

EXTRACTION OIL & GAS

WELD COUNTY

SEC 20-T7N-R67W

VIC WEST 20W-20-02

OWB

Plan: PROPOSAL 1

Standard Planning Report

01 March, 2021



Project: WELD COUNTY
Site: SEC 20-T7N-R67W
Well: VIC WEST 20W-20-02
Wellbore: OWB
Design: PROPOSAL 1



Azimuths to True North
Magnetic North: 7.97"
Magnetic Field
Strength: 52051.7nT
Dip Angle: 66.77"
Date: 3/1/2021
Model: IGRF2020

WELL DETAILS: VIC WEST 20W-20-02

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|-------|-------|------------|------------|-------------|--------------|------|
| 0.00 | 0.00 | 1447731.38 | 3164266.04 | 40.560919°N | 104.908790°W | |

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 | 1000.00 | 0.00 | 0.00 | 1000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 1425.23 | 8.50 | 151.65 | 1423.67 | -27.72 | 14.96 | 2.00 | 151.65 | -11.76 | |
| 4 | 6707.83 | 8.50 | 151.65 | 6648.18 | -715.26 | 385.93 | 0.00 | 0.00 | -303.31 | |
| 5 | 7646.09 | 90.00 | 268.47 | 7254.00 | -811.32 | -183.39 | 10.00 | 116.57 | 273.19 | VIC WEST 20W-02- |
| 6 | 16827.39 | 90.00 | 268.47 | 7254.00 | -1056.18 | -9361.42 | 0.00 | 0.00 | 9420.81 | VIC WEST 20W-02- |

ANNOTATIONS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | VSect | Departure | Annotation |
|----------|-------|--------|---------|----------|----------|---------|-----------|----------------------------------|
| 1000.00 | 0.00 | 0.00 | 1000.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Build 2.00 |
| 1425.23 | 8.50 | 151.65 | 1423.67 | -27.72 | 14.96 | -11.76 | 31.50 | Start 5282.60 hold at 1425.23 MD |
| 6707.83 | 8.50 | 151.65 | 6648.18 | -715.26 | 385.93 | -303.31 | 812.73 | Start DLS 10.00 TFO 116.57 |
| 7646.09 | 90.00 | 268.47 | 7254.00 | -811.32 | -183.39 | 273.19 | 1406.07 | Start 9181.30 hold at 7646.09 MD |
| 16827.39 | 90.00 | 268.47 | 7254.00 | -1056.18 | -9361.42 | 9420.81 | 10587.37 | TD at 16827.39 |

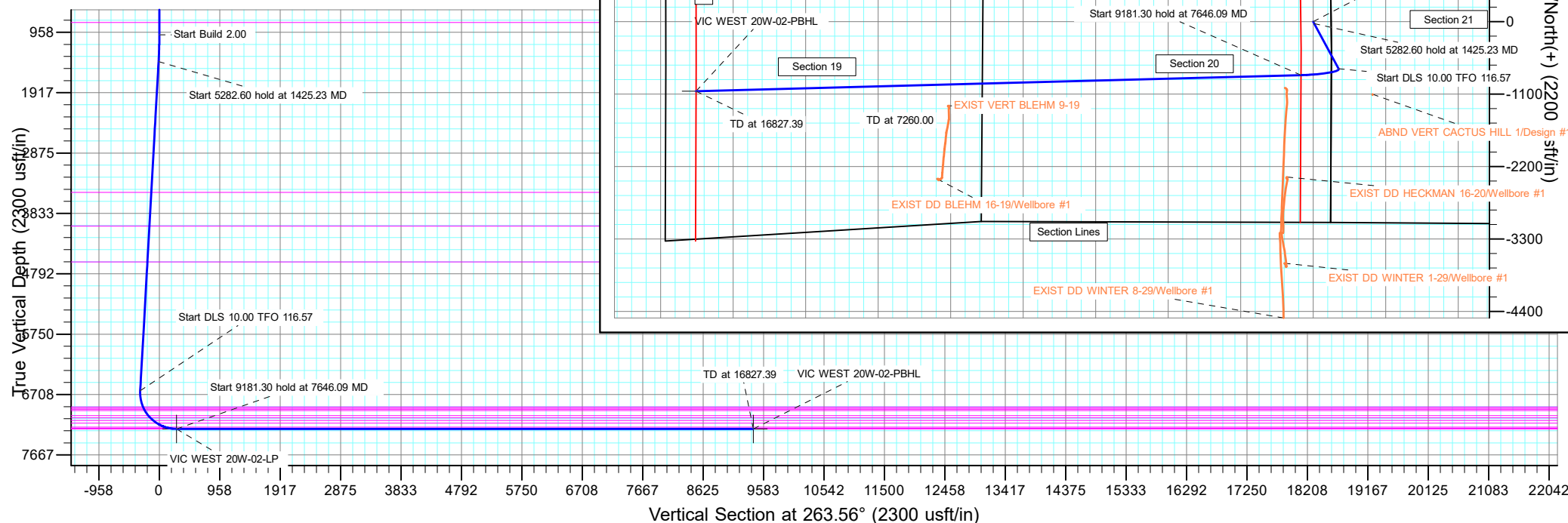
DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|---------------------------|---------|----------|----------|------------|------------|-------------|--------------|-------|
| VIC WEST 20W-02-LP | 7254.00 | -811.32 | -183.39 | 1446918.86 | 3164088.07 | 40.558692°N | 104.909450°W | Point |
| - plan hits target center | | | | | | | | |
| VIC WEST 20W-02-PBHL | 7254.00 | -1056.18 | -9361.42 | 1446612.82 | 3154911.87 | 40.558015°N | 104.942481°W | Point |
| - plan hits target center | | | | | | | | |

