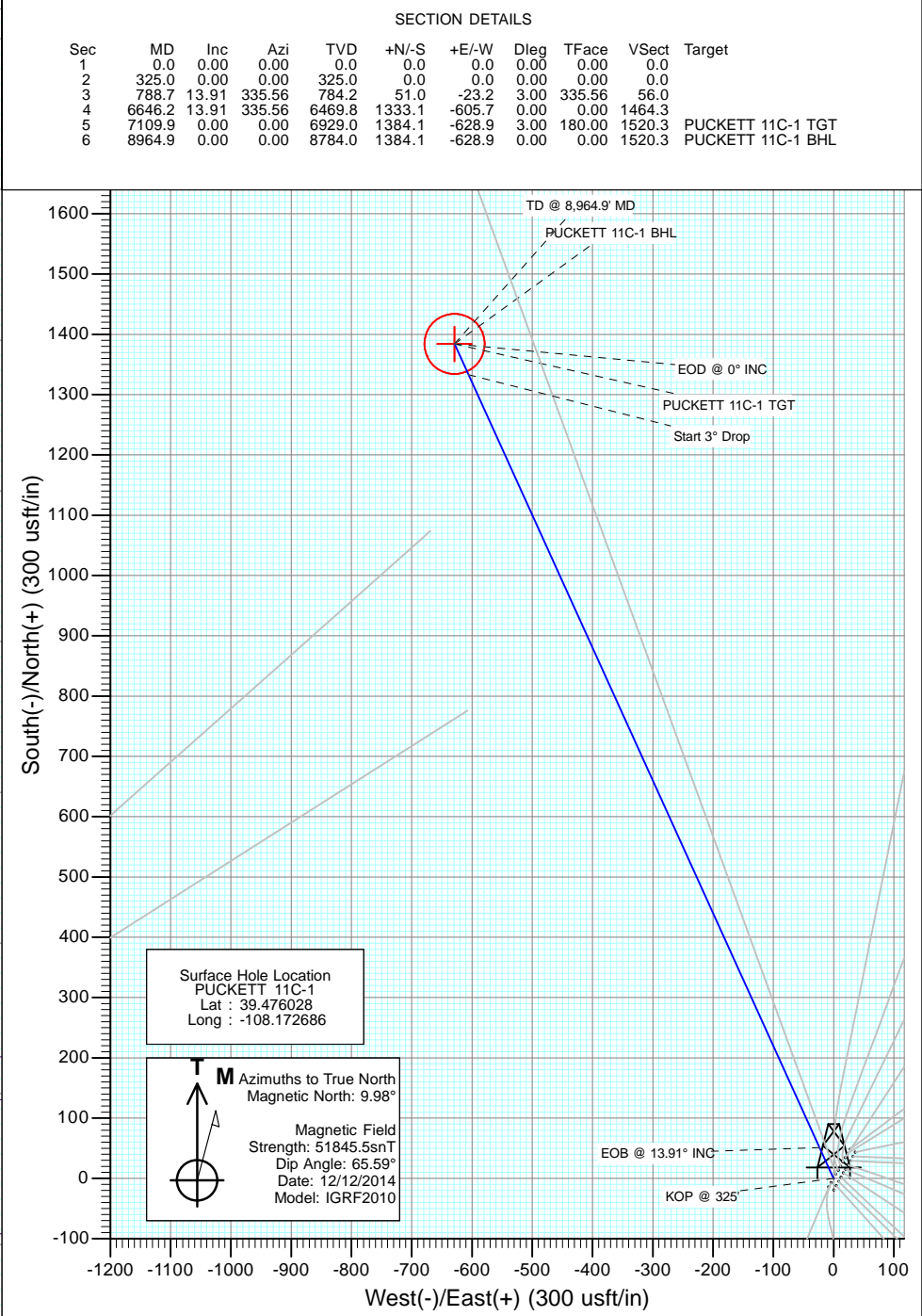
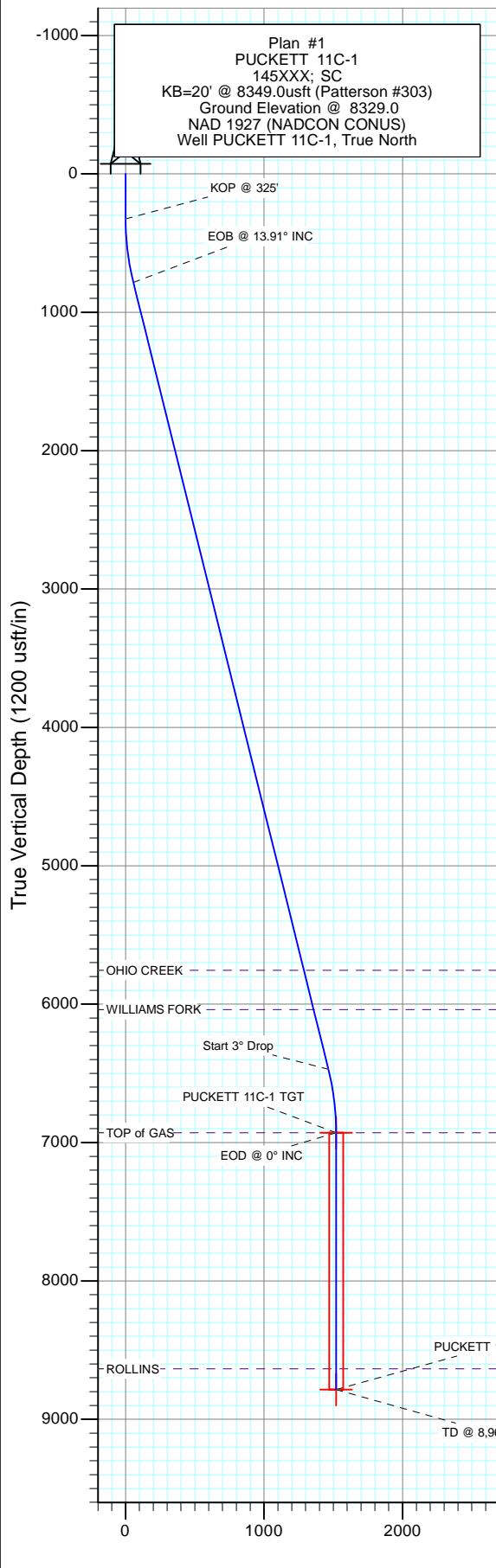


