 17,617.00 | 88.58 | 88.88 | 7,136.79 | -2,289.49 | 10,948.79 | 11,128.52 | 1.60 | -1.20 | -1.07 | |
| 17,709.00 | 88.80 | 89.16 | 7,138.90 | -2,287.92 | 11,040.75 | 11,219.81 | 0.39 | 0.24 | 0.30 | |
| 17,801.00 | 88.73 | 89.09 | 7,140.88 | -2,286.52 | 11,132.72 | 11,311.12 | 0.11 | -0.08 | -0.08 | |
| 17,895.00 | 88.80 | 89.23 | 7,142.91 | -2,285.14 | 11,226.68 | 11,404.43 | 0.17 | 0.07 | 0.15 | |
| 17,988.00 | 88.61 | 89.25 | 7,145.01 | -2,283.90 | 11,319.65 | 11,496.75 | 0.21 | -0.20 | 0.02 | |
| 18,081.00 | 88.91 | 89.35 | 7,147.02 | -2,282.77 | 11,412.62 | 11,589.09 | 0.34 | 0.32 | 0.11 | |
| 18,172.00 | 89.57 | 90.09 | 7,148.23 | -2,282.32 | 11,503.61 | 11,679.53 | 1.09 | 0.73 | 0.81 | |
| 18,266.00 | 89.66 | 90.63 | 7,148.86 | -2,282.91 | 11,597.61 | 11,773.07 | 0.58 | 0.10 | 0.57 | |
| 18,358.00 | 89.92 | 90.76 | 7,149.20 | -2,284.03 | 11,689.60 | 11,864.68 | 0.32 | 0.28 | 0.14 | |
| 18,451.00 | 89.99 | 91.10 | 7,149.27 | -2,285.54 | 11,782.59 | 11,957.31 | 0.37 | 0.08 | 0.37 | |
| 18,544.00 | 90.23 | 91.74 | 7,149.09 | -2,287.84 | 11,875.56 | 12,050.01 | 0.73 | 0.26 | 0.69 | |
| 18,636.00 | 89.88 | 94.21 | 7,149.00 | -2,292.62 | 11,967.43 | 12,141.87 | 2.71 | -0.38 | 2.68 | |
| 18,729.00 | 88.46 | 97.37 | 7,150.35 | -2,302.00 | 12,059.93 | 12,234.85 | 3.72 | -1.53 | 3.40 | |
| 18,821.00 | 88.62 | 98.83 | 7,152.69 | -2,314.96 | 12,150.98 | 12,326.75 | 1.60 | 0.17 | 1.59 | |
| 18,915.00 | 87.84 | 102.30 | 7,155.60 | -2,332.18 | 12,243.33 | 12,420.40 | 3.78 | -0.83 | 3.69 | |
| 19,009.00 | 88.51 | 105.51 | 7,158.59 | -2,354.76 | 12,334.51 | 12,513.45 | 3.49 | 0.71 | 3.41 | |
| 19,102.00 | 89.62 | 107.20 | 7,160.11 | -2,380.94 | 12,423.73 | 12,604.92 | 2.17 | 1.19 | 1.82 | |
| 19,194.00 | 90.32 | 107.87 | 7,160.16 | -2,408.66 | 12,511.46 | 12,695.07 | 1.05 | 0.76 | 0.73 | |
| 19,287.00 | 90.89 | 108.22 | 7,159.18 | -2,437.46 | 12,599.88 | 12,786.03 | 0.72 | 0.61 | 0.38 | |
| 19,380.00 | 88.03 | 108.40 | 7,160.05 | -2,466.67 | 12,688.16 | 12,876.88 | 3.08 | -3.08 | 0.19 | |
| 19,472.00 | 87.17 | 110.28 | 7,163.91 | -2,497.11 | 12,774.88 | 12,966.32 | 2.25 | -0.93 | 2.04 | |
| 19,565.00 | 88.31 | 113.27 | 7,167.57 | -2,531.58 | 12,861.17 | 13,055.75 | 3.44 | 1.23 | 3.22 | |
| 19,657.00 | 89.61 | 112.87 | 7,169.24 | -2,567.63 | 12,945.80 | 13,143.69 | 1.48 | 1.41 | -0.43 | |
| 19,750.00 | 89.68 | 111.66 | 7,169.82 | -2,602.86 | 13,031.86 | 13,232.97 | 1.30 | 0.08 | -1.30 | |
| 19,842.00 | 89.39 | 112.58 | 7,170.57 | -2,637.50 | 13,117.08 | 13,321.36 | 1.05 | -0.32 | 1.00 | |
| 19,935.00 | 89.75 | 111.73 | 7,171.26 | -2,672.57 | 13,203.21 | 13,410.69 | 0.99 | 0.39 | -0.91 | |
| 20,028.00 | 89.85 | 110.52 | 7,171.59 | -2,706.09 | 13,289.96 | 13,500.48 | 1.31 | 0.11 | -1.30 | |
| 20,120.00 | 89.88 | 110.26 | 7,171.81 | -2,738.14 | 13,376.20 | 13,589.60 | 0.28 | 0.03 | -0.28 | |
| 20,213.00 | 89.45 | 110.25 | 7,172.35 | -2,770.34 | 13,463.44 | 13,679.74 | 0.46 | -0.46 | -0.01 | |