FORMATION TOP DETAILS

PROJECT DETAILS: WELD COUNTY

| | | | |
|---------|---------|----------------------------------|--------------------------------------|
| TVDPath | MDPath | Formation | Geodetic System: US State Plane 1983 |
| 804.00 | 804.00 | Fox Hills Base: | Datum: North American Datum 1983 |
| 3499.00 | 3523.63 | Parkman: | Ellipsoid: GRS 1980 |
| 4034.00 | 4064.58 | Sussex: | Zone: Colorado Northern Zone |
| 4604.00 | 4640.92 | Shannon: | |
| 6906.00 | 6973.92 | Sharon Springs (Confining Zone): | System Datum: Mean Sea Level |
| 6926.00 | 6995.99 | Niobrara: | |
| 6943.00 | 7015.06 | A Chalk: | |
| 6964.00 | 7039.08 | A Marl: | SHL: |
| 7044.00 | 7136.76 | B2 Chalk: | 2232' FNL, 273' FEL |
| 7079.00 | 7183.86 | B Marl: | Sec 20-T7N-R67W |
| 7119.00 | 7242.75 | C Chalk: | LP: |
| 7164.00 | 7319.11 | C Marl: | 2237' FSL, 460' FEL |
| 7224.00 | 7459.03 | Ft Hays (Confining Zone): | Sec 20-T7N-R67W |
| 7244.00 | 7538.41 | Codell: | BHL: |
| 7254.00 | 7646.09 | Landing Point: | 2242' FSL, 460' FWL |
| | | | Sec 19-T7N-R67W |



Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well VIC WEST 20W-20-02 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 29' @ 5035.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 29' @ 5035.00usft |
| Site: | SEC 20-T7N-R67W | North Reference: | True |
| Well: | VIC WEST 20W-20-02 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | WELD COUNTY | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | | |
|-----------------------|----------|-----------------|--------------|--------------|------------|--------------|
| Site | | SEC 20-T7N-R67W | | | | |
| Site Position: | | Northing: | 1,449,964.02 | usft | Latitude: | 40.567043°N |
| From: | Lat/Long | Easting: | 3,164,495.92 | usft | Longitude: | 104.907909°W |
| Position Uncertainty: | | 0.00 | usft | Slot Radius: | 13.200 | in |

| Well | | VIC WEST 20W-20-02 | | | | |
|----------------------|-------|--------------------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,447,731.39 usft | Latitude: | 40.560919°N |
| | +E/-W | 0.00 usft | Easting: | 3,164,266.04 usft | Longitude: | 104.908790°W |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | usft | Ground Level: | 5,006.00 usft |
| Grid Convergence: | | 0.38 ° | | | | |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OWB | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2020 | 3/1/2021 | 7.97 | 66.77 | 52,051.74634406 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|--|
| Design | PROPOSAL 1 | | | | |
| Audit Notes: | | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.00 | |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 263.56 | |

| | | | | | |
|---------------------------------|------------------------|----------------------------|------------------|---------------------|--|
| Plan Survey Tool Program | Date | 3/1/2021 | | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 0.00 | 16,827.39 PROPOSAL 1 (OWB) | MWD OWSG | OWSG MWD - Standard | |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|------------------------------|-----------------------------|----------------------------|----------------|--------------------|
| Plan Sections | | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | 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 | |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,425.23 | 8.50 | 151.65 | 1,423.67 | -27.72 | 14.96 | 2.00 | 2.00 | 0.00 | 151.65 | |
| 6,707.83 | 8.50 | 151.65 | 6,648.18 | -715.26 | 385.93 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,646.09 | 90.00 | 268.47 | 7,254.00 | -811.32 | -183.39 | 10.00 | 8.69 | 12.45 | 116.57 | VIC WEST 20W-02-LI |
| 16,827.39 | 90.00 | 268.47 | 7,254.00 | -1,056.18 | -9,361.42 | 0.00 | 0.00 | 0.00 | 0.00 | VIC WEST 20W-02-P |