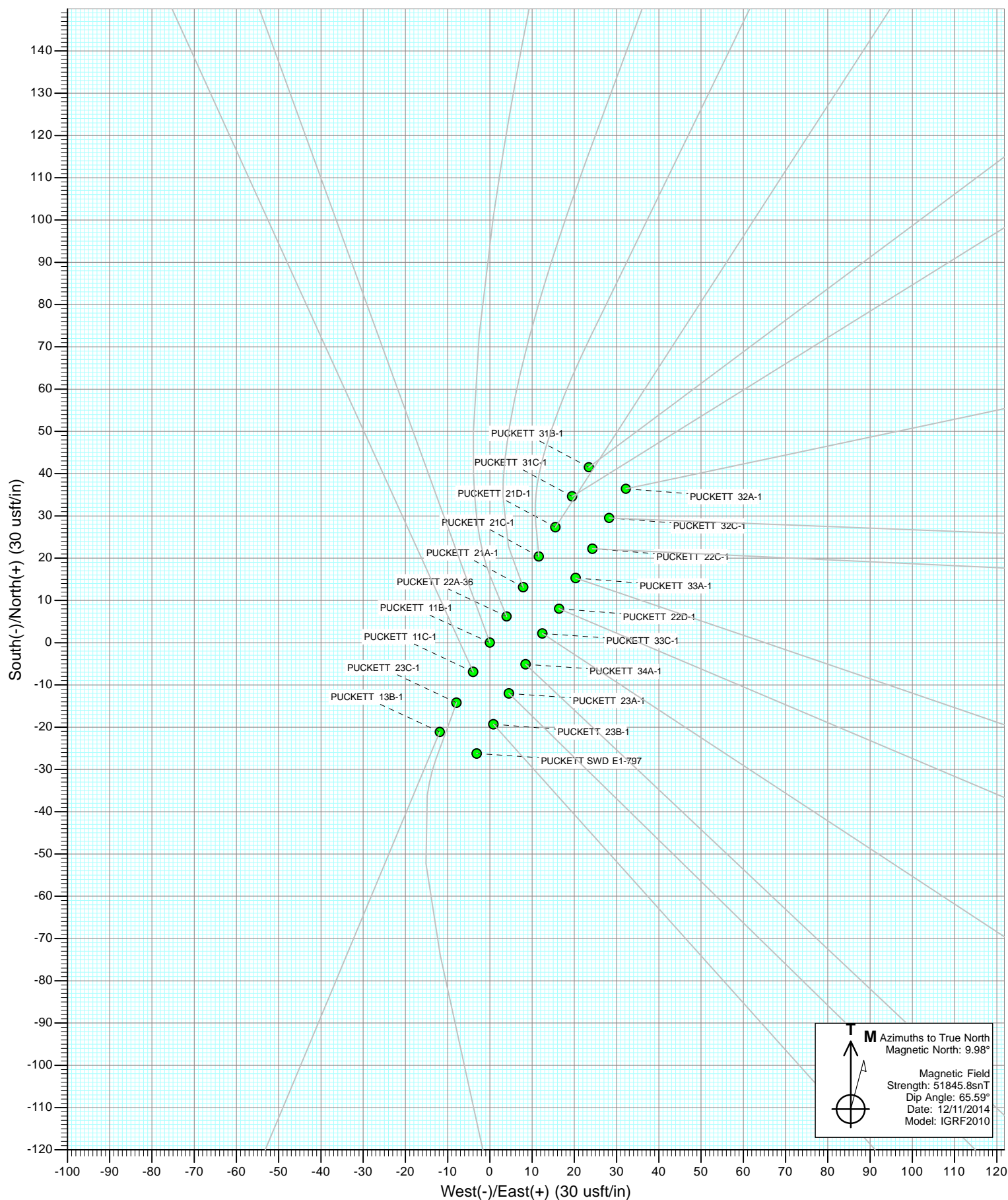


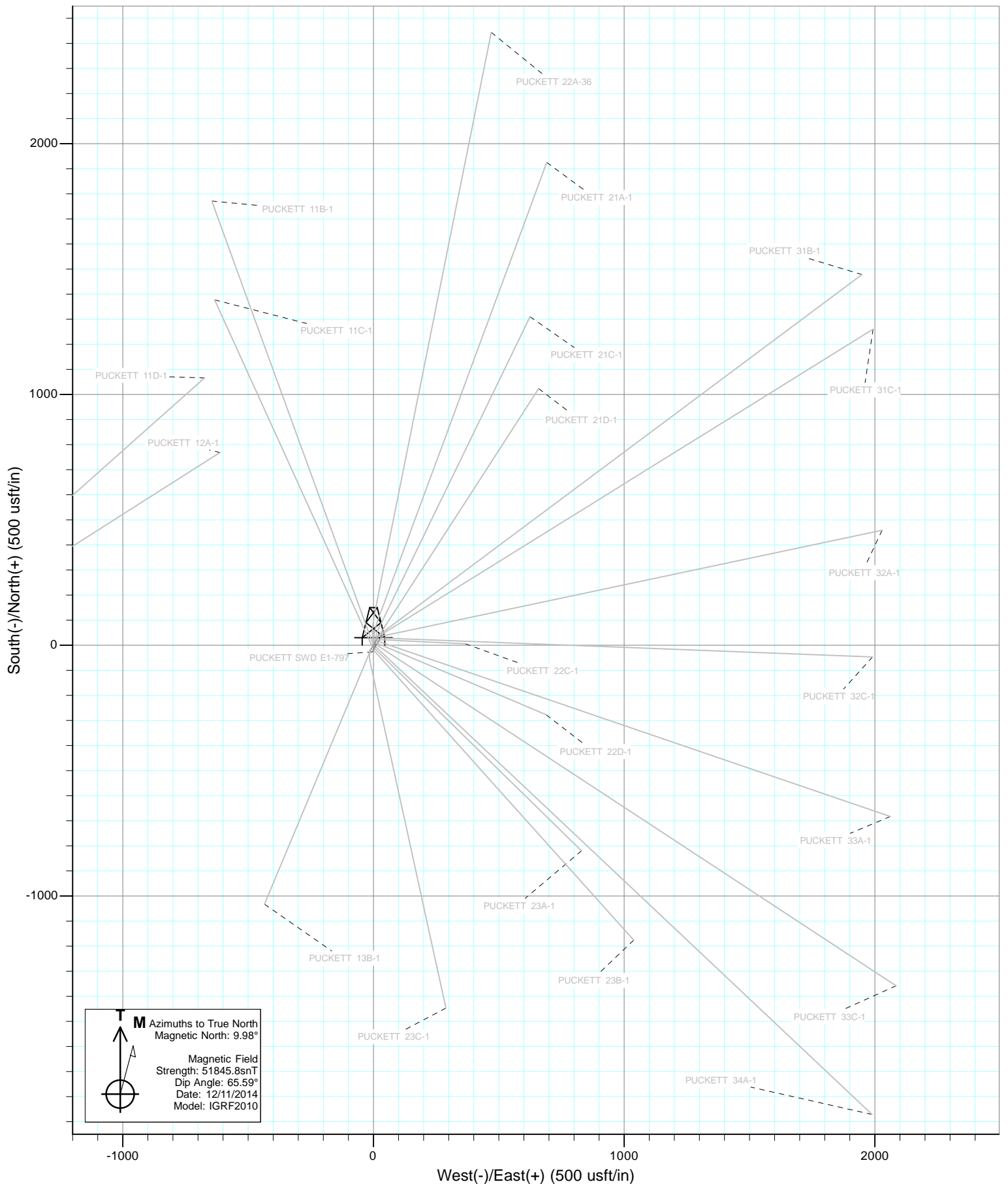
Project: Garfield County, CO
 Site: S1-T7S-R97W (Mesa E1 797)
 Well: PUCKETT 11C-1
 Wellbore: DD
 Design: Plan #1



DESIGN TARGET DETAILS

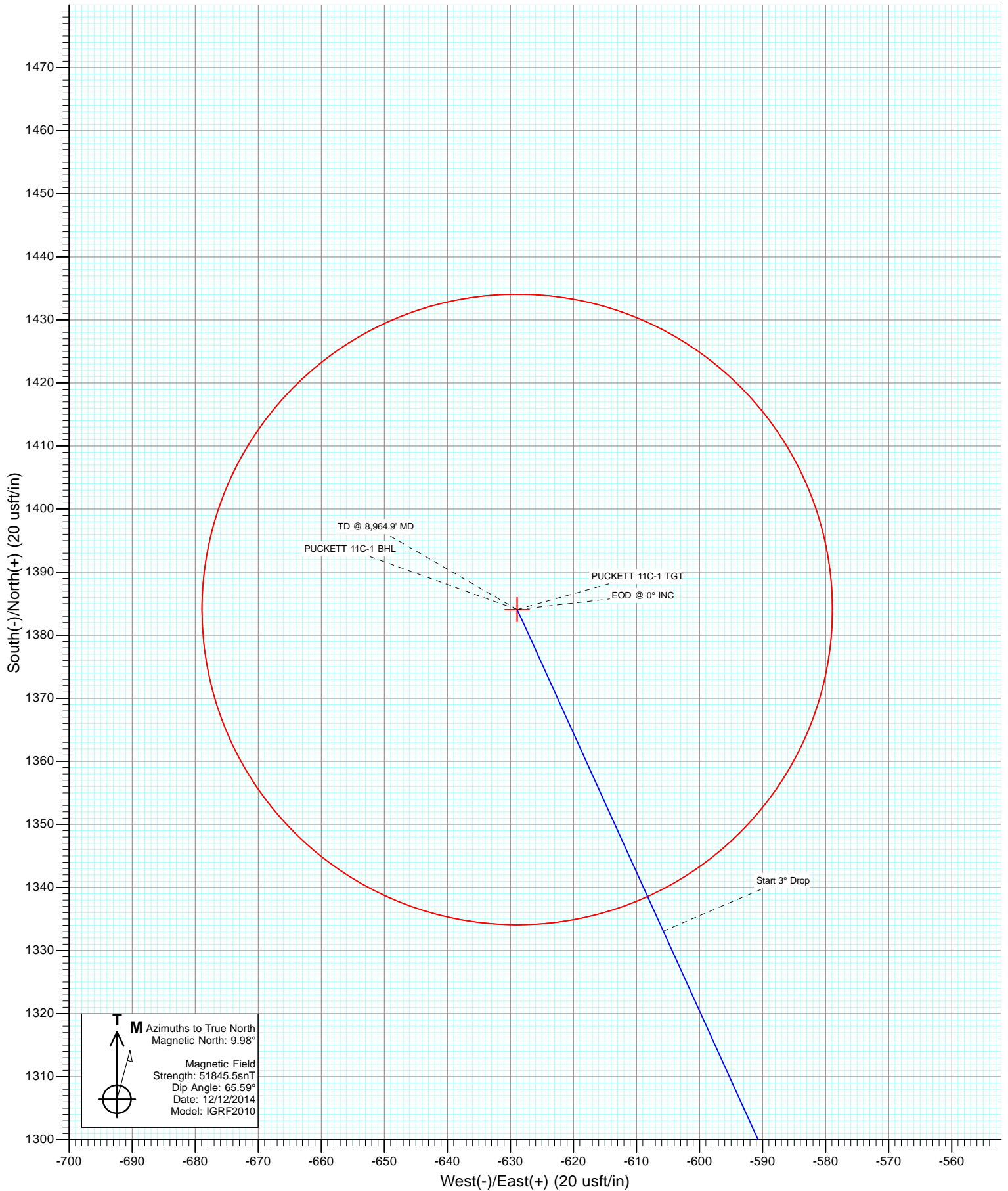
| Name | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-------------------|--------|--------|-----------|------------|-----------|-------------|
| PUCKETT 11C-1 TGT | 1384.1 | -628.9 | 610759.46 | 1245054.08 | 39.479828 | -108.174914 |
| PUCKETT 11C-1 BHL | 1384.1 | -628.9 | 610759.46 | 1245054.08 | 39.479828 | -108.174914 |







Project: Garfield County, CO
Site: S1-T7S-R97W (Mesa E1 797)
Well: PUCKETT 11C-1
Wellbore: DD
Design: Plan #1



Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Company: | Caerus Oil & Gas (NAD 27) | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Project: | Garfield County, CO | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site: | S1-T7S-R97W (Mesa E1 797) | North Reference: | True |
| Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| | | | |
|--------------------|--------------------------------------|----------------------|----------------|
| Project | Garfield County, CO | | |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum: | NAD 1927 (NADCON CONUS) | | |
| Map Zone: | Colorado Central 502 | | |

| | | | | | |
|-----------------------|----------|---------------------------|-------------------|-------------------|-------------|
| Site | | S1-T7S-R97W (Mesa E1 797) | | | |
| Site Position: | | Northing: | 609,370.34 usft | Latitude: | 39.476064 |
| From: | Lat/Long | Easting: | 1,245,650.28 usft | Longitude: | -108.172658 |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16" | Grid Convergence: | -1.69 ° |

