



Occidental Petroleum

Weld County, CO (UTM-NAD83)

1N-66W-26 (Beierle 2-26HZ Pad)

Beierle 26-14HZ

OH

Design: OH

Standard Survey Report

04 January, 2021





Total Directional Services

Survey Report



| | | | |
|------------------|--------------------------------|-------------------------------------|--------------------------------|
| Company: | Occidental Petroleum | Local Co-ordinate Reference: | Well Beierle 26-14HZ |
| Project: | Weld County, CO (UTM-NAD83) | TVD Reference: | 5119' GE + 5' KB @ 5124.00usft |
| Site: | 1N-66W-26 (Beierle 2-26HZ Pad) | MD Reference: | 5119' GE + 5' KB @ 5124.00usft |
| Well: | Beierle 26-14HZ | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | EDM 5000.15 Single User Db |

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

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|-----------------------|--------------------------------|--------------|--------------------|-------------------|-------------|
| Site | 1N-66W-26 (Beierle 2-26HZ Pad) | | | | |
| Site Position: | | Northing: | 14,537,256.40 usft | Latitude: | 40.028609 |
| From: | Lat/Long | Easting: | 1,712,852.16 usft | Longitude: | -104.741241 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.17 ° |

| Well | | Beierle 26-14HZ | | | | |
|----------------------|------|-----------------|---------------------|--------------------|---------------|---------------|
| Well Position | +N-S | 0.00 usft | Northing: | 14,537,136.68 usft | Latitude: | 40.028280 |
| | +E-W | 0.00 usft | Easting: | 1,712,882.18 usft | Longitude: | -104.741135 |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | usft | Ground Level: | 5,119.00 usft |

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|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2020 | 12/17/2020 | 7.85 | 66.38 | 51,811.30314532 |

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|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| 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 | 182.98 | |

| | | | | | |
|-----------------------|------------------|--------------------------------------|-----------------------|------------------------------------|--|
| Survey Program | Date | 1/4/2021 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 81.00 | 1,852.00 | Survey #1 - Surface MWD+IFR (OH) | APC_ISCWSA REV 2 MWD+ | Fixed:v2:crustal field declination | |
| 1,917.00 | 1,917.00 | Survey #2 - Surface Proj to Bit (OH) | APC_BLIND | OWSG BLIND | |

| | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|
| 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 |
| SHL (Beierle 26-14HZ) | | | | | | | | | |
| 81.00 | 0.50 | 248.96 | 81.00 | -0.13 | -0.33 | 0.14 | 0.62 | 0.62 | 0.00 |
| 164.00 | 0.44 | 291.29 | 164.00 | -0.14 | -0.96 | 0.19 | 0.41 | -0.07 | 51.00 |
| 251.00 | 0.52 | 161.63 | 251.00 | -0.39 | -1.15 | 0.45 | 1.00 | 0.09 | -149.03 |
| 340.00 | 1.93 | 169.27 | 339.97 | -2.25 | -0.75 | 2.29 | 1.59 | 1.58 | 8.58 |
| 430.00 | 2.55 | 178.90 | 429.90 | -5.74 | -0.42 | 5.76 | 0.80 | 0.69 | 10.70 |
| 520.00 | 4.24 | 188.51 | 519.74 | -11.03 | -0.88 | 11.06 | 1.97 | 1.88 | 10.68 |
| 610.00 | 5.77 | 180.83 | 609.40 | -18.85 | -1.44 | 18.90 | 1.85 | 1.70 | -8.53 |
| 700.00 | 8.04 | 180.22 | 698.74 | -29.67 | -1.53 | 29.71 | 2.52 | 2.52 | -0.68 |



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| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | OH | Database: | EDM 5000.15 Single User Db |

| 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) | |
| 789.00 | 9.20 | 183.70 | 786.73 | -42.99 | -2.01 | 43.04 | 1.43 | 1.30 | 3.91 | |
| 879.00 | 10.34 | 183.47 | 875.43 | -58.23 | -2.96 | 58.31 | 1.27 | 1.27 | -0.26 | |
| 969.00 | 11.92 | 185.02 | 963.73 | -75.56 | -4.26 | 75.68 | 1.79 | 1.76 | 1.72 | |
| 1,059.00 | 13.65 | 184.37 | 1,051.50 | -95.41 | -5.89 | 95.58 | 1.93 | 1.92 | -0.72 | |
| 1,149.00 | 14.16 | 182.99 | 1,138.86 | -116.99 | -7.27 | 117.21 | 0.68 | 0.57 | -1.53 | |
| 1,239.00 | 15.38 | 183.72 | 1,225.88 | -139.89 | -8.62 | 140.15 | 1.37 | 1.36 | 0.81 | |
| 1,329.00 | 15.77 | 184.01 | 1,312.58 | -164.00 | -10.25 | 164.31 | 0.44 | 0.43 | 0.32 | |
| 1,419.00 | 17.97 | 183.76 | 1,398.70 | -190.06 | -12.01 | 190.43 | 2.45 | 2.44 | -0.28 | |
| 1,509.00 | 18.66 | 183.27 | 1,484.14 | -218.29 | -13.75 | 218.71 | 0.79 | 0.77 | -0.54 | |
| 1,599.00 | 21.38 | 182.64 | 1,568.69 | -249.05 | -15.32 | 249.51 | 3.03 | 3.02 | -0.70 | |
| 1,688.00 | 24.53 | 181.52 | 1,650.64 | -283.74 | -16.56 | 284.21 | 3.57 | 3.54 | -1.26 | |
| 1,778.00 | 25.73 | 180.91 | 1,732.12 | -321.95 | -17.37 | 322.42 | 1.36 | 1.33 | -0.68 | |
| 1,852.00 | 25.68 | 182.76 | 1,798.79 | -354.02 | -18.39 | 354.50 | 1.09 | -0.07 | 2.50 | |
| 1,917.00 | 25.68 | 183.46 | 1,857.37 | -382.15 | -19.92 | 382.67 | 0.47 | 0.00 | 1.08 | |
| PBHL (Beierle 26-14HZ) - TGT 1 (Beierle 26-14HZ) - LP (Beierle 26-14HZ) | | | | | | | | | | |

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