Planning Report

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|------------------|----------------------------|-------------------------------------|-------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well VIC WEST 20W-20-02 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 29' @ 5035.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 29' @ 5035.00usft |
| Site: | SEC 20-T7N-R67W | North Reference: | True |
| Well: | VIC WEST 20W-20-02 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| Planned Survey | | | | | | | | | |
|----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | 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 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 804.00 | 0.00 | 0.00 | 804.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fox Hills Base: | | | | | | | | | |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start Build 2.00 | | | | | | | | | |
| 1,100.00 | 2.00 | 151.65 | 1,099.98 | -1.54 | 0.83 | -0.65 | 2.00 | 2.00 | 0.00 |
| 1,200.00 | 4.00 | 151.65 | 1,199.84 | -6.14 | 3.31 | -2.60 | 2.00 | 2.00 | 0.00 |
| 1,300.00 | 6.00 | 151.65 | 1,299.45 | -13.81 | 7.45 | -5.86 | 2.00 | 2.00 | 0.00 |
| 1,400.00 | 8.00 | 151.65 | 1,398.70 | -24.54 | 13.24 | -10.40 | 2.00 | 2.00 | 0.00 |
| 1,425.23 | 8.50 | 151.65 | 1,423.67 | -27.72 | 14.96 | -11.76 | 2.00 | 2.00 | 0.00 |
| Start 5282.60 hold at 1425.23 MD | | | | | | | | | |
| 1,500.00 | 8.50 | 151.65 | 1,497.62 | -37.45 | 20.21 | -15.88 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 8.50 | 151.65 | 1,596.52 | -50.47 | 27.23 | -21.40 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 8.50 | 151.65 | 1,695.42 | -63.48 | 34.25 | -26.92 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 8.50 | 151.65 | 1,794.32 | -76.50 | 41.28 | -32.44 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 8.50 | 151.65 | 1,893.22 | -89.51 | 48.30 | -37.96 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 8.50 | 151.65 | 1,992.12 | -102.53 | 55.32 | -43.48 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 8.50 | 151.65 | 2,091.02 | -115.54 | 62.34 | -49.00 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 8.50 | 151.65 | 2,189.92 | -128.56 | 69.37 | -54.52 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 8.50 | 151.65 | 2,288.82 | -141.57 | 76.39 | -60.04 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 8.50 | 151.65 | 2,387.72 | -154.59 | 83.41 | -65.56 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 8.50 | 151.65 | 2,486.62 | -167.60 | 90.44 | -71.07 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 8.50 | 151.65 | 2,585.52 | -180.62 | 97.46 | -76.59 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 8.50 | 151.65 | 2,684.42 | -193.63 | 104.48 | -82.11 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 8.50 | 151.65 | 2,783.32 | -206.65 | 111.50 | -87.63 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 8.50 | 151.65 | 2,882.22 | -219.66 | 118.53 | -93.15 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 8.50 | 151.65 | 2,981.12 | -232.68 | 125.55 | -98.67 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 8.50 | 151.65 | 3,080.02 | -245.70 | 132.57 | -104.19 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 8.50 | 151.65 | 3,178.93 | -258.71 | 139.59 | -109.71 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 8.50 | 151.65 | 3,277.83 | -271.73 | 146.62 | -115.23 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 8.50 | 151.65 | 3,376.73 | -284.74 | 153.64 | -120.75 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 8.50 | 151.65 | 3,475.63 | -297.76 | 160.66 | -126.27 | 0.00 | 0.00 | 0.00 |
| 3,523.63 | 8.50 | 151.65 | 3,499.00 | -300.83 | 162.32 | -127.57 | 0.00 | 0.00 | 0.00 |
| Parkman: | | | | | | | | | |
| 3,600.00 | 8.50 | 151.65 | 3,574.53 | -310.77 | 167.68 | -131.79 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 8.50 | 151.65 | 3,673.43 | -323.79 | 174.71 | -137.31 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 8.50 | 151.65 | 3,772.33 | -336.80 | 181.73 | -142.82 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 8.50 | 151.65 | 3,871.23 | -349.82 | 188.75 | -148.34 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 8.50 | 151.65 | 3,970.13 | -362.83 | 195.77 | -153.86 | 0.00 | 0.00 | 0.00 |
| 4,064.58 | 8.50 | 151.65 | 4,034.00 | -371.24 | 200.31 | -157.43 | 0.00 | 0.00 | 0.00 |
| Sussex: | | | | | | | | | |