| | | | | | | |
|----------------------|---------------|----------|---------------------|-------------------|---------------|--------------|
| Well | PUCKETT 11C-1 | | | | | |
| Well Position | +N/-S | 0.0 usft | Northing: | 609,357.46 usft | Latitude: | 39.476028 |
| | +E/-W | 0.0 usft | Easting: | 1,245,642.00 usft | Longitude: | -108.172686 |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | 0.0 usft | Ground Level: | 8,329.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 12/12/2014 | 9.98 | 65.59 | 51,846 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|--|
| Design | Plan #1 | | | | |
| Audit Notes: | | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 | |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 335.56 | |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|-------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 325.0 | 0.00 | 0.00 | 325.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 788.7 | 13.91 | 335.56 | 784.2 | 51.0 | -23.2 | 3.00 | 3.00 | 0.00 | 335.56 | |
| 6,646.2 | 13.91 | 335.56 | 6,469.8 | 1,333.1 | -605.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,109.9 | 0.00 | 0.00 | 6,929.0 | 1,384.1 | -628.9 | 3.00 | -3.00 | 0.00 | 180.00 | PUCKETT 11C-1 TG1 |
| 8,964.9 | 0.00 | 0.00 | 8,784.0 | 1,384.1 | -628.9 | 0.00 | 0.00 | 0.00 | 0.00 | PUCKETT 11C-1 BHL |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Company: | Caerus Oil & Gas (NAD 27) | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Project: | Garfield County, CO | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site: | S1-T7S-R97W (Mesa E1 797) | North Reference: | True |
| Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100u) | Comments / Formations |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|-----------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 325.0 | 0.00 | 0.00 | 325.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 325' |
| 400.0 | 2.25 | 335.56 | 400.0 | 1.3 | -0.6 | 1.5 | 3.00 | 3.00 | |
| 500.0 | 5.25 | 335.56 | 499.8 | 7.3 | -3.3 | 8.0 | 3.00 | 3.00 | |
| 600.0 | 8.25 | 335.56 | 599.1 | 18.0 | -8.2 | 19.8 | 3.00 | 3.00 | |
| 700.0 | 11.25 | 335.56 | 697.6 | 33.4 | -15.2 | 36.7 | 3.00 | 3.00 | |
| 788.7 | 13.91 | 335.56 | 784.2 | 51.0 | -23.2 | 56.0 | 3.00 | 3.00 | EOB @ 13.91° INC |
| 800.0 | 13.91 | 335.56 | 795.1 | 53.5 | -24.3 | 58.7 | 0.00 | 0.00 | |
| 900.0 | 13.91 | 335.56 | 892.2 | 75.4 | -34.2 | 82.8 | 0.00 | 0.00 | |
| 1,000.0 | 13.91 | 335.56 | 989.3 | 97.2 | -44.2 | 106.8 | 0.00 | 0.00 | |
| 1,100.0 | 13.91 | 335.56 | 1,086.3 | 119.1 | -54.1 | 130.9 | 0.00 | 0.00 | |
| 1,200.0 | 13.91 | 335.56 | 1,183.4 | 141.0 | -64.1 | 154.9 | 0.00 | 0.00 | |
| 1,300.0 | 13.91 | 335.56 | 1,280.5 | 162.9 | -74.0 | 178.9 | 0.00 | 0.00 | |
| 1,400.0 | 13.91 | 335.56 | 1,377.5 | 184.8 | -84.0 | 203.0 | 0.00 | 0.00 | |
| 1,500.0 | 13.91 | 335.56 | 1,474.6 | 206.7 | -93.9 | 227.0 | 0.00 | 0.00 | |
| 1,600.0 | 13.91 | 335.56 | 1,571.7 | 228.6 | -103.9 | 251.1 | 0.00 | 0.00 | |
| 1,700.0 | 13.91 | 335.56 | 1,668.7 | 250.5 | -113.8 | 275.1 | 0.00 | 0.00 | |
| 1,800.0 | 13.91 | 335.56 | 1,765.8 | 272.4 | -123.8 | 299.2 | 0.00 | 0.00 | |
| 1,900.0 | 13.91 | 335.56 | 1,862.9 | 294.2 | -133.7 | 323.2 | 0.00 | 0.00 | |
| 2,000.0 | 13.91 | 335.56 | 1,959.9 | 316.1 | -143.6 | 347.2 | 0.00 | 0.00 | |
| 2,100.0 | 13.91 | 335.56 | 2,057.0 | 338.0 | -153.6 | 371.3 | 0.00 | 0.00 | |
| 2,200.0 | 13.91 | 335.56 | 2,154.1 | 359.9 | -163.5 | 395.3 | 0.00 | 0.00 | |
| 2,300.0 | 13.91 | 335.56 | 2,251.1 | 381.8 | -173.5 | 419.4 | 0.00 | 0.00 | |
| 2,400.0 | 13.91 | 335.56 | 2,348.2 | 403.7 | -183.4 | 443.4 | 0.00 | 0.00 | |
| 2,500.0 | 13.91 | 335.56 | 2,445.3 | 425.6 | -193.4 | 467.4 | 0.00 | 0.00 | |
| 2,600.0 | 13.91 | 335.56 | 2,542.3 | 447.5 | -203.3 | 491.5 | 0.00 | 0.00 | |
| 2,700.0 | 13.91 | 335.56 | 2,639.4 | 469.3 | -213.3 | 515.5 | 0.00 | 0.00 | |
| 2,800.0 | 13.91 | 335.56 | 2,736.5 | 491.2 | -223.2 | 539.6 | 0.00 | 0.00 | |
| 2,900.0 | 13.91 | 335.56 | 2,833.5 | 513.1 | -233.2 | 563.6 | 0.00 | 0.00 | |
| 3,000.0 | 13.91 | 335.56 | 2,930.6 | 535.0 | -243.1 | 587.7 | 0.00 | 0.00 | |
| 3,100.0 | 13.91 | 335.56 | 3,027.7 | 556.9 | -253.0 | 611.7 | 0.00 | 0.00 | |
| 3,200.0 | 13.91 | 335.56 | 3,124.7 | 578.8 | -263.0 | 635.7 | 0.00 | 0.00 | |
| 3,300.0 | 13.91 | 335.56 | 3,221.8 | 600.7 | -272.9 | 659.8 | 0.00 | 0.00 | |
| 3,400.0 | 13.91 | 335.56 | 3,318.9 | 622.6 | -282.9 | 683.8 | 0.00 | 0.00 | |
| 3,500.0 | 13.91 | 335.56 | 3,415.9 | 644.5 | -292.8 | 707.9 | 0.00 | 0.00 | |
| 3,600.0 | 13.91 | 335.56 | 3,513.0 | 666.3 | -302.8 | 731.9 | 0.00 | 0.00 | |
| 3,700.0 | 13.91 | 335.56 | 3,610.1 | 688.2 | -312.7 | 755.9 | 0.00 | 0.00 | |
| 3,800.0 | 13.91 | 335.56 | 3,707.1 | 710.1 | -322.7 | 780.0 | 0.00 | 0.00 | |
| 3,900.0 | 13.91 | 335.56 | 3,804.2 | 732.0 | -332.6 | 804.0 | 0.00 | 0.00 | |
| 4,000.0 | 13.91 | 335.56 | 3,901.3 | 753.9 | -342.6 | 828.1 | 0.00 | 0.00 | |
| 4,100.0 | 13.91 | 335.56 | 3,998.3 | 775.8 | -352.5 | 852.1 | 0.00 | 0.00 | |
| 4,200.0 | 13.91 | 335.56 | 4,095.4 | 797.7 | -362.4 | 876.2 | 0.00 | 0.00 | |
| 4,300.0 | 13.91 | 335.56 | 4,192.5 | 819.6 | -372.4 | 900.2 | 0.00 | 0.00 | |
| 4,400.0 | 13.91 | 335.56 | 4,289.5 | 841.4 | -382.3 | 924.2 | 0.00 | 0.00 | |
| 4,500.0 | 13.91 | 335.56 | 4,386.6 | 863.3 | -392.3 | 948.3 | 0.00 | 0.00 | |
| 4,600.0 | 13.91 | 335.56 | 4,483.7 | 885.2 | -402.2 | 972.3 | 0.00 | 0.00 | |
| 4,700.0 | 13.91 | 335.56 | 4,580.7 | 907.1 | -412.2 | 996.4 | 0.00 | 0.00 | |
| 4,800.0 | 13.91 | 335.56 | 4,677.8 | 929.0 | -422.1 | 1,020.4 | 0.00 | 0.00 | |
| 4,900.0 | 13.91 | 335.56 | 4,774.9 | 950.9 | -432.1 | 1,044.4 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Company: | Caerus Oil & Gas (NAD 27) | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Project: | Garfield County, CO | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site: | S1-T7S-R97W (Mesa E1 797) | North Reference: | True |
| Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|---------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100u) | Comments / Formations |
| 5,000.0 | 13.91 | 335.56 | 4,871.9 | 972.8 | -442.0 | 1,068.5 | 0.00 | 0.00 | |
| 5,100.0 | 13.91 | 335.56 | 4,969.0 | 994.7 | -452.0 | 1,092.5 | 0.00 | 0.00 | |
| 5,200.0 | 13.91 | 335.56 | 5,066.1 | 1,016.6 | -461.9 | 1,116.6 | 0.00 | 0.00 | |
| 5,300.0 | 13.91 | 335.56 | 5,163.1 | 1,038.4 | -471.8 | 1,140.6 | 0.00 | 0.00 | |
| 5,400.0 | 13.91 | 335.56 | 5,260.2 | 1,060.3 | -481.8 | 1,164.7 | 0.00 | 0.00 | |
| 5,500.0 | 13.91 | 335.56 | 5,357.3 | 1,082.2 | -491.7 | 1,188.7 | 0.00 | 0.00 | |
| 5,600.0 | 13.91 | 335.56 | 5,454.3 | 1,104.1 | -501.7 | 1,212.7 | 0.00 | 0.00 | |
| 5,700.0 | 13.91 | 335.56 | 5,551.4 | 1,126.0 | -511.6 | 1,236.8 | 0.00 | 0.00 | |
| 5,800.0 | 13.91 | 335.56 | 5,648.5 | 1,147.9 | -521.6 | 1,260.8 | 0.00 | 0.00 | |
| 5,900.0 | 13.91 | 335.56 | 5,745.5 | 1,169.8 | -531.5 | 1,284.9 | 0.00 | 0.00 | |
| 5,908.7 | 13.91 | 335.56 | 5,754.0 | 1,171.7 | -532.4 | 1,287.0 | 0.00 | 0.00 | OHIO CREEK |
| 6,000.0 | 13.91 | 335.56 | 5,842.6 | 1,191.7 | -541.5 | 1,308.9 | 0.00 | 0.00 | |
| 6,100.0 | 13.91 | 335.56 | 5,939.7 | 1,213.5 | -551.4 | 1,333.0 | 0.00 | 0.00 | |
| 6,200.0 | 13.91 | 335.56 | 6,036.7 | 1,235.4 | -561.4 | 1,357.0 | 0.00 | 0.00 | |
| 6,202.3 | 13.91 | 335.56 | 6,039.0 | 1,235.9 | -561.6 | 1,357.6 | 0.00 | 0.00 | WILLIAMS FORK |
| 6,300.0 | 13.91 | 335.56 | 6,133.8 | 1,257.3 | -571.3 | 1,381.0 | 0.00 | 0.00 | |
| 6,400.0 | 13.91 | 335.56 | 6,230.9 | 1,279.2 | -581.2 | 1,405.1 | 0.00 | 0.00 | |
| 6,500.0 | 13.91 | 335.56 | 6,327.9 | 1,301.1 | -591.2 | 1,429.1 | 0.00 | 0.00 | |
| 6,600.0 | 13.91 | 335.56 | 6,425.0 | 1,323.0 | -601.1 | 1,453.2 | 0.00 | 0.00 | |
| 6,646.2 | 13.91 | 335.56 | 6,469.8 | 1,333.1 | -605.7 | 1,464.3 | 0.00 | 0.00 | Start 3° Drop |
| 6,700.0 | 12.30 | 335.56 | 6,522.3 | 1,344.2 | -610.8 | 1,476.5 | 3.00 | -3.00 | |
| 6,800.0 | 9.30 | 335.56 | 6,620.5 | 1,361.3 | -618.5 | 1,495.2 | 3.00 | -3.00 | |
| 6,900.0 | 6.30 | 335.56 | 6,719.5 | 1,373.6 | -624.1 | 1,508.8 | 3.00 | -3.00 | |
| 7,000.0 | 3.30 | 335.56 | 6,819.2 | 1,381.2 | -627.6 | 1,517.1 | 3.00 | -3.00 | |
| 7,109.9 | 0.00 | 0.00 | 6,929.0 | 1,384.1 | -628.9 | 1,520.3 | 3.00 | -3.00 | EOD @ 0° INC - TOP of GAS |
| 7,200.0 | 0.00 | 0.00 | 7,019.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 7,300.0 | 0.00 | 0.00 | 7,119.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 7,400.0 | 0.00 | 0.00 | 7,219.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 7,500.0 | 0.00 | 0.00 | 7,319.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 7,600.0 | 0.00 | 0.00 | 7,419.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 7,700.0 | 0.00 | 0.00 | 7,519.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 7,800.0 | 0.00 | 0.00 | 7,619.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 7,900.0 | 0.00 | 0.00 | 7,719.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 8,000.0 | 0.00 | 0.00 | 7,819.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 8,100.0 | 0.00 | 0.00 | 7,919.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 8,200.0 | 0.00 | 0.00 | 8,019.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 8,300.0 | 0.00 | 0.00 | 8,119.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 8,400.0 | 0.00 | 0.00 | 8,219.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 8,500.0 | 0.00 | 0.00 | 8,319.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 8,600.0 | 0.00 | 0.00 | 8,419.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 8,700.0 | 0.00 | 0.00 | 8,519.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 8,800.0 | 0.00 | 0.00 | 8,619.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 8,814.9 | 0.00 | 0.00 | 8,634.0 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | ROLLINS |
| 8,900.0 | 0.00 | 0.00 | 8,719.1 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | |
| 8,964.9 | 0.00 | 0.00 | 8,784.0 | 1,384.1 | -628.9 | 1,520.3 | 0.00 | 0.00 | TD @ 8,964.9' MD |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Company: | Caerus Oil & Gas (NAD 27) | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Project: | Garfield County, CO | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site: | S1-T7S-R97W (Mesa E1 797) | North Reference: | True |
| Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| Targets | | | | | | | | | |
|---------------------------|-----------|----------|---------|---------|--------|------------|--------------|-----------|-------------|
| Target Name | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - hit/miss target | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (usft) | | |
| - Shape | | | | | | | | | |
| PUCKETT 11C-1 BHL | 0.00 | 0.00 | 8,784.0 | 1,384.1 | -628.9 | 610,759.46 | 1,245,054.08 | 39.479828 | -108.174914 |
| - plan hits target center | | | | | | | | | |
| - Circle (radius 50.0) | | | | | | | | | |
| PUCKETT 11C-1 TGT | 0.00 | 0.00 | 6,929.0 | 1,384.1 | -628.9 | 610,759.46 | 1,245,054.08 | 39.479828 | -108.174914 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Formations | | | | | | |
|----------------|----------------|---------------|-----------|-----|---------------|--|
| Measured Depth | Vertical Depth | Name | Lithology | Dip | Dip Direction | |
| (usft) | (usft) | | | (°) | (°) | |
| 5,908.7 | 5,754.0 | OHIO CREEK | | | | |
| 6,202.3 | 6,039.0 | WILLIAMS FORK | | | | |
| 7,109.9 | 6,929.0 | TOP of GAS | | | | |
| 8,814.9 | 8,634.0 | ROLLINS | | | | |

| Plan Annotations | | | | |
|------------------|----------------|-------------------|--------------|------------------|
| Measured Depth | Vertical Depth | Local Coordinates | | Comment |
| (usft) | (usft) | +N/-S (usft) | +E/-W (usft) | |
| 325.0 | 325.0 | 0.0 | 0.0 | KOP @ 325' |
| 788.7 | 784.2 | 51.0 | -23.2 | EOB @ 13.91° INC |
| 6,646.2 | 6,469.8 | 1,333.1 | -605.7 | Start 3° Drop |
| 7,109.9 | 6,929.0 | 1,384.1 | -628.9 | EOD @ 0° INC |
| 8,964.9 | 8,784.0 | 1,384.1 | -628.9 | TD @ 8,964.9' MD |