Survey Report

| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------|
| Company: | Occidental Petroleum | Local Co-ordinate Reference: | Well BERRY FARMS 8-8HZ |
| Project: | Weld County, CO (UTM-NAD83) | TVD Reference: | PD 461 @ 4837.00usft |
| Site: | BERRY FARMS 8-8HZ PAD | MD Reference: | PD 461 @ 4837.00usft |
| Well: | BERRY FARMS 8-8HZ | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | FHartmann |

| Survey | | | | | | | | | |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 20,306.00 | 89.28 | 111.20 | 7,173.38 | -2,803.25 | 13,550.42 | 13,769.69 | 1.04 | -0.18 | 1.02 |
| 20,399.00 | 88.53 | 111.53 | 7,175.16 | -2,837.12 | 13,637.01 | 13,859.35 | 0.88 | -0.81 | 0.35 |
| 20,491.00 | 88.63 | 112.79 | 7,177.44 | -2,871.81 | 13,722.19 | 13,947.70 | 1.37 | 0.11 | 1.37 |
| 20,584.00 | 88.54 | 114.56 | 7,179.73 | -2,909.14 | 13,807.33 | 14,036.29 | 1.91 | -0.10 | 1.90 |
| 20,677.00 | 88.58 | 116.07 | 7,182.07 | -2,948.90 | 13,891.37 | 14,124.03 | 1.62 | 0.04 | 1.62 |
| 20,770.00 | 89.00 | 115.97 | 7,184.04 | -2,989.69 | 13,974.93 | 14,211.41 | 0.46 | 0.45 | -0.11 |
| 20,861.00 | 89.58 | 116.27 | 7,185.16 | -3,029.74 | 14,056.63 | 14,296.86 | 0.72 | 0.64 | 0.33 |
| 20,954.00 | 90.28 | 116.48 | 7,185.28 | -3,071.06 | 14,139.95 | 14,384.05 | 0.79 | 0.75 | 0.23 |
| 21,047.00 | 90.75 | 116.68 | 7,184.44 | -3,112.67 | 14,223.11 | 14,471.12 | 0.55 | 0.51 | 0.22 |
| 21,139.00 | 90.45 | 113.65 | 7,183.48 | -3,151.78 | 14,306.37 | 14,558.02 | 3.31 | -0.33 | -3.29 |
| 21,232.00 | 88.91 | 108.97 | 7,184.00 | -3,185.57 | 14,392.98 | 14,647.70 | 5.30 | -1.66 | -5.03 |
| 21,324.00 | 88.03 | 108.86 | 7,186.45 | -3,215.38 | 14,479.98 | 14,737.34 | 0.96 | -0.96 | -0.12 |
| 21,416.00 | 88.48 | 107.52 | 7,189.25 | -3,244.09 | 14,567.34 | 14,827.23 | 1.54 | 0.49 | -1.46 |
| 21,508.00 | 88.18 | 109.07 | 7,191.94 | -3,272.95 | 14,654.65 | 14,917.09 | 1.72 | -0.33 | 1.68 |
| 21,600.00 | 87.98 | 109.78 | 7,195.02 | -3,303.53 | 14,741.36 | 15,006.53 | 0.80 | -0.22 | 0.77 |
| 21,692.00 | 87.72 | 110.19 | 7,198.47 | -3,334.96 | 14,827.76 | 15,095.75 | 0.53 | -0.28 | 0.45 |
| 21,785.00 | 87.64 | 109.60 | 7,202.23 | -3,366.58 | 14,915.14 | 15,185.96 | 0.64 | -0.09 | -0.63 |
| 21,877.00 | 87.91 | 107.73 | 7,205.81 | -3,396.00 | 15,002.23 | 15,275.66 | 2.05 | 0.29 | -2.03 |
| 21,970.00 | 87.74 | 105.60 | 7,209.34 | -3,422.65 | 15,091.26 | 15,366.99 | 2.30 | -0.18 | -2.29 |
| 22,062.00 | 88.53 | 102.99 | 7,212.33 | -3,445.35 | 15,180.35 | 15,457.97 | 2.96 | 0.86 | -2.84 |
| 22,154.00 | 87.33 | 103.86 | 7,215.65 | -3,466.69 | 15,269.78 | 15,549.14 | 1.61 | -1.30 | 0.95 |
| 22,247.00 | 87.72 | 106.71 | 7,219.67 | -3,491.18 | 15,359.39 | 15,640.83 | 3.09 | 0.42 | 3.06 |
| 22,339.00 | 87.83 | 109.47 | 7,223.24 | -3,519.73 | 15,446.77 | 15,730.72 | 3.00 | 0.12 | 3.00 |
| 22,432.00 | 88.01 | 110.07 | 7,226.62 | -3,551.16 | 15,534.23 | 15,821.00 | 0.67 | 0.19 | 0.65 |
| 22,525.00 | 88.02 | 110.40 | 7,229.84 | -3,583.31 | 15,621.44 | 15,911.10 | 0.35 | 0.01 | 0.35 |
| 22,619.00 | 87.89 | 110.30 | 7,233.19 | -3,615.98 | 15,709.52 | 16,002.11 | 0.17 | -0.14 | -0.11 |
| 22,711.00 | 88.10 | 110.10 | 7,236.41 | -3,647.73 | 15,795.81 | 16,091.26 | 0.32 | 0.23 | -0.22 |
| 22,803.00 | 87.98 | 110.11 | 7,239.56 | -3,679.33 | 15,882.15 | 16,180.44 | 0.13 | -0.13 | 0.01 |
| 22,896.00 | 87.81 | 109.78 | 7,242.98 | -3,711.03 | 15,969.51 | 16,270.64 | 0.40 | -0.18 | -0.35 |
| 22,988.00 | 89.30 | 110.81 | 7,245.30 | -3,742.93 | 16,055.77 | 16,359.77 | 1.97 | 1.62 | 1.12 |
| 23,019.00 | 89.20 | 110.57 | 7,245.70 | -3,753.88 | 16,084.77 | 16,389.76 | 0.84 | -0.32 | -0.77 |
| Last Survey @ 23019' MD (372' FSL, 396' FEL) | | | | | | | | | |
| 23,057.00 | 89.20 | 110.57 | 7,246.23 | -3,767.23 | 16,120.34 | 16,426.53 | 0.00 | 0.00 | 0.00 |
| TD @ 23057' MD (359' FSL, 361' FEL) | | | | | | | | | |