| 4,100.00 | 8.50 | 151.65 | 4,069.03 | -375.85 | 202.80 | -159.38 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 8.50 | 151.65 | 4,167.93 | -388.86 | 209.82 | -164.90 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 8.50 | 151.65 | 4,266.83 | -401.88 | 216.84 | -170.42 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well VIC WEST 20W-20-02 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 29' @ 5035.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 29' @ 5035.00usft |
| Site: | SEC 20-T7N-R67W | North Reference: | True |
| Well: | VIC WEST 20W-20-02 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| Planned Survey | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,400.00 | 8.50 | 151.65 | 4,365.73 | -414.89 | 223.86 | -175.94 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 8.50 | 151.65 | 4,464.63 | -427.91 | 230.89 | -181.46 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 8.50 | 151.65 | 4,563.53 | -440.92 | 237.91 | -186.98 | 0.00 | 0.00 | 0.00 |
| 4,640.92 | 8.50 | 151.65 | 4,604.00 | -446.25 | 240.78 | -189.24 | 0.00 | 0.00 | 0.00 |
| Shannon: | | | | | | | | | |
| 4,700.00 | 8.50 | 151.65 | 4,662.43 | -453.94 | 244.93 | -192.50 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 8.50 | 151.65 | 4,761.33 | -466.95 | 251.95 | -198.02 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 8.50 | 151.65 | 4,860.23 | -479.97 | 258.98 | -203.54 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 8.50 | 151.65 | 4,959.13 | -492.98 | 266.00 | -209.05 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 8.50 | 151.65 | 5,058.03 | -506.00 | 273.02 | -214.57 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 8.50 | 151.65 | 5,156.93 | -519.01 | 280.05 | -220.09 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 8.50 | 151.65 | 5,255.83 | -532.03 | 287.07 | -225.61 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 8.50 | 151.65 | 5,354.73 | -545.04 | 294.09 | -231.13 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 8.50 | 151.65 | 5,453.63 | -558.06 | 301.11 | -236.65 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 8.50 | 151.65 | 5,552.54 | -571.07 | 308.14 | -242.17 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 8.50 | 151.65 | 5,651.44 | -584.09 | 315.16 | -247.69 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 8.50 | 151.65 | 5,750.34 | -597.10 | 322.18 | -253.21 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 8.50 | 151.65 | 5,849.24 | -610.12 | 329.20 | -258.73 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 8.50 | 151.65 | 5,948.14 | -623.13 | 336.23 | -264.25 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 8.50 | 151.65 | 6,047.04 | -636.15 | 343.25 | -269.77 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 8.50 | 151.65 | 6,145.94 | -649.16 | 350.27 | -275.28 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 8.50 | 151.65 | 6,244.84 | -662.18 | 357.29 | -280.80 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 8.50 | 151.65 | 6,343.74 | -675.19 | 364.32 | -286.32 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 8.50 | 151.65 | 6,442.64 | -688.21 | 371.34 | -291.84 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 8.50 | 151.65 | 6,541.54 | -701.22 | 378.36 | -297.36 | 0.00 | 0.00 | 0.00 |
| 6,707.83 | 8.50 | 151.65 | 6,648.18 | -715.26 | 385.93 | -303.31 | 0.00 | 0.00 | 0.00 |
| Start DLS 10.00 TFO 116.57 | | | | | | | | | |
| 6,750.00 | 7.61 | 181.43 | 6,689.95 | -720.79 | 387.35 | -304.09 | 10.00 | -2.12 | 70.61 |
| 6,800.00 | 9.31 | 213.98 | 6,739.44 | -727.46 | 385.00 | -301.02 | 10.00 | 3.40 | 65.10 |
| 6,850.00 | 12.85 | 232.67 | 6,788.51 | -734.19 | 378.32 | -293.62 | 10.00 | 7.08 | 37.38 |
| 6,900.00 | 17.12 | 242.81 | 6,836.81 | -740.93 | 367.34 | -281.96 | 10.00 | 8.55 | 20.28 |
| 6,950.00 | 21.71 | 248.88 | 6,883.96 | -747.63 | 352.16 | -266.12 | 10.00 | 9.16 | 12.15 |
| 6,973.92 | 23.95 | 250.99 | 6,906.00 | -750.81 | 343.44 | -257.10 | 10.00 | 9.40 | 8.81 |
| Sharon Springs (Confining Zone): | | | | | | | | | |
| 6,995.99 | 26.05 | 252.63 | 6,926.00 | -753.71 | 334.58 | -247.97 | 10.00 | 9.50 | 7.42 |
| Niobrara: | | | | | | | | | |
| 7,000.00 | 26.43 | 252.90 | 6,929.60 | -754.24 | 332.88 | -246.23 | 10.00 | 9.54 | 6.77 |
| 7,015.06 | 27.87 | 253.86 | 6,943.00 | -756.20 | 326.30 | -239.46 | 10.00 | 9.57 | 6.36 |
| A Chalk: | | | | | | | | | |