Caerus Oil & Gas (NAD 27)

Garfield County, CO

S1-T7S-R97W (Mesa E1 797)

PUCKETT 11C-1

DD

Plan #1

Anticollision Report

16 December, 2014

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Reference | Plan #1 | | |
|------------------------------|---|----------------|---------------------|
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.0usft | Error Model: | ISCWSA |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 200.0usft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| Survey Tool Program | | Date | 12/12/2014 | | |
|---------------------|--------------|-------------------|------------|----------------|--|
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 8,964.9 | Plan #1 (DD) | ISCWSA MWD | MWD - Standard | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Summary

| Site Name Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance | | Separation Factor | Warning |
|--|--|---------------------------------------|------------------------------|-------------------------------|----------------------|--------------|
| | | | Between Centres (usft) | Between Ellipses (usft) | | |
| S1-T7S-R97W (Mesa E1 797) | | | | | | |
| PUCKETT 11B-1 - DD - Plan #1 | 200.0 | 200.0 | 8.0 | 7.3 | 12.663 | CC, ES |
| PUCKETT 11B-1 - DD - Plan #1 | 300.0 | 299.6 | 9.9 | 8.8 | 9.115 | SF |
| PUCKETT 13B-1 - DD - Plan #1 | 200.0 | 200.0 | 16.3 | 15.6 | 25.830 | CC, ES |
| PUCKETT 13B-1 - DD - Plan #1 | 300.0 | 299.1 | 18.8 | 17.8 | 17.741 | SF |
| PUCKETT 21A-1 - HZ - Plan #1 | 300.0 | 300.0 | 23.3 | 22.2 | 21.576 | CC, ES |
| PUCKETT 21A-1 - HZ - Plan #1 | 700.0 | 694.9 | 33.8 | 30.6 | 10.805 | SF |
| PUCKETT 21C-1 - DD - Plan #1 | 410.2 | 409.4 | 31.1 | 29.5 | 19.600 | CC, ES |
| PUCKETT 21C-1 - DD - Plan #1 | 700.0 | 693.9 | 40.7 | 37.7 | 13.288 | SF |
| PUCKETT 21D-1 - DD - Plan #1 | 473.0 | 471.4 | 37.7 | 35.8 | 20.033 | CC, ES |
| PUCKETT 21D-1 - DD - Plan #1 | 600.0 | 595.4 | 41.4 | 39.0 | 16.725 | SF |
| PUCKETT 22A-36 - DD - Plan #1 | 255.6 | 255.6 | 15.3 | 14.4 | 17.413 | CC |
| PUCKETT 22A-36 - DD - Plan #1 | 300.0 | 299.9 | 15.4 | 14.3 | 14.292 | ES |
| PUCKETT 22A-36 - DD - Plan #1 | 600.0 | 597.4 | 22.4 | 19.7 | 8.576 | SF |
| PUCKETT 22C-1 - DD - Plan #1 | 563.3 | 562.7 | 37.8 | 35.5 | 16.491 | CC, ES |
| PUCKETT 22C-1 - DD - Plan #1 | 700.0 | 695.3 | 46.1 | 43.0 | 15.050 | SF |
| PUCKETT 22D-1 - DD - Plan #1 | 465.8 | 465.7 | 24.7 | 22.9 | 13.509 | CC, ES |
| PUCKETT 22D-1 - DD - Plan #1 | 600.0 | 597.6 | 31.1 | 28.6 | 12.334 | SF |
| PUCKETT 23A-1 - DD - Plan #1 | 300.0 | 300.0 | 9.9 | 8.8 | 9.163 | CC, ES |
| PUCKETT 23A-1 - DD - Plan #1 | 400.0 | 400.0 | 11.1 | 9.6 | 7.156 | SF |
| PUCKETT 23B-1 - DD - Plan #1 | 300.0 | 300.0 | 13.3 | 12.2 | 12.314 | CC, ES |
| PUCKETT 23B-1 - DD - Plan #1 | 400.0 | 400.0 | 14.8 | 13.2 | 9.429 | SF |
| PUCKETT 23C-1 - DD - Plan #1 | 300.0 | 300.0 | 8.3 | 7.2 | 7.685 | CC, ES, SF |
| PUCKETT 31B-1 - DD - Plan #1 | 200.0 | 200.0 | 55.6 | 55.0 | 88.412 | CC, ES |
| PUCKETT 31B-1 - DD - Plan #1 | 700.0 | 676.5 | 106.3 | 103.2 | 34.024 | SF |
| PUCKETT 31C-1 - DD - Plan #1 | 233.4 | 233.4 | 47.7 | 46.9 | 61.144 | CC, ES |
| PUCKETT 31C-1 - DD - Plan #1 | 600.0 | 588.4 | 70.3 | 67.8 | 27.871 | SF |
| PUCKETT 32A-1 - DD - Plan #1 | 200.0 | 200.0 | 56.4 | 55.8 | 89.646 | CC, ES |
| PUCKETT 32A-1 - DD - Plan #1 | 600.0 | 585.4 | 85.4 | 82.9 | 33.641 | SF |
| PUCKETT 32C-1 - DD - Plan #1 | 300.0 | 300.0 | 48.6 | 47.5 | 45.046 | CC, ES |
| PUCKETT 32C-1 - DD - Plan #1 | 600.0 | 590.7 | 65.5 | 63.0 | 26.216 | SF |
| PUCKETT 33A-1 - DD - Plan #1 | 326.3 | 326.3 | 32.9 | 31.7 | 27.448 | CC, ES |
| PUCKETT 33A-1 - DD - Plan #1 | 500.0 | 497.4 | 37.2 | 35.2 | 18.906 | SF |
| PUCKETT 33C-1 - DD - Plan #1 | 235.1 | 235.1 | 18.7 | 17.9 | 23.802 | CC, ES |
| PUCKETT 33C-1 - DD - Plan #1 | 400.0 | 398.9 | 22.3 | 20.8 | 14.794 | SF |
| PUCKETT 34A-1 - DD - Plan #1 | 300.0 | 300.0 | 12.6 | 11.5 | 11.634 | CC |
| PUCKETT 34A-1 - DD - Plan #1 | 300.0 | 300.0 | 12.6 | 11.5 | 11.625 | ES |
| PUCKETT 34A-1 - DD - Plan #1 | 400.0 | 400.0 | 13.0 | 11.5 | 8.506 | SF |
| PUCKETT SWD E1-797 - VH - Plan #1 | 300.0 | 300.0 | 19.3 | 18.2 | 17.914 | CC, ES |
| PUCKETT SWD E1-797 - VH - Plan #1 | 500.0 | 499.8 | 26.9 | 24.8 | 12.725 | SF |
| S2-T7S-R97W (Puckett Pad H2) | | | | | | |
| PUCKETT 11D-1 - DD - Plan #1 | | | | | | Out of range |
| PUCKETT 12A-1 - DD - Plan #1 | | | | | | Out of range |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 11B-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|---|-----------------|------------------------------|----------------------|---------|---------------|--------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Distance | | Total Uncertainty Axis | Separation Factor | Warning | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.73 | 6.9 | 4.0 | 8.0 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 29.73 | 6.9 | 4.0 | 8.0 | 7.8 | 0.18 | 44.320 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 29.73 | 6.9 | 4.0 | 8.0 | 7.3 | 0.63 | 12.663 CC, ES | | |
| 300.0 | 300.0 | 299.6 | 299.6 | 0.5 | 0.5 | 18.12 | 9.4 | 3.1 | 9.9 | 8.8 | 1.08 | 9.115 SF | | |
| 400.0 | 400.0 | 398.9 | 398.5 | 0.8 | 0.8 | 28.18 | 16.6 | 0.4 | 15.4 | 13.8 | 1.58 | 9.755 | | |
| 500.0 | 499.8 | 497.8 | 496.6 | 1.0 | 1.1 | 22.47 | 28.7 | -4.0 | 21.6 | 19.5 | 2.13 | 10.140 | | |
| 600.0 | 599.1 | 596.3 | 593.5 | 1.3 | 1.4 | 20.13 | 45.4 | -10.1 | 28.1 | 25.3 | 2.73 | 10.294 | | |
| 700.0 | 697.6 | 694.6 | 689.1 | 1.6 | 1.8 | 19.30 | 66.8 | -17.8 | 34.5 | 31.2 | 3.34 | 10.323 | | |
| 800.0 | 795.1 | 793.0 | 783.5 | 2.0 | 2.3 | 19.33 | 92.6 | -27.2 | 40.9 | 36.9 | 3.98 | 10.273 | | |
| 900.0 | 892.2 | 892.8 | 879.0 | 2.4 | 2.9 | 19.77 | 120.1 | -37.2 | 46.7 | 42.2 | 4.53 | 10.311 | | |
| 1,000.0 | 989.3 | 992.6 | 974.4 | 2.9 | 3.5 | 20.11 | 147.6 | -47.2 | 52.6 | 47.5 | 5.11 | 10.284 | | |
| 1,100.0 | 1,086.3 | 1,092.5 | 1,069.9 | 3.3 | 4.0 | 20.38 | 175.1 | -57.3 | 58.4 | 52.7 | 5.71 | 10.228 | | |
| 1,200.0 | 1,183.4 | 1,192.3 | 1,165.3 | 3.8 | 4.6 | 20.60 | 202.6 | -67.3 | 64.3 | 58.0 | 6.33 | 10.155 | | |
| 1,300.0 | 1,280.5 | 1,292.1 | 1,260.7 | 4.3 | 5.2 | 20.79 | 230.1 | -77.3 | 70.1 | 63.2 | 6.96 | 10.079 | | |
| 1,400.0 | 1,377.5 | 1,391.9 | 1,356.2 | 4.8 | 5.8 | 20.94 | 257.6 | -87.3 | 76.0 | 68.4 | 7.59 | 10.005 | | |
| 1,500.0 | 1,474.6 | 1,491.8 | 1,451.6 | 5.3 | 6.3 | 21.08 | 285.2 | -97.3 | 81.8 | 73.6 | 8.24 | 9.935 | | |
| 1,600.0 | 1,571.7 | 1,591.6 | 1,547.1 | 5.8 | 6.9 | 21.19 | 312.7 | -107.3 | 87.7 | 78.8 | 8.88 | 9.869 | | |
| 1,700.0 | 1,668.7 | 1,691.4 | 1,642.5 | 6.3 | 7.5 | 21.30 | 340.2 | -117.3 | 93.5 | 84.0 | 9.54 | 9.808 | | |
| 1,800.0 | 1,765.8 | 1,791.3 | 1,737.9 | 6.8 | 8.1 | 21.39 | 367.7 | -127.3 | 99.4 | 89.2 | 10.19 | 9.751 | | |
| 1,900.0 | 1,862.9 | 1,891.1 | 1,833.4 | 7.3 | 8.7 | 21.47 | 395.2 | -137.3 | 105.2 | 94.4 | 10.85 | 9.699 | | |
| 2,000.0 | 1,959.9 | 1,990.9 | 1,928.8 | 7.7 | 9.3 | 21.54 | 422.7 | -147.4 | 111.1 | 99.6 | 11.51 | 9.652 | | |
| 2,100.0 | 2,057.0 | 2,090.7 | 2,024.3 | 8.2 | 9.9 | 21.60 | 450.2 | -157.4 | 116.9 | 104.8 | 12.17 | 9.608 | | |
| 2,200.0 | 2,154.1 | 2,190.6 | 2,119.7 | 8.7 | 10.4 | 21.66 | 477.7 | -167.4 | 122.8 | 110.0 | 12.83 | 9.567 | | |
| 2,300.0 | 2,251.1 | 2,290.4 | 2,215.1 | 9.2 | 11.0 | 21.71 | 505.2 | -177.4 | 128.6 | 115.1 | 13.50 | 9.529 | | |
| 2,400.0 | 2,348.2 | 2,390.2 | 2,310.6 | 9.7 | 11.6 | 21.76 | 532.7 | -187.4 | 134.5 | 120.3 | 14.17 | 9.495 | | |
| 2,500.0 | 2,445.3 | 2,490.1 | 2,406.0 | 10.2 | 12.2 | 21.80 | 560.3 | -197.4 | 140.3 | 125.5 | 14.83 | 9.462 | | |
| 2,600.0 | 2,542.3 | 2,589.9 | 2,501.5 | 10.7 | 12.8 | 21.85 | 587.8 | -207.4 | 146.2 | 130.7 | 15.50 | 9.433 | | |
| 2,700.0 | 2,639.4 | 2,689.7 | 2,596.9 | 11.2 | 13.4 | 21.88 | 615.3 | -217.4 | 152.0 | 135.9 | 16.17 | 9.405 | | |
| 2,800.0 | 2,736.5 | 2,789.5 | 2,692.3 | 11.7 | 14.0 | 21.92 | 642.8 | -227.4 | 157.9 | 141.1 | 16.84 | 9.379 | | |
| 2,900.0 | 2,833.5 | 2,889.4 | 2,787.8 | 12.2 | 14.6 | 21.95 | 670.3 | -237.5 | 163.8 | 146.2 | 17.51 | 9.355 | | |
| 3,000.0 | 2,930.6 | 2,989.2 | 2,883.2 | 12.7 | 15.2 | 21.98 | 697.8 | -247.5 | 169.6 | 151.4 | 18.17 | 9.332 | | |
| 3,100.0 | 3,027.7 | 3,089.0 | 2,978.7 | 13.2 | 15.7 | 22.01 | 725.3 | -257.5 | 175.5 | 156.6 | 18.84 | 9.311 | | |
| 3,200.0 | 3,124.7 | 3,188.9 | 3,074.1 | 13.7 | 16.3 | 22.03 | 752.8 | -267.5 | 181.3 | 161.8 | 19.51 | 9.291 | | |
| 3,300.0 | 3,221.8 | 3,288.7 | 3,169.5 | 14.2 | 16.9 | 22.06 | 780.3 | -277.5 | 187.2 | 167.0 | 20.19 | 9.272 | | |
| 3,400.0 | 3,318.9 | 3,388.5 | 3,265.0 | 14.7 | 17.5 | 22.08 | 807.8 | -287.5 | 193.0 | 172.2 | 20.86 | 9.255 | | |
