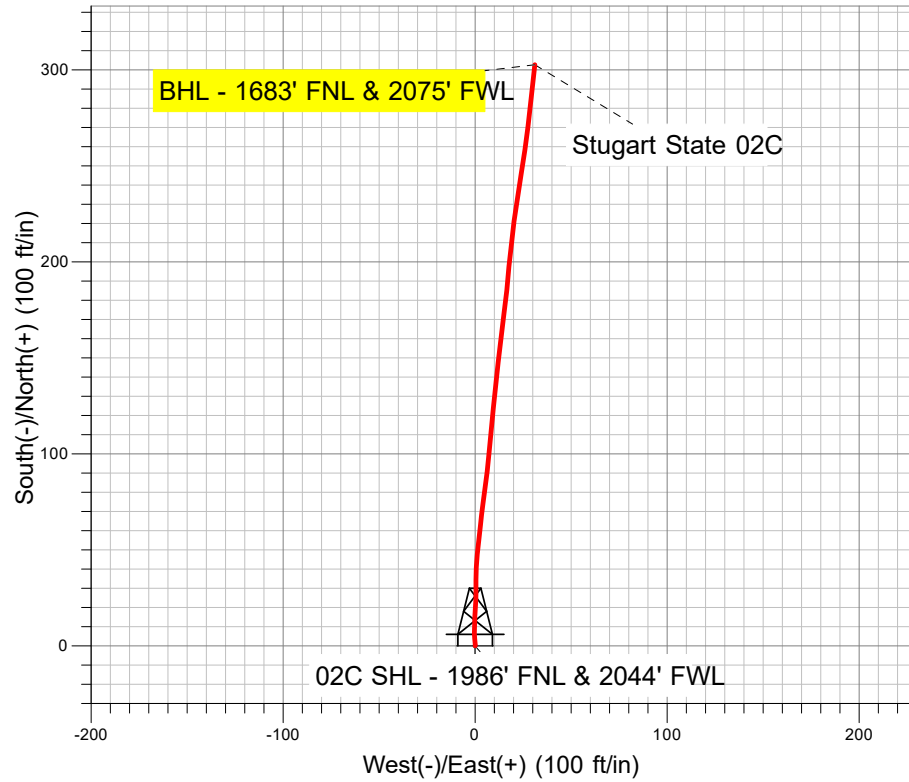
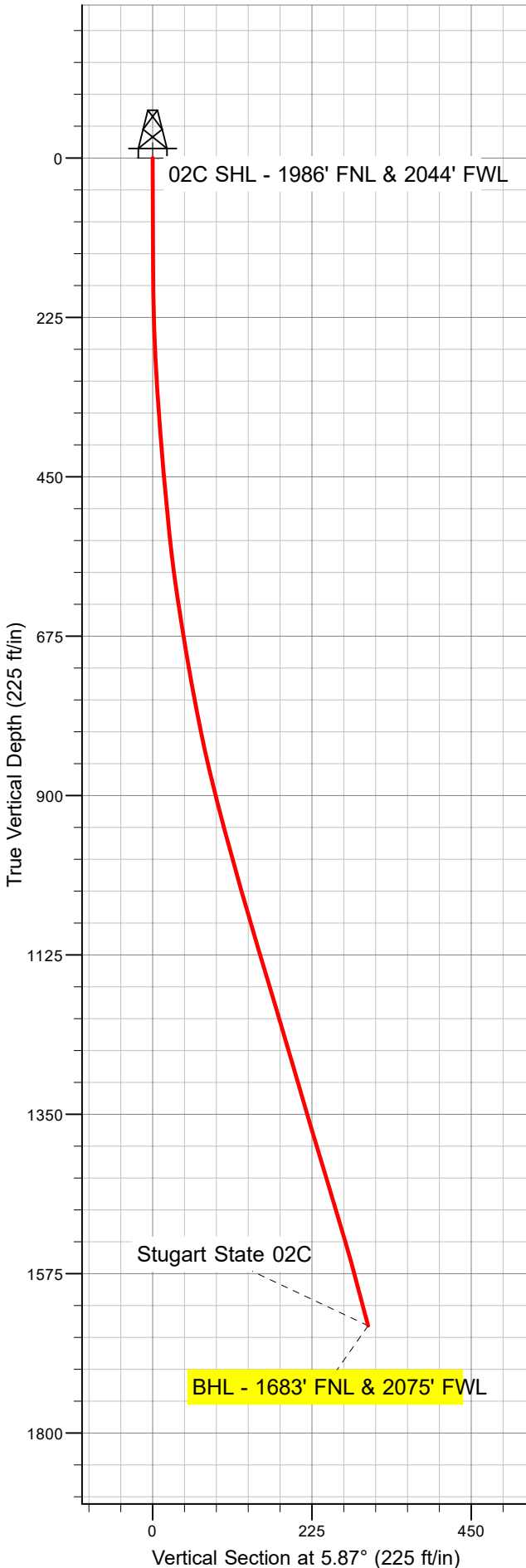




Well Name: Stugart State 02C
 Surface Location: Stugart State 6-20
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 4885.0
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.0 0.0 1384521.37 3193379.69 40.38683 -104.80578
 Ensign 122 - RKB 13' Well @ 4898.0ft (Ensign 122 - RKB 13')

PDC Energy Inc. DJ Basin

Final Survey Plot



Project: SEC.20-T5N-R66W
 Site: Stugart State 6-20
 Well: Stugart State 02C
 Plan: Stugart State 02C

M Azimuths to True North
 Magnetic North: 7.87°

Magnetic Field
 Strength: 51873.3nT
 Dip Angle: 66.62°
 Date: 07/06/2022
 Model: HRGM





PDC Energy Inc. DJ Basin

SEC.20-T5N-R66W

Stugart State 6-20

Stugart State 02C

Stugart State 02C

Design: Stugart State 02C

Standard Survey Report

26 July, 2022



| | | | |
|------------------|--------------------------|-------------------------------------|--|
| Company: | PDC Energy Inc. DJ Basin | Local Co-ordinate Reference: | Well Stugart State 02C |
| Project: | SEC.20-T5N-R66W | TVD Reference: | Well @ 4898.0ft (Ensign 122 - RKB 13') |
| Site: | Stugart State 6-20 | MD Reference: | Well @ 4898.0ft (Ensign 122 - RKB 13') |
| Well: | Stugart State 02C | North Reference: | True |
| Wellbore: | Stugart State 02C | Survey Calculation Method: | Minimum Curvature |
| Design: | Stugart State 02C | Database: | US_EDM |

| | | | |
|--------------------|---------------------------|----------------------|-----------------------------|
| Project | SEC.20-T5N-R66W | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | Using geodetic scale factor |

| | | | | | |
|------------------------------|--------------------|---------------------|-------------------|--------------------------|-------------|
| Site | Stugart State 6-20 | | | | |
| Site Position: | | Northing: | 1,384,531.67 usft | Latitude: | 40.386863 |
| From: | Lat/Long | Easting: | 3,193,390.47 usft | Longitude: | -104.805753 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.45 ° |

| | | | | | | |
|-----------------------------|-------------------|--------|----------------------------|-------------------|----------------------|------------|
| Well | Stugart State 02C | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,384,521.37 usft | Latitude: | 40.38683 |
| | +E/-W | 0.0 ft | Easting: | 3,193,379.69 usft | Longitude: | -104.80578 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,885.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Stugart State 02C | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HRGM | 07/06/2022 | 7.87 | 66.62 | 51,873.34040355 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|-----|
| Design | Stugart State 02C | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 5.87 | |

| | | | | | |
|-----------------------|----------------|-------------------------------|------------------|--------------------|--|
| Survey Program | Date | 07/26/2022 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 145.0 | 1,686.0 | Survey #1 (Stugart State 02C) | MWD | MWD - Standard | |

| | | | | | | | | | | |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| Survey | | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | |
| 145.0 | 0.35 | 19.47 | 145.0 | 0.4 | 0.1 | 0.4 | 0.24 | 0.24 | 0.00 | |
| 237.0 | 1.85 | 349.41 | 237.0 | 2.1 | 0.0 | 2.1 | 1.69 | 1.63 | -32.67 | |
| 328.0 | 3.69 | 358.20 | 327.9 | 6.5 | -0.4 | 6.4 | 2.07 | 2.02 | 9.66 | |
| 444.0 | 5.10 | 4.00 | 443.5 | 15.4 | -0.2 | 15.3 | 1.27 | 1.22 | 5.00 | |
| 531.0 | 5.80 | 2.42 | 530.1 | 23.6 | 0.3 | 23.5 | 0.82 | 0.80 | -1.82 | |
| 618.0 | 8.53 | 359.96 | 616.4 | 34.5 | 0.5 | 34.4 | 3.16 | 3.14 | -2.83 | |
| 702.0 | 9.58 | 5.58 | 699.4 | 47.7 | 1.2 | 47.5 | 1.63 | 1.25 | 6.69 | |
| 787.0 | 10.99 | 6.11 | 783.0 | 62.8 | 2.7 | 62.7 | 1.66 | 1.66 | 0.62 | |
| 872.0 | 13.37 | 8.22 | 866.1 | 80.6 | 5.0 | 80.6 | 2.85 | 2.80 | 2.48 | |

| | | | |
|------------------|--------------------------|-------------------------------------|--|
| Company: | PDC Energy Inc. DJ Basin | Local Co-ordinate Reference: | Well Stugart State 02C |
| Project: | SEC.20-T5N-R66W | TVD Reference: | Well @ 4898.0ft (Ensign 122 - RKB 13') |
| Site: | Stugart State 6-20 | MD Reference: | Well @ 4898.0ft (Ensign 122 - RKB 13') |
| Well: | Stugart State 02C | North Reference: | True |
| Wellbore: | Stugart State 02C | Survey Calculation Method: | Minimum Curvature |
| Design: | Stugart State 02C | Database: | US_EDM |

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| 958.0 | 15.04 | 5.06 | 949.5 | 101.5 | 7.4 | 101.7 | 2.14 | 1.94 | -3.67 |
| 1,044.0 | 15.83 | 5.58 | 1,032.4 | 124.3 | 9.5 | 124.6 | 0.93 | 0.92 | 0.60 |
| 1,129.0 | 16.71 | 6.46 | 1,114.0 | 148.0 | 12.0 | 148.4 | 1.08 | 1.04 | 1.04 |
| 1,217.0 | 16.71 | 7.52 | 1,198.3 | 173.1 | 15.1 | 173.7 | 0.35 | 0.00 | 1.20 |
| 1,304.0 | 16.09 | 4.53 | 1,281.7 | 197.5 | 17.7 | 198.3 | 1.20 | -0.71 | -3.44 |
| 1,389.0 | 16.53 | 7.69 | 1,363.3 | 221.2 | 20.2 | 222.1 | 1.17 | 0.52 | 3.72 |
| 1,476.0 | 17.06 | 9.63 | 1,446.6 | 246.1 | 24.0 | 247.3 | 0.89 | 0.61 | 2.23 |
| 1,562.0 | 16.27 | 6.64 | 1,529.0 | 270.5 | 27.5 | 271.9 | 1.36 | -0.92 | -3.48 |
| 1,626.0 | 14.77 | 6.29 | 1,590.6 | 287.5 | 29.5 | 289.0 | 2.35 | -2.34 | -0.55 |
| 1,686.0 | 14.77 | 6.29 | 1,648.7 | 302.7 | 31.1 | 304.3 | 0.00 | 0.00 | 0.00 |
| BHL - 1683' FNL & 2075' FWL | | | | | | | | | |

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
|---------------------|---------------------|-------------------|------------|-----------------------------|
| | | +N/-S (ft) | +E/-W (ft) | |
| 1,686.0 | 1,648.7 | 302.7 | 31.1 | BHL - 1683' FNL & 2075' FWL |

Checked By: _____ Approved By: _____ Date: _____