| 7,039.08 | 30.18 | 255.21 | 6,964.00 | -759.31 | 315.07 | -227.95 | 10.00 | 9.62 | 5.63 |
| A Marl: | | | | | | | | | |
| 7,050.00 | 31.24 | 255.76 | 6,973.39 | -760.70 | 309.67 | -222.43 | 10.00 | 9.66 | 5.07 |
| 7,100.00 | 36.09 | 257.92 | 7,014.99 | -766.98 | 282.68 | -194.91 | 10.00 | 9.71 | 4.32 |
| 7,136.76 | 39.68 | 259.22 | 7,044.00 | -771.44 | 260.56 | -172.43 | 10.00 | 9.76 | 3.51 |
| B2 Chalk: | | | | | | | | | |
| 7,150.00 | 40.98 | 259.63 | 7,054.09 | -773.01 | 252.13 | -163.88 | 10.00 | 9.79 | 3.16 |
| 7,183.86 | 44.30 | 260.61 | 7,079.00 | -776.94 | 229.54 | -140.99 | 10.00 | 9.81 | 2.89 |
| B Marl: | | | | | | | | | |
| 7,200.00 | 45.89 | 261.04 | 7,090.39 | -778.76 | 218.25 | -129.57 | 10.00 | 9.82 | 2.64 |
| 7,242.75 | 50.09 | 262.06 | 7,119.00 | -783.42 | 186.84 | -97.83 | 10.00 | 9.84 | 2.40 |
| C Chalk: | | | | | | | | | |
| 7,250.00 | 50.81 | 262.23 | 7,123.61 | -784.18 | 181.30 | -92.24 | 10.00 | 9.85 | 2.22 |
| 7,300.00 | 55.74 | 263.26 | 7,153.51 | -789.23 | 141.56 | -52.19 | 10.00 | 9.86 | 2.06 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well VIC WEST 20W-20-02 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 29' @ 5035.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 29' @ 5035.00usft |
| Site: | SEC 20-T7N-R67W | North Reference: | True |
| Well: | VIC WEST 20W-20-02 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| Planned Survey | | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 7,319.11 | 57.62 | 263.62 | 7,164.00 | -791.06 | 125.70 | -36.22 | 10.00 | 9.87 | 1.89 | |
| C Marl: | | | | | | | | | | |
| 7,350.00 | 60.68 | 264.17 | 7,179.84 | -793.87 | 99.33 | -9.70 | 10.00 | 9.88 | 1.80 | |
| 7,400.00 | 65.62 | 265.00 | 7,202.42 | -798.07 | 54.94 | 34.88 | 10.00 | 9.89 | 1.66 | |
| 7,450.00 | 70.57 | 265.77 | 7,221.06 | -801.79 | 8.71 | 81.24 | 10.00 | 9.90 | 1.54 | |
| 7,459.03 | 71.46 | 265.91 | 7,224.00 | -802.41 | 0.20 | 89.76 | 10.00 | 9.90 | 1.48 | |
| Ft Hays (Confining Zone): | | | | | | | | | | |
| 7,500.00 | 75.52 | 266.50 | 7,235.64 | -805.01 | -38.99 | 129.00 | 10.00 | 9.90 | 1.44 | |
| 7,538.41 | 79.33 | 267.03 | 7,244.00 | -807.13 | -76.41 | 166.42 | 10.00 | 9.91 | 1.39 | |
| Codell: | | | | | | | | | | |
| 7,550.00 | 80.48 | 267.19 | 7,246.03 | -807.70 | -87.81 | 177.81 | 10.00 | 9.91 | 1.36 | |
| 7,600.00 | 85.43 | 267.86 | 7,252.16 | -809.84 | -137.37 | 227.30 | 10.00 | 9.91 | 1.34 | |
| 7,646.09 | 90.00 | 268.47 | 7,254.00 | -811.32 | -183.39 | 273.19 | 10.00 | 9.91 | 1.33 | |
| Start 9181.30 hold at 7646.09 MD - Landing Point: | | | | | | | | | | |
| 7,700.00 | 90.00 | 268.47 | 7,254.00 | -812.75 | -237.28 | 326.90 | 0.00 | 0.00 | 0.00 | |
| 7,800.00 | 90.00 | 268.47 | 7,254.00 | -815.42 | -337.25 | 426.54 | 0.00 | 0.00 | 0.00 | |
| 7,900.00 | 90.00 | 268.47 | 7,254.00 | -818.09 | -437.21 | 526.17 | 0.00 | 0.00 | 0.00 | |
| 8,000.00 | 90.00 | 268.47 | 7,254.00 | -820.75 | -537.17 | 625.80 | 0.00 | 0.00 | 0.00 | |
| 8,100.00 | 90.00 | 268.47 | 7,254.00 | -823.42 | -637.14 | 725.44 | 0.00 | 0.00 | 0.00 | |
| 8,200.00 | 90.00 | 268.47 | 7,254.00 | -826.09 | -737.10 | 825.07 | 0.00 | 0.00 | 0.00 | |
| 8,300.00 | 90.00 | 268.47 | 7,254.00 | -828.76 | -837.07 | 924.70 | 0.00 | 0.00 | 0.00 | |
| 8,400.00 | 90.00 | 268.47 | 7,254.00 | -831.42 | -937.03 | 1,024.34 | 0.00 | 0.00 | 0.00 | |
| 8,500.00 | 90.00 | 268.47 | 7,254.00 | -834.09 | -1,037.00 | 1,123.97 | 0.00 | 0.00 | 0.00 | |
| 8,600.00 | 90.00 | 268.47 | 7,254.00 | -836.76 | -1,136.96 | 1,223.60 | 0.00 | 0.00 | 0.00 | |
| 8,700.00 | 90.00 | 268.47 | 7,254.00 | -839.42 | -1,236.93 | 1,323.24 | 0.00 | 0.00 | 0.00 | |
| 8,800.00 | 90.00 | 268.47 | 7,254.00 | -842.09 | -1,336.89 | 1,422.87 | 0.00 | 0.00 | 0.00 | |
| 8,900.00 | 90.00 | 268.47 | 7,254.00 | -844.76 | -1,436.85 | 1,522.50 | 0.00 | 0.00 | 0.00 | |
| 9,000.00 | 90.00 | 268.47 | 7,254.00 | -847.42 | -1,536.82 | 1,622.14 | 0.00 | 0.00 | 0.00 | |
| 9,100.00 | 90.00 | 268.47 | 7,254.00 | -850.09 | -1,636.78 | 1,721.77 | 0.00 | 0.00 | 0.00 | |
| 9,200.00 | 90.00 | 268.47 | 7,254.00 | -852.76 | -1,736.75 | 1,821.40 | 0.00 | 0.00 | 0.00 | |
| 9,300.00 | 90.00 | 268.47 | 7,254.00 | -855.43 | -1,836.71 | 1,921.04 | 0.00 | 0.00 | 0.00 | |
| 9,400.00 | 90.00 | 268.47 | 7,254.00 | -858.09 | -1,936.68 | 2,020.67 | 0.00 | 0.00 | 0.00 | |
| 9,500.00 | 90.00 | 268.47 | 7,254.00 | -860.76 | -2,036.64 | 2,120.30 | 0.00 | 0.00 | 0.00 | |
| 9,600.00 | 90.00 | 268.47 | 7,254.00 | -863.43 | -2,136.60 | 2,219.93 | 0.00 | 0.00 | 0.00 | |
| 9,700.00 | 90.00 | 268.47 | 7,254.00 | -866.09 | -2,236.57 | 2,319.57 | 0.00 | 0.00 | 0.00 | |
| 9,800.00 | 90.00 | 268.47 | 7,254.00 | -868.76 | -2,336.53 | 2,419.20 | 0.00 | 0.00 | 0.00 | |
| 9,900.00 | 90.00 | 268.47 | 7,254.00 | -871.43 | -2,436.50 | 2,518.83 | 0.00 | 0.00 | 0.00 | |
| 10,000.00 | 90.00 | 268.47 | 7,254.00 | -874.09 | -2,536.46 | 2,618.47 | 0.00 | 0.00 | 0.00 | |
| 10,100.00 | 90.00 | 268.47 | 7,254.00 | -876.76 | -2,636.43 | 2,718.10 | 0.00 | 0.00 | 0.00 | |
| 10,200.00 | 90.00 | 268.47 | 7,254.00 | -879.43 | -2,736.39 | 2,817.73 | 0.00 | 0.00 | 0.00 | |
| 10,300.00 | 90.00 | 268.47 | 7,254.00 | -882.09 | -2,836.36 | 2,917.37 | 0.00 | 0.00 | 0.00 | |
| 10,400.00 | 90.00 | 268.47 | 7,254.00 | -884.76 | -2,936.32 | 3,017.00 | 0.00 | 0.00 | 0.00 | |
| 10,500.00 | 90.00 | 268.47 | 7,254.00 | -887.43 | -3,036.28 | 3,116.63 | 0.00 | 0.00 | 0.00 | |
| 10,600.00 | 90.00 | 268.47 | 7,254.00 | -890.10 | -3,136.25 | 3,216.27 | 0.00 | 0.00 | 0.00 | |
| 10,700.00 | 90.00 | 268.47 | 7,254.00 | -892.76 | -3,236.21 | 3,315.90 | 0.00 | 0.00 | 0.00 | |
| 10,800.00 | 90.00 | 268.47 | 7,254.00 | -895.43 | -3,336.18 | 3,415.53 | 0.00 | 0.00 | 0.00 | |
| 10,900.00 | 90.00 | 268.47 | 7,254.00 | -898.10 | -3,436.14 | 3,515.17 | 0.00 | 0.00 | 0.00 | |
| 11,000.00 | 90.00 | 268.47 | 7,254.00 | -900.76 | -3,536.11 | 3,614.80 | 0.00 | 0.00 | 0.00 | |
| 11,100.00 | 90.00 | 268.47 | 7,254.00 | -903.43 | -3,636.07 | 3,714.43 | 0.00 | 0.00 | 0.00 | |
| 11,200.00 | 90.00 | 268.47 | 7,254.00 | -906.10 | -3,736.04 | 3,814.07 | 0.00 | 0.00 | 0.00 | |
| 11,300.00 | 90.00 | 268.47 | 7,254.00 | -908.76 | -3,836.00 | 3,913.70 | 0.00 | 0.00 | 0.00 | |
| 11,400.00 | 90.00 | 268.47 | 7,254.00 | -911.43 | -3,935.96 | 4,013.33 | 0.00 | 0.00 | 0.00 | |
| 11,500.00 | 90.00 | 268.47 | 7,254.00 | -914.10 | -4,035.93 | 4,112.97 | 0.00 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well VIC WEST 20W-20-02 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 29' @ 5035.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 29' @ 5035.00usft |
| Site: | SEC 20-T7N-R67W | North Reference: | True |
| Well: | VIC WEST 20W-20-02 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 11,600.00 | 90.00 | 268.47 | 7,254.00 | -916.76 | -4,135.89 | 4,212.60 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.00 | 268.47 | 7,254.00 | -919.43 | -4,235.86 | 4,312.23 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.00 | 268.47 | 7,254.00 | -922.10 | -4,335.82 | 4,411.87 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.00 | 268.47 | 7,254.00 | -924.77 | -4,435.79 | 4,511.50 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.00 | 268.47 | 7,254.00 | -927.43 | -4,535.75 | 4,611.13 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.00 | 268.47 | 7,254.00 | -930.10 | -4,635.72 | 4,710.77 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.00 | 268.47 | 7,254.00 | -932.77 | -4,735.68 | 4,810.40 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.00 | 268.47 | 7,254.00 | -935.43 | -4,835.64 | 4,910.03 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.00 | 268.47 | 7,254.00 | -938.10 | -4,935.61 | 5,009.66 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.00 | 268.47 | 7,254.00 | -940.77 | -5,035.57 | 5,109.30 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.00 | 268.47 | 7,254.00 | -943.43 | -5,135.54 | 5,208.93 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.00 | 268.47 | 7,254.00 | -946.10 | -5,235.50 | 5,308.56 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.00 | 268.47 | 7,254.00 | -948.77 | -5,335.47 | 5,408.20 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.00 | 268.47 | 7,254.00 | -951.44 | -5,435.43 | 5,507.83 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.00 | 268.47 | 7,254.00 | -954.10 | -5,535.40 | 5,607.46 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 268.47 | 7,254.00 | -956.77 | -5,635.36 | 5,707.10 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.00 | 268.47 | 7,254.00 | -959.44 | -5,735.32 | 5,806.73 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.00 | 268.47 | 7,254.00 | -962.10 | -5,835.29 | 5,906.36 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.00 | 268.47 | 7,254.00 | -964.77 | -5,935.25 | 6,006.00 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.00 | 268.47 | 7,254.00 | -967.44 | -6,035.22 | 6,105.63 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.00 | 268.47 | 7,254.00 | -970.10 | -6,135.18 | 6,205.26 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 268.47 | 7,254.00 | -972.77 | -6,235.15 | 6,304.90 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 268.47 | 7,254.00 | -975.44 | -6,335.11 | 6,404.53 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 268.47 | 7,254.00 | -978.10 | -6,435.08 | 6,504.16 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 268.47 | 7,254.00 | -980.77 | -6,535.04 | 6,603.80 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 268.47 | 7,254.00 | -983.44 | -6,635.00 | 6,703.43 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.00 | 268.47 | 7,254.00 | -986.11 | -6,734.97 | 6,803.06 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.00 | 268.47 | 7,254.00 | -988.77 | -6,834.93 | 6,902.70 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.00 | 268.47 | 7,254.00 | -991.44 | -6,934.90 | 7,002.33 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.00 | 268.47 | 7,254.00 | -994.11 | -7,034.86 | 7,101.96 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.00 | 268.47 | 7,254.00 | -996.77 | -7,134.83 | 7,201.60 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.00 | 268.47 | 7,254.00 | -999.44 | -7,234.79 | 7,301.23 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.00 | 268.47 | 7,254.00 | -1,002.11 | -7,334.76 | 7,400.86 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.00 | 268.47 | 7,254.00 | -1,004.77 | -7,434.72 | 7,500.50 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.00 | 268.47 | 7,254.00 | -1,007.44 | -7,534.68 | 7,600.13 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.00 | 268.47 | 7,254.00 | -1,010.11 | -7,634.65 | 7,699.76 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.00 | 268.47 | 7,254.00 | -1,012.78 | -7,734.61 | 7,799.40 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.00 | 268.47 | 7,254.00 | -1,015.44 | -7,834.58 | 7,899.03 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.00 | 268.47 | 7,254.00 | -1,018.11 | -7,934.54 | 7,998.66 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.00 | 268.47 | 7,254.00 | -1,020.78 | -8,034.51 | 8,098.29 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.00 | 268.47 | 7,254.00 | -1,023.44 | -8,134.47 | 8,197.93 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 90.00 | 268.47 | 7,254.00 | -1,026.11 | -8,234.44 | 8,297.56 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 90.00 | 268.47 | 7,254.00 | -1,028.78 | -8,334.40 | 8,397.19 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 90.00 | 268.47 | 7,254.00 | -1,031.44 | -8,434.36 | 8,496.83 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 90.00 | 268.47 | 7,254.00 | -1,034.11 | -8,534.33 | 8,596.46 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 90.00 | 268.47 | 7,254.00 | -1,036.78 | -8,634.29 | 8,696.09 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 90.00 | 268.47 | 7,254.00 | -1,039.44 | -8,734.26 | 8,795.73 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 90.00 | 268.47 | 7,254.00 | -1,042.11 | -8,834.22 | 8,895.36 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 90.00 | 268.47 | 7,254.00 | -1,044.78 | -8,934.19 | 8,994.99 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 90.00 | 268.47 | 7,254.00 | -1,047.45 | -9,034.15 | 9,094.63 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 90.00 | 268.47 | 7,254.00 | -1,050.11 | -9,134.12 | 9,194.26 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 90.00 | 268.47 | 7,254.00 | -1,052.78 | -9,234.08 | 9,293.89 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 90.00 | 268.47 | 7,254.00 | -1,055.45 | -9,334.04 | 9,393.53 | 0.00 | 0.00 | 0.00 |
| 16,827.39 | 90.00 | 268.47 | 7,254.00 | -1,056.18 | -9,361.42 | 9,420.81 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|----------------------------|-------------------------------------|-------------------------|
| Database: | EDM 5000.16 Single User Db | Local Co-ordinate Reference: | Well VIC WEST 20W-20-02 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 29' @ 5035.00usft |
| Project: | WELD COUNTY | MD Reference: | KB 29' @ 5035.00usft |
| Site: | SEC 20-T7N-R67W | North Reference: | True |
| Well: | VIC WEST 20W-20-02 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PROPOSAL 1 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| TD at 16827.39 | | | | | | | | | |

| Design Targets | | | | | | | | | |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-------------|--------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| VIC WEST 20W-02-PB1 - plan hits target center - Point | 0.00 | 0.00 | 7,254.00 | -1,056.18 | -9,361.42 | 1,446,612.82 | 3,154,911.87 | 40.558015°N | 104.942481°W |
| VIC WEST 20W-02-LP - plan hits target center - Point | 0.00 | 0.00 | 7,254.00 | -811.32 | -183.39 | 1,446,918.87 | 3,164,088.07 | 40.558692°N | 104.909450°W |

| Formations | | | | | | |
|-----------------------|-----------------------|----------------------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 804.00 | 804.00 | Fox Hills Base: | | | | |
| 3,523.63 | 3,499.00 | Parkman: | | | | |
| 4,064.58 | 4,034.00 | Sussex: | | | | |
| 4,640.92 | 4,604.00 | Shannon: | | | | |
| 6,973.92 | 6,906.00 | Sharon Springs (Confining Zone): | | | | |
| 6,995.99 | 6,926.00 | Niobrara: | | | | |
| 7,015.06 | 6,943.00 | A Chalk: | | | | |
| 7,039.08 | 6,964.00 | A Marl: | | | | |
| 7,136.76 | 7,044.00 | B2 Chalk: | | | | |
| 7,183.86 | 7,079.00 | B Marl: | | | | |
| 7,242.75 | 7,119.00 | C Chalk: | | | | |
| 7,319.11 | 7,164.00 | C Marl: | | | | |
| 7,459.03 | 7,224.00 | Ft Hays (Confining Zone): | | | | |
| 7,538.41 | 7,244.00 | Codell: | | | | |
| 7,646.09 | 7,254.00 | Landing Point: | | | | |

| Plan Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 1,000.00 | 1,000.00 | 0.00 | 0.00 | Start Build 2.00 |
| 1,425.23 | 1,423.67 | -27.72 | 14.96 | Start 5282.60 hold at 1425.23 MD |
| 6,707.83 | 6,648.18 | -715.26 | 385.93 | Start DLS 10.00 TFO 116.57 |
| 7,646.09 | 7,254.00 | -811.32 | -183.39 | Start 9181.30 hold at 7646.09 MD |
| 16,827.39 | 7,254.00 | -1,056.18 | -9,361.42 | TD at 16827.39 |