| 3,500.0 | 3,415.9 | 3,488.3 | 3,360.4 | 15.2 | 18.1 | 22.10 | 835.4 | -297.5 | 198.9 | 177.3 | 21.53 | 9.238 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 13B-1 - DD - Plan #1 | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|---------------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | Warning |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -150.91 | -14.2 | -7.9 | 16.3 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -150.91 | -14.2 | -7.9 | 16.3 | 16.1 | 0.18 | 90.405 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -150.91 | -14.2 | -7.9 | 16.3 | 15.6 | 0.63 | 25.830 CC, ES | |
| 300.0 | 300.0 | 299.1 | 299.0 | 0.5 | 0.5 | -151.78 | -16.6 | -8.9 | 18.8 | 17.8 | 1.06 | 17.741 SF | |
| 400.0 | 400.0 | 397.5 | 397.1 | 0.8 | 0.7 | -131.15 | -23.6 | -11.8 | 27.5 | 26.0 | 1.55 | 17.755 | |
| 500.0 | 499.8 | 494.1 | 492.9 | 1.0 | 1.0 | -137.46 | -35.1 | -16.6 | 44.9 | 42.8 | 2.12 | 21.172 | |
| 600.0 | 599.1 | 587.6 | 584.9 | 1.3 | 1.3 | -142.01 | -50.4 | -23.0 | 71.4 | 68.6 | 2.75 | 25.997 | |
| 700.0 | 697.6 | 677.7 | 672.7 | 1.6 | 1.7 | -144.82 | -69.0 | -30.8 | 106.5 | 103.1 | 3.41 | 31.250 | |
| 800.0 | 795.1 | 768.8 | 761.2 | 2.0 | 2.2 | -147.03 | -89.2 | -39.2 | 147.4 | 143.3 | 4.04 | 36.449 | |
| 900.0 | 892.2 | 859.1 | 848.8 | 2.4 | 2.6 | -149.01 | -109.2 | -47.6 | 190.0 | 185.4 | 4.57 | 41.546 | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 21A-1 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| | | | | | | | | | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.62 | 20.0 | 11.9 | 23.3 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 30.62 | 20.0 | 11.9 | 23.3 | 23.1 | 0.18 | 129.458 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 30.62 | 20.0 | 11.9 | 23.3 | 22.6 | 0.63 | 36.988 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 30.62 | 20.0 | 11.9 | 23.3 | 22.2 | 1.08 | 21.576 CC, ES | | |
| 400.0 | 400.0 | 399.2 | 399.2 | 0.8 | 0.8 | 53.15 | 22.5 | 11.0 | 24.1 | 22.6 | 1.54 | 15.651 | | |
| 500.0 | 499.8 | 498.3 | 497.9 | 1.0 | 1.0 | 51.85 | 29.7 | 8.4 | 25.3 | 23.3 | 2.04 | 12.414 | | |
| 600.0 | 599.1 | 596.8 | 595.8 | 1.3 | 1.3 | 56.97 | 41.3 | 7.0 | 28.0 | 25.5 | 2.56 | 10.953 | | |
| 700.0 | 697.6 | 694.9 | 692.5 | 1.6 | 1.6 | 68.25 | 57.0 | 8.4 | 33.8 | 30.6 | 3.13 | 10.805 SF | | |
| 800.0 | 795.1 | 792.1 | 787.7 | 2.0 | 1.9 | 80.24 | 76.6 | 12.6 | 44.2 | 40.4 | 3.83 | 11.549 | | |
| 900.0 | 892.2 | 888.3 | 880.7 | 2.4 | 2.3 | 87.17 | 100.0 | 19.5 | 60.2 | 55.5 | 4.66 | 12.917 | | |
| 1,000.0 | 989.3 | 983.4 | 971.5 | 2.9 | 2.8 | 89.25 | 126.8 | 28.9 | 80.8 | 75.2 | 5.54 | 14.584 | | |
| 1,100.0 | 1,086.3 | 1,080.9 | 1,063.9 | 3.3 | 3.4 | 89.88 | 155.9 | 39.6 | 103.1 | 96.7 | 6.45 | 15.984 | | |
| 1,200.0 | 1,183.4 | 1,178.3 | 1,156.3 | 3.8 | 3.9 | 90.29 | 184.9 | 50.3 | 125.5 | 118.1 | 7.38 | 17.006 | | |
| 1,300.0 | 1,280.5 | 1,275.8 | 1,248.7 | 4.3 | 4.5 | 90.57 | 214.0 | 61.1 | 147.9 | 139.6 | 8.32 | 17.768 | | |
| 1,400.0 | 1,377.5 | 1,373.3 | 1,341.1 | 4.8 | 5.1 | 90.78 | 243.1 | 71.8 | 170.3 | 161.0 | 9.28 | 18.356 | | |
| 1,500.0 | 1,474.6 | 1,470.7 | 1,433.5 | 5.3 | 5.7 | 90.94 | 272.2 | 82.6 | 192.7 | 182.4 | 10.24 | 18.821 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 21C-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.61 | 27.3 | 15.5 | 31.4 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 29.61 | 27.3 | 15.5 | 31.4 | 31.2 | 0.18 | 174.743 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 29.61 | 27.3 | 15.5 | 31.4 | 30.8 | 0.63 | 49.927 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 29.61 | 27.3 | 15.5 | 31.4 | 30.3 | 1.08 | 29.124 | | |
| 400.0 | 400.0 | 399.3 | 399.3 | 0.8 | 0.8 | 55.56 | 28.0 | 15.5 | 31.1 | 29.6 | 1.54 | 20.232 | | |
| 410.2 | 410.2 | 409.4 | 409.4 | 0.8 | 0.8 | 55.89 | 28.2 | 15.4 | 31.1 | 29.5 | 1.59 | 19.600 CC, ES | | |
| 500.0 | 499.8 | 498.0 | 497.9 | 1.0 | 1.0 | 59.75 | 33.0 | 15.0 | 31.7 | 29.6 | 2.01 | 15.713 | | |
| 600.0 | 599.1 | 596.4 | 595.7 | 1.3 | 1.2 | 66.88 | 42.8 | 15.0 | 34.1 | 31.6 | 2.51 | 13.578 | | |
| 700.0 | 697.6 | 693.9 | 692.3 | 1.6 | 1.5 | 78.85 | 56.2 | 18.2 | 40.7 | 37.7 | 3.06 | 13.288 SF | | |
| 800.0 | 795.1 | 790.4 | 787.1 | 2.0 | 1.8 | 90.72 | 72.8 | 24.7 | 53.3 | 49.6 | 3.75 | 14.201 | | |
| 900.0 | 892.2 | 887.5 | 881.8 | 2.4 | 2.2 | 98.24 | 92.2 | 34.1 | 71.1 | 66.6 | 4.54 | 15.652 | | |
| 1,000.0 | 989.3 | 985.6 | 977.3 | 2.9 | 2.6 | 102.66 | 112.0 | 43.7 | 89.9 | 84.5 | 5.36 | 16.787 | | |
| 1,100.0 | 1,086.3 | 1,083.6 | 1,072.9 | 3.3 | 3.0 | 105.55 | 131.8 | 53.3 | 109.0 | 102.8 | 6.19 | 17.623 | | |
| 1,200.0 | 1,183.4 | 1,181.6 | 1,168.4 | 3.8 | 3.5 | 107.57 | 151.6 | 62.9 | 128.3 | 121.3 | 7.03 | 18.254 | | |
| 1,300.0 | 1,280.5 | 1,279.7 | 1,263.9 | 4.3 | 3.9 | 109.06 | 171.5 | 72.5 | 147.7 | 139.9 | 7.88 | 18.743 | | |
| 1,400.0 | 1,377.5 | 1,377.7 | 1,359.5 | 4.8 | 4.3 | 110.21 | 191.3 | 82.2 | 167.2 | 158.5 | 8.74 | 19.129 | | |
| 1,500.0 | 1,474.6 | 1,475.8 | 1,455.0 | 5.3 | 4.8 | 111.11 | 211.1 | 91.8 | 186.8 | 177.2 | 9.61 | 19.442 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 21D-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.64 | 34.2 | 19.5 | 39.4 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 29.64 | 34.2 | 19.5 | 39.4 | 39.2 | 0.18 | 219.063 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 29.64 | 34.2 | 19.5 | 39.4 | 38.8 | 0.63 | 62.590 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 29.64 | 34.2 | 19.5 | 39.4 | 38.3 | 1.08 | 36.511 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 55.86 | 34.2 | 19.5 | 38.5 | 37.0 | 1.54 | 25.042 | | |
| 473.0 | 472.8 | 471.4 | 471.4 | 0.9 | 0.9 | 61.19 | 35.4 | 20.2 | 37.7 | 35.8 | 1.88 | 20.033 | CC, ES | |
| 500.0 | 499.8 | 497.9 | 497.8 | 1.0 | 1.0 | 64.03 | 36.3 | 20.8 | 37.8 | 35.8 | 2.00 | 18.889 | | |
| 600.0 | 599.1 | 595.4 | 595.1 | 1.3 | 1.2 | 77.11 | 42.6 | 24.9 | 41.4 | 39.0 | 2.48 | 16.725 | SF | |
| 700.0 | 697.6 | 692.3 | 691.1 | 1.6 | 1.5 | 90.27 | 53.0 | 31.6 | 51.1 | 48.1 | 3.03 | 16.871 | | |
| 800.0 | 795.1 | 788.9 | 786.2 | 2.0 | 1.8 | 100.36 | 67.2 | 40.8 | 67.1 | 63.4 | 3.71 | 18.092 | | |
| 900.0 | 892.2 | 886.6 | 882.3 | 2.4 | 2.1 | 107.54 | 82.5 | 50.7 | 85.8 | 81.4 | 4.44 | 19.344 | | |
| 1,000.0 | 989.3 | 984.4 | 978.3 | 2.9 | 2.5 | 112.12 | 97.9 | 60.6 | 105.4 | 100.2 | 5.18 | 20.338 | | |
| 1,100.0 | 1,086.3 | 1,082.2 | 1,074.4 | 3.3 | 2.8 | 115.25 | 113.3 | 70.5 | 125.4 | 119.4 | 5.94 | 21.115 | | |
| 1,200.0 | 1,183.4 | 1,180.0 | 1,170.5 | 3.8 | 3.2 | 117.53 | 128.6 | 80.5 | 145.6 | 138.9 | 6.70 | 21.730 | | |
| 1,300.0 | 1,280.5 | 1,277.8 | 1,266.5 | 4.3 | 3.6 | 119.24 | 144.0 | 90.4 | 166.1 | 158.6 | 7.47 | 22.218 | | |
| 1,400.0 | 1,377.5 | 1,375.6 | 1,362.6 | 4.8 | 4.0 | 120.58 | 159.3 | 100.3 | 186.6 | 178.4 | 8.25 | 22.621 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 22A-36 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.07 | 13.1 | 7.9 | 15.3 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 31.07 | 13.1 | 7.9 | 15.3 | 15.1 | 0.18 | 85.168 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 31.07 | 13.1 | 7.9 | 15.3 | 14.7 | 0.63 | 24.334 | | |
| 255.6 | 255.6 | 255.6 | 255.6 | 0.4 | 0.4 | 31.07 | 13.1 | 7.9 | 15.3 | 14.4 | 0.88 | 17.413 CC | | |
| 300.0 | 300.0 | 299.9 | 299.9 | 0.5 | 0.5 | 30.59 | 13.3 | 7.8 | 15.4 | 14.3 | 1.08 | 14.292 ES | | |
| 400.0 | 400.0 | 399.3 | 399.2 | 0.8 | 0.8 | 48.65 | 16.9 | 6.4 | 17.0 | 15.5 | 1.54 | 11.037 | | |
| 500.0 | 499.8 | 498.5 | 498.0 | 1.0 | 1.0 | 43.95 | 25.2 | 3.1 | 19.1 | 17.1 | 2.07 | 9.262 | | |
| 600.0 | 599.1 | 597.4 | 596.0 | 1.3 | 1.3 | 47.33 | 38.3 | 0.6 | 22.4 | 19.7 | 2.61 | 8.576 SF | | |
| 700.0 | 697.6 | 695.9 | 692.9 | 1.6 | 1.6 | 57.23 | 56.0 | 0.0 | 27.7 | 24.5 | 3.19 | 8.664 | | |
| 800.0 | 795.1 | 793.8 | 788.2 | 2.0 | 2.0 | 68.46 | 78.2 | 1.3 | 36.2 | 32.3 | 3.90 | 9.302 | | |
| 900.0 | 892.2 | 890.8 | 881.5 | 2.4 | 2.5 | 74.71 | 104.6 | 4.4 | 49.6 | 44.9 | 4.73 | 10.487 | | |
| 1,000.0 | 989.3 | 986.7 | 972.3 | 2.9 | 3.0 | 75.99 | 135.0 | 9.2 | 67.5 | 61.9 | 5.62 | 12.018 | | |
| 1,100.0 | 1,086.3 | 1,081.1 | 1,060.1 | 3.3 | 3.6 | 75.11 | 169.0 | 15.6 | 89.7 | 83.1 | 6.53 | 13.733 | | |
| 1,200.0 | 1,183.4 | 1,178.1 | 1,149.6 | 3.8 | 4.3 | 74.02 | 205.8 | 23.0 | 113.7 | 106.2 | 7.45 | 15.249 | | |
| 1,300.0 | 1,280.5 | 1,275.2 | 1,239.1 | 4.3 | 5.0 | 73.30 | 242.6 | 30.4 | 137.7 | 129.3 | 8.38 | 16.428 | | |
| 1,400.0 | 1,377.5 | 1,372.3 | 1,328.6 | 4.8 | 5.7 | 72.80 | 279.3 | 37.8 | 161.7 | 152.4 | 9.32 | 17.354 | | |
| 1,500.0 | 1,474.6 | 1,469.3 | 1,418.2 | 5.3 | 6.4 | 72.43 | 316.1 | 45.2 | 185.7 | 175.5 | 10.26 | 18.102 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 22C-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISWWSA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44.09 | 29.1 | 28.2 | 40.6 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 44.09 | 29.1 | 28.2 | 40.6 | 40.4 | 0.18 | 225.622 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 44.09 | 29.1 | 28.2 | 40.6 | 39.9 | 0.63 | 64.464 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 44.09 | 29.1 | 28.2 | 40.6 | 39.5 | 1.08 | 37.604 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 70.50 | 29.1 | 28.2 | 40.1 | 38.5 | 1.53 | 26.150 | | |