Survey Report

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|------------------|-----------------------------|-------------------------------------|------------------------|
| Company: | Occidental Petroleum | Local Co-ordinate Reference: | Well BERRY FARMS 8-8HZ |
| Project: | Weld County, CO (UTM-NAD83) | TVD Reference: | PD 461 @ 4837.00usft |
| Site: | BERRY FARMS 8-8HZ PAD | MD Reference: | PD 461 @ 4837.00usft |
| Well: | BERRY FARMS 8-8HZ | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | FHartmann |

| Design Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 1,998.00 | 1,943.62 | -371.64 | 102.11 | First AEP Survey @ 1998' MD |
| 7,529.05 | 7,018.79 | -2,154.23 | 891.15 | Section 9 @ 7529.05' MD |
| 7,838.68 | 7,120.09 | -2,213.37 | 1,176.51 | FTP @ 7838.68' MD (1665' FSL, 284' FWL) |
| 8,051.00 | 7,139.52 | -2,223.63 | 1,387.25 | Heel @ 8051' MD (1657' FSL, 495' FWL) |
| 23,019.00 | 7,245.70 | -3,753.88 | 16,084.77 | Last Survey @ 23019' MD (372' FSL, 396' FEL) |
| 23,057.00 | 7,246.23 | -3,767.23 | 16,120.34 | TD @ 23057' MD (359' FSL, 361' FEL) |

Checked By: _____ Approved By: _____ Date: _____