| 500.0 | 499.8 | 499.8 | 499.8 | 1.0 | 1.0 | 79.77 | 29.1 | 28.2 | 38.4 | 36.4 | 1.99 | 19.304 | | |
| 563.3 | 562.7 | 562.7 | 562.7 | 1.2 | 1.1 | 90.00 | 29.1 | 28.2 | 37.8 | 35.5 | 2.29 | 16.491 | CC, ES | |
| 600.0 | 599.1 | 599.1 | 599.1 | 1.3 | 1.2 | 97.34 | 29.1 | 28.2 | 38.1 | 35.6 | 2.47 | 15.413 | | |
| 700.0 | 697.6 | 695.3 | 695.3 | 1.6 | 1.4 | 118.94 | 29.0 | 30.6 | 46.1 | 43.0 | 3.06 | 15.050 | SF | |
| 800.0 | 795.1 | 791.9 | 791.8 | 2.0 | 1.6 | 135.39 | 28.8 | 35.9 | 65.1 | 61.4 | 3.73 | 17.475 | | |
| 900.0 | 892.2 | 888.3 | 887.9 | 2.4 | 1.8 | 145.10 | 28.5 | 41.1 | 88.8 | 84.6 | 4.25 | 20.901 | | |
| 1,000.0 | 989.3 | 984.6 | 984.1 | 2.9 | 2.0 | 150.68 | 28.3 | 46.4 | 114.0 | 109.2 | 4.74 | 24.055 | | |
| 1,100.0 | 1,086.3 | 1,080.9 | 1,080.3 | 3.3 | 2.3 | 154.24 | 28.0 | 51.7 | 139.8 | 134.5 | 5.22 | 26.784 | | |
| 1,200.0 | 1,183.4 | 1,177.2 | 1,176.5 | 3.8 | 2.5 | 156.68 | 27.8 | 57.0 | 165.9 | 160.2 | 5.70 | 29.108 | | |
| 1,300.0 | 1,280.5 | 1,273.5 | 1,272.6 | 4.3 | 2.7 | 158.46 | 27.5 | 62.2 | 192.2 | 186.0 | 6.18 | 31.085 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 22D-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.69 | 14.9 | 20.3 | 25.2 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 53.69 | 14.9 | 20.3 | 25.2 | 25.0 | 0.18 | 140.263 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 53.69 | 14.9 | 20.3 | 25.2 | 24.6 | 0.63 | 40.075 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 53.69 | 14.9 | 20.3 | 25.2 | 24.1 | 1.08 | 23.377 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 81.45 | 14.9 | 20.3 | 25.0 | 23.4 | 1.53 | 16.332 | | |
| 465.8 | 465.7 | 465.7 | 465.7 | 0.9 | 0.9 | 90.00 | 14.9 | 20.3 | 24.7 | 22.9 | 1.83 | 13.509 CC, ES | | |
| 500.0 | 499.8 | 499.8 | 499.8 | 1.0 | 1.0 | 96.50 | 14.9 | 20.3 | 24.8 | 22.9 | 1.98 | 12.522 | | |
| 600.0 | 599.1 | 597.6 | 597.5 | 1.3 | 1.2 | 121.28 | 14.0 | 22.6 | 31.1 | 28.6 | 2.52 | 12.334 SF | | |
| 700.0 | 697.6 | 692.9 | 692.6 | 1.6 | 1.4 | 139.76 | 11.1 | 29.3 | 50.0 | 46.8 | 3.18 | 15.733 | | |
| 800.0 | 795.1 | 787.1 | 786.1 | 2.0 | 1.6 | 149.11 | 6.9 | 39.2 | 79.2 | 75.4 | 3.82 | 20.736 | | |
| 900.0 | 892.2 | 881.4 | 879.8 | 2.4 | 1.9 | 154.12 | 2.7 | 49.3 | 111.5 | 107.2 | 4.28 | 26.012 | | |
| 1,000.0 | 989.3 | 975.7 | 973.5 | 2.9 | 2.1 | 156.88 | -1.6 | 59.5 | 144.1 | 139.4 | 4.75 | 30.346 | | |
| 1,100.0 | 1,086.3 | 1,070.1 | 1,067.2 | 3.3 | 2.4 | 158.62 | -5.9 | 69.6 | 177.0 | 171.7 | 5.22 | 33.889 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 23A-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 121.05 | -5.1 | 8.5 | 9.9 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 121.05 | -5.1 | 8.5 | 9.9 | 9.7 | 0.18 | 54.976 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 121.05 | -5.1 | 8.5 | 9.9 | 9.3 | 0.63 | 15.707 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 121.05 | -5.1 | 8.5 | 9.9 | 8.8 | 1.08 | 9.163 CC, ES | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 149.77 | -5.1 | 8.5 | 11.1 | 9.6 | 1.56 | 7.156 SF | | |
| 500.0 | 499.8 | 499.8 | 499.8 | 1.0 | 1.0 | 160.81 | -5.1 | 8.5 | 17.1 | 15.0 | 2.11 | 8.112 | | |
| 600.0 | 599.1 | 597.5 | 597.5 | 1.3 | 1.2 | 167.65 | -6.8 | 10.2 | 31.0 | 28.3 | 2.69 | 11.508 | | |
| 700.0 | 697.6 | 692.5 | 692.2 | 1.6 | 1.4 | 170.03 | -11.9 | 15.4 | 54.9 | 51.6 | 3.29 | 16.666 | | |
| 800.0 | 795.1 | 783.4 | 782.4 | 2.0 | 1.6 | 170.73 | -19.8 | 23.5 | 88.4 | 84.5 | 3.89 | 22.726 | | |
| 900.0 | 892.2 | 871.3 | 869.0 | 2.4 | 1.9 | 170.83 | -30.2 | 34.2 | 127.9 | 123.6 | 4.33 | 29.524 | | |
| 1,000.0 | 989.3 | 962.5 | 958.6 | 2.9 | 2.2 | 170.77 | -42.1 | 46.3 | 168.9 | 164.1 | 4.77 | 35.441 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 23B-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.0 usft | |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|-----------------------------|--|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | | Offset Well Error: 0.0 usft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 158.83 | -12.4 | 4.8 | 13.3 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 158.83 | -12.4 | 4.8 | 13.3 | 13.1 | 0.18 | 73.885 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 158.83 | -12.4 | 4.8 | 13.3 | 12.7 | 0.63 | 21.110 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 158.83 | -12.4 | 4.8 | 13.3 | 12.2 | 1.08 | 12.314 CC, ES | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | -177.06 | -12.4 | 4.8 | 14.8 | 13.2 | 1.56 | 9.429 SF | | |
| 500.0 | 499.8 | 498.6 | 498.6 | 1.0 | 1.0 | 179.98 | -14.3 | 6.5 | 23.7 | 21.6 | 2.12 | 11.211 | | |
| 600.0 | 599.1 | 595.2 | 594.8 | 1.3 | 1.2 | 176.92 | -19.8 | 11.5 | 42.8 | 40.1 | 2.72 | 15.763 | | |
| 700.0 | 697.6 | 688.2 | 687.1 | 1.6 | 1.4 | 175.11 | -28.5 | 19.3 | 71.7 | 68.3 | 3.34 | 21.490 | | |
| 800.0 | 795.1 | 776.5 | 774.1 | 2.0 | 1.7 | 174.04 | -39.9 | 29.5 | 109.8 | 105.9 | 3.93 | 27.919 | | |
| 900.0 | 892.2 | 860.6 | 856.1 | 2.4 | 2.0 | 173.35 | -53.5 | 41.7 | 153.9 | 149.5 | 4.37 | 35.176 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 23C-1 - DD - Plan #1 | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|---------------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -151.53 | -7.3 | -4.0 | 8.3 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -151.53 | -7.3 | -4.0 | 8.3 | 8.1 | 0.18 | 46.113 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -151.53 | -7.3 | -4.0 | 8.3 | 7.7 | 0.63 | 13.175 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -151.53 | -7.3 | -4.0 | 8.3 | 7.2 | 1.08 | 7.685 CC, ES, SF | |
| 400.0 | 400.0 | 399.4 | 399.4 | 0.8 | 0.7 | -134.54 | -9.7 | -4.8 | 11.9 | 10.3 | 1.53 | 7.733 | |
| 500.0 | 499.8 | 497.6 | 497.2 | 1.0 | 1.0 | -145.45 | -16.9 | -7.4 | 24.7 | 22.6 | 2.09 | 11.815 | |
| 600.0 | 599.1 | 593.6 | 592.5 | 1.3 | 1.2 | -151.60 | -28.3 | -10.7 | 46.8 | 44.1 | 2.71 | 17.278 | |
| 700.0 | 697.6 | 686.2 | 683.9 | 1.6 | 1.5 | -157.29 | -42.9 | -11.3 | 77.6 | 74.3 | 3.34 | 23.215 | |
| 800.0 | 795.1 | 774.0 | 770.1 | 2.0 | 1.8 | -161.67 | -59.9 | -9.2 | 117.0 | 113.1 | 3.97 | 29.516 | |
| 900.0 | 892.2 | 861.4 | 855.2 | 2.4 | 2.2 | -164.96 | -79.2 | -5.1 | 161.6 | 157.1 | 4.43 | 36.470 | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | S1-T7S-R97W (Mesa E1 797) - PUCKETT 31B-1 - DD - Plan #1 | | Offset Site Error: | | 0.0 usft |
|-----------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--|--|--------------------|--|----------|
| Survey Program: | | | | | | | | | | | | | 0-ISCSWA MWD | | Offset Well Error: | | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | Warning | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.48 | 48.4 | 27.4 | 55.6 | | | | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 29.48 | 48.4 | 27.4 | 55.6 | 55.5 | 0.18 | 309.443 | | | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 29.48 | 48.4 | 27.4 | 55.6 | 55.0 | 0.63 | 88.412 CC, ES | | | | | |
| 300.0 | 300.0 | 297.3 | 297.3 | 0.5 | 0.5 | 30.47 | 49.9 | 29.4 | 58.0 | 56.9 | 1.08 | 53.816 | | | | | |
| 400.0 | 400.0 | 394.1 | 393.8 | 0.8 | 0.8 | 58.38 | 54.3 | 35.3 | 64.3 | 62.8 | 1.55 | 41.499 | | | | | |
| 500.0 | 499.8 | 490.0 | 488.9 | 1.0 | 1.0 | 65.47 | 61.6 | 45.0 | 73.5 | 71.4 | 2.04 | 35.981 | | | | | |
| 600.0 | 599.1 | 584.3 | 581.7 | 1.3 | 1.4 | 74.13 | 71.5 | 58.3 | 87.0 | 84.5 | 2.56 | 34.059 | | | | | |
| 700.0 | 697.6 | 676.5 | 671.5 | 1.6 | 1.8 | 82.47 | 83.8 | 74.8 | 106.3 | 103.2 | 3.13 | 34.024 SF | | | | | |
| 800.0 | 795.1 | 766.2 | 757.9 | 2.0 | 2.2 | 89.56 | 98.3 | 94.2 | 132.0 | 128.2 | 3.79 | 34.825 | | | | | |
| 900.0 | 892.2 | 853.6 | 840.9 | 2.4 | 2.7 | 94.97 | 114.7 | 116.1 | 163.7 | 159.1 | 4.53 | 36.142 | | | | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 31C-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.44 | 41.5 | 23.4 | 47.7 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 29.44 | 41.5 | 23.4 | 47.7 | 47.5 | 0.18 | 265.123 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 29.44 | 41.5 | 23.4 | 47.7 | 47.0 | 0.63 | 75.750 | | |
| 233.4 | 233.4 | 233.4 | 233.4 | 0.4 | 0.4 | 29.44 | 41.5 | 23.4 | 47.7 | 46.9 | 0.78 | 61.144 CC, ES | | |
| 300.0 | 300.0 | 298.9 | 298.9 | 0.5 | 0.5 | 29.80 | 41.8 | 24.0 | 48.2 | 47.2 | 1.08 | 44.841 | | |
| 400.0 | 400.0 | 396.5 | 396.4 | 0.8 | 0.8 | 58.06 | 44.5 | 28.2 | 52.0 | 50.5 | 1.53 | 33.912 | | |
| 500.0 | 499.8 | 493.2 | 492.6 | 1.0 | 1.0 | 67.18 | 49.7 | 36.6 | 58.6 | 56.6 | 2.02 | 29.088 | | |
| 600.0 | 599.1 | 588.4 | 586.7 | 1.3 | 1.3 | 78.51 | 57.3 | 48.8 | 70.3 | 67.8 | 2.52 | 27.871 SF | | |
| 700.0 | 697.6 | 681.6 | 677.9 | 1.6 | 1.6 | 88.97 | 67.1 | 64.7 | 88.9 | 85.8 | 3.09 | 28.723 | | |
| 800.0 | 795.1 | 772.1 | 765.6 | 2.0 | 2.1 | 97.20 | 78.9 | 83.7 | 114.8 | 111.0 | 3.76 | 30.494 | | |
| 900.0 | 892.2 | 860.2 | 849.9 | 2.4 | 2.5 | 102.91 | 92.5 | 105.5 | 147.0 | 142.6 | 4.49 | 32.737 | | |
| 1,000.0 | 989.3 | 946.0 | 930.7 | 2.9 | 3.1 | 105.97 | 107.7 | 130.0 | 184.0 | 178.8 | 5.24 | 35.092 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 32A-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 39.82 | 43.3 | 36.1 | 56.4 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 39.82 | 43.3 | 36.1 | 56.4 | 56.2 | 0.18 | 313.762 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 39.82 | 43.3 | 36.1 | 56.4 | 55.8 | 0.63 | 89.646 | CC, ES | |
| 300.0 | 300.0 | 298.3 | 298.2 | 0.5 | 0.5 | 40.69 | 43.6 | 37.5 | 57.6 | 56.5 | 1.07 | 53.644 | | |
| 400.0 | 400.0 | 395.5 | 395.3 | 0.8 | 0.8 | 69.70 | 44.9 | 43.6 | 62.2 | 60.7 | 1.53 | 40.694 | | |
| 500.0 | 499.8 | 491.5 | 490.7 | 1.0 | 1.0 | 79.12 | 47.2 | 54.3 | 70.7 | 68.6 | 2.01 | 35.086 | | |
| 600.0 | 599.1 | 585.4 | 583.3 | 1.3 | 1.3 | 90.21 | 50.3 | 69.3 | 85.4 | 82.9 | 2.54 | 33.641 | SF | |
| 700.0 | 697.6 | 676.4 | 672.2 | 1.6 | 1.7 | 100.10 | 54.3 | 88.1 | 108.4 | 105.2 | 3.13 | 34.616 | | |
| 800.0 | 795.1 | 763.8 | 756.7 | 2.0 | 2.1 | 107.74 | 58.9 | 110.0 | 139.8 | 136.0 | 3.79 | 36.852 | | |
| 900.0 | 892.2 | 848.9 | 837.9 | 2.4 | 2.6 | 113.42 | 64.2 | 134.9 | 178.0 | 173.5 | 4.48 | 39.746 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 32C-1 - DD - Plan #1 | | | | | | | | | | | | Offset Site Error: | | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|--------------------|---------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | Offset Well Error: | | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 41.47 | 36.4 | 32.2 | 48.6 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 41.47 | 36.4 | 32.2 | 48.6 | 48.4 | 0.18 | 270.278 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 41.47 | 36.4 | 32.2 | 48.6 | 48.0 | 0.63 | 77.222 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 41.47 | 36.4 | 32.2 | 48.6 | 47.5 | 1.08 | 45.046 | CC, ES | |
| 400.0 | 400.0 | 398.3 | 398.2 | 0.8 | 0.8 | 69.65 | 36.3 | 34.7 | 49.7 | 48.2 | 1.52 | 32.737 | | |
| 500.0 | 499.8 | 495.5 | 495.2 | 1.0 | 1.0 | 81.75 | 36.0 | 42.2 | 54.0 | 52.0 | 1.98 | 27.316 | | |
| 600.0 | 599.1 | 590.7 | 589.6 | 1.3 | 1.2 | 97.44 | 35.6 | 54.2 | 65.5 | 63.0 | 2.50 | 26.216 | SF | |
| 700.0 | 697.6 | 682.8 | 680.2 | 1.6 | 1.5 | 110.89 | 34.9 | 70.4 | 87.3 | 84.2 | 3.12 | 28.025 | | |
| 800.0 | 795.1 | 771.0 | 766.2 | 2.0 | 1.9 | 120.24 | 34.2 | 89.9 | 119.4 | 115.6 | 3.79 | 31.530 | | |
| 900.0 | 892.2 | 855.6 | 847.8 | 2.4 | 2.3 | 126.33 | 33.3 | 112.4 | 158.8 | 154.4 | 4.41 | 36.034 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 33A-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------|---------------|--------------------|----------|
| Survey Program: 0-ISWWSA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | Distance | | Total | | Separation | | Warning | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Uncertainty Axis | Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 47.54 | 22.2 | 24.3 | 32.9 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 47.54 | 22.2 | 24.3 | 32.9 | 32.7 | 0.18 | 183.001 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 47.54 | 22.2 | 24.3 | 32.9 | 32.3 | 0.63 | 52.286 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 47.54 | 22.2 | 24.3 | 32.9 | 31.8 | 1.08 | 30.500 | | |
| 326.3 | 326.3 | 326.3 | 326.3 | 0.6 | 0.6 | 72.20 | 22.2 | 24.3 | 32.9 | 31.7 | 1.20 | 27.448 CC, ES | | |
| 400.0 | 400.0 | 399.3 | 399.3 | 0.8 | 0.8 | 76.54 | 21.7 | 25.6 | 33.3 | 31.7 | 1.52 | 21.932 | | |
| 500.0 | 499.8 | 497.4 | 497.1 | 1.0 | 1.0 | 94.50 | 19.7 | 31.6 | 37.2 | 35.2 | 1.97 | 18.906 SF | | |
| 600.0 | 599.1 | 593.1 | 592.2 | 1.3 | 1.2 | 115.31 | 16.1 | 42.1 | 50.7 | 48.2 | 2.54 | 20.005 | | |
| 700.0 | 697.6 | 685.4 | 683.3 | 1.6 | 1.5 | 129.44 | 11.2 | 56.4 | 76.3 | 73.1 | 3.19 | 23.874 | | |
| 800.0 | 795.1 | 773.3 | 769.2 | 2.0 | 1.8 | 137.51 | 5.3 | 73.8 | 112.4 | 108.5 | 3.85 | 29.151 | | |
| 900.0 | 892.2 | 857.2 | 850.4 | 2.4 | 2.2 | 142.20 | -1.6 | 94.0 | 155.3 | 150.9 | 4.40 | 35.292 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 33C-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISCSWA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60.93 | 9.1 | 16.4 | 18.7 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 60.93 | 9.1 | 16.4 | 18.7 | 18.6 | 0.18 | 104.176 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 60.93 | 9.1 | 16.4 | 18.7 | 18.1 | 0.63 | 29.765 | | |
| 235.1 | 235.1 | 235.1 | 235.1 | 0.4 | 0.4 | 60.93 | 9.1 | 16.4 | 18.7 | 17.9 | 0.79 | 23.802 CC, ES | | |
| 300.0 | 300.0 | 299.8 | 299.8 | 0.5 | 0.5 | 62.66 | 8.7 | 16.9 | 19.0 | 18.0 | 1.07 | 17.802 | | |
| 400.0 | 400.0 | 398.9 | 398.8 | 0.8 | 0.7 | 102.46 | 5.9 | 21.2 | 22.3 | 20.8 | 1.51 | 14.794 SF | | |
| 500.0 | 499.8 | 496.4 | 495.7 | 1.0 | 1.0 | 125.63 | 0.4 | 29.6 | 33.9 | 31.9 | 2.06 | 16.471 | | |
| 600.0 | 599.1 | 590.8 | 589.0 | 1.3 | 1.3 | 140.29 | -7.5 | 41.7 | 56.9 | 54.3 | 2.70 | 21.119 | | |
| 700.0 | 697.6 | 681.0 | 677.4 | 1.6 | 1.6 | 147.79 | -17.5 | 56.9 | 90.5 | 87.1 | 3.35 | 27.026 | | |
| 800.0 | 795.1 | 766.0 | 759.8 | 2.0 | 2.0 | 151.81 | -28.9 | 74.3 | 133.3 | 129.3 | 3.98 | 33.515 | | |
| 900.0 | 892.2 | 846.6 | 836.9 | 2.4 | 2.5 | 154.31 | -41.6 | 93.6 | 181.9 | 177.4 | 4.47 | 40.737 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT 34A-1 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISWWSA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | Warning | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 81.70 | 1.8 | 12.4 | 12.6 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 81.70 | 1.8 | 12.4 | 12.6 | 12.4 | 0.18 | 69.807 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 81.70 | 1.8 | 12.4 | 12.6 | 11.9 | 0.63 | 19.945 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 81.70 | 1.8 | 12.4 | 12.6 | 11.5 | 1.08 | 11.634 CC | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 81.70 | 1.8 | 12.4 | 12.6 | 11.5 | 1.08 | 11.625 ES | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 112.35 | 1.8 | 12.4 | 13.0 | 11.5 | 1.53 | 8.506 SF | | |
| 500.0 | 499.8 | 498.9 | 498.8 | 1.0 | 1.0 | 136.49 | 0.1 | 14.3 | 19.1 | 17.0 | 2.05 | 9.308 | | |
| 600.0 | 599.1 | 595.7 | 595.3 | 1.3 | 1.2 | 153.39 | -5.1 | 19.7 | 36.4 | 33.7 | 2.67 | 13.643 | | |
| 700.0 | 697.6 | 689.0 | 687.9 | 1.6 | 1.4 | 160.47 | -13.2 | 28.3 | 64.4 | 61.1 | 3.30 | 19.511 | | |
| 800.0 | 795.1 | 777.7 | 775.2 | 2.0 | 1.7 | 163.62 | -23.7 | 39.5 | 102.1 | 98.2 | 3.91 | 26.092 | | |
| 900.0 | 892.2 | 862.1 | 857.6 | 2.4 | 2.0 | 165.19 | -36.3 | 52.9 | 145.8 | 141.5 | 4.37 | 33.405 | | |
| 1,000.0 | 989.3 | 943.0 | 935.7 | 2.9 | 2.4 | 165.84 | -50.7 | 68.2 | 193.4 | 188.6 | 4.83 | 40.086 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S1-T7S-R97W (Mesa E1 797) - PUCKETT SWD E1-797 - VH - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 usft |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|------------------------|-------------------|--------------------|----------|
| Survey Program: 0-ISWWSA MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 177.49 | -19.3 | 0.8 | 19.3 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 177.49 | -19.3 | 0.8 | 19.3 | 19.1 | 0.18 | 107.486 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 177.49 | -19.3 | 0.8 | 19.3 | 18.7 | 0.63 | 30.710 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 177.49 | -19.3 | 0.8 | 19.3 | 18.2 | 1.08 | 17.914 CC, ES | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | -159.58 | -19.3 | 0.8 | 20.7 | 19.1 | 1.56 | 13.262 | | |
| 500.0 | 499.8 | 499.8 | 499.8 | 1.0 | 1.0 | -164.39 | -19.3 | 0.8 | 26.9 | 24.8 | 2.12 | 12.725 SF | | |
| 600.0 | 599.1 | 599.1 | 599.1 | 1.3 | 1.2 | -169.05 | -19.3 | 0.8 | 38.4 | 35.7 | 2.70 | 14.193 | | |
| 700.0 | 697.6 | 697.6 | 697.6 | 1.6 | 1.4 | -172.33 | -19.3 | 0.8 | 55.1 | 51.8 | 3.30 | 16.684 | | |
| 800.0 | 795.1 | 795.1 | 795.1 | 2.0 | 1.7 | -174.46 | -19.3 | 0.8 | 77.0 | 73.1 | 3.88 | 19.831 | | |
| 900.0 | 892.2 | 892.2 | 892.2 | 2.4 | 1.9 | -175.78 | -19.3 | 0.8 | 101.0 | 96.6 | 4.31 | 23.398 | | |
| 1,000.0 | 989.3 | 989.3 | 989.3 | 2.9 | 2.1 | -176.59 | -19.3 | 0.8 | 125.0 | 120.2 | 4.76 | 26.241 | | |
| 1,100.0 | 1,086.3 | 1,086.3 | 1,086.3 | 3.3 | 2.3 | -177.14 | -19.3 | 0.8 | 149.0 | 143.7 | 5.22 | 28.536 | | |
| 1,200.0 | 1,183.4 | 1,183.4 | 1,183.4 | 3.8 | 2.5 | -177.54 | -19.3 | 0.8 | 173.0 | 167.3 | 5.69 | 30.416 | | |
| 1,300.0 | 1,280.5 | 1,280.5 | 1,280.5 | 4.3 | 2.7 | -177.84 | -19.3 | 0.8 | 197.0 | 190.8 | 6.16 | 31.977 | | |

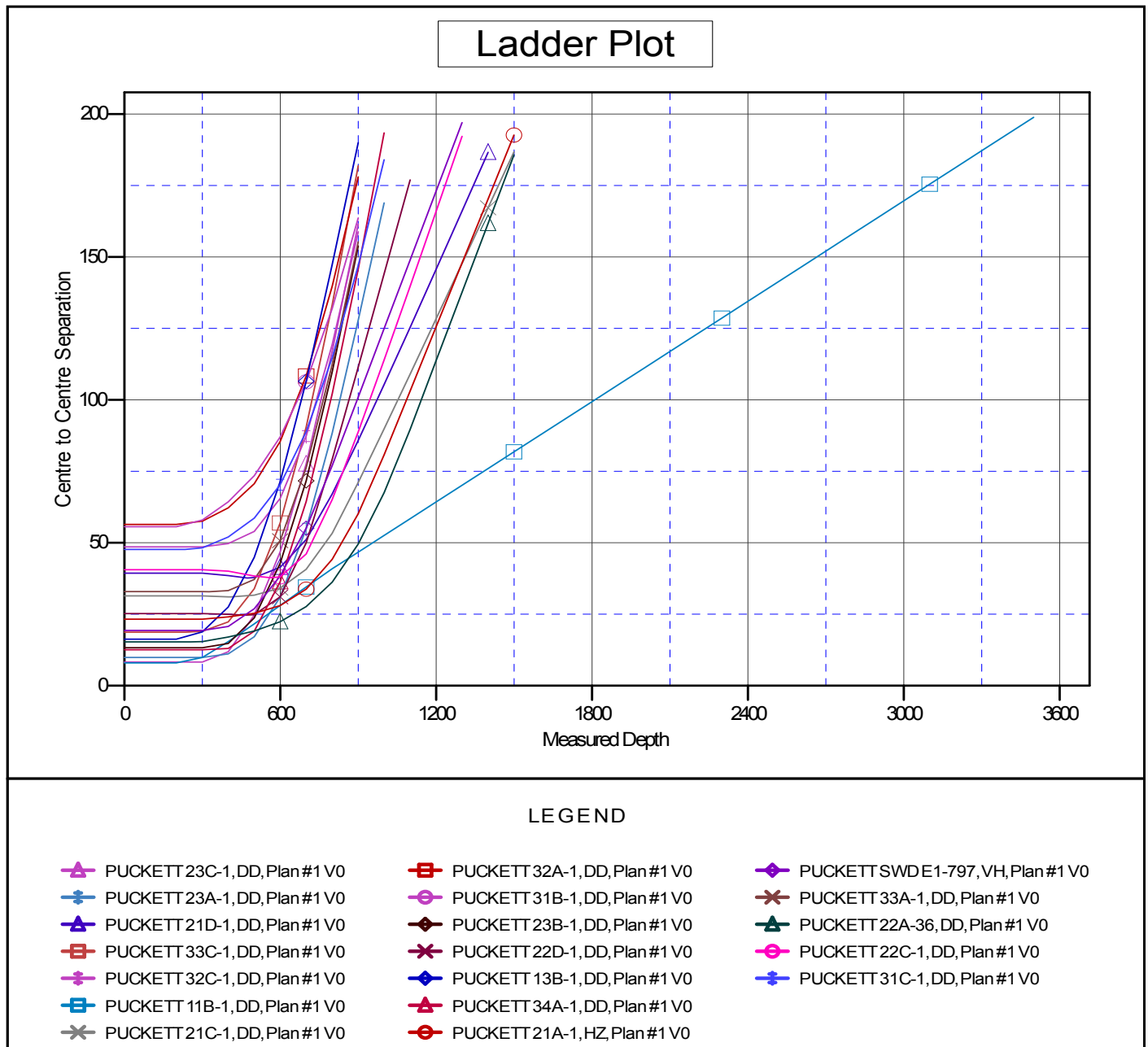
Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|---------------------------|-------------------------------------|--------------------------------------|
| Company: | Caerus Oil & Gas (NAD 27) | Local Co-ordinate Reference: | Well PUCKETT 11C-1 |
| Project: | Garfield County, CO | TVD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Reference Site: | S1-T7S-R97W (Mesa E1 797) | MD Reference: | KB=20' @ 8349.0usft (Patterson #303) |
| Site Error: | 0.0usft | North Reference: | True |
| Reference Well: | PUCKETT 11C-1 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to KB=20' @ 8349.0usft (Patterson #303)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: PUCKETT 11C-1
Coordinate System is US State Plane 1927 (Exact solution), Colorado Central 502
Grid Convergence at Surface is: -1.69°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation