



Bison Oil & Gas II, LLC

Weld Co., CO (NAD-83)

Tatanka Pads

Tatanka Federal LD13-615

OH

Plan: Plan #1

Standard Planning Report

13 January, 2022



Plan #1



Project: Weld Co., CO (NAD-83)
Site: Tatanka Pads
Well: Tatanka Federal LD13-615
Wellbore: OH
Design: Plan #1
Lat: 40.749277
Long: -103.841813
GL: 4661.00
KB: KB=23' @ 4684.00usft

WELL DETAILS: Tatanka Federal LD13-615

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|-------|-------|------------|------------|-----------|-------------|
| 0.00 | 0.00 | 1520102.14 | 3459416.02 | 40.749277 | -103.841813 |

WELLBORE TARGET DETAILS (LAT/LONG)

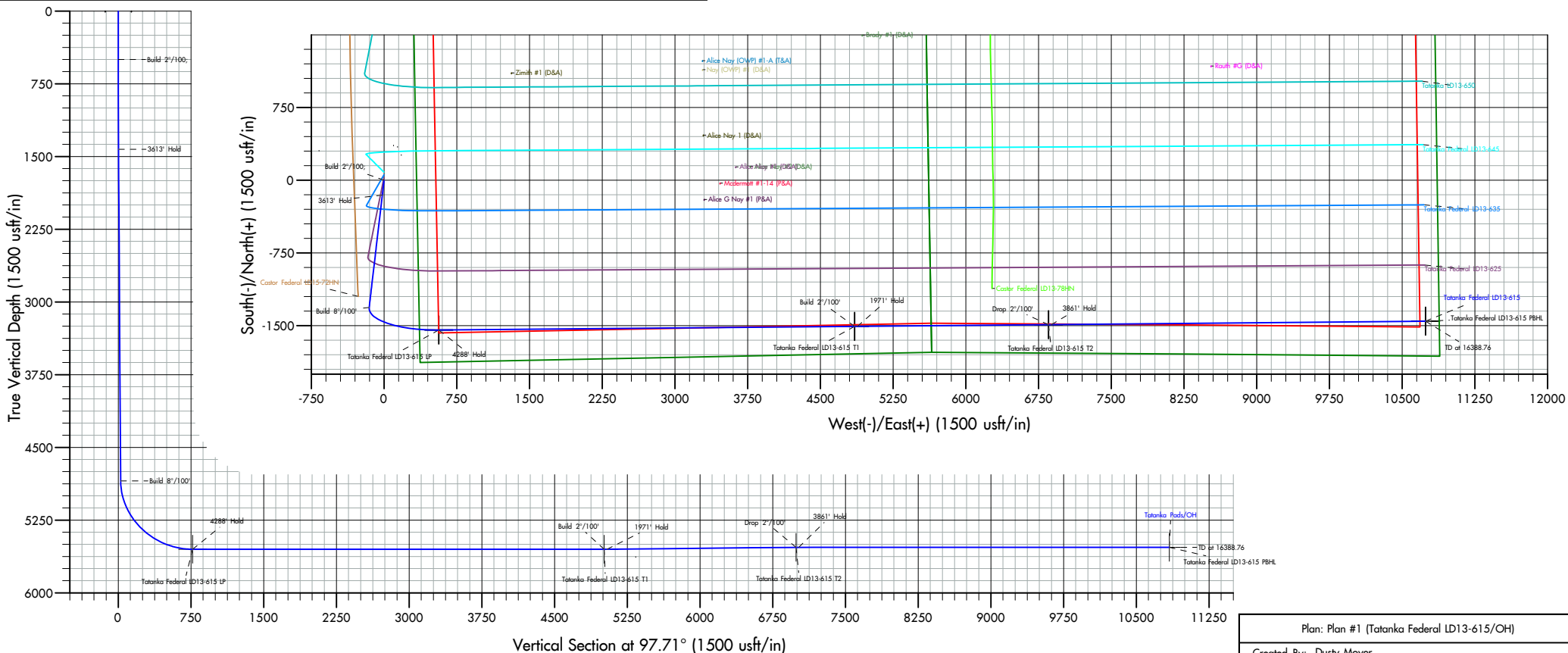
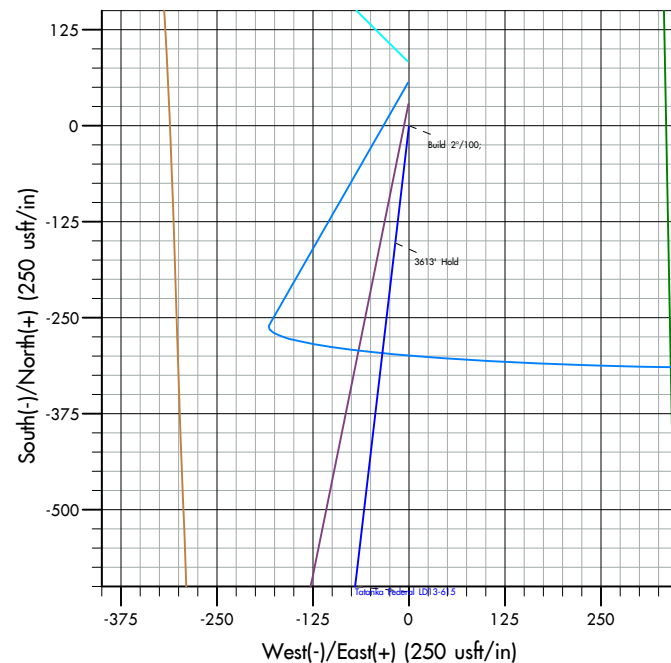
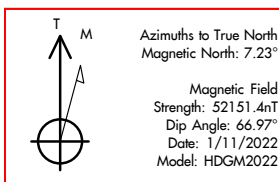
| Name | TVD | +N/-S | +E/-W | Northing | Easting | Shape |
|-------------------------------|---------|----------|----------|------------|------------|-------|
| Tatanka Federal LD13-615 PBHL | 5531.00 | -1453.87 | 10742.85 | 1518849.40 | 3470184.18 | Point |
| Tatanka Federal LD13-615 T2 | 5531.00 | -1488.88 | 6852.95 | 1518741.66 | 3466295.61 | Point |
| Tatanka Federal LD13-615 LP | 5551.00 | -1545.47 | 564.72 | 1518567.49 | 3460009.53 | Point |
| Tatanka Federal LD13-615 T1 | 5551.00 | -1506.88 | 4853.03 | 1518686.27 | 3464296.38 | Point |

SECTION DETAILS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSecl | Annotation |
|----------|-------|--------|---------|----------|----------|------|--------|----------|----------------|
| 0.00 | 0.00 | 0.00 | 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 | Build 2°/100' |
| 1442.89 | 18.86 | 186.65 | 1425.96 | -152.74 | -17.80 | 2.00 | 186.65 | 2.84 | 3613' Hold |
| 5056.23 | 18.86 | 186.65 | 4845.35 | -1312.79 | -153.02 | 0.00 | 0.00 | 24.42 | Build 8°/100' |
| 6210.11 | 90.00 | 89.48 | 5551.00 | -1545.47 | 564.72 | 8.00 | -96.78 | 766.88 | 4288' Hold |
| 10498.60 | 90.00 | 89.48 | 5551.00 | -1506.88 | 4853.03 | 0.00 | 0.00 | 5011.28 | Build 2°/100' |
| 10527.46 | 90.58 | 89.48 | 5550.85 | -1506.62 | 4881.89 | 2.00 | 0.00 | 5039.84 | 1971' Hold |
| 12498.70 | 90.58 | 89.48 | 5531.00 | -1488.88 | 6852.95 | 0.00 | 0.00 | 6990.72 | Drop 2°/100' |
| 12527.66 | 90.00 | 89.48 | 5530.85 | -1488.62 | 6881.91 | 2.00 | 180.00 | 7019.38 | 3861' Hold |
| 16388.76 | 90.00 | 89.48 | 5531.00 | -1453.87 | 10742.85 | 0.00 | 0.00 | 10840.78 | TD at 16388.76 |

FORMATION TOPS

| TVDPath | MDPath | Formation |
|---------|---------|----------------------------------|
| 340.00 | 340.00 | Pierre Shale (Base of Fox Hills) |
| 3164.00 | 3279.51 | Parkman |
| 3661.00 | 3804.70 | Sussex |
| 4261.00 | 4438.74 | Shannon |
| 5354.00 | 5650.11 | Sharon Springs |
| 5434.00 | 5783.16 | Sharon Springs Hot Marker |
| 5454.00 | 5822.37 | Niobrara A Chalk |
| 5529.00 | 6027.21 | Niobrara B Chalk |



Plan: Plan #1 (Tatanka Federal LD13-615/OH)

Created By: Dusty Moyer

Date: 11-11 January 13 2022



Altitude Energy Partners

Planning Report



| | | | |
|------------------|---------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Company: | Bison Oil & Gas II, LLC | TVD Reference: | KB=23' @ 4684.00usft |
| Project: | Weld Co., CO (NAD-83) | MD Reference: | KB=23' @ 4684.00usft |
| Site: | Tatanka Pads | North Reference: | True |
| Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Weld Co., CO (NAD-83) | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| Site | | Tatanka Pads | | | | |
|-----------------------|----------|--------------|--------------|--------------|------------|-------------|
| Site Position: | | Northing: | 1,522,139.55 | usft | Latitude: | 40.754872 |
| From: | Lat/Long | Easting: | 3,459,341.34 | usft | Longitude: | -103.841945 |
| Position Uncertainty: | | 0.00 | usft | Slot Radius: | 13-3/16 | " |

| Well | Tatanka Federal LD13-615 | | | | | |
|----------------------|--------------------------|-----------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,520,102.14 usft | Latitude: | 40.749277 |
| | +E/-W | 0.00 usft | Easting: | 3,459,416.02 usft | Longitude: | -103.841813 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | usft | Ground Level: | 4,661.00 usft |
| Grid Convergence: | | 1.07 ° | | | | |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM2022 | 1/11/2022 | 7.23 | 66.97 | 52,151.40000000 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| Design | Plan #1 | | | | |
| Audit Notes: | | | | | |
| Version: | | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 97.71 | |

| | | | | | |
|---------------------------------|------------------------|--------------------------|------------------------|----------------|--|
| Plan Survey Tool Program | Date | 1/13/2022 | | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 0.00 | 16,388.76 Plan #1 (OH) | MWD+IFR1+MS | | |
| | | | OWSG MWD + IFR1 + Mult | | |



Altitude Energy Partners

Planning Report



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|------------------|---------------------------|-------------------------------------|-------------------------------|
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| Project: | Weld Co., CO (NAD-83) | MD Reference: | KB=23' @ 4684.00usft |
| Site: | Tatanka Pads | North Reference: | True |
| Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

| 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 |
| 0.00 | 0.00 | 0.00 | 0.00 | 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 | |
| 1,442.89 | 18.86 | 186.65 | 1,425.96 | -152.74 | -17.80 | 2.00 | 2.00 | 0.00 | 186.65 | |
| 5,056.23 | 18.86 | 186.65 | 4,845.35 | -1,312.79 | -153.02 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,210.11 | 90.00 | 89.48 | 5,551.00 | -1,545.47 | 564.72 | 8.00 | 6.17 | -8.42 | -96.78 | Tatanka Federal LD |
| 10,498.60 | 90.00 | 89.48 | 5,551.00 | -1,506.88 | 4,853.03 | 0.00 | 0.00 | 0.00 | 0.00 | Tatanka Federal LD |
| 10,527.46 | 90.58 | 89.48 | 5,550.85 | -1,506.62 | 4,881.89 | 2.00 | 2.00 | 0.00 | 0.00 | |
| 12,498.70 | 90.58 | 89.48 | 5,531.00 | -1,488.88 | 6,852.95 | 0.00 | 0.00 | 0.00 | 0.00 | Tatanka Federal LD |
| 12,527.66 | 90.00 | 89.48 | 5,530.85 | -1,488.62 | 6,881.91 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 16,388.76 | 90.00 | 89.48 | 5,531.00 | -1,453.87 | 10,742.85 | 0.00 | 0.00 | 0.00 | 0.00 | Tatanka Federal LD |

| | | | |
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| Project: | Weld Co., CO (NAD-83) | MD Reference: | KB=23' @ 4684.00usft |
| Site: | Tatanka Pads | North Reference: | True |
| Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| 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 (°/100usft) | Turn Rate (°/100usft) |
| 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 |
| 340.00 | 0.00 | 0.00 | 340.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pierre Shale (Base of Fox Hills) | | | | | | | | | |
| 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 |
| Build 2°/100; | | | | | | | | | |
| 600.00 | 2.00 | 186.65 | 599.98 | -1.73 | -0.20 | 0.03 | 2.00 | 2.00 | 0.00 |
| 700.00 | 4.00 | 186.65 | 699.84 | -6.93 | -0.81 | 0.13 | 2.00 | 2.00 | 0.00 |
| 800.00 | 6.00 | 186.65 | 799.45 | -15.59 | -1.82 | 0.29 | 2.00 | 2.00 | 0.00 |
| 900.00 | 8.00 | 186.65 | 898.70 | -27.69 | -3.23 | 0.52 | 2.00 | 2.00 | 0.00 |
| 1,000.00 | 10.00 | 186.65 | 997.47 | -43.23 | -5.04 | 0.80 | 2.00 | 2.00 | 0.00 |
| 1,100.00 | 12.00 | 186.65 | 1,095.62 | -62.18 | -7.25 | 1.16 | 2.00 | 2.00 | 0.00 |
| 1,200.00 | 14.00 | 186.65 | 1,193.06 | -84.52 | -9.85 | 1.57 | 2.00 | 2.00 | 0.00 |
| 1,300.00 | 16.00 | 186.65 | 1,289.64 | -110.23 | -12.85 | 2.05 | 2.00 | 2.00 | 0.00 |
| 1,400.00 | 18.00 | 186.65 | 1,385.27 | -139.27 | -16.23 | 2.59 | 2.00 | 2.00 | 0.00 |
| 1,442.89 | 18.86 | 186.65 | 1,425.96 | -152.74 | -17.80 | 2.84 | 2.00 | 2.00 | 0.00 |
| 3613' Hold | | | | | | | | | |
| 1,500.00 | 18.86 | 186.65 | 1,480.00 | -171.07 | -19.94 | 3.18 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 18.86 | 186.65 | 1,574.64 | -203.18 | -23.68 | 3.78 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 18.86 | 186.65 | 1,669.27 | -235.28 | -27.43 | 4.38 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 18.86 | 186.65 | 1,763.90 | -267.39 | -31.17 | 4.97 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 18.86 | 186.65 | 1,858.53 | -299.49 | -34.91 | 5.57 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 18.86 | 186.65 | 1,953.16 | -331.60 | -38.65 | 6.17 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 18.86 | 186.65 | 2,047.80 | -363.70 | -42.39 | 6.77 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 18.86 | 186.65 | 2,142.43 | -395.80 | -46.14 | 7.36 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 18.86 | 186.65 | 2,237.06 | -427.91 | -49.88 | 7.96 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 18.86 | 186.65 | 2,331.69 | -460.01 | -53.62 | 8.56 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 18.86 | 186.65 | 2,426.33 | -492.12 | -57.36 | 9.15 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 18.86 | 186.65 | 2,520.96 | -524.22 | -61.11 | 9.75 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 18.86 | 186.65 | 2,615.59 | -556.33 | -64.85 | 10.35 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 18.86 | 186.65 | 2,710.22 | -588.43 | -68.59 | 10.95 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 18.86 | 186.65 | 2,804.86 | -620.54 | -72.33 | 11.54 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 18.86 | 186.65 | 2,899.49 | -652.64 | -76.07 | 12.14 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 18.86 | 186.65 | 2,994.12 | -684.75 | -79.82 | 12.74 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 18.86 | 186.65 | 3,088.75 | -716.85 | -83.56 | 13.33 | 0.00 | 0.00 | 0.00 |
| 3,279.51 | 18.86 | 186.65 | 3,164.00 | -742.38 | -86.53 | 13.81 | 0.00 | 0.00 | 0.00 |
| Parkman | | | | | | | | | |
| 3,300.00 | 18.86 | 186.65 | 3,183.39 | -748.96 | -87.30 | 13.93 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 18.86 | 186.65 | 3,278.02 | -781.06 | -91.04 | 14.53 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 18.86 | 186.65 | 3,372.65 | -813.17 | -94.79 | 15.13 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 18.86 | 186.65 | 3,467.28 | -845.27 | -98.53 | 15.72 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 18.86 | 186.65 | 3,561.92 | -877.38 | -102.27 | 16.32 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 18.86 | 186.65 | 3,656.55 | -909.48 | -106.01 | 16.92 | 0.00 | 0.00 | 0.00 |
| 3,804.71 | 18.86 | 186.65 | 3,661.00 | -910.99 | -106.19 | 16.95 | 0.00 | 0.00 | 0.00 |
| Sussex | | | | | | | | | |
| 3,900.00 | 18.86 | 186.65 | 3,751.18 | -941.58 | -109.75 | 17.51 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 18.86 | 186.65 | 3,845.81 | -973.69 | -113.50 | 18.11 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 18.86 | 186.65 | 3,940.44 | -1,005.79 | -117.24 | 18.71 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 18.86 | 186.65 | 4,035.08 | -1,037.90 | -120.98 | 19.31 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 18.86 | 186.65 | 4,129.71 | -1,070.00 | -124.72 | 19.90 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 18.86 | 186.65 | 4,224.34 | -1,102.11 | -128.47 | 20.50 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|---------------------------|-------------------------------------|-------------------------------|
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| Project: | Weld Co., CO (NAD-83) | MD Reference: | KB=23' @ 4684.00usft |
| Site: | Tatanka Pads | North Reference: | True |
| Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| 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 (°/100usft) | Turn Rate (°/100usft) |
| 4,438.74 | 18.86 | 186.65 | 4,261.00 | -1,114.54 | -129.92 | 20.73 | 0.00 | 0.00 | 0.00 |
| Shannon | | | | | | | | | |
| 4,500.00 | 18.86 | 186.65 | 4,318.97 | -1,134.21 | -132.21 | 21.10 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 18.86 | 186.65 | 4,413.61 | -1,166.32 | -135.95 | 21.69 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 18.86 | 186.65 | 4,508.24 | -1,198.42 | -139.69 | 22.29 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 18.86 | 186.65 | 4,602.87 | -1,230.53 | -143.43 | 22.89 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 18.86 | 186.65 | 4,697.50 | -1,262.63 | -147.18 | 23.49 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 18.86 | 186.65 | 4,792.14 | -1,294.74 | -150.92 | 24.08 | 0.00 | 0.00 | 0.00 |
| 5,056.23 | 18.86 | 186.65 | 4,845.35 | -1,312.79 | -153.02 | 24.42 | 0.00 | 0.00 | 0.00 |
| Build 8°/100' | | | | | | | | | |
| 5,100.00 | 18.76 | 175.78 | 4,886.79 | -1,326.84 | -153.32 | 26.00 | 8.00 | -0.23 | -24.84 |
| 5,150.00 | 19.40 | 163.68 | 4,934.07 | -1,342.83 | -150.40 | 31.05 | 8.00 | 1.29 | -24.20 |
| 5,200.00 | 20.78 | 152.73 | 4,981.04 | -1,358.69 | -144.00 | 39.52 | 8.00 | 2.76 | -21.90 |
| 5,250.00 | 22.76 | 143.35 | 5,027.48 | -1,374.34 | -134.15 | 51.37 | 8.00 | 3.96 | -18.77 |
| 5,300.00 | 25.21 | 135.54 | 5,073.17 | -1,389.71 | -120.92 | 66.55 | 8.00 | 4.88 | -15.62 |
| 5,350.00 | 27.99 | 129.10 | 5,117.89 | -1,404.71 | -104.35 | 84.98 | 8.00 | 5.56 | -12.86 |
| 5,400.00 | 31.02 | 123.79 | 5,161.41 | -1,419.28 | -84.53 | 106.58 | 8.00 | 6.06 | -10.63 |
| 5,450.00 | 34.23 | 119.36 | 5,203.52 | -1,433.35 | -61.56 | 131.23 | 8.00 | 6.42 | -8.86 |
| 5,500.00 | 37.57 | 115.62 | 5,244.02 | -1,446.84 | -35.55 | 158.81 | 8.00 | 6.69 | -7.49 |
| 5,550.00 | 41.02 | 112.41 | 5,282.71 | -1,459.69 | -6.62 | 189.20 | 8.00 | 6.89 | -6.41 |
| 5,600.00 | 44.54 | 109.62 | 5,319.41 | -1,471.84 | 25.08 | 222.24 | 8.00 | 7.05 | -5.57 |
| 5,650.00 | 48.13 | 107.17 | 5,353.93 | -1,483.23 | 59.40 | 257.78 | 8.00 | 7.17 | -4.91 |
| 5,650.11 | 48.13 | 107.17 | 5,354.00 | -1,483.26 | 59.48 | 257.86 | 0.00 | 0.00 | 0.00 |
| Sharon Springs | | | | | | | | | |
| 5,700.00 | 51.76 | 104.97 | 5,386.10 | -1,493.81 | 96.17 | 295.64 | 8.02 | 7.28 | -4.40 |
| 5,750.00 | 55.43 | 102.99 | 5,415.77 | -1,503.51 | 135.21 | 335.63 | 8.00 | 7.34 | -3.97 |
| 5,783.16 | 57.88 | 101.77 | 5,434.00 | -1,509.45 | 162.27 | 363.23 | 8.00 | 7.39 | -3.68 |
| Sharon Springs Hot Marker | | | | | | | | | |
| 5,800.00 | 59.12 | 101.17 | 5,442.80 | -1,512.30 | 176.34 | 377.56 | 8.00 | 7.41 | -3.53 |
| 5,822.37 | 60.79 | 100.41 | 5,454.00 | -1,515.93 | 195.36 | 396.90 | 8.00 | 7.43 | -3.43 |
| Niobrara A Chalk | | | | | | | | | |
| 5,850.00 | 62.85 | 99.49 | 5,467.05 | -1,520.13 | 219.34 | 421.23 | 8.00 | 7.45 | -3.31 |
| 5,900.00 | 66.58 | 97.92 | 5,488.40 | -1,526.97 | 264.02 | 466.42 | 8.00 | 7.48 | -3.14 |
| 5,950.00 | 70.34 | 96.44 | 5,506.75 | -1,532.77 | 310.16 | 512.92 | 8.00 | 7.51 | -2.97 |
| 6,000.00 | 74.10 | 95.02 | 5,522.02 | -1,537.52 | 357.52 | 560.49 | 8.00 | 7.53 | -2.83 |
| 6,027.21 | 76.16 | 94.27 | 5,529.00 | -1,539.65 | 383.73 | 586.75 | 8.00 | 7.55 | -2.75 |
| Niobrara B Chalk | | | | | | | | | |
| 6,050.00 | 77.88 | 93.66 | 5,534.12 | -1,541.18 | 405.89 | 608.91 | 8.00 | 7.55 | -2.70 |
| 6,100.00 | 81.66 | 92.33 | 5,543.00 | -1,543.75 | 455.02 | 657.94 | 8.00 | 7.56 | -2.65 |
| 6,150.00 | 85.45 | 91.03 | 5,548.61 | -1,545.21 | 504.67 | 707.34 | 8.00 | 7.57 | -2.60 |
| 6,200.00 | 89.23 | 89.74 | 5,550.93 | -1,545.54 | 554.60 | 756.87 | 8.00 | 7.58 | -2.57 |
| 6,210.11 | 90.00 | 89.48 | 5,551.00 | -1,545.47 | 564.72 | 766.88 | 8.00 | 7.58 | -2.57 |
| 4288' Hold | | | | | | | | | |
| 6,300.00 | 90.00 | 89.48 | 5,551.00 | -1,544.67 | 654.60 | 855.84 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 90.00 | 89.48 | 5,551.00 | -1,543.77 | 754.60 | 954.82 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 90.00 | 89.48 | 5,551.00 | -1,542.87 | 854.59 | 1,053.79 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 90.00 | 89.48 | 5,551.00 | -1,541.97 | 954.59 | 1,152.76 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 90.00 | 89.48 | 5,551.00 | -1,541.07 | 1,054.58 | 1,251.73 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 90.00 | 89.48 | 5,551.00 | -1,540.17 | 1,154.58 | 1,350.70 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 90.00 | 89.48 | 5,551.00 | -1,539.27 | 1,254.58 | 1,449.67 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 90.00 | 89.48 | 5,551.00 | -1,538.37 | 1,354.57 | 1,548.65 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 90.00 | 89.48 | 5,551.00 | -1,537.47 | 1,454.57 | 1,647.62 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 90.00 | 89.48 | 5,551.00 | -1,536.57 | 1,554.56 | 1,746.59 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|---------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Company: | Bison Oil & Gas II, LLC | TVD Reference: | KB=23' @ 4684.00usft |
| Project: | Weld Co., CO (NAD-83) | MD Reference: | KB=23' @ 4684.00usft |
| Site: | Tatanka Pads | North Reference: | True |
| Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| 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 (°/100usft) | Turn Rate (°/100usft) |
| 7,300.00 | 90.00 | 89.48 | 5,551.00 | -1,535.67 | 1,654.56 | 1,845.56 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 90.00 | 89.48 | 5,551.00 | -1,534.77 | 1,754.56 | 1,944.53 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 90.00 | 89.48 | 5,551.00 | -1,533.87 | 1,854.55 | 2,043.51 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 90.00 | 89.48 | 5,551.00 | -1,532.97 | 1,954.55 | 2,142.48 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 90.00 | 89.48 | 5,551.00 | -1,532.07 | 2,054.54 | 2,241.45 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.00 | 89.48 | 5,551.00 | -1,531.17 | 2,154.54 | 2,340.42 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 90.00 | 89.48 | 5,551.00 | -1,530.27 | 2,254.53 | 2,439.39 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 90.00 | 89.48 | 5,551.00 | -1,529.37 | 2,354.53 | 2,538.37 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 90.00 | 89.48 | 5,551.00 | -1,528.47 | 2,454.53 | 2,637.34 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 90.00 | 89.48 | 5,551.00 | -1,527.57 | 2,554.52 | 2,736.31 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 90.00 | 89.48 | 5,551.00 | -1,526.67 | 2,654.52 | 2,835.28 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.00 | 89.48 | 5,551.00 | -1,525.77 | 2,754.51 | 2,934.25 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.00 | 89.48 | 5,551.00 | -1,524.87 | 2,854.51 | 3,033.23 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.00 | 89.48 | 5,551.00 | -1,523.97 | 2,954.51 | 3,132.20 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.00 | 89.48 | 5,551.00 | -1,523.07 | 3,054.50 | 3,231.17 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 90.00 | 89.48 | 5,551.00 | -1,522.17 | 3,154.50 | 3,330.14 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 90.00 | 89.48 | 5,551.00 | -1,521.27 | 3,254.49 | 3,429.11 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 90.00 | 89.48 | 5,551.00 | -1,520.37 | 3,354.49 | 3,528.09 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 90.00 | 89.48 | 5,551.00 | -1,519.47 | 3,454.49 | 3,627.06 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 90.00 | 89.48 | 5,551.00 | -1,518.57 | 3,554.48 | 3,726.03 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 90.00 | 89.48 | 5,551.00 | -1,517.67 | 3,654.48 | 3,825.00 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.00 | 89.48 | 5,551.00 | -1,516.77 | 3,754.47 | 3,923.97 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 90.00 | 89.48 | 5,551.00 | -1,515.87 | 3,854.47 | 4,022.94 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.00 | 89.48 | 5,551.00 | -1,514.97 | 3,954.47 | 4,121.92 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 90.00 | 89.48 | 5,551.00 | -1,514.07 | 4,054.46 | 4,220.89 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.00 | 89.48 | 5,551.00 | -1,513.17 | 4,154.46 | 4,319.86 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.00 | 89.48 | 5,551.00 | -1,512.27 | 4,254.45 | 4,418.83 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.00 | 89.48 | 5,551.00 | -1,511.37 | 4,354.45 | 4,517.80 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 90.00 | 89.48 | 5,551.00 | -1,510.47 | 4,454.45 | 4,616.78 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 90.00 | 89.48 | 5,551.00 | -1,509.57 | 4,554.44 | 4,715.75 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.00 | 89.48 | 5,551.00 | -1,508.67 | 4,654.44 | 4,814.72 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.00 | 89.48 | 5,551.00 | -1,507.77 | 4,754.43 | 4,913.69 | 0.00 | 0.00 | 0.00 |
| 10,498.60 | 90.00 | 89.48 | 5,551.00 | -1,506.88 | 4,853.03 | 5,011.28 | 0.00 | 0.00 | 0.00 |
| Build 2°/100' | | | | | | | | | |
| 10,500.00 | 90.03 | 89.48 | 5,551.00 | -1,506.87 | 4,854.43 | 5,012.66 | 2.00 | 2.00 | 0.00 |
| 10,527.46 | 90.58 | 89.48 | 5,550.85 | -1,506.62 | 4,881.89 | 5,039.84 | 2.00 | 2.00 | 0.00 |
| 1971' Hold | | | | | | | | | |
| 10,600.00 | 90.58 | 89.48 | 5,550.12 | -1,505.97 | 4,954.42 | 5,111.63 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.58 | 89.48 | 5,549.12 | -1,505.07 | 5,054.41 | 5,210.60 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.58 | 89.48 | 5,548.11 | -1,504.17 | 5,154.40 | 5,309.57 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.58 | 89.48 | 5,547.10 | -1,503.27 | 5,254.39 | 5,408.53 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.58 | 89.48 | 5,546.10 | -1,502.37 | 5,354.38 | 5,507.50 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.58 | 89.48 | 5,545.09 | -1,501.47 | 5,454.38 | 5,606.47 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.58 | 89.48 | 5,544.08 | -1,500.57 | 5,554.37 | 5,705.43 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.58 | 89.48 | 5,543.07 | -1,499.67 | 5,654.36 | 5,804.40 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.58 | 89.48 | 5,542.07 | -1,498.77 | 5,754.35 | 5,903.37 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.58 | 89.48 | 5,541.06 | -1,497.87 | 5,854.34 | 6,002.33 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.58 | 89.48 | 5,540.05 | -1,496.97 | 5,954.33 | 6,101.30 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.58 | 89.48 | 5,539.04 | -1,496.07 | 6,054.32 | 6,200.27 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.58 | 89.48 | 5,538.04 | -1,495.17 | 6,154.31 | 6,299.23 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.58 | 89.48 | 5,537.03 | -1,494.27 | 6,254.30 | 6,398.20 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.58 | 89.48 | 5,536.02 | -1,493.37 | 6,354.29 | 6,497.17 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.58 | 89.48 | 5,535.02 | -1,492.47 | 6,454.28 | 6,596.14 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.58 | 89.48 | 5,534.01 | -1,491.57 | 6,554.28 | 6,695.10 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|---------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Company: | Bison Oil & Gas II, LLC | TVD Reference: | KB=23' @ 4684.00usft |
| Project: | Weld Co., CO (NAD-83) | MD Reference: | KB=23' @ 4684.00usft |
| Site: | Tatanka Pads | North Reference: | True |
| Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| 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 (°/100usft) | Turn Rate (°/100usft) |
| 12,300.00 | 90.58 | 89.48 | 5,533.00 | -1,490.67 | 6,654.27 | 6,794.07 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.58 | 89.48 | 5,531.99 | -1,489.77 | 6,754.26 | 6,893.04 | 0.00 | 0.00 | 0.00 |
| 12,498.70 | 90.58 | 89.48 | 5,531.00 | -1,488.88 | 6,852.95 | 6,990.72 | 0.00 | 0.00 | 0.00 |
| Drop 2°/100' | | | | | | | | | |
| 12,500.00 | 90.55 | 89.48 | 5,530.99 | -1,488.87 | 6,854.25 | 6,992.00 | 2.00 | -2.00 | 0.00 |
| 12,527.66 | 90.00 | 89.48 | 5,530.85 | -1,488.62 | 6,881.91 | 7,019.38 | 2.00 | -2.00 | 0.00 |
| 3861' Hold | | | | | | | | | |
| 12,600.00 | 90.00 | 89.48 | 5,530.86 | -1,487.97 | 6,954.24 | 7,090.97 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.00 | 89.48 | 5,530.86 | -1,487.07 | 7,054.24 | 7,189.95 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.00 | 89.48 | 5,530.87 | -1,486.17 | 7,154.24 | 7,288.92 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.00 | 89.48 | 5,530.87 | -1,485.27 | 7,254.23 | 7,387.89 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.00 | 89.48 | 5,530.87 | -1,484.37 | 7,354.23 | 7,486.86 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 89.48 | 5,530.88 | -1,483.47 | 7,454.22 | 7,585.83 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.00 | 89.48 | 5,530.88 | -1,482.57 | 7,554.22 | 7,684.81 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.00 | 89.48 | 5,530.88 | -1,481.67 | 7,654.22 | 7,783.78 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.00 | 89.48 | 5,530.89 | -1,480.77 | 7,754.21 | 7,882.75 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.00 | 89.48 | 5,530.89 | -1,479.87 | 7,854.21 | 7,981.72 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.00 | 89.48 | 5,530.90 | -1,478.97 | 7,954.20 | 8,080.69 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 89.48 | 5,530.90 | -1,478.07 | 8,054.20 | 8,179.67 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 89.48 | 5,530.90 | -1,477.17 | 8,154.20 | 8,278.64 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 89.48 | 5,530.91 | -1,476.27 | 8,254.19 | 8,377.61 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 89.48 | 5,530.91 | -1,475.37 | 8,354.19 | 8,476.58 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 89.48 | 5,530.91 | -1,474.47 | 8,454.18 | 8,575.55 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.00 | 89.48 | 5,530.92 | -1,473.57 | 8,554.18 | 8,674.53 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.00 | 89.48 | 5,530.92 | -1,472.67 | 8,654.17 | 8,773.50 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.00 | 89.48 | 5,530.93 | -1,471.77 | 8,754.17 | 8,872.47 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.00 | 89.48 | 5,530.93 | -1,470.87 | 8,854.17 | 8,971.44 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.00 | 89.48 | 5,530.93 | -1,469.97 | 8,954.16 | 9,070.41 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.00 | 89.48 | 5,530.94 | -1,469.07 | 9,054.16 | 9,169.38 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.00 | 89.48 | 5,530.94 | -1,468.17 | 9,154.15 | 9,268.36 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.00 | 89.48 | 5,530.94 | -1,467.27 | 9,254.15 | 9,367.33 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.00 | 89.48 | 5,530.95 | -1,466.37 | 9,354.15 | 9,466.30 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.00 | 89.48 | 5,530.95 | -1,465.47 | 9,454.14 | 9,565.27 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.00 | 89.48 | 5,530.96 | -1,464.57 | 9,554.14 | 9,664.24 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.00 | 89.48 | 5,530.96 | -1,463.67 | 9,654.13 | 9,763.22 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.00 | 89.48 | 5,530.96 | -1,462.77 | 9,754.13 | 9,862.19 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.00 | 89.48 | 5,530.97 | -1,461.87 | 9,854.13 | 9,961.16 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.00 | 89.48 | 5,530.97 | -1,460.97 | 9,954.12 | 10,060.13 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 90.00 | 89.48 | 5,530.97 | -1,460.07 | 10,054.12 | 10,159.10 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 90.00 | 89.48 | 5,530.98 | -1,459.17 | 10,154.11 | 10,258.08 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 90.00 | 89.48 | 5,530.98 | -1,458.27 | 10,254.11 | 10,357.05 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 90.00 | 89.48 | 5,530.99 | -1,457.37 | 10,354.11 | 10,456.02 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 90.00 | 89.48 | 5,530.99 | -1,456.47 | 10,454.10 | 10,554.99 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 90.00 | 89.48 | 5,530.99 | -1,455.57 | 10,554.10 | 10,653.96 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 90.00 | 89.48 | 5,531.00 | -1,454.67 | 10,654.09 | 10,752.94 | 0.00 | 0.00 | 0.00 |
| 16,388.76 | 90.00 | 89.48 | 5,531.00 | -1,453.87 | 10,742.85 | 10,840.78 | 0.00 | 0.00 | 0.00 |
| TD at 16388.76 | | | | | | | | | |



| | | | |
|------------------|---------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Company: | Bison Oil & Gas II, LLC | TVD Reference: | KB=23' @ 4684.00usft |
| Project: | Weld Co., CO (NAD-83) | MD Reference: | KB=23' @ 4684.00usft |
| Site: | Tatanka Pads | North Reference: | True |
| Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | Plan #1 | | |

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 |
|--|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------|-------------|
| Tatanka Federal LD13 - plan hits target center - Point | 0.00 | 0.00 | 5,531.00 | -1,488.88 | 6,852.95 | 1,518,741.66 | 3,466,295.61 | 40.745188 | -103.817082 |
| Tatanka Federal LD13 - plan hits target center - Point | 0.00 | 0.00 | 5,531.00 | -1,453.87 | 10,742.85 | 1,518,849.40 | 3,470,184.17 | 40.745280 | -103.803043 |
| Tatanka Federal LD13 - plan hits target center - Point | 0.00 | 0.00 | 5,551.00 | -1,506.88 | 4,853.03 | 1,518,686.27 | 3,464,296.38 | 40.745140 | -103.824299 |
| Tatanka Federal LD13 - plan hits target center - Point | 0.00 | 0.00 | 5,551.00 | -1,545.47 | 564.72 | 1,518,567.50 | 3,460,009.53 | 40.745035 | -103.839775 |

Formations

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------------|-----------------------------|----------------------------------|-----------|------------|-------------------------|
| 340.00 | 340.00 | Pierre Shale (Base of Fox Hills) | | | |
| 3,279.51 | 3,164.00 | Parkman | | | |
| 3,804.71 | 3,661.00 | Sussex | | | |
| 4,438.74 | 4,261.00 | Shannon | | | |
| 5,650.11 | 5,354.00 | Sharon Springs | | | |
| 5,783.16 | 5,434.00 | Sharon Springs Hot Marker | | | |
| 5,822.37 | 5,454.00 | Niobrara A Chalk | | | |
| 6,027.21 | 5,529.00 | Niobrara B Chalk | | | |

Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------------|-----------------------------|-------------------|-----------------|----------------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 500.00 | 500.00 | 0.00 | 0.00 | Build 2°/100; |
| 1,442.89 | 1,425.96 | -152.74 | -17.80 | 3613' Hold |
| 5,056.23 | 4,845.35 | -1,312.79 | -153.02 | Build 8°/100' |
| 6,210.11 | 5,551.00 | -1,545.47 | 564.72 | 4288' Hold |
| 10,498.60 | 5,551.00 | -1,506.88 | 4,853.03 | Build 2°/100' |
| 10,527.46 | 5,550.85 | -1,506.62 | 4,881.89 | 1971' Hold |
| 12,498.70 | 5,531.00 | -1,488.88 | 6,852.95 | Drop 2°/100' |
| 12,527.66 | 5,530.85 | -1,488.62 | 6,881.91 | 3861' Hold |
| 16,388.76 | 5,531.00 | -1,453.87 | 10,742.85 | TD at 16388.76 |



Bison Oil & Gas II, LLC

Weld Co., CO (NAD-83)

Tatanka Pads

Tatanka Federal LD13-615

OH

Plan #1

Anticollision Report

13 January, 2022



| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User 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: | Stations |
| Depth Range: | Unlimited |
| Results Limited by: | Max. Cent. Dist. of 1,000.00usft or Max. SF of 10 |
| Warning Levels Evaluated at: | 2.00 Sigma |
| Error Model: | ISCWSA |
| Scan Method: | Closest Approach 3D |
| Error Surface: | Pedal Curve |
| Casing Method: | Not applied |

| Survey Tool Program | | Date | 1/13/2022 | | |
|---------------------|-----------|-------------------|-------------|--|--|
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 0.00 | 16,388.76 | Plan #1 (OH) | MWD+IFR1+MS | OWSG MWD + IFR1 + Multi-Station Correction | |

| Summary | | | | | | |
|--|--|---------------------------------------|--|---|----------------------|--------------|
| Site Name Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
| Tatanka Offsets | | | | | | |
| Alice G Nay #1 (P&A) - OH - OH | 8,959.63 | 5,504.00 | 1,323.54 | 1,054.22 | 4.914 | CC, ES |
| Alice G Nay #1 (P&A) - OH - OH | 9,000.00 | 5,504.00 | 1,324.16 | 1,054.58 | 4.912 | SF |
| Alice Nay #1 (2) (D&A) - OH - OH | | | | | | Out of range |
| Alice Nay #1 (D&A) - OH - OH | 9,286.76 | 5,511.00 | 1,655.84 | 1,382.73 | 6.063 | CC |
| Alice Nay #1 (D&A) - OH - OH | 9,300.00 | 5,511.00 | 1,655.89 | 1,382.68 | 6.061 | ES |
| Alice Nay #1 (D&A) - OH - OH | 9,400.00 | 5,511.00 | 1,659.71 | 1,385.83 | 6.060 | SF |
| Alice Nay #2 (D&A) - OH - OH | 9,436.41 | 5,507.00 | 1,658.16 | 1,383.58 | 6.039 | CC, ES |
| Alice Nay #2 (D&A) - OH - OH | 9,500.00 | 5,507.00 | 1,659.38 | 1,384.34 | 6.033 | SF |
| Alice Nay (OWP) #1-A (T&A) - OH - OH | | | | | | Out of range |
| Alice Nay 1 (D&A) - OH - OH | 8,957.20 | 5,514.00 | 1,986.67 | 1,716.97 | 7.366 | CC, ES |
| Alice Nay 1 (D&A) - OH - OH | 9,100.00 | 5,514.00 | 1,991.79 | 1,721.06 | 7.357 | SF |
| Brady #1 (D&A) - OH - OH | | | | | | Out of range |
| Castor Federal LD13-78HN - OH - OH | 11,800.00 | 9,888.00 | 396.90 | 280.16 | 3.400 | SF |
| Castor Federal LD13-78HN - OH - OH | 11,920.37 | 9,888.00 | 378.21 | 268.64 | 3.452 | CC, ES |
| Castor Federal LD14-68HN - OH - OH | | | | | | Out of range |
| Castor Federal LD15-72HN - OH - OH | 5,553.40 | 9,861.00 | 476.55 | 401.70 | 6.367 | CC, ES |
| Castor Federal LD15-72HN - OH - OH | 5,650.00 | 9,861.00 | 490.58 | 409.93 | 6.083 | SF |
| Mcdermott #1-14 (P&A) - OH - OH | 9,124.58 | 5,504.00 | 1,489.68 | 1,218.60 | 5.495 | CC, ES |
| Mcdermott #1-14 (P&A) - OH - OH | 9,200.00 | 5,504.00 | 1,491.59 | 1,220.02 | 5.492 | SF |
| Nay (OWP) #1 (D&A) - OH - OH | 8,954.86 | 5,676.00 | 2,660.73 | 2,384.58 | 9.635 | CC |
| Nay (OWP) #1 (D&A) - OH - OH | 9,000.00 | 5,676.00 | 2,661.12 | 2,384.58 | 9.623 | ES |
| Nay (OWP) #1 (D&A) - OH - OH | 9,100.00 | 5,676.00 | 2,664.69 | 2,387.34 | 9.608 | SF |
| Rauth #G (D&A) - OH - OH | 14,200.15 | 5,471.92 | 2,651.22 | 2,322.11 | 8.056 | CC, ES |
| Rauth #G (D&A) - OH - OH | 14,400.00 | 5,471.93 | 2,658.75 | 2,327.96 | 8.038 | SF |
| Zimith #1 (D&A) - OH - OH | 500.00 | 476.00 | 1,719.22 | 1,697.58 | 79.445 | CC |
| Zimith #1 (D&A) - OH - OH | 700.00 | 675.84 | 1,724.30 | 1,693.98 | 56.868 | ES |
| Zimith #1 (D&A) - OH - OH | 2,000.00 | 1,929.16 | 1,975.58 | 1,890.40 | 23.192 | SF |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Summary

| Site Name | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
|---|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|--------------|
| Offset Well - Wellbore - Design | | | | | | |
| Tatanka Pads | | | | | | |
| Tatanka Federal LD13-625 - OH - Plan #1 | 500.00 | 500.00 | 28.06 | 22.86 | 5.396 | CC, ES |
| Tatanka Federal LD13-625 - OH - Plan #1 | 16,388.76 | 16,319.94 | 582.77 | 307.55 | 2.117 | SF |
| Tatanka Federal LD13-635 - OH - Plan #1 | 500.00 | 500.00 | 56.12 | 50.92 | 10.792 | CC, ES |
| Tatanka Federal LD13-635 - OH - Plan #1 | 16,388.76 | 16,173.23 | 1,200.23 | 927.62 | 4.403 | SF |
| Tatanka Federal LD13-645 - OH - Plan #1 | 500.00 | 500.00 | 83.82 | 78.62 | 16.117 | CC, ES |
| Tatanka Federal LD13-645 - OH - Plan #1 | 16,388.76 | 16,123.37 | 1,821.50 | 1,549.38 | 6.694 | SF |
| Tatanka LD13-650 - OH - Plan #1 | 1,100.00 | 1,519.02 | 1,910.08 | 1,898.44 | 164.140 | CC |
| Tatanka LD13-650 - OH - Plan #1 | 1,100.01 | 1,519.03 | 1,910.08 | 1,898.44 | 164.139 | ES |
| Tatanka LD13-650 - OH - Plan #1 | 16,388.76 | 16,276.52 | 2,475.89 | 2,202.40 | 9.053 | SF |
| Tatanka LD13-660 - OH - Plan #1 | 500.00 | 519.00 | 1,982.66 | 1,977.40 | 377.408 | CC, ES |
| Tatanka LD13-660 - OH - Plan #1 | 1,000.00 | 1,186.63 | 1,998.77 | 1,989.68 | 219.992 | SF |
| Tatanka LD13-670 - OH - Plan #1 | | | | | | Out of range |
| Tatanka LD13-685 - OH - Plan #1 | | | | | | Out of range |

Offset Design: Tatanka Offsets - Alice G Nay #1 (P&A) - OH - OH

| Survey Program: 5650-Unknown | | | | | | | | | | | | | Offset Site Error: 0.00 usft |
|-------------------------------------|-----------------------|------------------------------|------------------------------|----------------------------------|-------------------------------|-----------------------|-------------------------------------|-------------------------------------|---------------------------------|----------------------------------|---------------------------|-------------------|-------------------------------------|
| Rule Assigned: | | | | | | | | | | | | | Offset Well Error: 0.00 usft |
| Measured Depth (usft) | Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
| 7,000.00 | 5,551.00 | 5,504.00 | 5,504.00 | 31.47 | 220.16 | -90.00 | -197.24 | 3,302.21 | 2,364.72 | 2,120.53 | 244.19 | 9.684 | |
| 7,100.00 | 5,551.00 | 5,504.00 | 5,504.00 | 32.19 | 220.16 | -90.00 | -197.24 | 3,302.21 | 2,282.54 | 2,037.52 | 245.02 | 9.316 | |
| 7,200.00 | 5,551.00 | 5,504.00 | 5,504.00 | 32.94 | 220.16 | -90.00 | -197.24 | 3,302.21 | 2,201.83 | 1,955.91 | 245.92 | 8.953 | |
| 7,300.00 | 5,551.00 | 5,504.00 | 5,504.00 | 33.71 | 220.16 | -90.00 | -197.24 | 3,302.21 | 2,122.77 | 1,875.87 | 246.90 | 8.598 | |
| 7,400.00 | 5,551.00 | 5,504.00 | 5,504.00 | 34.52 | 220.16 | -90.00 | -197.24 | 3,302.21 | 2,045.53 | 1,797.59 | 247.95 | 8.250 | |
| 7,500.00 | 5,551.00 | 5,504.00 | 5,504.00 | 35.35 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,970.35 | 1,721.27 | 249.08 | 7.910 | |
| 7,600.00 | 5,551.00 | 5,504.00 | 5,504.00 | 36.20 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,897.46 | 1,647.16 | 250.30 | 7.581 | |
| 7,700.00 | 5,551.00 | 5,504.00 | 5,504.00 | 37.07 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,827.14 | 1,575.54 | 251.60 | 7.262 | |
| 7,800.00 | 5,551.00 | 5,504.00 | 5,504.00 | 37.97 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,759.69 | 1,506.71 | 252.98 | 6.956 | |
| 7,900.00 | 5,551.00 | 5,504.00 | 5,504.00 | 38.88 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,695.46 | 1,441.02 | 254.44 | 6.664 | |
| 8,000.00 | 5,551.00 | 5,504.00 | 5,504.00 | 39.81 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,634.83 | 1,378.86 | 255.96 | 6.387 | |
| 8,100.00 | 5,551.00 | 5,504.00 | 5,504.00 | 40.76 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,578.20 | 1,320.66 | 257.54 | 6.128 | |
| 8,200.00 | 5,551.00 | 5,504.00 | 5,504.00 | 41.72 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,526.04 | 1,266.88 | 259.16 | 5.888 | |
| 8,300.00 | 5,551.00 | 5,504.00 | 5,504.00 | 42.70 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,478.81 | 1,218.01 | 260.80 | 5.670 | |
| 8,400.00 | 5,551.00 | 5,504.00 | 5,504.00 | 43.69 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,436.99 | 1,174.58 | 262.41 | 5.476 | |
| 8,500.00 | 5,551.00 | 5,504.00 | 5,504.00 | 44.69 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,401.08 | 1,137.10 | 263.98 | 5.308 | |
| 8,600.00 | 5,551.00 | 5,504.00 | 5,504.00 | 45.71 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,371.53 | 1,106.09 | 265.44 | 5.167 | |
| 8,700.00 | 5,551.00 | 5,504.00 | 5,504.00 | 46.73 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,348.77 | 1,081.99 | 266.78 | 5.056 | |
| 8,800.00 | 5,551.00 | 5,504.00 | 5,504.00 | 47.77 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,333.13 | 1,065.20 | 267.93 | 4.976 | |
| 8,900.00 | 5,551.00 | 5,504.00 | 5,504.00 | 48.82 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,324.88 | 1,056.01 | 268.87 | 4.928 | |
| 8,959.63 | 5,551.00 | 5,504.00 | 5,504.00 | 49.45 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,323.54 | 1,054.22 | 269.32 | 4.914 | CC, ES |
| 9,000.00 | 5,551.00 | 5,504.00 | 5,504.00 | 49.87 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,324.16 | 1,054.58 | 269.58 | 4.912 | SF |
| 9,100.00 | 5,551.00 | 5,504.00 | 5,504.00 | 50.94 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,330.96 | 1,060.94 | 270.03 | 4.929 | |
| 9,200.00 | 5,551.00 | 5,504.00 | 5,504.00 | 52.01 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,345.19 | 1,074.96 | 270.23 | 4.978 | |
| 9,300.00 | 5,551.00 | 5,504.00 | 5,504.00 | 53.09 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,366.61 | 1,096.42 | 270.19 | 5.058 | |
| 9,400.00 | 5,551.00 | 5,504.00 | 5,504.00 | 54.17 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,394.88 | 1,124.94 | 269.94 | 5.167 | |
| 9,500.00 | 5,551.00 | 5,504.00 | 5,504.00 | 55.27 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,429.60 | 1,160.11 | 269.49 | 5.305 | |
| 9,600.00 | 5,551.00 | 5,504.00 | 5,504.00 | 56.37 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,470.32 | 1,201.42 | 268.90 | 5.468 | |
| 9,700.00 | 5,551.00 | 5,504.00 | 5,504.00 | 57.47 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,516.55 | 1,248.36 | 268.18 | 5.655 | |
| 9,800.00 | 5,551.00 | 5,504.00 | 5,504.00 | 58.58 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,567.80 | 1,300.42 | 267.38 | 5.864 | |

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



Altitude Energy Partners

Anticollision Report



| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| | | | | | | | | | | | | | |
|--|------------------------------|------------------------------|------------------------------|-------------------------------|----------------------|-----------------------|---------------------|---------------------|-------------------------------|--------------------------------|--------------------------|---------------------------|-----------|
| Offset Design: Tatanka Offsets - Alice G Nay #1 (P&A) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
| Survey Program: 5650-Unknown | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | | Rule Assigned: | | Distance | | Minimum | Separation | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Separation (usft) | Factor | |
| 9,900.00 | 5,551.00 | 5,504.00 | 5,504.00 | 59.70 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,623.59 | 1,357.08 | 266.52 | 6.092 | |
| 10,000.00 | 5,551.00 | 5,504.00 | 5,504.00 | 60.82 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,683.49 | 1,417.87 | 265.62 | 6.338 | |
| 10,100.00 | 5,551.00 | 5,504.00 | 5,504.00 | 61.95 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,747.06 | 1,482.35 | 264.71 | 6.600 | |
| 10,200.00 | 5,551.00 | 5,504.00 | 5,504.00 | 63.08 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,813.91 | 1,550.11 | 263.80 | 6.876 | |
| 10,300.00 | 5,551.00 | 5,504.00 | 5,504.00 | 64.21 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,883.71 | 1,620.80 | 262.91 | 7.165 | |
| 10,400.00 | 5,551.00 | 5,504.00 | 5,504.00 | 65.35 | 220.16 | -90.00 | -197.24 | 3,302.21 | 1,956.13 | 1,694.09 | 262.04 | 7.465 | |
| 10,498.60 | 5,551.00 | 5,504.00 | 5,504.00 | 66.48 | 220.16 | -90.00 | -197.24 | 3,302.21 | 2,029.83 | 1,768.62 | 261.21 | 7.771 | |
| 10,500.00 | 5,551.00 | 5,504.00 | 5,504.00 | 66.50 | 220.16 | -89.97 | -197.24 | 3,302.21 | 2,030.89 | 1,769.69 | 261.20 | 7.775 | |
| 10,527.46 | 5,550.85 | 5,503.85 | 5,503.85 | 66.81 | 220.15 | -89.32 | -197.24 | 3,302.21 | 2,051.79 | 1,790.83 | 260.97 | 7.862 | |
| 10,600.00 | 5,550.12 | 5,503.12 | 5,503.12 | 67.64 | 220.12 | -89.28 | -197.24 | 3,302.21 | 2,107.74 | 1,847.39 | 260.35 | 8.096 | |
| 10,700.00 | 5,549.12 | 5,502.12 | 5,502.12 | 68.79 | 220.08 | -89.24 | -197.24 | 3,302.21 | 2,186.46 | 1,926.93 | 259.54 | 8.424 | |
| 10,800.00 | 5,548.11 | 5,501.11 | 5,501.11 | 69.94 | 220.04 | -89.20 | -197.24 | 3,302.21 | 2,266.86 | 2,008.10 | 258.76 | 8.761 | |
| 10,900.00 | 5,547.10 | 5,500.10 | 5,500.10 | 71.10 | 220.00 | -89.15 | -197.24 | 3,302.21 | 2,348.77 | 2,090.75 | 258.02 | 9.103 | |
| 11,000.00 | 5,546.10 | 5,499.10 | 5,499.10 | 72.26 | 219.96 | -89.11 | -197.24 | 3,302.21 | 2,432.03 | 2,174.71 | 257.32 | 9.452 | |
| 11,100.00 | 5,545.09 | 5,498.09 | 5,498.09 | 73.42 | 219.92 | -89.07 | -197.24 | 3,302.21 | 2,516.51 | 2,259.86 | 256.65 | 9.805 | |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Offsets - Alice Nay #1 (D&A) - OH - OH | | | | | | | | | | | Offset Site Error: |
|---|-----------------------|-----------------------|-----------------|--------------|------------------------|----------------|------------------------|-------------------|------------|---------|--------------------|
| | | | | | | | | | | | 0.00 usft |
| Survey Program: | Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Rule Assigned: | Distance | Minimum | Separation | Warning | Offset Well Error: |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Reference | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Separation (usft) | Factor | | 0.00 usft |
| 7,500.00 | 5,551.00 | 5,511.00 | 5,511.00 | 35.35 | 220.44 | -90.00 | 137.98 | 3,626.34 | 2,436.05 | 249.54 | 9.762 |
| 7,600.00 | 5,551.00 | 5,511.00 | 5,511.00 | 36.20 | 220.44 | -90.00 | 137.98 | 3,626.34 | 2,363.68 | 251.82 | 9.430 |
| 7,700.00 | 5,551.00 | 5,511.00 | 5,511.00 | 37.07 | 220.44 | -90.00 | 137.98 | 3,626.34 | 2,293.39 | 253.05 | 8.794 |
| 7,800.00 | 5,551.00 | 5,511.00 | 5,511.00 | 37.97 | 220.44 | -90.00 | 137.98 | 3,626.34 | 2,225.37 | 254.35 | 8.492 |
| 7,900.00 | 5,551.00 | 5,511.00 | 5,511.00 | 38.88 | 220.44 | -90.00 | 137.98 | 3,626.34 | 2,159.84 | 255.71 | 8.201 |
| 8,000.00 | 5,551.00 | 5,511.00 | 5,511.00 | 39.81 | 220.44 | -90.00 | 137.98 | 3,626.34 | 2,097.04 | 257.12 | 7.923 |
| 8,100.00 | 5,551.00 | 5,511.00 | 5,511.00 | 40.76 | 220.44 | -90.00 | 137.98 | 3,626.34 | 2,037.21 | 258.58 | 7.660 |
| 8,200.00 | 5,551.00 | 5,511.00 | 5,511.00 | 41.72 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,980.62 | 260.08 | 7.411 |
| 8,300.00 | 5,551.00 | 5,511.00 | 5,511.00 | 42.70 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,927.56 | 261.60 | 7.180 |
| 8,400.00 | 5,551.00 | 5,511.00 | 5,511.00 | 43.69 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,878.34 | 263.14 | 6.967 |
| 8,500.00 | 5,551.00 | 5,511.00 | 5,511.00 | 44.69 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,833.25 | 264.66 | 6.773 |
| 8,600.00 | 5,551.00 | 5,511.00 | 5,511.00 | 45.71 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,792.61 | 266.16 | 6.600 |
| 8,700.00 | 5,551.00 | 5,511.00 | 5,511.00 | 46.73 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,756.73 | 267.60 | 6.450 |
| 8,800.00 | 5,551.00 | 5,511.00 | 5,511.00 | 47.77 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,725.90 | 268.97 | 6.322 |
| 8,900.00 | 5,551.00 | 5,511.00 | 5,511.00 | 48.82 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,700.41 | 270.23 | 6.219 |
| 9,000.00 | 5,551.00 | 5,511.00 | 5,511.00 | 49.87 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,680.49 | 271.38 | 6.140 |
| 9,100.00 | 5,551.00 | 5,511.00 | 5,511.00 | 50.94 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,666.34 | 272.37 | 6.088 |
| 9,200.00 | 5,551.00 | 5,511.00 | 5,511.00 | 52.01 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,658.11 | 273.11 | 6.063 CC |
| 9,286.76 | 5,551.00 | 5,511.00 | 5,511.00 | 52.94 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,655.84 | 273.21 | 6.061 ES |
| 9,300.00 | 5,551.00 | 5,511.00 | 5,511.00 | 53.09 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,655.89 | 273.87 | 6.060 SF |
| 9,400.00 | 5,551.00 | 5,511.00 | 5,511.00 | 54.17 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,659.71 | 274.36 | 6.085 |
| 9,500.00 | 5,551.00 | 5,511.00 | 5,511.00 | 55.27 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,669.51 | 274.67 | 6.135 |
| 9,600.00 | 5,551.00 | 5,511.00 | 5,511.00 | 56.37 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,685.21 | 274.81 | 6.210 |
| 9,700.00 | 5,551.00 | 5,511.00 | 5,511.00 | 57.47 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,706.62 | 274.79 | 6.309 |
| 9,800.00 | 5,551.00 | 5,511.00 | 5,511.00 | 58.58 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,733.55 | 274.62 | 6.430 |
| 9,900.00 | 5,551.00 | 5,511.00 | 5,511.00 | 59.70 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,765.75 | 274.33 | 6.572 |
| 10,000.00 | 5,551.00 | 5,511.00 | 5,511.00 | 60.82 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,802.92 | 273.93 | 6.734 |
| 10,100.00 | 5,551.00 | 5,511.00 | 5,511.00 | 61.95 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,844.76 | 273.44 | 6.915 |
| 10,200.00 | 5,551.00 | 5,511.00 | 5,511.00 | 63.08 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,890.98 | 272.88 | 7.114 |
| 10,300.00 | 5,551.00 | 5,511.00 | 5,511.00 | 64.21 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,941.25 | 272.26 | 7.328 |
| 10,400.00 | 5,551.00 | 5,511.00 | 5,511.00 | 65.35 | 220.44 | -90.00 | 137.98 | 3,626.34 | 1,995.27 | 271.61 | 7.555 |
| 10,498.60 | 5,551.00 | 5,511.00 | 5,511.00 | 66.48 | 220.44 | -90.00 | 137.98 | 3,626.34 | 2,051.91 | 271.60 | 7.558 |
| 10,500.00 | 5,551.00 | 5,511.00 | 5,511.00 | 66.50 | 220.44 | -89.98 | 137.98 | 3,626.34 | 2,052.74 | 271.41 | 7.624 |
| 10,527.46 | 5,550.85 | 5,510.85 | 5,510.85 | 66.81 | 220.43 | -89.57 | 137.98 | 3,626.34 | 2,069.09 | 270.88 | 7.802 |
| 10,600.00 | 5,550.12 | 5,510.12 | 5,510.12 | 67.64 | 220.41 | -89.54 | 137.98 | 3,626.34 | 2,113.38 | 270.13 | 8.059 |
| 10,700.00 | 5,549.12 | 5,509.12 | 5,509.12 | 68.79 | 220.36 | -89.51 | 137.98 | 3,626.34 | 2,176.93 | 269.38 | 8.327 |
| 10,800.00 | 5,548.11 | 5,508.11 | 5,508.11 | 69.94 | 220.32 | -89.47 | 137.98 | 3,626.34 | 2,243.13 | 268.62 | 8.606 |
| 10,900.00 | 5,547.10 | 5,507.10 | 5,507.10 | 71.10 | 220.28 | -89.44 | 137.98 | 3,626.34 | 2,311.77 | 267.87 | 8.895 |
| 11,000.00 | 5,546.10 | 5,506.10 | 5,506.10 | 72.26 | 220.24 | -89.40 | 137.98 | 3,626.34 | 2,382.62 | 267.14 | 9.192 |
| 11,100.00 | 5,545.09 | 5,505.09 | 5,505.09 | 73.42 | 220.20 | -89.37 | 137.98 | 3,626.34 | 2,455.51 | 266.42 | 9.497 |
| 11,200.00 | 5,544.08 | 5,504.08 | 5,504.08 | 74.59 | 220.16 | -89.33 | 137.98 | 3,626.34 | 2,530.24 | 265.72 | 9.810 |
| 11,300.00 | 5,543.07 | 5,503.07 | 5,503.07 | 75.76 | 220.12 | -89.30 | 137.98 | 3,626.34 | 2,606.67 | | |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Offsets - Alice Nay #2 (D&A) - OH - OH | | | | | | | | | | | Offset Site Error: |
|---|-----------------------|-----------------------|-------------------------|--------------|------------------------|----------------|------------------------|-------------------------|-------------------|--------------|--------------------|
| | | | | | | | | | | | 0.00 usft |
| Survey Program: | Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Rule Assigned: | Distance | Minimum | Separation | Warning | Offset Well Error: |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Reference Offset (usft) | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Separation Factor | | 0.00 usft |
| 7,600.00 | 5,551.00 | 5,507.00 | 36.20 | 220.28 | 141.65 | 3,775.96 | 2,474.25 | 2,224.48 | 249.77 | 9.906 | |
| 7,700.00 | 5,551.00 | 5,507.00 | 37.07 | 220.28 | 141.65 | 3,775.96 | 2,400.96 | 2,150.07 | 250.89 | 9.570 | |
| 7,800.00 | 5,551.00 | 5,507.00 | 37.97 | 220.28 | 141.65 | 3,775.96 | 2,329.66 | 2,077.59 | 252.07 | 9.242 | |
| 7,900.00 | 5,551.00 | 5,507.00 | 38.88 | 220.28 | 141.65 | 3,775.96 | 2,260.54 | 2,007.22 | 253.32 | 8.924 | |
| 8,000.00 | 5,551.00 | 5,507.00 | 39.81 | 220.28 | 141.65 | 3,775.96 | 2,193.80 | 1,939.16 | 254.64 | 8.615 | |
| 8,100.00 | 5,551.00 | 5,507.00 | 40.76 | 220.28 | 141.65 | 3,775.96 | 2,129.67 | 1,873.65 | 256.01 | 8.319 | |
| 8,200.00 | 5,551.00 | 5,507.00 | 41.72 | 220.28 | 141.65 | 3,775.96 | 2,068.38 | 1,810.93 | 257.45 | 8.034 | |
| 8,300.00 | 5,551.00 | 5,507.00 | 42.70 | 220.28 | 141.65 | 3,775.96 | 2,010.20 | 1,751.27 | 258.94 | 7.763 | |
| 8,400.00 | 5,551.00 | 5,507.00 | 43.69 | 220.28 | 141.65 | 3,775.96 | 1,955.41 | 1,694.95 | 260.47 | 7.507 | |
| 8,500.00 | 5,551.00 | 5,507.00 | 44.69 | 220.28 | 141.65 | 3,775.96 | 1,904.30 | 1,642.27 | 262.03 | 7.268 | |
| 8,600.00 | 5,551.00 | 5,507.00 | 45.71 | 220.28 | 141.65 | 3,775.96 | 1,857.17 | 1,593.56 | 263.60 | 7.045 | |
| 8,700.00 | 5,551.00 | 5,507.00 | 46.73 | 220.28 | 141.65 | 3,775.96 | 1,814.33 | 1,549.15 | 265.18 | 6.842 | |
| 8,800.00 | 5,551.00 | 5,507.00 | 47.77 | 220.28 | 141.65 | 3,775.96 | 1,776.09 | 1,509.36 | 266.73 | 6.659 | |
| 8,900.00 | 5,551.00 | 5,507.00 | 48.82 | 220.28 | 141.65 | 3,775.96 | 1,742.76 | 1,474.52 | 268.24 | 6.497 | |
| 9,000.00 | 5,551.00 | 5,507.00 | 49.87 | 220.28 | 141.65 | 3,775.96 | 1,714.63 | 1,444.94 | 269.68 | 6.358 | |
| 9,100.00 | 5,551.00 | 5,507.00 | 50.94 | 220.28 | 141.65 | 3,775.96 | 1,691.94 | 1,420.91 | 271.03 | 6.243 | |
| 9,200.00 | 5,551.00 | 5,507.00 | 52.01 | 220.28 | 141.65 | 3,775.96 | 1,674.93 | 1,402.66 | 272.26 | 6.152 | |
| 9,300.00 | 5,551.00 | 5,507.00 | 53.09 | 220.28 | 141.65 | 3,775.96 | 1,663.76 | 1,390.41 | 273.35 | 6.087 | |
| 9,400.00 | 5,551.00 | 5,507.00 | 54.17 | 220.28 | 141.65 | 3,775.96 | 1,658.56 | 1,384.28 | 274.28 | 6.047 | |
| 9,436.41 | 5,551.00 | 5,507.00 | 54.57 | 220.28 | 141.65 | 3,775.96 | 1,658.16 | 1,383.58 | 274.58 | 6.039 CC, ES | |
| 9,500.00 | 5,551.00 | 5,507.00 | 55.27 | 220.28 | 141.65 | 3,775.96 | 1,659.38 | 1,384.34 | 275.04 | 6.033 SF | |
| 9,600.00 | 5,551.00 | 5,507.00 | 56.37 | 220.28 | 141.65 | 3,775.96 | 1,666.21 | 1,390.59 | 275.61 | 6.045 | |
| 9,700.00 | 5,551.00 | 5,507.00 | 57.47 | 220.28 | 141.65 | 3,775.96 | 1,678.98 | 1,402.97 | 276.00 | 6.083 | |
| 9,800.00 | 5,551.00 | 5,507.00 | 58.58 | 220.28 | 141.65 | 3,775.96 | 1,697.55 | 1,421.34 | 276.22 | 6.146 | |
| 9,900.00 | 5,551.00 | 5,507.00 | 59.70 | 220.28 | 141.65 | 3,775.96 | 1,721.74 | 1,445.48 | 276.26 | 6.232 | |
| 10,000.00 | 5,551.00 | 5,507.00 | 60.82 | 220.28 | 141.65 | 3,775.96 | 1,751.32 | 1,475.18 | 276.14 | 6.342 | |
| 10,100.00 | 5,551.00 | 5,507.00 | 61.95 | 220.28 | 141.65 | 3,775.96 | 1,786.01 | 1,510.12 | 275.89 | 6.474 | |
| 10,200.00 | 5,551.00 | 5,507.00 | 63.08 | 220.28 | 141.65 | 3,775.96 | 1,825.53 | 1,550.02 | 275.51 | 6.626 | |
| 10,300.00 | 5,551.00 | 5,507.00 | 64.21 | 220.28 | 141.65 | 3,775.96 | 1,869.56 | 1,594.53 | 275.03 | 6.798 | |
| 10,400.00 | 5,551.00 | 5,507.00 | 65.35 | 220.28 | 141.65 | 3,775.96 | 1,917.81 | 1,643.33 | 274.47 | 6.987 | |
| 10,498.60 | 5,551.00 | 5,507.00 | 66.48 | 220.28 | 141.65 | 3,775.96 | 1,969.20 | 1,695.34 | 273.86 | 7.191 | |
| 10,500.00 | 5,551.00 | 5,507.00 | 66.50 | 220.28 | 141.65 | 3,775.96 | 1,969.95 | 1,696.10 | 273.85 | 7.194 | |
| 10,527.46 | 5,550.85 | 5,506.85 | 66.81 | 220.27 | 141.65 | 3,775.96 | 1,984.91 | 1,711.25 | 273.66 | 7.253 | |
| 10,600.00 | 5,550.12 | 5,506.12 | 67.64 | 220.24 | 141.65 | 3,775.96 | 2,025.69 | 1,752.56 | 273.13 | 7.417 | |
| 10,700.00 | 5,549.12 | 5,505.12 | 68.79 | 220.20 | 141.65 | 3,775.96 | 2,084.73 | 1,812.35 | 272.38 | 7.654 | |
| 10,800.00 | 5,548.11 | 5,504.11 | 69.94 | 220.16 | 141.65 | 3,775.96 | 2,146.82 | 1,875.21 | 271.61 | 7.904 | |
| 10,900.00 | 5,547.10 | 5,503.10 | 71.10 | 220.12 | 141.65 | 3,775.96 | 2,211.68 | 1,940.86 | 270.82 | 8.167 | |
| 11,000.00 | 5,546.10 | 5,502.10 | 72.26 | 220.08 | 141.65 | 3,775.96 | 2,279.08 | 2,009.05 | 270.03 | 8.440 | |
| 11,100.00 | 5,545.09 | 5,501.09 | 73.42 | 220.04 | 141.65 | 3,775.96 | 2,348.81 | 2,079.57 | 269.24 | 8.724 | |
| 11,200.00 | 5,544.08 | 5,500.08 | 74.59 | 220.00 | 141.65 | 3,775.96 | 2,420.66 | 2,152.19 | 268.47 | 9.017 | |
| 11,300.00 | 5,543.07 | 5,499.07 | 75.76 | 219.96 | 141.65 | 3,775.96 | 2,494.45 | 2,226.75 | 267.71 | 9.318 | |
| 11,400.00 | 5,542.07 | 5,498.07 | 76.93 | 219.92 | 141.65 | 3,775.96 | 2,570.02 | 2,303.05 | 266.97 | 9.627 | |
| 11,500.00 | 5,541.06 | 5,497.06 | 78.10 | 219.88 | 141.65 | 3,775.96 | 2,647.20 | 2,380.96 | 266.24 | 9.943 | |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| | | | | | | | | | | | | | |
|---|------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------|---------------------|---------------------|---------------------|-------------------------------|--------------------------------|----------------------------------|---------------------------|----------------|
| Offset Design: Tatanka Offsets - Alice Nay 1 (D&A) - OH - OH | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
| Survey Program: 5705-Unknown | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Rule Assigned: | | | | | | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference | Offset | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
| 7,500.00 | 5,551.00 | 5,514.00 | 5,514.00 | 35.35 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,463.79 | 2,211.27 | 252.52 | 9.757 | |
| 7,600.00 | 5,551.00 | 5,514.00 | 5,514.00 | 36.20 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,406.00 | 2,152.31 | 253.69 | 9.484 | |
| 7,700.00 | 5,551.00 | 5,514.00 | 5,514.00 | 37.07 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,351.04 | 2,096.15 | 254.89 | 9.224 | |
| 7,800.00 | 5,551.00 | 5,514.00 | 5,514.00 | 37.97 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,299.12 | 2,042.99 | 256.13 | 8.976 | |
| 7,900.00 | 5,551.00 | 5,514.00 | 5,514.00 | 38.88 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,250.45 | 1,993.05 | 257.40 | 8.743 | |
| 8,000.00 | 5,551.00 | 5,514.00 | 5,514.00 | 39.81 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,205.24 | 1,946.55 | 258.69 | 8.525 | |
| 8,100.00 | 5,551.00 | 5,514.00 | 5,514.00 | 40.76 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,163.71 | 1,903.72 | 259.99 | 8.322 | |
| 8,200.00 | 5,551.00 | 5,514.00 | 5,514.00 | 41.72 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,126.08 | 1,864.79 | 261.28 | 8.137 | |
| 8,300.00 | 5,551.00 | 5,514.00 | 5,514.00 | 42.70 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,092.55 | 1,829.98 | 262.57 | 7.970 | |
| 8,400.00 | 5,551.00 | 5,514.00 | 5,514.00 | 43.69 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,063.33 | 1,799.50 | 263.82 | 7.821 | |
| 8,500.00 | 5,551.00 | 5,514.00 | 5,514.00 | 44.69 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,038.60 | 1,773.56 | 265.04 | 7.692 | |
| 8,600.00 | 5,551.00 | 5,514.00 | 5,514.00 | 45.71 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,018.53 | 1,752.33 | 266.20 | 7.583 | |
| 8,700.00 | 5,551.00 | 5,514.00 | 5,514.00 | 46.73 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,003.25 | 1,735.96 | 267.29 | 7.495 | |
| 8,800.00 | 5,551.00 | 5,514.00 | 5,514.00 | 47.77 | 220.56 | -90.00 | 465.84 | 3,293.81 | 1,992.88 | 1,724.58 | 268.30 | 7.428 | |
| 8,900.00 | 5,551.00 | 5,514.00 | 5,514.00 | 48.82 | 220.56 | -90.00 | 465.84 | 3,293.81 | 1,987.49 | 1,718.27 | 269.22 | 7.382 | |
| 8,957.20 | 5,551.00 | 5,514.00 | 5,514.00 | 49.42 | 220.56 | -90.00 | 465.84 | 3,293.81 | 1,986.67 | 1,716.97 | 269.70 | 7.366 CC, ES | |
| 9,000.00 | 5,551.00 | 5,514.00 | 5,514.00 | 49.87 | 220.56 | -90.00 | 465.84 | 3,293.81 | 1,987.13 | 1,717.10 | 270.03 | 7.359 | |
| 9,100.00 | 5,551.00 | 5,514.00 | 5,514.00 | 50.94 | 220.56 | -90.00 | 465.84 | 3,293.81 | 1,991.79 | 1,721.06 | 270.74 | 7.357 SF | |
| 9,200.00 | 5,551.00 | 5,514.00 | 5,514.00 | 52.01 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,001.45 | 1,730.12 | 271.33 | 7.377 | |
| 9,300.00 | 5,551.00 | 5,514.00 | 5,514.00 | 53.09 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,016.03 | 1,744.23 | 271.80 | 7.417 | |
| 9,400.00 | 5,551.00 | 5,514.00 | 5,514.00 | 54.17 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,035.42 | 1,763.25 | 272.16 | 7.479 | |
| 9,500.00 | 5,551.00 | 5,514.00 | 5,514.00 | 55.27 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,059.49 | 1,787.07 | 272.42 | 7.560 | |
| 9,600.00 | 5,551.00 | 5,514.00 | 5,514.00 | 56.37 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,088.07 | 1,815.51 | 272.56 | 7.661 | |
| 9,700.00 | 5,551.00 | 5,514.00 | 5,514.00 | 57.47 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,120.99 | 1,848.38 | 272.61 | 7.780 | |
| 9,800.00 | 5,551.00 | 5,514.00 | 5,514.00 | 58.58 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,158.05 | 1,885.48 | 272.57 | 7.917 | |
| 9,900.00 | 5,551.00 | 5,514.00 | 5,514.00 | 59.70 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,199.03 | 1,926.58 | 272.45 | 8.071 | |
| 10,000.00 | 5,551.00 | 5,514.00 | 5,514.00 | 60.82 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,243.72 | 1,971.46 | 272.26 | 8.241 | |
| 10,100.00 | 5,551.00 | 5,514.00 | 5,514.00 | 61.95 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,291.91 | 2,019.90 | 272.01 | 8.426 | |
| 10,200.00 | 5,551.00 | 5,514.00 | 5,514.00 | 63.08 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,343.38 | 2,071.67 | 271.71 | 8.625 | |
| 10,300.00 | 5,551.00 | 5,514.00 | 5,514.00 | 64.21 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,397.91 | 2,126.54 | 271.37 | 8.836 | |
| 10,400.00 | 5,551.00 | 5,514.00 | 5,514.00 | 65.35 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,455.31 | 2,184.32 | 270.99 | 9.061 | |
| 10,498.60 | 5,551.00 | 5,514.00 | 5,514.00 | 66.48 | 220.56 | -90.00 | 465.84 | 3,293.81 | 2,514.52 | 2,243.93 | 270.59 | 9.293 | |
| 10,500.00 | 5,551.00 | 5,514.00 | 5,514.00 | 66.50 | 220.56 | -89.98 | 465.84 | 3,293.81 | 2,515.37 | 2,244.79 | 270.58 | 9.296 | |
| 10,527.46 | 5,550.85 | 5,513.85 | 5,513.85 | 66.81 | 220.55 | -89.54 | 465.84 | 3,293.81 | 2,532.31 | 2,261.84 | 270.46 | 9.363 | |
| 10,600.00 | 5,550.12 | 5,513.12 | 5,513.12 | 67.64 | 220.52 | -89.52 | 465.84 | 3,293.81 | 2,577.91 | 2,307.79 | 270.12 | 9.544 | |
| 10,700.00 | 5,549.12 | 5,512.12 | 5,512.12 | 68.79 | 220.48 | -89.49 | 465.84 | 3,293.81 | 2,642.76 | 2,373.12 | 269.64 | 9.801 | |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Offsets - Castor Federal LD13-78HN - OH - OH | | | | | | | | | | | | | Offset Site Error: |
|---|-----------------------|------------------------------|------------------------------|----------------------------------|-------------------------------|-----------------------|-------------------------------------|-------------------------------------|---------------------------------|--|---------------------------|-------------------|--------------------|
| Survey Program: 275-MWD | | | | | | | | | | | | | Offset Well Error: |
| Measured Depth (usft) | Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Rule Assigned: Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
| 10,000.00 | 5,551.00 | 9,888.00 | 5,519.78 | 60.82 | 88.36 | -90.12 | -1,116.18 | 6,271.43 | 1,957.29 | 1,846.85 | 110.44 | 17.723 | |
| 10,100.00 | 5,551.00 | 9,888.00 | 5,519.78 | 61.95 | 88.36 | -90.12 | -1,116.18 | 6,271.43 | 1,859.27 | 1,748.36 | 110.91 | 16.764 | |
| 10,200.00 | 5,551.00 | 9,888.00 | 5,519.78 | 63.08 | 88.36 | -90.12 | -1,116.18 | 6,271.43 | 1,761.47 | 1,650.04 | 111.43 | 15.808 | |
| 10,300.00 | 5,551.00 | 9,888.00 | 5,519.78 | 64.21 | 88.36 | -90.12 | -1,116.18 | 6,271.43 | 1,663.94 | 1,551.93 | 112.01 | 14.856 | |
| 10,400.00 | 5,551.00 | 9,888.00 | 5,519.78 | 65.35 | 88.36 | -90.12 | -1,116.18 | 6,271.43 | 1,566.72 | 1,454.06 | 112.65 | 13.907 | |
| 10,498.60 | 5,551.00 | 9,888.00 | 5,519.78 | 66.48 | 88.36 | -90.12 | -1,116.18 | 6,271.43 | 1,471.22 | 1,357.85 | 113.37 | 12.978 | |
| 10,500.00 | 5,551.00 | 9,888.00 | 5,519.78 | 66.50 | 88.36 | -90.22 | -1,116.18 | 6,271.43 | 1,469.87 | 1,356.49 | 113.38 | 12.964 | |
| 10,527.46 | 5,550.85 | 9,888.00 | 5,519.78 | 66.81 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 1,443.35 | 1,329.76 | 113.59 | 12.706 | |
| 10,600.00 | 5,550.12 | 9,888.00 | 5,519.78 | 67.64 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 1,373.48 | 1,259.28 | 114.20 | 12.027 | |
| 10,700.00 | 5,549.12 | 9,888.00 | 5,519.78 | 68.79 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 1,277.64 | 1,162.51 | 115.13 | 11.098 | |
| 10,800.00 | 5,548.11 | 9,888.00 | 5,519.78 | 69.94 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 1,182.49 | 1,066.32 | 116.17 | 10.179 | |
| 10,900.00 | 5,547.10 | 9,888.00 | 5,519.78 | 71.10 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 1,088.21 | 970.86 | 117.36 | 9.273 | |
| 11,000.00 | 5,546.10 | 9,888.00 | 5,519.78 | 72.26 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 995.06 | 876.37 | 118.69 | 8.384 | |
| 11,100.00 | 5,545.09 | 9,888.00 | 5,519.78 | 73.42 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 903.36 | 783.19 | 120.17 | 7.517 | |
| 11,200.00 | 5,544.08 | 9,888.00 | 5,519.78 | 74.59 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 813.62 | 691.83 | 121.79 | 6.680 | |
| 11,300.00 | 5,543.07 | 9,888.00 | 5,519.78 | 75.76 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 726.57 | 603.09 | 123.48 | 5.884 | |
| 11,400.00 | 5,542.07 | 9,888.00 | 5,519.78 | 76.93 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 643.30 | 518.23 | 125.07 | 5.144 | |
| 11,500.00 | 5,541.06 | 9,888.00 | 5,519.78 | 78.10 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 565.47 | 439.31 | 126.16 | 4.482 | |
| 11,600.00 | 5,540.05 | 9,888.00 | 5,519.78 | 79.28 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 495.66 | 369.68 | 125.98 | 3.934 | |
| 11,700.00 | 5,539.04 | 9,888.00 | 5,519.78 | 80.45 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 437.73 | 314.52 | 123.22 | 3.553 | |
| 11,800.00 | 5,538.04 | 9,888.00 | 5,519.78 | 81.63 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 396.90 | 280.16 | 116.74 | 3.400 SF | |
| 11,900.00 | 5,537.03 | 9,888.00 | 5,519.78 | 82.82 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 378.76 | 268.82 | 109.94 | 3.445 | |
| 11,920.37 | 5,536.83 | 9,888.00 | 5,519.78 | 83.06 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 378.21 | 268.64 | 109.57 | 3.452 CC, ES | |
| 12,000.00 | 5,536.02 | 9,888.00 | 5,519.78 | 84.00 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 386.50 | 273.73 | 112.77 | 3.427 | |
| 12,100.00 | 5,535.02 | 9,888.00 | 5,519.78 | 85.19 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 418.70 | 298.93 | 119.77 | 3.496 | |
| 12,200.00 | 5,534.01 | 9,888.00 | 5,519.78 | 86.37 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 470.35 | 346.67 | 123.69 | 3.803 | |
| 12,300.00 | 5,533.00 | 9,888.00 | 5,519.78 | 87.56 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 535.87 | 411.30 | 124.58 | 4.302 | |
| 12,400.00 | 5,531.99 | 9,888.00 | 5,519.78 | 88.75 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 610.80 | 486.98 | 123.82 | 4.933 | |
| 12,498.70 | 5,531.00 | 9,888.00 | 5,519.78 | 89.93 | 88.36 | -92.27 | -1,116.18 | 6,271.43 | 691.02 | 568.61 | 122.41 | 5.645 | |
| 12,500.00 | 5,530.99 | 9,888.00 | 5,519.78 | 89.94 | 88.36 | -92.31 | -1,116.18 | 6,271.43 | 692.10 | 569.72 | 122.39 | 5.655 | |
| 12,527.66 | 5,530.85 | 9,888.00 | 5,519.78 | 90.27 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 715.43 | 593.49 | 121.94 | 5.867 | |
| 12,600.00 | 5,530.86 | 9,888.00 | 5,519.78 | 91.14 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 777.75 | 657.00 | 120.76 | 6.441 | |
| 12,700.00 | 5,530.86 | 9,888.00 | 5,519.78 | 92.33 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 866.48 | 747.30 | 119.18 | 7.270 | |
| 12,800.00 | 5,530.87 | 9,888.00 | 5,519.78 | 93.53 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 957.43 | 839.68 | 117.75 | 8.131 | |
| 12,900.00 | 5,530.87 | 9,888.00 | 5,519.78 | 94.73 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 1,050.03 | 933.54 | 116.49 | 9.014 | |
| 13,000.00 | 5,530.87 | 9,888.00 | 5,519.78 | 95.93 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 1,143.88 | 1,028.48 | 115.40 | 9.912 | |
| 13,100.00 | 5,530.88 | 9,888.00 | 5,519.78 | 97.13 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 1,238.69 | 1,124.22 | 114.46 | 10.822 | |
| 13,200.00 | 5,530.88 | 9,888.00 | 5,519.78 | 98.33 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 1,334.25 | 1,220.59 | 113.66 | 11.739 | |
| 13,300.00 | 5,530.88 | 9,888.00 | 5,519.78 | 99.53 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 1,430.43 | 1,317.45 | 112.98 | 12.661 | |
| 13,400.00 | 5,530.89 | 9,888.00 | 5,519.78 | 100.73 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 1,527.09 | 1,414.70 | 112.40 | 13.587 | |
| 13,500.00 | 5,530.89 | 9,888.00 | 5,519.78 | 101.94 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 1,624.16 | 1,512.26 | 111.90 | 14.514 | |
| 13,600.00 | 5,530.90 | 9,888.00 | 5,519.78 | 103.15 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 1,721.57 | 1,610.08 | 111.48 | 15.443 | |
| 13,700.00 | 5,530.90 | 9,888.00 | 5,519.78 | 104.35 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 1,819.25 | 1,708.13 | 111.12 | 16.371 | |
| 13,800.00 | 5,530.90 | 9,888.00 | 5,519.78 | 105.56 | 88.36 | -93.17 | -1,116.18 | 6,271.43 | 1,917.18 | 1,806.35 | 110.82 | 17.299 | |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Offsets - Castor Federal LD15-72HN - OH - OH | | | | | | | | | | | | | Offset Site Error: 0.00 usft |
|---|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|-------------------------------------|-------------------------------------|---------------------------------|--|---------------------------|-------------------|------------------------------|
| Survey Program: 350-MWD | | | | | | | | | | | | | Offset Well Error: 0.00 usft |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Rule Assigned: Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
| 3,800.00 | 3,656.55 | 9,569.00 | 5,624.81 | 17.73 | 76.30 | 164.06 | -905.92 | -279.94 | 1,932.11 | 1,884.76 | 47.35 | 40.801 | |
| 3,900.00 | 3,751.18 | 9,600.60 | 5,624.95 | 18.24 | 76.85 | 163.71 | -937.50 | -278.98 | 1,837.58 | 1,789.77 | 47.81 | 38.434 | |
| 4,000.00 | 3,845.81 | 9,630.81 | 5,625.13 | 18.74 | 77.37 | 163.35 | -967.70 | -277.94 | 1,743.10 | 1,694.83 | 48.28 | 36.108 | |
| 4,100.00 | 3,940.44 | 9,664.00 | 5,625.39 | 19.25 | 77.95 | 162.93 | -1,000.86 | -276.66 | 1,648.68 | 1,599.94 | 48.74 | 33.827 | |
| 4,200.00 | 4,035.08 | 9,690.06 | 5,625.66 | 19.76 | 78.41 | 162.58 | -1,026.89 | -275.55 | 1,554.32 | 1,505.09 | 49.23 | 31.572 | |
| 4,300.00 | 4,129.71 | 9,719.12 | 5,626.04 | 20.26 | 78.91 | 162.16 | -1,055.92 | -274.17 | 1,460.07 | 1,410.34 | 49.73 | 29.361 | |
| 4,400.00 | 4,224.34 | 9,748.67 | 5,626.52 | 20.77 | 79.43 | 161.70 | -1,085.42 | -272.63 | 1,365.91 | 1,315.68 | 50.23 | 27.191 | |
| 4,500.00 | 4,318.97 | 9,781.53 | 5,627.15 | 21.28 | 80.00 | 161.15 | -1,118.22 | -270.75 | 1,271.84 | 1,221.11 | 50.74 | 25.068 | |
| 4,600.00 | 4,413.61 | 9,815.37 | 5,627.80 | 21.79 | 80.60 | 160.51 | -1,151.99 | -268.67 | 1,177.78 | 1,126.54 | 51.24 | 22.986 | |
| 4,700.00 | 4,508.24 | 9,848.99 | 5,628.44 | 22.30 | 81.18 | 159.77 | -1,185.54 | -266.60 | 1,083.74 | 1,031.98 | 51.76 | 20.939 | |
| 4,800.00 | 4,602.87 | 9,881.00 | 5,628.68 | 22.81 | 81.39 | 159.47 | -1,197.53 | -265.87 | 989.96 | 937.43 | 52.53 | 18.846 | |
| 4,900.00 | 4,697.50 | 9,861.00 | 5,628.68 | 23.32 | 81.39 | 159.47 | -1,197.53 | -265.87 | 897.44 | 843.88 | 53.56 | 16.754 | |
| 5,000.00 | 4,792.14 | 9,861.00 | 5,628.68 | 23.83 | 81.39 | 159.47 | -1,197.53 | -265.87 | 806.71 | 751.93 | 54.78 | 14.725 | |
| 5,056.23 | 4,845.35 | 9,861.00 | 5,628.68 | 24.11 | 81.39 | 159.47 | -1,197.53 | -265.87 | 756.72 | 701.16 | 55.56 | 13.620 | |
| 5,100.00 | 4,886.79 | 9,861.00 | 5,628.68 | 24.32 | 81.39 | 163.84 | -1,197.53 | -265.87 | 718.63 | 662.39 | 56.24 | 12.777 | |
| 5,150.00 | 4,934.07 | 9,861.00 | 5,628.68 | 24.57 | 81.39 | 169.52 | -1,197.53 | -265.87 | 676.56 | 619.40 | 57.16 | 11.836 | |
| 5,200.00 | 4,981.04 | 9,861.00 | 5,628.68 | 24.79 | 81.39 | 175.08 | -1,197.53 | -265.87 | 636.56 | 578.29 | 58.27 | 10.924 | |
| 5,250.00 | 5,027.48 | 9,861.00 | 5,628.68 | 25.01 | 81.39 | 179.99 | -1,197.53 | -265.87 | 599.23 | 539.62 | 59.61 | 10.052 | |
| 5,300.00 | 5,073.17 | 9,861.00 | 5,628.68 | 25.19 | 81.39 | -175.89 | -1,197.53 | -265.87 | 565.31 | 504.07 | 61.25 | 9.230 | |
| 5,350.00 | 5,117.89 | 9,861.00 | 5,628.68 | 25.36 | 81.39 | -172.46 | -1,197.53 | -265.87 | 535.64 | 472.41 | 63.23 | 8.471 | |
| 5,400.00 | 5,161.41 | 9,861.00 | 5,628.68 | 25.51 | 81.39 | -169.56 | -1,197.53 | -265.87 | 511.09 | 445.49 | 65.60 | 7.791 | |
| 5,450.00 | 5,203.52 | 9,861.00 | 5,628.68 | 25.63 | 81.39 | -167.02 | -1,197.53 | -265.87 | 492.58 | 424.21 | 68.36 | 7.205 | |
| 5,500.00 | 5,244.02 | 9,861.00 | 5,628.68 | 25.74 | 81.39 | -164.70 | -1,197.53 | -265.87 | 480.88 | 409.46 | 71.43 | 6.732 | |
| 5,550.00 | 5,282.71 | 9,861.00 | 5,628.68 | 25.84 | 81.39 | -162.47 | -1,197.53 | -265.87 | 476.57 | 401.94 | 74.63 | 6.386 | |
| 5,553.40 | 5,285.27 | 9,861.00 | 5,628.68 | 25.85 | 81.39 | -162.32 | -1,197.53 | -265.87 | 476.55 | 401.70 | 74.85 | 6.367 CC, ES | |
| 5,600.00 | 5,319.41 | 9,861.00 | 5,628.68 | 25.93 | 81.39 | -160.23 | -1,197.53 | -265.87 | 479.86 | 402.09 | 77.77 | 6.170 | |
| 5,600.06 | 5,319.45 | 9,861.00 | 5,628.68 | 25.93 | 81.39 | -160.23 | -1,197.53 | -265.87 | 479.87 | 402.09 | 77.77 | 6.170 | |
| 5,650.00 | 5,353.93 | 9,861.00 | 5,628.68 | 26.01 | 81.39 | -157.89 | -1,197.53 | -265.87 | 490.58 | 409.93 | 80.65 | 6.083 SF | |
| 5,700.00 | 5,386.10 | 9,861.00 | 5,628.68 | 26.09 | 81.39 | -155.35 | -1,197.53 | -265.87 | 508.21 | 425.08 | 83.14 | 6.113 | |
| 5,750.00 | 5,415.77 | 9,861.00 | 5,628.68 | 26.16 | 81.39 | -152.52 | -1,197.53 | -265.87 | 531.99 | 446.79 | 85.20 | 6.244 | |
| 5,800.00 | 5,442.80 | 9,861.00 | 5,628.68 | 26.24 | 81.39 | -149.30 | -1,197.53 | -265.87 | 561.03 | 474.16 | 86.87 | 6.458 | |
| 5,850.00 | 5,467.05 | 9,861.00 | 5,628.68 | 26.32 | 81.39 | -145.57 | -1,197.53 | -265.87 | 594.42 | 506.22 | 88.20 | 6.739 | |
| 5,900.00 | 5,488.40 | 9,861.00 | 5,628.68 | 26.41 | 81.39 | -141.20 | -1,197.53 | -265.87 | 631.33 | 542.07 | 89.27 | 7.072 | |
| 5,950.00 | 5,506.75 | 9,861.00 | 5,628.68 | 26.50 | 81.39 | -136.06 | -1,197.53 | -265.87 | 671.02 | 580.88 | 90.14 | 7.444 | |
| 6,000.00 | 5,522.02 | 9,861.00 | 5,628.68 | 26.61 | 81.39 | -130.01 | -1,197.53 | -265.87 | 712.83 | 621.97 | 90.87 | 7.845 | |
| 6,050.00 | 5,534.12 | 9,861.00 | 5,628.68 | 26.73 | 81.39 | -122.99 | -1,197.53 | -265.87 | 756.25 | 664.75 | 91.49 | 8.266 | |
| 6,100.00 | 5,543.00 | 9,861.00 | 5,628.68 | 26.86 | 81.39 | -115.02 | -1,197.53 | -265.87 | 800.80 | 708.75 | 92.04 | 8.700 | |
| 6,150.00 | 5,548.61 | 9,861.00 | 5,628.68 | 27.01 | 81.39 | -106.30 | -1,197.53 | -265.87 | 846.11 | 753.58 | 92.54 | 9.144 | |
| 6,200.00 | 5,550.93 | 9,861.00 | 5,628.68 | 27.17 | 81.39 | -97.24 | -1,197.53 | -265.87 | 891.86 | 798.88 | 92.98 | 9.592 | |
| 6,210.11 | 5,551.00 | 9,861.00 | 5,628.68 | 27.20 | 81.39 | -95.41 | -1,197.53 | -265.87 | 901.15 | 808.08 | 93.07 | 9.683 | |
| 6,300.00 | 5,551.00 | 9,861.00 | 5,628.68 | 27.54 | 81.39 | -95.41 | -1,197.53 | -265.87 | 984.32 | 890.61 | 93.72 | 10.503 | |
| 6,400.00 | 5,551.00 | 9,861.00 | 5,628.68 | 27.96 | 81.39 | -95.41 | -1,197.53 | -265.87 | 1,078.13 | 983.86 | 94.27 | 11.437 | |
| 6,500.00 | 5,551.00 | 9,861.00 | 5,628.68 | 28.44 | 81.39 | -95.41 | -1,197.53 | -265.87 | 1,172.95 | 1,078.27 | 94.68 | 12.388 | |
| 6,600.00 | 5,551.00 | 9,861.00 | 5,628.68 | 28.96 | 81.39 | -95.41 | -1,197.53 | -265.87 | 1,268.57 | 1,173.57 | 95.01 | 13.352 | |
| 6,700.00 | 5,551.00 | 9,861.00 | 5,628.68 | 29.53 | 81.39 | -95.41 | -1,197.53 | -265.87 | 1,364.82 | 1,269.56 | 95.27 | 14.326 | |
| 6,800.00 | 5,551.00 | 9,861.00 | 5,628.68 | 30.14 | 81.39 | -95.41 | -1,197.53 | -265.87 | 1,461.57 | 1,366.10 | 95.48 | 15.308 | |
| 6,900.00 | 5,551.00 | 9,861.00 | 5,628.68 | 30.79 | 81.39 | -95.41 | -1,197.53 | -265.87 | 1,558.74 | 1,463.09 | 95.65 | 16.296 | |
| 7,000.00 | 5,551.00 | 9,861.00 | 5,628.68 | 31.47 | 81.39 | -95.41 | -1,197.53 | -265.87 | 1,656.24 | 1,560.44 | 95.80 | 17.289 | |
| 7,100.00 | 5,551.00 | 9,861.00 | 5,628.68 | 32.19 | 81.39 | -95.41 | -1,197.53 | -265.87 | 1,754.02 | 1,658.10 | 95.92 | 18.286 | |
| 7,200.00 | 5,551.00 | 9,861.00 | 5,628.68 | 32.94 | 81.39 | -95.41 | -1,197.53 | -265.87 | 1,852.04 | 1,756.00 | 96.03 | 19.285 | |
| 7,300.00 | 5,551.00 | 9,861.00 | 5,628.68 | 33.71 | 81.39 | -95.41 | -1,197.53 | -265.87 | 1,950.26 | 1,854.13 | 96.13 | 20.288 | |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Offsets - Mcdermott #1-14 (P&A) - OH - OH | | | | | | | | | | | Offset Site Error: |
|--|-----------------------|-----------------------|-----------------|--------------|------------------------|----------------|------------------------|-------------------|------------|---------|--------------------|
| | | | | | | | | | | | 0.00 usft |
| Survey Program: | Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Rule Assigned: | Distance | Minimum | Separation | Warning | Offset Well Error: |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Reference | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Separation (usft) | Factor | | 0.00 usft |
| 7,200.00 | 5,551.00 | 5,504.00 | 32.94 | 220.16 | -90.00 | -29.63 | 3,465.66 | 2,433.76 | 2,187.61 | 246.14 | 9.888 |
| 7,300.00 | 5,551.00 | 5,504.00 | 33.71 | 220.16 | -90.00 | -29.63 | 3,465.66 | 2,355.47 | 2,108.39 | 247.08 | 9.533 |
| 7,400.00 | 5,551.00 | 5,504.00 | 34.52 | 220.16 | -90.00 | -29.63 | 3,465.66 | 2,278.89 | 2,030.79 | 248.09 | 9.186 |
| 7,500.00 | 5,551.00 | 5,504.00 | 35.35 | 220.16 | -90.00 | -29.63 | 3,465.66 | 2,204.18 | 1,955.01 | 249.18 | 8.846 |
| 7,600.00 | 5,551.00 | 5,504.00 | 36.20 | 220.16 | -90.00 | -29.63 | 3,465.66 | 2,131.55 | 1,881.22 | 250.33 | 8.515 |
| 7,700.00 | 5,551.00 | 5,504.00 | 37.07 | 220.16 | -90.00 | -29.63 | 3,465.66 | 2,061.21 | 1,809.65 | 251.56 | 8.194 |
| 7,800.00 | 5,551.00 | 5,504.00 | 37.97 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,993.41 | 1,740.55 | 252.86 | 7.884 |
| 7,900.00 | 5,551.00 | 5,504.00 | 38.88 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,928.41 | 1,674.18 | 254.22 | 7.585 |
| 8,000.00 | 5,551.00 | 5,504.00 | 39.81 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,866.50 | 1,610.85 | 255.66 | 7.301 |
| 8,100.00 | 5,551.00 | 5,504.00 | 40.76 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,808.01 | 1,550.87 | 257.15 | 7.031 |
| 8,200.00 | 5,551.00 | 5,504.00 | 41.72 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,753.28 | 1,494.60 | 258.68 | 6.778 |
| 8,300.00 | 5,551.00 | 5,504.00 | 42.70 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,702.67 | 1,442.42 | 260.25 | 6.543 |
| 8,400.00 | 5,551.00 | 5,504.00 | 43.69 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,656.55 | 1,394.73 | 261.82 | 6.327 |
| 8,500.00 | 5,551.00 | 5,504.00 | 44.69 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,615.32 | 1,351.93 | 263.39 | 6.133 |
| 8,600.00 | 5,551.00 | 5,504.00 | 45.71 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,579.35 | 1,314.43 | 264.91 | 5.962 |
| 8,700.00 | 5,551.00 | 5,504.00 | 46.73 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,549.00 | 1,282.64 | 266.37 | 5.815 |
| 8,800.00 | 5,551.00 | 5,504.00 | 47.77 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,524.63 | 1,256.91 | 267.73 | 5.695 |
| 8,900.00 | 5,551.00 | 5,504.00 | 48.82 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,506.51 | 1,237.56 | 268.95 | 5.601 |
| 9,000.00 | 5,551.00 | 5,504.00 | 49.87 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,494.88 | 1,224.87 | 270.01 | 5.536 |
| 9,100.00 | 5,551.00 | 5,504.00 | 50.94 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,489.88 | 1,218.99 | 270.89 | 5.500 |
| 9,124.58 | 5,551.00 | 5,504.00 | 51.20 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,489.68 | 1,218.60 | 271.08 | 5.495 CC, ES |
| 9,200.00 | 5,551.00 | 5,504.00 | 52.01 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,491.59 | 1,220.02 | 271.57 | 5.492 SF |
| 9,300.00 | 5,551.00 | 5,504.00 | 53.09 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,499.97 | 1,227.93 | 272.04 | 5.514 |
| 9,400.00 | 5,551.00 | 5,504.00 | 54.17 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,514.93 | 1,242.62 | 272.30 | 5.563 |
| 9,500.00 | 5,551.00 | 5,504.00 | 55.27 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,536.26 | 1,263.89 | 272.37 | 5.640 |
| 9,600.00 | 5,551.00 | 5,504.00 | 56.37 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,563.70 | 1,291.46 | 272.24 | 5.744 |
| 9,700.00 | 5,551.00 | 5,504.00 | 57.47 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,596.95 | 1,324.99 | 271.96 | 5.872 |
| 9,800.00 | 5,551.00 | 5,504.00 | 58.58 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,635.64 | 1,364.11 | 271.53 | 6.024 |
| 9,900.00 | 5,551.00 | 5,504.00 | 59.70 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,679.41 | 1,408.42 | 270.99 | 6.197 |
| 10,000.00 | 5,551.00 | 5,504.00 | 60.82 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,727.86 | 1,457.50 | 270.36 | 6.391 |
| 10,100.00 | 5,551.00 | 5,504.00 | 61.95 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,780.61 | 1,510.96 | 269.65 | 6.603 |
| 10,200.00 | 5,551.00 | 5,504.00 | 63.08 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,837.30 | 1,568.39 | 268.91 | 6.833 |
| 10,300.00 | 5,551.00 | 5,504.00 | 64.21 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,897.56 | 1,629.44 | 268.12 | 7.077 |
| 10,400.00 | 5,551.00 | 5,504.00 | 65.35 | 220.16 | -90.00 | -29.63 | 3,465.66 | 1,961.08 | 1,693.75 | 267.33 | 7.336 |
| 10,498.60 | 5,551.00 | 5,504.00 | 66.48 | 220.16 | -90.00 | -29.63 | 3,465.66 | 2,026.59 | 1,760.05 | 266.54 | 7.603 |
| 10,500.00 | 5,551.00 | 5,504.00 | 66.50 | 220.16 | -89.97 | -29.63 | 3,465.66 | 2,027.54 | 1,761.01 | 266.53 | 7.607 |
| 10,527.46 | 5,550.85 | 5,503.85 | 66.81 | 220.15 | -89.46 | -29.63 | 3,465.66 | 2,046.26 | 1,779.96 | 266.30 | 7.684 |
| 10,600.00 | 5,550.12 | 5,503.12 | 67.64 | 220.12 | -89.43 | -29.63 | 3,465.66 | 2,096.66 | 1,830.97 | 265.69 | 7.891 |
| 10,700.00 | 5,549.12 | 5,502.12 | 68.79 | 220.08 | -89.39 | -29.63 | 3,465.66 | 2,168.19 | 1,903.32 | 264.87 | 8.186 |
| 10,800.00 | 5,548.11 | 5,501.11 | 69.94 | 220.04 | -89.35 | -29.63 | 3,465.66 | 2,241.90 | 1,977.83 | 264.07 | 8.490 |
| 10,900.00 | 5,547.10 | 5,500.10 | 71.10 | 220.00 | -89.31 | -29.63 | 3,465.66 | 2,317.58 | 2,054.30 | 263.28 | 8.803 |
| 11,000.00 | 5,546.10 | 5,499.10 | 72.26 | 219.96 | -89.27 | -29.63 | 3,465.66 | 2,395.04 | 2,132.52 | 262.53 | 9.123 |
| 11,100.00 | 5,545.09 | 5,498.09 | 73.42 | 219.92 | -89.23 | -29.63 | 3,465.66 | 2,474.13 | 2,212.33 | 261.80 | 9.451 |
| 11,200.00 | 5,544.08 | 5,497.08 | 74.59 | 219.88 | -89.20 | -29.63 | 3,465.66 | 2,554.67 | 2,293.58 | 261.10 | 9.784 |



Altitude Energy Partners

Anticollision Report



| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Offsets - Nay (OWP) #1 (D&A) - OH - OH | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|---|-----------------------|---|-----------------------|------------------------|---------------|-----------------------|--------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: | | 6310-Unknown <th colspan="7">Rule Assigned:</th> <th>Offset Well Error:</th> <td>0.00 usft</td> | | | | Rule Assigned: | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | Offset | Semi Major Axis | | Offset Wellbore Centre | | Distance | | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | | |
| 8,500.00 | 5,551.00 | 5,676.00 | 5,676.00 | 44.69 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,699.33 | 2,427.65 | 271.69 | 9.935 | | |
| 8,600.00 | 5,551.00 | 5,676.00 | 5,676.00 | 45.71 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,684.29 | 2,411.55 | 272.74 | 9.842 | | |
| 8,700.00 | 5,551.00 | 5,676.00 | 5,676.00 | 46.73 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,672.91 | 2,399.15 | 273.76 | 9.764 | | |
| 8,800.00 | 5,551.00 | 5,676.00 | 5,676.00 | 47.77 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,665.24 | 2,390.50 | 274.74 | 9.701 | | |
| 8,900.00 | 5,551.00 | 5,676.00 | 5,676.00 | 48.82 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,661.30 | 2,385.63 | 275.67 | 9.654 | | |
| 8,954.86 | 5,551.00 | 5,676.00 | 5,676.00 | 49.40 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,660.73 | 2,384.58 | 276.15 | 9.635 | CC | |
| 9,000.00 | 5,551.00 | 5,676.00 | 5,676.00 | 49.87 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,661.12 | 2,384.58 | 276.54 | 9.623 | ES | |
| 9,100.00 | 5,551.00 | 5,676.00 | 5,676.00 | 50.94 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,664.69 | 2,387.34 | 277.35 | 9.608 | SF | |
| 9,200.00 | 5,551.00 | 5,676.00 | 5,676.00 | 52.01 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,672.00 | 2,393.90 | 278.11 | 9.608 | | |
| 9,300.00 | 5,551.00 | 5,676.00 | 5,676.00 | 53.09 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,683.03 | 2,404.23 | 278.79 | 9.624 | | |
| 9,400.00 | 5,551.00 | 5,676.00 | 5,676.00 | 54.17 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,697.71 | 2,418.30 | 279.42 | 9.655 | | |
| 9,500.00 | 5,551.00 | 5,676.00 | 5,676.00 | 55.27 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,716.00 | 2,436.03 | 279.97 | 9.701 | | |
| 9,600.00 | 5,551.00 | 5,676.00 | 5,676.00 | 56.37 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,737.83 | 2,457.37 | 280.46 | 9.762 | | |
| 9,700.00 | 5,551.00 | 5,676.00 | 5,676.00 | 57.47 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,763.10 | 2,482.22 | 280.88 | 9.837 | | |
| 9,800.00 | 5,551.00 | 5,676.00 | 5,676.00 | 58.58 | 227.04 | -90.00 | 1,139.85 | 3,285.41 | 2,791.73 | 2,510.49 | 281.24 | 9.926 | | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Offsets - Rauth #G (D&A) - OH - OH | | | | | | | | | | | Offset Site Error: 0.00 usft | | | | |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|--------------|--------------|------------------------|-------------------------|------------------------------|-------------------|---------|------------------------------|--|
| Survey Program: 6218-Unknown | | | Reference Offset | | | Semi Major Axis | | | Offset Wellbore Centre | | | Rule Assigned: | | Offset Well Error: 0.00 usft | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning | | |
| 12,800.00 | 5,530.87 | 5,471.87 | 5,471.87 | 93.53 | 218.87 | -90.00 | 1,177.55 | 8,530.47 | 2,998.23 | 2,693.65 | 304.58 | 9.844 | | | |
| 12,900.00 | 5,530.87 | 5,471.87 | 5,471.87 | 94.73 | 218.87 | -90.00 | 1,177.55 | 8,530.47 | 2,952.86 | 2,646.14 | 306.72 | 9.627 | | | |
| 13,000.00 | 5,530.87 | 5,471.87 | 5,471.87 | 95.93 | 218.87 | -90.00 | 1,177.55 | 8,530.47 | 2,910.21 | 2,601.37 | 308.84 | 9.423 | | | |
| 13,100.00 | 5,530.88 | 5,471.88 | 5,471.88 | 97.13 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,870.42 | 2,559.47 | 310.95 | 9.231 | | | |
| 13,200.00 | 5,530.88 | 5,471.88 | 5,471.88 | 98.33 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,833.60 | 2,520.58 | 313.02 | 9.053 | | | |
| 13,300.00 | 5,530.88 | 5,471.88 | 5,471.88 | 99.53 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,799.87 | 2,484.83 | 315.04 | 8.887 | | | |
| | | | | | | | | | | | | | | | |
| 13,400.00 | 5,530.89 | 5,471.89 | 5,471.89 | 100.73 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,769.34 | 2,452.33 | 317.00 | 8.736 | | | |
| 13,500.00 | 5,530.89 | 5,471.89 | 5,471.89 | 101.94 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,742.11 | 2,423.22 | 318.89 | 8.599 | | | |
| 13,600.00 | 5,530.90 | 5,471.90 | 5,471.90 | 103.15 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,718.30 | 2,397.60 | 320.70 | 8.476 | | | |
| 13,700.00 | 5,530.90 | 5,471.90 | 5,471.90 | 104.35 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,697.99 | 2,375.58 | 322.41 | 8.368 | | | |
| 13,800.00 | 5,530.90 | 5,471.90 | 5,471.90 | 105.56 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,681.25 | 2,357.24 | 324.01 | 8.275 | | | |
| | | | | | | | | | | | | | | | |
| 13,900.00 | 5,530.91 | 5,471.91 | 5,471.91 | 106.77 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,668.16 | 2,342.67 | 325.49 | 8.197 | | | |
| 14,000.00 | 5,530.91 | 5,471.91 | 5,471.91 | 107.98 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,658.77 | 2,331.93 | 326.84 | 8.135 | | | |
| 14,100.00 | 5,530.91 | 5,471.91 | 5,471.91 | 109.19 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,653.11 | 2,325.06 | 328.05 | 8.088 | | | |
| 14,200.00 | 5,530.92 | 5,471.92 | 5,471.92 | 110.40 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,651.22 | 2,322.11 | 329.11 | 8.056 | | | |
| 14,200.15 | 5,530.92 | 5,471.92 | 5,471.92 | 110.40 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,651.22 | 2,322.11 | 329.11 | 8.056 | CC, ES | | |
| | | | | | | | | | | | | | | | |
| 14,300.00 | 5,530.92 | 5,471.92 | 5,471.92 | 111.62 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,653.10 | 2,323.08 | 330.03 | 8.039 | | | |
| 14,400.00 | 5,530.93 | 5,471.93 | 5,471.93 | 112.83 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,658.75 | 2,327.96 | 330.78 | 8.038 | SF | | |
| 14,500.00 | 5,530.93 | 5,471.93 | 5,471.93 | 114.04 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,668.13 | 2,336.74 | 331.39 | 8.051 | | | |
| 14,600.00 | 5,530.93 | 5,471.93 | 5,471.93 | 115.26 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,681.21 | 2,349.37 | 331.83 | 8.080 | | | |
| 14,700.00 | 5,530.94 | 5,471.94 | 5,471.94 | 116.47 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,697.93 | 2,365.80 | 332.13 | 8.123 | | | |
| | | | | | | | | | | | | | | | |
| 14,800.00 | 5,530.94 | 5,471.94 | 5,471.94 | 117.69 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,718.24 | 2,385.96 | 332.27 | 8.181 | | | |
| 14,900.00 | 5,530.94 | 5,471.94 | 5,471.94 | 118.91 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,742.04 | 2,409.76 | 332.28 | 8.252 | | | |
| 15,000.00 | 5,530.95 | 5,471.95 | 5,471.95 | 120.12 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,769.25 | 2,437.10 | 332.15 | 8.337 | | | |
| 15,100.00 | 5,530.95 | 5,471.95 | 5,471.95 | 121.34 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,799.77 | 2,467.88 | 331.89 | 8.436 | | | |
| 15,200.00 | 5,530.96 | 5,471.96 | 5,471.96 | 122.56 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,833.49 | 2,501.97 | 331.52 | 8.547 | | | |
| | | | | | | | | | | | | | | | |
| 15,300.00 | 5,530.96 | 5,471.96 | 5,471.96 | 123.78 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,870.31 | 2,539.27 | 331.04 | 8.671 | | | |
| 15,400.00 | 5,530.96 | 5,471.96 | 5,471.96 | 125.00 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,910.09 | 2,579.63 | 330.46 | 8.806 | | | |
| 15,500.00 | 5,530.97 | 5,471.97 | 5,471.97 | 126.22 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,952.73 | 2,622.93 | 329.80 | 8.953 | | | |
| 15,600.00 | 5,530.97 | 5,471.97 | 5,471.97 | 127.44 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 2,998.10 | 2,669.04 | 329.06 | 9.111 | | | |
| 15,700.00 | 5,530.97 | 5,471.97 | 5,471.97 | 128.67 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 3,046.07 | 2,717.82 | 328.25 | 9.280 | | | |
| | | | | | | | | | | | | | | | |
| 15,800.00 | 5,530.98 | 5,471.98 | 5,471.98 | 129.89 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 3,096.53 | 2,769.15 | 327.38 | 9.458 | | | |
| 15,900.00 | 5,530.98 | 5,471.98 | 5,471.98 | 131.11 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 3,149.36 | 2,822.89 | 326.47 | 9.647 | | | |
| 16,000.00 | 5,530.99 | 5,471.99 | 5,471.99 | 132.33 | 218.88 | -90.00 | 1,177.55 | 8,530.47 | 3,204.44 | 2,878.93 | 325.52 | 9.844 | | | |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| | | | | | | | | | | | | | |
|---|------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------|---------------------|---------------------|---------------------|-------------------------------|--------------------------------|----------------------------------|--------------------------|-------------------------------------|
| Offset Design: Tatanka Offsets - Zimith #1 (D&A) - OH - OH | | | | | | | | | | | | | Offset Site Error: 0.00 usft |
| Survey Program: 6292-Unknown | | | | | | | | | | | | | Offset Well Error: 0.00 usft |
| Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Rule Assigned: | | | | | | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference | Offset | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 49.92 | 1,106.88 | 1,315.49 | 1,719.38 | | | | |
| 100.00 | 100.00 | 76.00 | 76.00 | 0.88 | 3.04 | 49.92 | 1,106.88 | 1,315.49 | 1,719.22 | 1,715.29 | 3.92 | 438.123 | |
| 200.00 | 200.00 | 176.00 | 176.00 | 1.50 | 7.04 | 49.92 | 1,106.88 | 1,315.49 | 1,719.22 | 1,710.67 | 8.54 | 201.260 | |
| 300.00 | 300.00 | 276.00 | 276.00 | 1.94 | 11.04 | 49.92 | 1,106.88 | 1,315.49 | 1,719.22 | 1,706.24 | 12.98 | 132.500 | |
| 400.00 | 400.00 | 376.00 | 376.00 | 2.29 | 15.04 | 49.92 | 1,106.88 | 1,315.49 | 1,719.22 | 1,701.89 | 17.33 | 99.201 | |
| 500.00 | 500.00 | 476.00 | 476.00 | 2.60 | 19.04 | 49.92 | 1,106.88 | 1,315.49 | 1,719.22 | 1,697.58 | 21.64 | 79.445 CC | |
| 600.00 | 599.98 | 575.98 | 575.98 | 3.04 | 23.04 | -136.75 | 1,106.88 | 1,315.49 | 1,720.49 | 1,694.49 | 26.00 | 66.175 | |
| 700.00 | 699.84 | 675.84 | 675.84 | 3.44 | 27.03 | -136.82 | 1,106.88 | 1,315.49 | 1,724.30 | 1,693.98 | 30.32 | 56.868 ES | |
| 800.00 | 799.45 | 775.45 | 775.45 | 3.84 | 31.02 | -136.93 | 1,106.88 | 1,315.49 | 1,730.68 | 1,696.05 | 34.63 | 49.978 | |
| 900.00 | 898.70 | 874.70 | 874.70 | 4.25 | 34.99 | -137.08 | 1,106.88 | 1,315.49 | 1,739.62 | 1,700.70 | 38.92 | 44.692 | |
| 1,000.00 | 997.47 | 973.47 | 973.47 | 4.67 | 38.94 | -137.27 | 1,106.88 | 1,315.49 | 1,751.16 | 1,707.95 | 43.21 | 40.528 | |
| 1,100.00 | 1,095.62 | 1,071.62 | 1,071.62 | 5.09 | 42.87 | -137.49 | 1,106.88 | 1,315.49 | 1,765.32 | 1,717.84 | 47.48 | 37.181 | |
| 1,200.00 | 1,193.06 | 1,169.06 | 1,169.06 | 5.53 | 46.76 | -137.74 | 1,106.88 | 1,315.49 | 1,782.13 | 1,730.40 | 51.73 | 34.448 | |
| 1,300.00 | 1,289.64 | 1,265.64 | 1,265.64 | 5.98 | 50.63 | -138.02 | 1,106.88 | 1,315.49 | 1,801.62 | 1,745.66 | 55.97 | 32.189 | |
| 1,400.00 | 1,385.27 | 1,361.27 | 1,361.27 | 6.43 | 54.45 | -138.32 | 1,106.88 | 1,315.49 | 1,823.84 | 1,763.66 | 60.18 | 30.305 | |
| 1,442.89 | 1,425.96 | 1,401.96 | 1,401.96 | 6.58 | 56.08 | -138.46 | 1,106.88 | 1,315.49 | 1,834.21 | 1,772.27 | 61.93 | 29.616 | |
| 1,500.00 | 1,480.00 | 1,456.00 | 1,456.00 | 6.78 | 58.24 | -138.83 | 1,106.88 | 1,315.49 | 1,848.39 | 1,784.12 | 64.27 | 28.760 | |
| 1,600.00 | 1,574.64 | 1,550.64 | 1,550.64 | 7.20 | 62.03 | -139.46 | 1,106.88 | 1,315.49 | 1,873.40 | 1,804.97 | 68.43 | 27.377 | |
| 1,700.00 | 1,669.27 | 1,645.27 | 1,645.27 | 7.62 | 65.81 | -140.09 | 1,106.88 | 1,315.49 | 1,898.64 | 1,826.04 | 72.60 | 26.151 | |
| 1,800.00 | 1,763.90 | 1,739.90 | 1,739.90 | 8.06 | 69.60 | -140.69 | 1,106.88 | 1,315.49 | 1,924.09 | 1,847.30 | 76.79 | 25.058 | |
| 1,900.00 | 1,858.53 | 1,834.53 | 1,834.53 | 8.50 | 73.38 | -141.28 | 1,106.88 | 1,315.49 | 1,949.74 | 1,868.76 | 80.98 | 24.077 | |
| 2,000.00 | 1,953.16 | 1,929.16 | 1,929.16 | 8.95 | 77.17 | -141.85 | 1,106.88 | 1,315.49 | 1,975.58 | 1,890.40 | 85.18 | 23.192 SF | |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Offset Design: Tatanka Pads - Tatanka Federal LD13-625 - OH - Plan #1

| Survey Program: 0-MWD+IFR1+MS | | | | | | | | | | | Offset Site Error: 0.00 usft | |
|-------------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|------------------------|--------------|---------------------------------|---------------------------|------------------------------|--------------|
| Rule Assigned: | | | | | | | | | | | Offset Well Error: 0.00 usft | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre | | Distance Between Centres (usft) | Minimum Separation (usft) | Separation Factor | Warning |
| | | | | | | | +N/-S (usft) | +E/-W (usft) | Ellipses (usft) | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -1.13 | 28.06 | -0.55 | 28.06 | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.88 | 0.88 | -1.13 | 28.06 | -0.55 | 28.06 | 26.30 | 1.77 | 15.875 |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.50 | 1.50 | -1.13 | 28.06 | -0.55 | 28.06 | 25.06 | 3.00 | 9.342 |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.94 | 1.94 | -1.13 | 28.06 | -0.55 | 28.06 | 24.19 | 3.87 | 7.251 |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.29 | 2.29 | -1.13 | 28.06 | -0.55 | 28.06 | 23.48 | 4.58 | 6.126 |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.60 | 2.60 | -1.13 | 28.06 | -0.55 | 28.06 | 22.86 | 5.20 | 5.396 CC, ES |
| 600.00 | 599.98 | 599.98 | 599.98 | 3.04 | 2.88 | 172.67 | 28.06 | -0.55 | 29.79 | 23.88 | 5.92 | 5.036 |
| 700.00 | 699.84 | 700.86 | 700.85 | 3.44 | 3.24 | 173.26 | 26.53 | -0.86 | 33.48 | 26.81 | 6.67 | 5.022 |
| 800.00 | 799.45 | 801.85 | 801.72 | 3.84 | 3.57 | 173.40 | 21.96 | -1.79 | 37.62 | 30.23 | 7.39 | 5.088 |
| 900.00 | 898.70 | 902.95 | 902.52 | 4.25 | 3.92 | 173.22 | 14.33 | -3.34 | 42.20 | 34.07 | 8.13 | 5.191 |
| 1,000.00 | 997.47 | 1,004.18 | 1,003.15 | 4.67 | 4.28 | 172.82 | 3.64 | -5.51 | 47.21 | 38.33 | 8.89 | 5.314 |
| 1,100.00 | 1,095.62 | 1,105.54 | 1,103.53 | 5.09 | 4.66 | 172.28 | -10.12 | -8.30 | 52.67 | 43.01 | 9.67 | 5.449 |
| 1,200.00 | 1,193.06 | 1,207.04 | 1,203.57 | 5.53 | 5.05 | 171.63 | -26.94 | -11.71 | 58.57 | 48.10 | 10.47 | 5.595 |
| 1,300.00 | 1,289.64 | 1,308.15 | 1,302.67 | 5.98 | 5.37 | 170.96 | -46.59 | -15.69 | 65.02 | 53.80 | 11.22 | 5.795 |
| 1,400.00 | 1,385.27 | 1,407.73 | 1,400.10 | 6.43 | 5.73 | 170.70 | -66.71 | -19.77 | 74.15 | 62.09 | 12.06 | 6.150 |
| 1,442.89 | 1,425.96 | 1,450.33 | 1,441.79 | 6.58 | 5.89 | 170.73 | -75.32 | -21.52 | 79.11 | 66.74 | 12.37 | 6.396 |
| 1,500.00 | 1,480.00 | 1,507.00 | 1,497.25 | 6.78 | 6.10 | 170.82 | -86.77 | -23.84 | 86.14 | 73.34 | 12.80 | 6.730 |
| 1,600.00 | 1,574.64 | 1,606.24 | 1,594.36 | 7.20 | 6.49 | 170.96 | -106.82 | -27.90 | 98.44 | 84.82 | 13.63 | 7.225 |
| 1,700.00 | 1,669.27 | 1,705.48 | 1,691.46 | 7.62 | 6.89 | 171.07 | -126.87 | -31.97 | 110.75 | 96.28 | 14.48 | 7.651 |
| 1,800.00 | 1,763.90 | 1,804.72 | 1,788.57 | 8.06 | 7.29 | 171.15 | -146.92 | -36.04 | 123.06 | 107.71 | 15.34 | 8.020 |
| 1,900.00 | 1,858.53 | 1,903.96 | 1,885.68 | 8.50 | 7.70 | 171.22 | -166.98 | -40.10 | 135.37 | 119.14 | 16.23 | 8.340 |
| 2,000.00 | 1,953.16 | 2,003.20 | 1,982.79 | 8.95 | 8.12 | 171.28 | -187.03 | -44.17 | 147.67 | 130.55 | 17.13 | 8.621 |
| 2,100.00 | 2,047.80 | 2,102.44 | 2,079.89 | 9.41 | 8.55 | 171.33 | -207.08 | -48.24 | 159.98 | 141.94 | 18.04 | 8.869 |
| 2,200.00 | 2,142.43 | 2,201.68 | 2,177.00 | 9.88 | 8.97 | 171.37 | -227.13 | -52.30 | 172.29 | 153.33 | 18.96 | 9.088 |
| 2,300.00 | 2,237.06 | 2,300.92 | 2,274.11 | 10.35 | 9.41 | 171.41 | -247.18 | -56.37 | 184.60 | 164.71 | 19.89 | 9.282 |
| 2,400.00 | 2,331.69 | 2,400.16 | 2,371.22 | 10.82 | 9.84 | 171.44 | -267.23 | -60.43 | 196.91 | 176.08 | 20.82 | 9.456 |
| 2,500.00 | 2,426.33 | 2,499.40 | 2,468.32 | 11.30 | 10.28 | 171.47 | -287.29 | -64.50 | 209.22 | 187.45 | 21.77 | 9.612 |
| 2,600.00 | 2,520.96 | 2,598.64 | 2,565.43 | 11.78 | 10.72 | 171.49 | -307.34 | -68.57 | 221.52 | 198.81 | 22.71 | 9.753 |
| 2,700.00 | 2,615.59 | 2,697.88 | 2,662.54 | 12.27 | 11.17 | 171.52 | -327.39 | -72.63 | 233.83 | 210.16 | 23.67 | 9.880 |
| 2,800.00 | 2,710.22 | 2,797.12 | 2,759.65 | 12.76 | 11.62 | 171.54 | -347.44 | -76.70 | 246.14 | 221.52 | 24.62 | 9.996 |
| 2,900.00 | 2,804.86 | 2,896.36 | 2,856.75 | 13.25 | 12.06 | 171.55 | -367.49 | -80.76 | 258.45 | 232.86 | 25.59 | 10.101 |
| 3,000.00 | 2,899.49 | 2,995.60 | 2,953.86 | 13.74 | 12.51 | 171.57 | -387.55 | -84.83 | 270.76 | 244.21 | 26.55 | 10.198 |
| 3,100.00 | 2,994.12 | 3,094.84 | 3,050.97 | 14.23 | 12.96 | 171.59 | -407.60 | -88.90 | 283.07 | 255.55 | 27.52 | 10.286 |
| 3,200.00 | 3,088.75 | 3,194.08 | 3,148.08 | 14.73 | 13.42 | 171.60 | -427.65 | -92.96 | 295.37 | 266.88 | 28.49 | 10.368 |
| 3,300.00 | 3,183.39 | 3,293.32 | 3,245.18 | 15.23 | 13.87 | 171.61 | -447.70 | -97.03 | 307.68 | 278.22 | 29.46 | 10.443 |
| 3,400.00 | 3,278.02 | 3,392.56 | 3,342.29 | 15.73 | 14.33 | 171.62 | -467.75 | -101.09 | 319.99 | 289.55 | 30.44 | 10.513 |
| 3,500.00 | 3,372.65 | 3,491.79 | 3,439.40 | 16.23 | 14.78 | 171.63 | -487.80 | -105.16 | 332.30 | 300.88 | 31.42 | 10.577 |
| 3,600.00 | 3,467.28 | 3,591.03 | 3,536.51 | 16.73 | 15.24 | 171.64 | -507.86 | -109.23 | 344.61 | 312.21 | 32.40 | 10.637 |
| 3,700.00 | 3,561.92 | 3,690.27 | 3,633.62 | 17.23 | 15.70 | 171.65 | -527.91 | -113.29 | 356.92 | 323.54 | 33.38 | 10.693 |
| 3,800.00 | 3,656.55 | 3,789.51 | 3,730.72 | 17.73 | 16.15 | 171.66 | -547.96 | -117.36 | 369.23 | 334.87 | 34.36 | 10.746 |
| 3,900.00 | 3,751.18 | 3,888.75 | 3,827.83 | 18.24 | 16.61 | 171.67 | -568.01 | -121.43 | 381.53 | 346.19 | 35.34 | 10.795 |
| 4,000.00 | 3,845.81 | 3,987.99 | 3,924.94 | 18.74 | 17.07 | 171.68 | -588.06 | -125.49 | 393.84 | 357.51 | 36.33 | 10.841 |
| 4,100.00 | 3,940.44 | 4,087.23 | 4,022.05 | 19.25 | 17.53 | 171.69 | -608.12 | -129.56 | 406.15 | 368.83 | 37.32 | 10.884 |
| 4,200.00 | 4,035.08 | 4,186.47 | 4,119.15 | 19.76 | 17.99 | 171.69 | -628.17 | -133.62 | 418.46 | 380.16 | 38.30 | 10.925 |
| 4,300.00 | 4,129.71 | 4,285.71 | 4,216.26 | 20.26 | 18.46 | 171.70 | -648.22 | -137.69 | 430.77 | 391.47 | 39.29 | 10.963 |
| 4,400.00 | 4,224.34 | 4,384.95 | 4,313.37 | 20.77 | 18.92 | 171.71 | -668.27 | -141.76 | 443.08 | 402.79 | 40.28 | 10.999 |
| 4,500.00 | 4,318.97 | 4,484.19 | 4,410.48 | 21.28 | 19.38 | 171.71 | -688.32 | -145.82 | 455.39 | 414.11 | 41.27 | 11.033 |
| 4,600.00 | 4,413.61 | 4,583.43 | 4,507.58 | 21.79 | 19.84 | 171.72 | -708.37 | -149.89 | 467.69 | 425.43 | 42.27 | 11.066 |
| 4,700.00 | 4,508.24 | 4,682.67 | 4,604.69 | 22.30 | 20.31 | 171.72 | -728.43 | -153.95 | 480.00 | 436.74 | 43.26 | 11.096 |
| 4,800.00 | 4,602.87 | 4,781.91 | 4,701.80 | 22.81 | 20.77 | 171.73 | -748.48 | -158.02 | 492.31 | 448.06 | 44.25 | 11.125 |
| 4,900.00 | 4,697.50 | 4,881.15 | 4,798.91 | 23.32 | 21.23 | 171.73 | -768.53 | -162.09 | 504.62 | 459.37 | 45.25 | 11.153 |
| 5,000.00 | 4,792.14 | 4,980.39 | 4,896.01 | 23.83 | 21.69 | 171.74 | -788.58 | -166.15 | 516.93 | 470.70 | 46.23 | 11.181 |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-625 - OH - Plan #1 | | | | | | | | | | | | Offset Site Error: | 0.00 usft | | |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|--------------|-----------------|------------------------|-------------------------|---------------------------|--------------------|-----------|--------------------|-----------|
| Survey Program: 0-MWD+IFR1+MS | | | | Reference | | Offset | | Semi Major Axis | | Offset Wellbore Centre | | Rule Assigned: | | Offset Well Error: | 0.00 usft |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning | | |
| 5,056.23 | 4,845.35 | 5,037.09 | 4,951.53 | 24.11 | 21.94 | 171.99 | -800.03 | -166.24 | 523.80 | 477.00 | 46.81 | 11.191 | | | |
| 5,100.00 | 4,886.79 | 5,080.94 | 4,994.37 | 24.32 | 22.12 | -176.92 | -808.85 | -163.23 | 529.13 | 481.86 | 47.26 | 11.195 | | | |
| 5,150.00 | 4,934.07 | 5,130.79 | 5,042.75 | 24.57 | 22.30 | -164.57 | -818.80 | -156.57 | 535.22 | 487.45 | 47.77 | 11.205 | | | |
| 5,200.00 | 4,981.04 | 5,180.39 | 5,090.33 | 24.79 | 22.45 | -153.39 | -828.56 | -146.54 | 541.29 | 493.05 | 48.23 | 11.222 | | | |
| 5,250.00 | 5,027.48 | 5,229.75 | 5,136.89 | 25.01 | 22.57 | -143.81 | -838.09 | -133.25 | 547.30 | 498.64 | 48.66 | 11.248 | | | |
| 5,300.00 | 5,073.17 | 5,278.88 | 5,182.24 | 25.19 | 22.66 | -135.83 | -847.36 | -116.81 | 553.22 | 504.19 | 49.03 | 11.282 | | | |
| 5,350.00 | 5,117.89 | 5,327.80 | 5,226.20 | 25.36 | 22.74 | -129.26 | -856.33 | -97.32 | 559.02 | 509.66 | 49.37 | 11.324 | | | |
| 5,400.00 | 5,161.41 | 5,376.51 | 5,268.57 | 25.51 | 22.80 | -123.85 | -864.95 | -74.92 | 564.68 | 515.02 | 49.66 | 11.371 | | | |
| 5,450.00 | 5,203.52 | 5,425.03 | 5,309.20 | 25.63 | 22.86 | -119.37 | -873.20 | -49.74 | 570.16 | 520.24 | 49.91 | 11.423 | | | |
| 5,500.00 | 5,244.02 | 5,473.36 | 5,347.93 | 25.74 | 22.90 | -115.62 | -881.04 | -21.92 | 575.42 | 525.28 | 50.14 | 11.476 | | | |
| 5,550.00 | 5,282.71 | 5,521.53 | 5,384.60 | 25.84 | 22.95 | -112.46 | -888.45 | 8.40 | 580.46 | 530.11 | 50.35 | 11.529 | | | |
| 5,600.00 | 5,319.41 | 5,569.53 | 5,419.10 | 25.93 | 22.99 | -109.78 | -895.39 | 41.04 | 585.23 | 534.69 | 50.54 | 11.580 | | | |
| 5,650.00 | 5,353.93 | 5,617.39 | 5,451.28 | 26.01 | 23.04 | -107.49 | -901.84 | 75.86 | 589.71 | 539.00 | 50.71 | 11.628 | | | |
| 5,700.00 | 5,386.10 | 5,665.10 | 5,481.03 | 26.09 | 23.09 | -105.52 | -907.79 | 112.68 | 593.89 | 543.00 | 50.89 | 11.671 | | | |
| 5,750.00 | 5,415.77 | 5,712.69 | 5,508.24 | 26.16 | 23.15 | -103.83 | -913.20 | 151.33 | 597.73 | 546.67 | 51.06 | 11.706 | | | |
| 5,800.00 | 5,442.80 | 5,760.16 | 5,532.83 | 26.24 | 23.21 | -102.39 | -918.06 | 191.63 | 601.22 | 549.98 | 51.24 | 11.733 | | | |
| 5,800.03 | 5,442.81 | 5,760.19 | 5,532.84 | 26.24 | 23.21 | -102.39 | -918.06 | 191.66 | 601.22 | 549.98 | 51.24 | 11.733 | | | |
| 5,850.00 | 5,467.05 | 5,807.52 | 5,554.70 | 26.32 | 23.29 | -101.15 | -922.35 | 233.41 | 604.34 | 552.91 | 51.43 | 11.750 | | | |
| 5,850.03 | 5,467.06 | 5,807.55 | 5,554.71 | 26.32 | 23.29 | -101.15 | -922.35 | 233.44 | 604.34 | 552.91 | 51.43 | 11.750 | | | |
| 5,900.00 | 5,488.40 | 5,854.78 | 5,573.78 | 26.41 | 23.37 | -100.10 | -926.06 | 276.48 | 607.07 | 555.43 | 51.64 | 11.756 | | | |
| 5,900.84 | 5,488.73 | 5,855.58 | 5,574.08 | 26.41 | 23.37 | -100.09 | -926.12 | 277.21 | 607.11 | 555.47 | 51.64 | 11.756 | | | |
| 5,950.00 | 5,506.75 | 5,901.95 | 5,590.02 | 26.50 | 23.47 | -99.23 | -929.18 | 320.65 | 609.40 | 557.54 | 51.86 | 11.750 | | | |
| 5,952.10 | 5,507.46 | 5,903.93 | 5,590.63 | 26.51 | 23.48 | -99.20 | -929.29 | 322.52 | 609.49 | 557.61 | 51.87 | 11.749 | | | |
| 6,000.00 | 5,522.02 | 5,950.00 | 5,603.59 | 26.61 | 23.59 | -98.52 | -931.73 | 366.66 | 611.32 | 559.20 | 52.12 | 11.729 | | | |
| 6,000.04 | 5,522.03 | 5,950.00 | 5,603.59 | 26.61 | 23.59 | -98.52 | -931.73 | 366.66 | 611.32 | 559.20 | 52.12 | 11.729 | | | |
| 6,050.00 | 5,534.12 | 5,996.05 | 5,613.74 | 26.73 | 23.71 | -97.96 | -933.59 | 411.53 | 612.81 | 560.42 | 52.39 | 11.698 | | | |
| 6,050.06 | 5,534.13 | 5,996.11 | 5,613.75 | 26.73 | 23.71 | -97.96 | -933.59 | 411.59 | 612.81 | 560.43 | 52.39 | 11.698 | | | |
| 6,100.00 | 5,543.00 | 6,042.99 | 5,621.15 | 26.86 | 23.86 | -97.54 | -934.88 | 457.86 | 613.87 | 561.19 | 52.69 | 11.651 | | | |
| 6,100.71 | 5,543.10 | 6,043.66 | 5,621.24 | 26.86 | 23.86 | -97.53 | -934.89 | 458.52 | 613.89 | 561.19 | 52.69 | 11.650 | | | |
| 6,150.00 | 5,548.61 | 6,089.88 | 5,625.58 | 27.01 | 24.02 | -97.26 | -935.55 | 504.52 | 614.50 | 561.48 | 53.02 | 11.591 | | | |
| 6,151.82 | 5,548.75 | 6,091.58 | 5,625.68 | 27.01 | 24.02 | -97.25 | -935.56 | 506.22 | 614.51 | 561.48 | 53.03 | 11.588 | | | |
| 6,200.00 | 5,550.93 | 6,136.71 | 5,627.00 | 27.17 | 24.19 | -97.11 | -935.59 | 551.32 | 614.68 | 561.31 | 53.37 | 11.517 | | | |
| 6,202.16 | 5,550.96 | 6,138.75 | 5,627.00 | 27.18 | 24.19 | -97.11 | -935.58 | 553.36 | 614.68 | 561.30 | 53.39 | 11.514 | | | |
| 6,210.11 | 5,551.00 | 6,146.71 | 5,626.97 | 27.20 | 24.22 | -97.10 | -935.53 | 561.32 | 614.66 | 561.21 | 53.45 | 11.500 | | | |
| 6,229.86 | 5,551.00 | 6,166.46 | 5,626.89 | 27.28 | 24.30 | -97.09 | -935.42 | 581.07 | 614.59 | 560.98 | 53.62 | 11.462 | | | |
| 6,300.00 | 5,551.00 | 6,236.59 | 5,626.61 | 27.54 | 24.60 | -97.07 | -934.99 | 651.20 | 614.36 | 560.12 | 54.24 | 11.327 | | | |
| 6,321.98 | 5,551.00 | 6,258.57 | 5,626.53 | 27.63 | 24.70 | -97.06 | -934.86 | 673.18 | 614.28 | 559.83 | 54.45 | 11.282 | | | |
| 6,400.00 | 5,551.00 | 6,336.59 | 5,626.22 | 27.96 | 25.08 | -97.04 | -934.38 | 751.20 | 614.02 | 558.80 | 55.21 | 11.121 | | | |
| 6,421.98 | 5,551.00 | 6,358.57 | 5,626.14 | 28.07 | 25.19 | -97.03 | -934.25 | 773.18 | 613.94 | 558.50 | 55.44 | 11.073 | | | |
| 6,500.00 | 5,551.00 | 6,436.59 | 5,625.83 | 28.44 | 25.61 | -97.00 | -933.78 | 851.19 | 613.68 | 557.40 | 56.28 | 10.904 | | | |
| 6,521.99 | 5,551.00 | 6,458.58 | 5,625.74 | 28.56 | 25.73 | -97.00 | -933.64 | 873.18 | 613.60 | 557.08 | 56.53 | 10.855 | | | |
| 6,600.00 | 5,551.00 | 6,536.59 | 5,625.44 | 28.96 | 26.18 | -96.97 | -933.17 | 951.19 | 613.34 | 555.91 | 57.43 | 10.680 | | | |
| 6,621.99 | 5,551.00 | 6,558.58 | 5,625.35 | 29.09 | 26.32 | -96.96 | -933.04 | 973.18 | 613.26 | 555.57 | 57.70 | 10.629 | | | |
| 6,700.00 | 5,551.00 | 6,636.59 | 5,625.04 | 29.53 | 26.80 | -96.94 | -932.56 | 1,051.19 | 613.00 | 554.34 | 58.66 | 10.450 | | | |
| 6,721.99 | 5,551.00 | 6,658.58 | 5,624.96 | 29.67 | 26.95 | -96.93 | -932.43 | 1,073.18 | 612.92 | 553.98 | 58.95 | 10.398 | | | |
| 6,800.00 | 5,551.00 | 6,736.59 | 5,624.65 | 30.14 | 27.47 | -96.90 | -931.96 | 1,151.18 | 612.66 | 552.69 | 59.97 | 10.216 | | | |
| 6,822.00 | 5,551.00 | 6,758.58 | 5,624.56 | 30.28 | 27.62 | -96.90 | -931.83 | 1,173.18 | 612.59 | 552.31 | 60.27 | 10.164 | | | |
| 6,900.00 | 5,551.00 | 6,836.59 | 5,624.26 | 30.79 | 28.17 | -96.87 | -931.35 | 1,251.18 | 612.32 | 550.97 | 61.35 | 9.980 | | | |
| 6,922.00 | 5,551.00 | 6,858.59 | 5,624.17 | 30.94 | 28.33 | -96.86 | -931.22 | 1,273.18 | 612.25 | 550.58 | 61.67 | 9.928 | | | |
| 7,000.00 | 5,551.00 | 6,936.58 | 5,623.86 | 31.47 | 28.91 | -96.84 | -930.75 | 1,351.17 | 611.98 | 549.18 | 62.80 | 9.745 | | | |
| 7,022.01 | 5,551.00 | 6,958.59 | 5,623.78 | 31.63 | 29.08 | -96.83 | -930.61 | 1,373.18 | 611.91 | 548.78 | 63.13 | 9.693 | | | |
| 7,100.00 | 5,551.00 | 7,036.58 | 5,623.47 | 32.19 | 29.68 | -96.80 | -930.14 | 1,451.17 | 611.64 | 547.33 | 64.31 | 9.511 | | | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-625 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.00 usft | |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|--------------|-------------------------|-------------------------|---------------------------|-------------------|------------------------------|------------------------------|
| Survey Program: 0-MWD+IFR1+MS | | Offset | | Semi Major Axis | | Highside Toolface (°) | Offset Wellbore Centre | | Rule Assigned: Distance | | Minimum Separation (usft) | Separation Factor | Warning | Offset Well Error: 0.00 usft |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | | | | |
| 7,122.01 | 5,551.00 | 7,058.59 | 5,623.39 | 32.35 | 29.86 | -96.80 | -930.01 | 1,473.18 | 611.57 | 546.92 | 64.65 | 9.459 | | |
| 7,200.00 | 5,551.00 | 7,136.58 | 5,623.08 | 32.94 | 30.49 | -96.77 | -929.53 | 1,551.17 | 611.31 | 545.43 | 65.88 | 9.279 | | |
| 7,222.01 | 5,551.00 | 7,158.59 | 5,622.99 | 33.11 | 30.67 | -96.76 | -929.40 | 1,573.18 | 611.23 | 545.00 | 66.23 | 9.228 | | |
| 7,300.00 | 5,551.00 | 7,236.58 | 5,622.69 | 33.71 | 31.32 | -96.74 | -928.93 | 1,651.16 | 610.97 | 543.47 | 67.50 | 9.051 | | |
| 7,322.02 | 5,551.00 | 7,258.60 | 5,622.60 | 33.89 | 31.51 | -96.73 | -928.79 | 1,673.18 | 610.89 | 543.03 | 67.87 | 9.001 | | |
| 7,400.00 | 5,551.00 | 7,336.58 | 5,622.29 | 34.52 | 32.18 | -96.70 | -928.32 | 1,751.16 | 610.63 | 541.46 | 69.17 | 8.827 | | |
| 7,422.02 | 5,551.00 | 7,358.60 | 5,622.21 | 34.70 | 32.37 | -96.70 | -928.19 | 1,773.18 | 610.56 | 541.00 | 69.55 | 8.778 | | |
| 7,500.00 | 5,551.00 | 7,436.58 | 5,621.90 | 35.35 | 33.06 | -96.67 | -927.72 | 1,851.15 | 610.29 | 539.40 | 70.89 | 8.609 | | |
| 7,522.03 | 5,551.00 | 7,458.60 | 5,621.81 | 35.53 | 33.26 | -96.66 | -927.58 | 1,873.18 | 610.22 | 538.94 | 71.28 | 8.561 | | |
| 7,600.00 | 5,551.00 | 7,536.58 | 5,621.51 | 36.20 | 33.97 | -96.64 | -927.11 | 1,951.15 | 609.96 | 537.30 | 72.66 | 8.395 | | |
| 7,622.03 | 5,551.00 | 7,558.61 | 5,621.42 | 36.39 | 34.17 | -96.63 | -926.98 | 1,973.18 | 609.88 | 536.83 | 73.05 | 8.349 | | |
| 7,700.00 | 5,551.00 | 7,636.58 | 5,621.11 | 37.07 | 34.90 | -96.60 | -926.50 | 2,051.15 | 609.62 | 535.16 | 74.46 | 8.187 | | |
| 7,722.03 | 5,551.00 | 7,658.61 | 5,621.03 | 37.27 | 35.10 | -96.60 | -926.37 | 2,073.18 | 609.54 | 534.68 | 74.86 | 8.142 | | |
| 7,800.00 | 5,551.00 | 7,736.57 | 5,620.72 | 37.97 | 35.84 | -96.57 | -925.90 | 2,151.14 | 609.28 | 532.98 | 76.30 | 7.985 | | |
| 7,822.04 | 5,551.00 | 7,758.61 | 5,620.64 | 38.17 | 36.05 | -96.56 | -925.76 | 2,173.18 | 609.21 | 532.49 | 76.71 | 7.941 | | |
| 7,900.00 | 5,551.00 | 7,836.57 | 5,620.33 | 38.88 | 36.81 | -96.54 | -925.29 | 2,251.14 | 608.95 | 530.77 | 78.18 | 7.789 | | |
| 7,922.04 | 5,551.00 | 7,858.62 | 5,620.24 | 39.09 | 37.02 | -96.53 | -925.16 | 2,273.18 | 608.87 | 530.28 | 78.60 | 7.747 | | |
| 8,000.00 | 5,551.00 | 7,936.57 | 5,619.94 | 39.81 | 37.79 | -96.50 | -924.68 | 2,351.14 | 608.61 | 528.52 | 80.08 | 7.600 | | |
| 8,022.05 | 5,551.00 | 7,958.62 | 5,619.85 | 40.02 | 38.01 | -96.50 | -924.55 | 2,373.18 | 608.53 | 528.02 | 80.51 | 7.558 | | |
| 8,100.00 | 5,551.00 | 8,036.57 | 5,619.54 | 40.76 | 38.78 | -96.47 | -924.08 | 2,451.13 | 608.27 | 526.25 | 82.02 | 7.416 | | |
| 8,122.05 | 5,551.00 | 8,058.62 | 5,619.46 | 40.97 | 39.01 | -96.46 | -923.94 | 2,473.18 | 608.20 | 525.74 | 82.46 | 7.376 | | |
| 8,200.00 | 5,551.00 | 8,136.57 | 5,619.15 | 41.72 | 39.79 | -96.44 | -923.47 | 2,551.13 | 607.94 | 523.95 | 83.99 | 7.238 | | |
| 8,222.05 | 5,551.00 | 8,158.62 | 5,619.06 | 41.94 | 40.02 | -96.43 | -923.34 | 2,573.18 | 607.86 | 523.43 | 84.43 | 7.200 | | |
| 8,300.00 | 5,551.00 | 8,236.57 | 5,618.76 | 42.70 | 40.82 | -96.40 | -922.87 | 2,651.12 | 607.60 | 521.62 | 85.98 | 7.067 | | |
| 8,322.06 | 5,551.00 | 8,258.63 | 5,618.67 | 42.92 | 41.05 | -96.40 | -922.73 | 2,673.18 | 607.53 | 521.10 | 86.43 | 7.029 | | |
| 8,400.00 | 5,551.00 | 8,336.57 | 5,618.36 | 43.69 | 41.85 | -96.37 | -922.26 | 2,751.12 | 607.27 | 519.27 | 88.00 | 6.901 | | |
| 8,422.06 | 5,551.00 | 8,358.63 | 5,618.28 | 43.91 | 42.08 | -96.36 | -922.13 | 2,773.18 | 607.19 | 518.74 | 88.45 | 6.865 | | |
| 8,500.00 | 5,551.00 | 8,436.57 | 5,617.97 | 44.69 | 42.90 | -96.34 | -921.65 | 2,851.12 | 606.93 | 516.89 | 90.04 | 6.741 | | |
| 8,522.07 | 5,551.00 | 8,458.63 | 5,617.88 | 44.92 | 43.13 | -96.33 | -921.52 | 2,873.18 | 606.86 | 516.36 | 90.49 | 6.706 | | |
| 8,600.00 | 5,551.00 | 8,536.57 | 5,617.58 | 45.71 | 43.96 | -96.30 | -921.05 | 2,951.11 | 606.59 | 514.49 | 92.10 | 6.586 | | |
| 8,622.07 | 5,551.00 | 8,558.64 | 5,617.49 | 45.93 | 44.19 | -96.29 | -920.91 | 2,973.18 | 606.52 | 513.96 | 92.56 | 6.553 | | |
| 8,700.00 | 5,551.00 | 8,636.56 | 5,617.19 | 46.73 | 45.02 | -96.27 | -920.44 | 3,051.11 | 606.26 | 512.08 | 94.18 | 6.437 | | |
| 8,722.08 | 5,551.00 | 8,658.64 | 5,617.10 | 46.96 | 45.26 | -96.26 | -920.31 | 3,073.19 | 606.19 | 511.54 | 94.64 | 6.405 | | |
| 8,800.00 | 5,551.00 | 8,736.56 | 5,616.79 | 47.77 | 46.10 | -96.23 | -919.83 | 3,151.11 | 605.93 | 509.64 | 96.28 | 6.293 | | |
| 8,822.08 | 5,551.00 | 8,758.64 | 5,616.71 | 48.00 | 46.34 | -96.23 | -919.70 | 3,173.19 | 605.85 | 509.10 | 96.75 | 6.262 | | |
| 8,900.00 | 5,551.00 | 8,836.56 | 5,616.40 | 48.82 | 47.18 | -96.20 | -919.23 | 3,251.10 | 605.59 | 507.19 | 98.40 | 6.154 | | |
| 8,922.09 | 5,551.00 | 8,858.65 | 5,616.31 | 49.05 | 47.42 | -96.19 | -919.09 | 3,273.19 | 605.52 | 506.65 | 98.87 | 6.124 | | |
| 9,000.00 | 5,551.00 | 8,936.56 | 5,616.01 | 49.87 | 48.28 | -96.17 | -918.62 | 3,351.10 | 605.26 | 504.72 | 100.53 | 6.020 | | |
| 9,022.09 | 5,551.00 | 8,958.65 | 5,615.92 | 50.11 | 48.52 | -96.16 | -918.49 | 3,373.19 | 605.18 | 504.17 | 101.01 | 5.991 | | |
| 9,100.00 | 5,551.00 | 9,036.56 | 5,615.61 | 50.94 | 49.38 | -96.13 | -918.02 | 3,451.09 | 604.92 | 502.24 | 102.68 | 5.891 | | |
| 9,122.10 | 5,551.00 | 9,058.66 | 5,615.53 | 51.17 | 49.62 | -96.12 | -917.88 | 3,473.19 | 604.85 | 501.69 | 103.16 | 5.863 | | |
| 9,200.00 | 5,551.00 | 9,136.56 | 5,615.22 | 52.01 | 50.48 | -96.10 | -917.41 | 3,551.09 | 604.59 | 499.74 | 104.85 | 5.766 | | |
| 9,222.10 | 5,551.00 | 9,158.66 | 5,615.13 | 52.25 | 50.73 | -96.09 | -917.28 | 3,573.19 | 604.51 | 499.19 | 105.33 | 5.739 | | |
| 9,300.00 | 5,551.00 | 9,236.56 | 5,614.83 | 53.09 | 51.59 | -96.06 | -916.80 | 3,651.09 | 604.25 | 497.23 | 107.02 | 5.646 | | |
| 9,322.11 | 5,551.00 | 9,258.66 | 5,614.74 | 53.33 | 51.84 | -96.06 | -916.67 | 3,673.19 | 604.18 | 496.67 | 107.51 | 5.620 | | |
| 9,400.00 | 5,551.00 | 9,336.56 | 5,614.44 | 54.17 | 52.71 | -96.03 | -916.20 | 3,751.08 | 603.92 | 494.71 | 109.21 | 5.530 | | |
| 9,422.11 | 5,551.00 | 9,358.67 | 5,614.35 | 54.41 | 52.96 | -96.02 | -916.06 | 3,773.19 | 603.85 | 494.15 | 109.70 | 5.505 | | |
| 9,500.00 | 5,551.00 | 9,436.55 | 5,614.04 | 55.27 | 53.84 | -96.00 | -915.59 | 3,851.08 | 603.59 | 492.17 | 111.42 | 5.417 | | |
| 9,522.12 | 5,551.00 | 9,458.67 | 5,613.96 | 55.51 | 54.09 | -95.99 | -915.46 | 3,873.19 | 603.51 | 491.61 | 111.91 | 5.393 | | |
| 9,600.00 | 5,551.00 | 9,536.55 | 5,613.65 | 56.37 | 54.97 | -95.96 | -914.98 | 3,951.07 | 603.25 | 489.62 | 113.63 | 5.309 | | |
| 9,622.12 | 5,551.00 | 9,558.67 | 5,613.56 | 56.61 | 55.22 | -95.95 | -914.85 | 3,973.20 | 603.18 | 489.06 | 114.12 | 5.285 | | |
| 9,700.00 | 5,551.00 | 9,636.55 | 5,613.26 | 57.47 | 56.10 | -95.93 | -914.38 | 4,051.07 | 602.92 | 487.07 | 115.85 | 5.204 | | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-625 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.00 usft |
|---|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|------------------------|--------------|---------------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 0-MWD+IFR1+MS | | | | | | | | | | | | | Offset Well Error: 0.00 usft |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre | | Distance Between Centres (usft) | | Minimum Separation (usft) | Separation Factor | Warning |
| | | | | | | | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | | | |
| 9,722.13 | 5,551.00 | 9,658.68 | 5,613.17 | 57.72 | 56.36 | -95.92 | -914.24 | 4,073.20 | 602.85 | 486.50 | 116.35 | 5.181 | |
| 9,800.00 | 5,551.00 | 9,736.55 | 5,612.86 | 58.58 | 57.24 | -95.89 | -913.77 | 4,151.07 | 602.59 | 484.50 | 118.09 | 5.103 | |
| 9,822.13 | 5,551.00 | 9,758.68 | 5,612.78 | 58.83 | 57.50 | -95.89 | -913.64 | 4,173.20 | 602.52 | 483.93 | 118.59 | 5.081 | |
| 9,900.00 | 5,551.00 | 9,836.55 | 5,612.47 | 59.70 | 58.39 | -95.86 | -913.17 | 4,251.06 | 602.26 | 481.92 | 120.33 | 5.005 | |
| 9,922.14 | 5,551.00 | 9,858.69 | 5,612.38 | 59.95 | 58.64 | -95.85 | -913.03 | 4,273.20 | 602.18 | 481.35 | 120.83 | 4.984 | |
| 10,000.00 | 5,551.00 | 9,936.55 | 5,612.08 | 60.82 | 59.54 | -95.82 | -912.56 | 4,351.06 | 601.92 | 479.34 | 122.59 | 4.910 | |
| 10,022.14 | 5,551.00 | 9,958.69 | 5,611.99 | 61.07 | 59.79 | -95.82 | -912.42 | 4,373.20 | 601.85 | 478.76 | 123.09 | 4.890 | |
| 10,100.00 | 5,551.00 | 10,036.55 | 5,611.69 | 61.95 | 60.69 | -95.79 | -911.95 | 4,451.06 | 601.59 | 476.74 | 124.85 | 4.819 | |
| 10,122.15 | 5,551.00 | 10,058.70 | 5,611.60 | 62.20 | 60.95 | -95.78 | -911.82 | 4,473.20 | 601.52 | 476.17 | 125.35 | 4.799 | |
| 10,200.00 | 5,551.00 | 10,136.55 | 5,611.29 | 63.08 | 61.85 | -95.76 | -911.35 | 4,551.05 | 601.26 | 474.14 | 127.12 | 4.730 | |
| 10,222.15 | 5,551.00 | 10,158.70 | 5,611.21 | 63.33 | 62.10 | -95.75 | -911.21 | 4,573.21 | 601.19 | 473.57 | 127.62 | 4.711 | |
| 10,300.00 | 5,551.00 | 10,236.54 | 5,610.90 | 64.21 | 63.01 | -95.72 | -910.74 | 4,651.05 | 600.93 | 471.53 | 129.40 | 4.644 | |
| 10,322.16 | 5,551.00 | 10,258.70 | 5,610.81 | 64.47 | 63.26 | -95.71 | -910.61 | 4,673.21 | 600.86 | 470.95 | 129.90 | 4.625 | |
| 10,400.00 | 5,551.00 | 10,336.54 | 5,610.51 | 65.35 | 64.17 | -95.69 | -910.13 | 4,751.04 | 600.60 | 468.92 | 131.68 | 4.561 | |
| 10,421.86 | 5,551.00 | 10,358.40 | 5,610.42 | 65.60 | 64.42 | -95.68 | -910.00 | 4,772.90 | 600.53 | 468.34 | 132.18 | 4.543 | |
| 10,498.60 | 5,551.00 | 10,435.15 | 5,610.12 | 66.48 | 65.32 | -95.65 | -909.54 | 4,849.64 | 600.27 | 466.33 | 133.94 | 4.482 | |
| 10,500.00 | 5,551.00 | 10,436.54 | 5,610.11 | 66.50 | 65.33 | -95.65 | -909.53 | 4,851.04 | 600.27 | 466.30 | 133.97 | 4.481 | |
| 10,503.91 | 5,551.00 | 10,440.45 | 5,610.10 | 66.54 | 65.38 | -95.65 | -909.50 | 4,854.95 | 600.25 | 466.19 | 134.06 | 4.477 | |
| 10,506.03 | 5,550.99 | 10,442.57 | 5,610.09 | 66.56 | 65.41 | -95.65 | -909.49 | 4,857.07 | 600.25 | 466.14 | 134.11 | 4.476 | |
| 10,527.46 | 5,550.85 | 10,464.00 | 5,610.01 | 66.81 | 65.66 | -95.66 | -909.36 | 4,878.50 | 600.19 | 465.58 | 134.61 | 4.459 | |
| 10,543.23 | 5,550.70 | 10,479.77 | 5,609.94 | 66.99 | 65.84 | -95.67 | -909.27 | 4,894.27 | 600.15 | 465.18 | 134.97 | 4.446 | |
| 10,600.00 | 5,550.12 | 10,536.54 | 5,609.72 | 67.64 | 66.50 | -95.70 | -908.92 | 4,951.04 | 600.02 | 463.72 | 136.30 | 4.402 | |
| 10,621.71 | 5,549.91 | 10,558.25 | 5,609.64 | 67.89 | 66.76 | -95.72 | -908.79 | 4,972.75 | 599.97 | 463.17 | 136.81 | 4.386 | |
| 10,700.00 | 5,549.12 | 10,636.54 | 5,609.33 | 68.79 | 67.68 | -95.76 | -908.32 | 5,051.03 | 599.79 | 461.15 | 138.64 | 4.326 | |
| 10,721.70 | 5,548.90 | 10,658.24 | 5,609.24 | 69.04 | 67.93 | -95.78 | -908.18 | 5,072.73 | 599.74 | 460.60 | 139.15 | 4.310 | |
| 10,800.00 | 5,548.11 | 10,736.54 | 5,608.94 | 69.94 | 68.85 | -95.82 | -907.71 | 5,151.03 | 599.56 | 458.58 | 140.98 | 4.253 | |
| 10,821.70 | 5,547.89 | 10,758.23 | 5,608.85 | 70.19 | 69.11 | -95.84 | -907.58 | 5,172.72 | 599.51 | 458.02 | 141.49 | 4.237 | |
| 10,900.00 | 5,547.10 | 10,836.53 | 5,608.54 | 71.10 | 70.03 | -95.89 | -907.10 | 5,251.02 | 599.33 | 456.00 | 143.33 | 4.181 | |
| 10,921.69 | 5,546.88 | 10,858.22 | 5,608.46 | 71.35 | 70.28 | -95.90 | -906.97 | 5,272.71 | 599.28 | 455.44 | 143.84 | 4.166 | |
| 11,000.00 | 5,546.10 | 10,936.53 | 5,608.15 | 72.26 | 71.21 | -95.95 | -906.50 | 5,351.02 | 599.10 | 453.42 | 145.69 | 4.112 | |
| 11,021.68 | 5,545.88 | 10,958.21 | 5,608.06 | 72.51 | 71.46 | -95.96 | -906.37 | 5,372.69 | 599.05 | 452.86 | 146.20 | 4.098 | |
| 11,100.00 | 5,545.09 | 11,036.53 | 5,607.76 | 73.42 | 72.39 | -96.01 | -905.89 | 5,451.01 | 598.87 | 450.83 | 148.05 | 4.045 | |
| 11,121.67 | 5,544.87 | 11,058.20 | 5,607.67 | 73.68 | 72.65 | -96.02 | -905.76 | 5,472.68 | 598.83 | 450.27 | 148.56 | 4.031 | |
| 11,200.00 | 5,544.08 | 11,136.53 | 5,607.36 | 74.59 | 73.58 | -96.07 | -905.28 | 5,551.01 | 598.65 | 448.24 | 150.41 | 3.980 | |
| 11,221.66 | 5,543.86 | 11,158.19 | 5,607.28 | 74.84 | 73.83 | -96.08 | -905.15 | 5,572.67 | 598.60 | 447.68 | 150.92 | 3.966 | |
| 11,300.00 | 5,543.07 | 11,236.52 | 5,606.97 | 75.76 | 74.76 | -96.13 | -904.68 | 5,651.00 | 598.42 | 445.64 | 152.78 | 3.917 | |
| 11,321.66 | 5,542.86 | 11,258.18 | 5,606.89 | 76.01 | 75.02 | -96.14 | -904.55 | 5,672.66 | 598.37 | 445.08 | 153.29 | 3.903 | |
| 11,400.00 | 5,542.07 | 11,336.52 | 5,606.58 | 76.93 | 75.95 | -96.19 | -904.07 | 5,751.00 | 598.19 | 443.04 | 155.15 | 3.856 | |
| 11,421.65 | 5,541.85 | 11,358.17 | 5,606.49 | 77.18 | 76.21 | -96.21 | -903.94 | 5,772.65 | 598.15 | 442.48 | 155.66 | 3.843 | |
| 11,500.00 | 5,541.06 | 11,436.52 | 5,606.19 | 78.10 | 77.14 | -96.25 | -903.47 | 5,850.99 | 597.97 | 440.44 | 157.53 | 3.796 | |
| 11,521.64 | 5,540.84 | 11,458.16 | 5,606.10 | 78.36 | 77.40 | -96.27 | -903.33 | 5,872.63 | 597.92 | 439.88 | 158.04 | 3.783 | |
| 11,600.00 | 5,540.05 | 11,536.52 | 5,605.79 | 79.28 | 78.33 | -96.32 | -902.86 | 5,950.99 | 597.74 | 437.84 | 159.90 | 3.738 | |
| 11,621.64 | 5,539.83 | 11,558.15 | 5,605.71 | 79.53 | 78.59 | -96.33 | -902.73 | 5,972.62 | 597.70 | 437.28 | 160.42 | 3.726 | |
| 11,700.00 | 5,539.04 | 11,636.51 | 5,605.40 | 80.45 | 79.53 | -96.38 | -902.25 | 6,050.98 | 597.52 | 435.23 | 162.29 | 3.682 | |
| 11,721.63 | 5,538.83 | 11,658.14 | 5,605.31 | 80.71 | 79.79 | -96.39 | -902.12 | 6,072.61 | 597.47 | 434.67 | 162.80 | 3.670 | |
| 11,800.00 | 5,538.04 | 11,736.51 | 5,605.01 | 81.63 | 80.72 | -96.44 | -901.65 | 6,150.98 | 597.30 | 432.62 | 164.67 | 3.627 | |
| 11,821.62 | 5,537.82 | 11,758.13 | 5,604.92 | 81.89 | 80.98 | -96.45 | -901.52 | 6,172.60 | 597.25 | 432.06 | 165.19 | 3.616 | |
| 11,900.00 | 5,537.03 | 11,836.51 | 5,604.61 | 82.82 | 81.92 | -96.50 | -901.04 | 6,250.97 | 597.07 | 430.01 | 167.06 | 3.574 | |
| 11,921.62 | 5,536.81 | 11,858.13 | 5,604.53 | 83.07 | 82.18 | -96.51 | -900.91 | 6,272.59 | 597.03 | 429.45 | 167.58 | 3.563 | |
| 12,000.00 | 5,536.02 | 11,936.51 | 5,604.22 | 84.00 | 83.12 | -96.56 | -900.43 | 6,350.97 | 596.85 | 427.40 | 169.45 | 3.522 | |
| 12,021.61 | 5,535.81 | 11,958.12 | 5,604.14 | 84.26 | 83.38 | -96.58 | -900.30 | 6,372.58 | 596.80 | 426.83 | 169.97 | 3.511 | |
| 12,100.00 | 5,535.02 | 12,036.51 | 5,603.83 | 85.19 | 84.32 | -96.62 | -899.83 | 6,450.96 | 596.63 | 424.78 | 171.85 | 3.472 | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-625 - OH - Plan #1 | | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|---|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|------------------------|----------|---------------------------------|--------|--------------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+HFR1+MS | | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre | | Distance Between Centres (usft) | | Rule Assigned: Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning | |
| +N/-S (usft) | +E/-W (usft) | | | | | | | | | | | | | | |
| 12,121.60 | 5,534.80 | 12,058.11 | 5,603.74 | 85.44 | 84.58 | -96.64 | -899.70 | 6,472.56 | 596.58 | 424.22 | 172.36 | 3.461 | | | |
| 12,200.00 | 5,534.01 | 12,136.50 | 5,603.44 | 86.37 | 85.52 | -96.69 | -899.22 | 6,550.96 | 596.41 | 422.17 | 174.24 | 3.423 | | | |
| 12,221.60 | 5,533.79 | 12,158.10 | 5,603.35 | 86.63 | 85.78 | -96.70 | -899.09 | 6,572.55 | 596.36 | 421.60 | 174.76 | 3.412 | | | |
| 12,300.00 | 5,533.00 | 12,236.50 | 5,603.04 | 87.56 | 86.73 | -96.75 | -898.62 | 6,650.95 | 596.19 | 419.55 | 176.64 | 3.375 | | | |
| 12,321.59 | 5,532.78 | 12,258.09 | 5,602.96 | 87.82 | 86.99 | -96.76 | -898.48 | 6,672.54 | 596.14 | 418.98 | 177.16 | 3.365 | | | |
| 12,400.00 | 5,531.99 | 12,336.50 | 5,602.65 | 88.75 | 87.93 | -96.81 | -898.01 | 6,750.95 | 595.97 | 416.93 | 179.04 | 3.329 | | | |
| 12,421.31 | 5,531.78 | 12,357.80 | 5,602.57 | 89.01 | 88.19 | -96.82 | -897.88 | 6,772.25 | 595.93 | 416.37 | 179.56 | 3.319 | | | |
| 12,498.70 | 5,531.00 | 12,435.20 | 5,602.26 | 89.93 | 89.12 | -96.87 | -897.41 | 6,849.64 | 595.76 | 414.34 | 181.42 | 3.284 | | | |
| 12,500.00 | 5,530.99 | 12,436.50 | 5,602.26 | 89.94 | 89.14 | -96.87 | -897.40 | 6,850.94 | 595.75 | 414.31 | 181.45 | 3.283 | | | |
| 12,503.98 | 5,530.95 | 12,440.48 | 5,602.24 | 89.99 | 89.18 | -96.87 | -897.38 | 6,854.92 | 595.74 | 414.20 | 181.54 | 3.282 | | | |
| 12,506.03 | 5,530.94 | 12,442.53 | 5,602.23 | 90.02 | 89.21 | -96.87 | -897.37 | 6,856.98 | 595.74 | 414.15 | 181.59 | 3.281 | | | |
| 12,527.66 | 5,530.85 | 12,464.16 | 5,602.15 | 90.27 | 89.47 | -96.87 | -897.24 | 6,878.60 | 595.68 | 413.57 | 182.11 | 3.271 | | | |
| 12,543.57 | 5,530.86 | 12,480.07 | 5,602.09 | 90.46 | 89.66 | -96.87 | -897.14 | 6,894.51 | 595.62 | 413.13 | 182.49 | 3.264 | | | |
| 12,600.00 | 5,530.86 | 12,536.50 | 5,601.86 | 91.14 | 90.34 | -96.85 | -896.80 | 6,950.94 | 595.43 | 411.60 | 183.83 | 3.239 | | | |
| 12,622.01 | 5,530.86 | 12,558.50 | 5,601.78 | 91.40 | 90.61 | -96.84 | -896.66 | 6,972.94 | 595.36 | 411.00 | 184.35 | 3.229 | | | |
| 12,700.00 | 5,530.86 | 12,636.49 | 5,601.47 | 92.33 | 91.55 | -96.81 | -896.19 | 7,050.93 | 595.09 | 408.88 | 186.21 | 3.196 | | | |
| 12,722.01 | 5,530.86 | 12,658.50 | 5,601.38 | 92.59 | 91.82 | -96.81 | -896.06 | 7,072.94 | 595.02 | 408.28 | 186.74 | 3.186 | | | |
| 12,800.00 | 5,530.87 | 12,736.49 | 5,601.08 | 93.53 | 92.76 | -96.78 | -895.58 | 7,150.93 | 594.75 | 406.16 | 188.60 | 3.154 | | | |
| 12,822.02 | 5,530.87 | 12,758.51 | 5,600.99 | 93.79 | 93.03 | -96.77 | -895.45 | 7,172.95 | 594.68 | 405.56 | 189.12 | 3.144 | | | |
| 12,900.00 | 5,530.87 | 12,836.49 | 5,600.69 | 94.73 | 93.97 | -96.75 | -894.98 | 7,250.93 | 594.41 | 403.43 | 190.98 | 3.112 | | | |
| 12,922.02 | 5,530.87 | 12,858.51 | 5,600.60 | 94.99 | 94.24 | -96.74 | -894.84 | 7,272.95 | 594.34 | 402.83 | 191.51 | 3.103 | | | |
| 13,000.00 | 5,530.87 | 12,936.49 | 5,600.29 | 95.93 | 95.18 | -96.71 | -894.37 | 7,350.92 | 594.08 | 400.70 | 193.37 | 3.072 | | | |
| 13,022.02 | 5,530.87 | 12,958.51 | 5,600.21 | 96.19 | 95.45 | -96.70 | -894.24 | 7,372.95 | 594.00 | 400.10 | 193.90 | 3.063 | | | |
| 13,100.00 | 5,530.88 | 13,036.49 | 5,599.90 | 97.13 | 96.39 | -96.68 | -893.77 | 7,450.92 | 593.74 | 397.97 | 195.77 | 3.033 | | | |
| 13,122.03 | 5,530.88 | 13,058.52 | 5,599.81 | 97.39 | 96.66 | -96.67 | -893.63 | 7,472.95 | 593.66 | 397.37 | 196.29 | 3.024 | | | |
| 13,200.00 | 5,530.88 | 13,136.49 | 5,599.51 | 98.33 | 97.61 | -96.64 | -893.16 | 7,550.92 | 593.40 | 395.24 | 198.16 | 2.995 | | | |
| 13,222.03 | 5,530.88 | 13,158.52 | 5,599.42 | 98.59 | 97.87 | -96.63 | -893.03 | 7,572.95 | 593.33 | 394.64 | 198.69 | 2.986 | | | |
| 13,300.00 | 5,530.88 | 13,236.49 | 5,599.11 | 99.53 | 98.82 | -96.61 | -892.55 | 7,650.91 | 593.06 | 392.50 | 200.56 | 2.957 | | | |
| 13,322.04 | 5,530.88 | 13,258.52 | 5,599.03 | 99.80 | 99.09 | -96.60 | -892.42 | 7,672.95 | 592.99 | 391.90 | 201.09 | 2.949 | | | |
| 13,400.00 | 5,530.89 | 13,336.49 | 5,598.72 | 100.73 | 100.04 | -96.57 | -891.95 | 7,750.91 | 592.73 | 389.77 | 202.96 | 2.920 | | | |
| 13,422.04 | 5,530.89 | 13,358.53 | 5,598.63 | 101.00 | 100.30 | -96.56 | -891.81 | 7,772.95 | 592.65 | 389.17 | 203.49 | 2.912 | | | |
| 13,500.00 | 5,530.89 | 13,436.48 | 5,598.33 | 101.94 | 101.25 | -96.54 | -891.34 | 7,850.90 | 592.39 | 387.03 | 205.36 | 2.885 | | | |
| 13,522.05 | 5,530.89 | 13,458.53 | 5,598.24 | 102.21 | 101.52 | -96.53 | -891.21 | 7,872.95 | 592.31 | 386.43 | 205.89 | 2.877 | | | |
| 13,600.00 | 5,530.90 | 13,536.48 | 5,597.94 | 103.15 | 102.47 | -96.50 | -890.73 | 7,950.90 | 592.05 | 384.29 | 207.76 | 2.850 | | | |
| 13,622.05 | 5,530.90 | 13,558.53 | 5,597.85 | 103.41 | 102.74 | -96.49 | -890.60 | 7,972.95 | 591.98 | 383.69 | 208.29 | 2.842 | | | |
| 13,700.00 | 5,530.90 | 13,636.48 | 5,597.54 | 104.35 | 103.69 | -96.47 | -890.13 | 8,050.90 | 591.72 | 381.55 | 210.17 | 2.815 | | | |
| 13,722.05 | 5,530.90 | 13,658.54 | 5,597.46 | 104.62 | 103.95 | -96.46 | -889.99 | 8,072.95 | 591.64 | 380.94 | 210.70 | 2.808 | | | |
| 13,800.00 | 5,530.90 | 13,736.48 | 5,597.15 | 105.56 | 104.90 | -96.43 | -889.52 | 8,150.89 | 591.38 | 378.81 | 212.57 | 2.782 | | | |
| 13,822.06 | 5,530.90 | 13,758.54 | 5,597.06 | 105.83 | 105.17 | -96.42 | -889.39 | 8,172.95 | 591.30 | 378.20 | 213.10 | 2.775 | | | |
| 13,900.00 | 5,530.91 | 13,836.48 | 5,596.76 | 106.77 | 106.12 | -96.40 | -888.92 | 8,250.89 | 591.04 | 376.06 | 214.98 | 2.749 | | | |
| 13,922.06 | 5,530.91 | 13,858.54 | 5,596.67 | 107.04 | 106.39 | -96.39 | -888.78 | 8,272.95 | 590.97 | 375.45 | 215.51 | 2.742 | | | |
| 14,000.00 | 5,530.91 | 13,936.48 | 5,596.36 | 107.98 | 107.34 | -96.36 | -888.31 | 8,350.89 | 590.71 | 373.31 | 217.39 | 2.717 | | | |
| 14,022.07 | 5,530.91 | 13,958.55 | 5,596.28 | 108.25 | 107.61 | -96.35 | -888.18 | 8,372.95 | 590.63 | 372.71 | 217.92 | 2.710 | | | |
| 14,100.00 | 5,530.91 | 14,036.48 | 5,595.97 | 109.19 | 108.56 | -96.33 | -887.70 | 8,450.88 | 590.37 | 370.57 | 219.80 | 2.686 | | | |
| 14,122.07 | 5,530.91 | 14,058.55 | 5,595.88 | 109.46 | 108.83 | -96.32 | -887.57 | 8,472.95 | 590.30 | 369.96 | 220.34 | 2.679 | | | |
| 14,200.00 | 5,530.92 | 14,136.48 | 5,595.58 | 110.40 | 109.78 | -96.29 | -887.10 | 8,550.88 | 590.04 | 367.82 | 222.22 | 2.655 | | | |
| 14,222.08 | 5,530.92 | 14,158.55 | 5,595.49 | 110.67 | 110.05 | -96.28 | -886.96 | 8,572.95 | 589.96 | 367.21 | 222.75 | 2.649 | | | |
| 14,300.00 | 5,530.92 | 14,236.47 | 5,595.19 | 111.62 | 111.00 | -96.26 | -886.49 | 8,650.87 | 589.70 | 365.07 | 224.63 | 2.625 | | | |
| 14,322.08 | 5,530.92 | 14,258.56 | 5,595.10 | 111.88 | 111.27 | -96.25 | -886.36 | 8,672.95 | 589.63 | 364.46 | 225.17 | 2.619 | | | |
| 14,400.00 | 5,530.93 | 14,336.47 | 5,594.79 | 112.83 | 112.23 | -96.22 | -885.88 | 8,750.87 | 589.37 | 362.31 | 227.05 | 2.596 | | | |
| 14,422.09 | 5,530.93 | 14,358.56 | 5,594.71 | 113.10 | 112.50 | -96.21 | -885.75 | 8,772.96 | 589.29 | 361.71 | 227.58 | 2.589 | | | |
| 14,500.00 | 5,530.93 | 14,436.47 | 5,594.40 | 114.04 | 113.45 | -96.19 | -885.28 | 8,850.87 | 589.03 | 359.56 | 229.47 | 2.567 | | | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-625 - OH - Plan #1 | | | | | | | | | | | Offset Site Error: |
|---|-----------------------|-----------------------|-----------------|--------------|------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|
| | | | | | | | | | | | 0.00 usft |
| | | | | | | | | | | | Offset Well Error: |
| | | | | | | | | | | | 0.00 usft |
| Survey Program: | Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Distance | Rule Assigned: | Warning | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Reference | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | |
| 14,522.09 | 5,530.93 | 14,458.56 | 114.31 | 113.72 | -96.18 | -885.14 | 8,872.96 | 588.96 | 358.95 | 230.00 | 2.561 |
| 14,600.00 | 5,530.93 | 14,536.47 | 115.26 | 114.67 | -96.15 | -884.67 | 8,950.86 | 588.70 | 356.81 | 231.89 | 2.539 |
| 14,622.10 | 5,530.93 | 14,558.57 | 115.53 | 114.94 | -96.14 | -884.54 | 8,972.96 | 588.62 | 356.20 | 232.42 | 2.533 |
| 14,700.00 | 5,530.94 | 14,636.47 | 116.47 | 115.90 | -96.12 | -884.07 | 9,050.86 | 588.36 | 354.05 | 234.31 | 2.511 |
| 14,722.10 | 5,530.94 | 14,658.57 | 116.74 | 116.17 | -96.11 | -883.93 | 9,072.96 | 588.29 | 353.44 | 234.85 | 2.505 |
| 14,800.00 | 5,530.94 | 14,736.47 | 117.69 | 117.12 | -96.08 | -883.46 | 9,150.85 | 588.03 | 351.29 | 236.73 | 2.484 |
| 14,822.11 | 5,530.94 | 14,758.58 | 117.96 | 117.39 | -96.07 | -883.33 | 9,172.96 | 587.95 | 350.68 | 237.27 | 2.478 |
| 14,900.00 | 5,530.94 | 14,836.47 | 118.91 | 118.35 | -96.04 | -882.85 | 9,250.85 | 587.69 | 348.54 | 239.16 | 2.457 |
| 14,922.11 | 5,530.94 | 14,858.58 | 119.18 | 118.62 | -96.04 | -882.72 | 9,272.96 | 587.62 | 347.93 | 239.69 | 2.452 |
| 15,000.00 | 5,530.95 | 14,936.47 | 120.12 | 119.57 | -96.01 | -882.25 | 9,350.85 | 587.36 | 345.78 | 241.58 | 2.431 |
| 15,022.12 | 5,530.95 | 14,958.58 | 120.39 | 119.84 | -96.00 | -882.11 | 9,372.96 | 587.29 | 345.17 | 242.12 | 2.426 |
| 15,100.00 | 5,530.95 | 15,036.46 | 121.34 | 120.80 | -95.97 | -881.64 | 9,450.84 | 587.03 | 343.02 | 244.01 | 2.406 |
| 15,122.12 | 5,530.95 | 15,058.59 | 121.61 | 121.07 | -95.97 | -881.51 | 9,472.97 | 586.95 | 342.41 | 244.55 | 2.400 |
| 15,200.00 | 5,530.96 | 15,136.46 | 122.56 | 122.02 | -95.94 | -881.04 | 9,550.84 | 586.69 | 340.25 | 246.44 | 2.381 |
| 15,222.13 | 5,530.96 | 15,158.59 | 122.83 | 122.30 | -95.93 | -880.90 | 9,572.97 | 586.62 | 339.64 | 246.97 | 2.375 |
| 15,300.00 | 5,530.96 | 15,236.46 | 123.78 | 123.25 | -95.90 | -880.43 | 9,650.84 | 586.36 | 337.49 | 248.87 | 2.356 |
| 15,322.13 | 5,530.96 | 15,258.60 | 124.05 | 123.52 | -95.89 | -880.29 | 9,672.97 | 586.29 | 336.88 | 249.40 | 2.351 |
| 15,400.00 | 5,530.96 | 15,336.46 | 125.00 | 124.48 | -95.87 | -879.82 | 9,750.83 | 586.03 | 334.73 | 251.30 | 2.332 |
| 15,422.14 | 5,530.96 | 15,358.60 | 125.27 | 124.75 | -95.86 | -879.69 | 9,772.97 | 585.95 | 334.12 | 251.84 | 2.327 |
| 15,500.00 | 5,530.97 | 15,436.46 | 126.22 | 125.71 | -95.83 | -879.22 | 9,850.83 | 585.69 | 331.97 | 253.73 | 2.308 |
| 15,522.15 | 5,530.97 | 15,458.61 | 126.49 | 125.98 | -95.82 | -879.08 | 9,872.97 | 585.62 | 331.35 | 254.27 | 2.303 |
| 15,600.00 | 5,530.97 | 15,536.46 | 127.44 | 126.93 | -95.80 | -878.61 | 9,950.82 | 585.36 | 329.20 | 256.16 | 2.285 |
| 15,622.15 | 5,530.97 | 15,558.61 | 127.71 | 127.21 | -95.79 | -878.48 | 9,972.97 | 585.29 | 328.59 | 256.70 | 2.280 |
| 15,700.00 | 5,530.97 | 15,636.46 | 128.67 | 128.16 | -95.76 | -878.00 | 10,050.82 | 585.03 | 326.43 | 258.59 | 2.262 |
| 15,722.16 | 5,530.98 | 15,658.61 | 128.94 | 128.44 | -95.75 | -877.87 | 10,072.98 | 584.96 | 325.82 | 259.13 | 2.257 |
| 15,800.00 | 5,530.98 | 15,736.46 | 129.89 | 129.39 | -95.72 | -877.40 | 10,150.82 | 584.70 | 323.67 | 261.03 | 2.240 |
| 15,822.16 | 5,530.98 | 15,758.62 | 130.16 | 129.66 | -95.72 | -877.26 | 10,172.98 | 584.62 | 323.05 | 261.57 | 2.235 |
| 15,900.00 | 5,530.98 | 15,836.46 | 131.11 | 130.62 | -95.69 | -876.79 | 10,250.81 | 584.37 | 320.90 | 263.47 | 2.218 |
| 15,922.17 | 5,530.98 | 15,858.62 | 131.38 | 130.89 | -95.68 | -876.66 | 10,272.98 | 584.29 | 320.29 | 264.01 | 2.213 |
| 16,000.00 | 5,530.99 | 15,936.45 | 132.33 | 131.85 | -95.65 | -876.19 | 10,350.81 | 584.03 | 318.13 | 265.90 | 2.196 |
| 16,022.18 | 5,530.99 | 15,958.63 | 132.61 | 132.12 | -95.64 | -876.05 | 10,372.98 | 583.96 | 317.52 | 266.44 | 2.192 |
| 16,100.00 | 5,530.99 | 16,036.45 | 133.56 | 133.08 | -95.62 | -875.58 | 10,450.80 | 583.70 | 315.36 | 268.34 | 2.175 |
| 16,122.18 | 5,530.99 | 16,058.63 | 133.83 | 133.35 | -95.61 | -875.44 | 10,472.98 | 583.63 | 314.75 | 268.88 | 2.171 |
| 16,200.00 | 5,530.99 | 16,136.45 | 134.78 | 134.31 | -95.58 | -874.97 | 10,550.80 | 583.37 | 312.59 | 270.78 | 2.154 |
| 16,222.19 | 5,530.99 | 16,158.64 | 135.05 | 134.59 | -95.57 | -874.84 | 10,572.99 | 583.30 | 311.98 | 271.32 | 2.150 |
| 16,300.00 | 5,531.00 | 16,236.45 | 136.01 | 135.54 | -95.54 | -874.37 | 10,650.80 | 583.04 | 309.82 | 273.22 | 2.134 |
| 16,320.37 | 5,531.00 | 16,256.82 | 136.26 | 135.79 | -95.54 | -874.24 | 10,671.17 | 582.97 | 309.26 | 273.72 | 2.130 |
| 16,388.76 | 5,531.00 | 16,319.94 | 137.09 | 136.57 | -95.51 | -873.86 | 10,734.28 | 582.77 | 307.55 | 275.22 | 2.117 SF |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-635 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.00 usft |
|---|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|------------------------|--------------|---------------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 0-MWD+IFR1+MS | | | | | | | | | | | | | Offset Well Error: 0.00 usft |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre | | Distance Between Centres (usft) | | Minimum Separation (usft) | Separation Factor | Warning |
| | | | | | | | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -1.13 | 56.11 | -1.11 | 56.12 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.88 | 0.88 | -1.13 | 56.11 | -1.11 | 56.12 | 54.35 | 1.77 | 31.749 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.50 | 1.50 | -1.13 | 56.11 | -1.11 | 56.12 | 53.12 | 3.00 | 18.682 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.94 | 1.94 | -1.13 | 56.11 | -1.11 | 56.12 | 52.25 | 3.87 | 14.501 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.29 | 2.29 | -1.13 | 56.11 | -1.11 | 56.12 | 51.54 | 4.58 | 12.251 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.60 | 2.60 | -1.13 | 56.11 | -1.11 | 56.12 | 50.92 | 5.20 | 10.792 CC, ES | |
| 600.00 | 599.98 | 599.98 | 599.98 | 3.04 | 2.88 | 172.45 | 56.11 | -1.11 | 57.85 | 51.94 | 5.92 | 9.779 | |
| 700.00 | 699.84 | 699.84 | 699.84 | 3.44 | 3.13 | 173.06 | 56.11 | -1.11 | 63.04 | 56.47 | 6.57 | 9.591 | |
| 800.00 | 799.45 | 801.08 | 801.07 | 3.84 | 3.43 | 173.37 | 54.95 | -1.77 | 70.56 | 63.31 | 7.25 | 9.736 | |
| 900.00 | 898.70 | 902.43 | 902.33 | 4.25 | 3.71 | 172.93 | 51.46 | -3.77 | 79.23 | 71.32 | 7.91 | 10.018 | |
| 1,000.00 | 997.47 | 1,003.85 | 1,003.53 | 4.67 | 4.00 | 171.99 | 45.63 | -7.11 | 89.09 | 80.51 | 8.58 | 10.383 | |
| 1,100.00 | 1,095.62 | 1,104.18 | 1,103.46 | 5.09 | 4.17 | 170.84 | 37.87 | -11.55 | 100.45 | 91.31 | 9.14 | 10.988 | |
| 1,200.00 | 1,193.06 | 1,203.10 | 1,201.96 | 5.53 | 4.45 | 170.14 | 29.96 | -16.07 | 115.00 | 105.17 | 9.83 | 11.696 | |
| 1,300.00 | 1,289.64 | 1,301.47 | 1,299.91 | 5.98 | 4.75 | 169.84 | 22.10 | -20.57 | 132.95 | 122.40 | 10.55 | 12.606 | |
| 1,400.00 | 1,385.27 | 1,399.17 | 1,397.19 | 6.43 | 5.06 | 169.82 | 14.29 | -25.04 | 154.27 | 142.99 | 11.28 | 13.673 | |
| 1,442.89 | 1,425.96 | 1,440.83 | 1,438.68 | 6.58 | 5.19 | 169.87 | 10.96 | -26.95 | 164.44 | 152.89 | 11.55 | 14.234 | |
| 1,500.00 | 1,480.00 | 1,496.21 | 1,493.82 | 6.78 | 5.37 | 170.00 | 6.53 | -29.48 | 178.39 | 166.47 | 11.92 | 14.967 | |
| 1,600.00 | 1,574.64 | 1,593.18 | 1,590.38 | 7.20 | 5.69 | 170.18 | -1.22 | -33.92 | 202.82 | 190.20 | 12.63 | 16.063 | |
| 1,700.00 | 1,669.27 | 1,690.15 | 1,686.94 | 7.62 | 6.02 | 170.32 | -8.98 | -38.36 | 227.26 | 213.90 | 13.35 | 17.021 | |
| 1,800.00 | 1,763.90 | 1,787.12 | 1,783.49 | 8.06 | 6.36 | 170.43 | -16.73 | -42.80 | 251.69 | 237.60 | 14.09 | 17.860 | |
| 1,900.00 | 1,858.53 | 1,884.08 | 1,880.05 | 8.50 | 6.70 | 170.52 | -24.48 | -47.23 | 276.12 | 261.28 | 14.85 | 18.600 | |
| 2,000.00 | 1,953.16 | 1,981.05 | 1,976.60 | 8.95 | 7.04 | 170.60 | -32.24 | -51.67 | 300.56 | 284.95 | 15.61 | 19.255 | |
| 2,100.00 | 2,047.80 | 2,078.02 | 2,073.16 | 9.41 | 7.39 | 170.67 | -39.99 | -56.11 | 324.99 | 308.61 | 16.38 | 19.838 | |
| 2,200.00 | 2,142.43 | 2,174.99 | 2,169.72 | 9.88 | 7.74 | 170.73 | -47.74 | -60.54 | 349.43 | 332.26 | 17.16 | 20.358 | |
| 2,300.00 | 2,237.06 | 2,271.96 | 2,266.27 | 10.35 | 8.10 | 170.77 | -55.49 | -64.98 | 373.86 | 355.91 | 17.95 | 20.825 | |
| 2,400.00 | 2,331.69 | 2,368.92 | 2,362.83 | 10.82 | 8.45 | 170.82 | -63.25 | -69.42 | 398.30 | 379.55 | 18.75 | 21.246 | |
| 2,500.00 | 2,426.33 | 2,465.89 | 2,459.38 | 11.30 | 8.81 | 170.86 | -71.00 | -73.85 | 422.74 | 403.19 | 19.55 | 21.626 | |
| 2,600.00 | 2,520.96 | 2,562.86 | 2,555.94 | 11.78 | 9.17 | 170.89 | -78.75 | -78.29 | 447.17 | 426.82 | 20.35 | 21.971 | |
| 2,700.00 | 2,615.59 | 2,659.83 | 2,652.49 | 12.27 | 9.53 | 170.92 | -86.51 | -82.73 | 471.61 | 450.45 | 21.16 | 22.286 | |
| 2,800.00 | 2,710.22 | 2,756.80 | 2,749.05 | 12.76 | 9.90 | 170.95 | -94.26 | -87.16 | 496.04 | 474.07 | 21.97 | 22.574 | |
| 2,900.00 | 2,804.86 | 2,853.76 | 2,845.61 | 13.25 | 10.26 | 170.97 | -102.01 | -91.60 | 520.48 | 497.69 | 22.79 | 22.837 | |
| 3,000.00 | 2,899.49 | 2,950.73 | 2,942.16 | 13.74 | 10.63 | 171.00 | -109.76 | -96.04 | 544.92 | 521.31 | 23.61 | 23.080 | |
| 3,100.00 | 2,994.12 | 3,047.70 | 3,038.72 | 14.23 | 10.99 | 171.02 | -117.52 | -100.48 | 569.35 | 544.92 | 24.43 | 23.304 | |
| 3,200.00 | 3,088.75 | 3,144.67 | 3,135.27 | 14.73 | 11.36 | 171.04 | -125.27 | -104.91 | 593.79 | 568.54 | 25.26 | 23.511 | |
| 3,300.00 | 3,183.39 | 3,241.64 | 3,231.83 | 15.23 | 11.73 | 171.05 | -133.02 | -109.35 | 618.23 | 592.15 | 26.08 | 23.703 | |
| 3,400.00 | 3,278.02 | 3,338.61 | 3,328.38 | 15.73 | 12.10 | 171.07 | -140.78 | -113.79 | 642.67 | 615.75 | 26.91 | 23.881 | |
| 3,500.00 | 3,372.65 | 3,435.57 | 3,424.94 | 16.23 | 12.47 | 171.09 | -148.53 | -118.22 | 667.10 | 639.36 | 27.74 | 24.047 | |
| 3,600.00 | 3,467.28 | 3,532.54 | 3,521.50 | 16.73 | 12.84 | 171.10 | -156.28 | -122.66 | 691.54 | 662.97 | 28.57 | 24.202 | |
| 3,700.00 | 3,561.92 | 3,629.51 | 3,618.05 | 17.23 | 13.21 | 171.11 | -164.03 | -127.10 | 715.98 | 686.57 | 29.41 | 24.347 | |
| 3,800.00 | 3,656.55 | 3,726.48 | 3,714.61 | 17.73 | 13.58 | 171.13 | -171.79 | -131.53 | 740.41 | 710.17 | 30.24 | 24.482 | |
| 3,900.00 | 3,751.18 | 3,823.45 | 3,811.16 | 18.24 | 13.96 | 171.14 | -179.54 | -135.97 | 764.85 | 733.77 | 31.08 | 24.610 | |
| 4,000.00 | 3,845.81 | 3,920.41 | 3,907.72 | 18.74 | 14.33 | 171.15 | -187.29 | -140.41 | 789.29 | 757.37 | 31.92 | 24.730 | |
| 4,100.00 | 3,940.44 | 4,017.38 | 4,004.27 | 19.25 | 14.70 | 171.16 | -195.05 | -144.85 | 813.72 | 780.97 | 32.76 | 24.842 | |
| 4,200.00 | 4,035.08 | 4,114.35 | 4,100.83 | 19.76 | 15.08 | 171.17 | -202.80 | -149.28 | 838.16 | 804.57 | 33.60 | 24.949 | |
| 4,300.00 | 4,129.71 | 4,211.32 | 4,197.39 | 20.26 | 15.45 | 171.18 | -210.55 | -153.72 | 862.60 | 828.16 | 34.44 | 25.050 | |
| 4,400.00 | 4,224.34 | 4,308.29 | 4,293.94 | 20.77 | 15.83 | 171.18 | -218.30 | -158.16 | 887.04 | 851.76 | 35.28 | 25.145 | |
| 4,500.00 | 4,318.97 | 4,405.25 | 4,390.50 | 21.28 | 16.20 | 171.19 | -226.06 | -162.59 | 911.47 | 875.35 | 36.12 | 25.235 | |
| 4,600.00 | 4,413.61 | 4,502.22 | 4,487.05 | 21.79 | 16.58 | 171.20 | -233.81 | -167.03 | 935.91 | 898.95 | 36.96 | 25.320 | |
| 4,700.00 | 4,508.24 | 4,599.19 | 4,583.61 | 22.30 | 16.95 | 171.21 | -241.56 | -171.47 | 960.35 | 922.54 | 37.81 | 25.401 | |
| 4,800.00 | 4,602.87 | 4,696.16 | 4,680.16 | 22.81 | 17.33 | 171.21 | -249.32 | -175.90 | 984.79 | 946.13 | 38.65 | 25.479 | |
| 4,900.00 | 4,697.50 | 4,793.13 | 4,776.72 | 23.32 | 17.70 | 171.22 | -257.07 | -180.34 | 1,009.22 | 969.73 | 39.50 | 25.552 | |
| 5,000.00 | 4,792.14 | 4,892.63 | 4,875.85 | 23.83 | 18.04 | 171.42 | -265.01 | -181.58 | 1,033.58 | 993.20 | 40.38 | 25.595 | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-635 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.00 usft |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|--------------|-------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Survey Program: 0-MWD+IFR1+MS | | Offset | | Semi Major Axis | | Highside Toolface (°) | Offset Wellbore Centre | | Rule Assigned: Distance | | Minimum Separation (usft) | Separation Factor | Warning |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | | | |
| 5,056.23 | 4,845.35 | 4,948.41 | 4,931.22 | 24.11 | 18.13 | 171.84 | -269.42 | -176.60 | 1,047.17 | 1,006.26 | 40.90 | 25.603 | |
| 5,100.00 | 4,886.79 | 4,991.14 | 4,973.27 | 24.32 | 18.13 | -176.59 | -272.75 | -169.87 | 1,057.76 | 1,016.49 | 41.27 | 25.633 | |
| 5,150.00 | 4,934.07 | 5,039.48 | 5,020.28 | 24.57 | 18.11 | -163.71 | -276.46 | -159.24 | 1,069.89 | 1,028.25 | 41.65 | 25.690 | |
| 5,200.00 | 4,981.04 | 5,087.36 | 5,066.02 | 24.79 | 18.08 | -152.01 | -280.05 | -145.60 | 1,081.99 | 1,040.00 | 41.99 | 25.769 | |
| 5,250.00 | 5,027.48 | 5,134.81 | 5,110.36 | 25.01 | 18.03 | -141.92 | -283.51 | -129.08 | 1,093.99 | 1,051.70 | 42.29 | 25.869 | |
| 5,300.00 | 5,073.17 | 5,181.89 | 5,153.18 | 25.19 | 17.98 | -133.45 | -286.83 | -109.83 | 1,105.83 | 1,063.28 | 42.55 | 25.988 | |
| 5,350.00 | 5,117.89 | 5,228.62 | 5,194.35 | 25.36 | 17.93 | -126.41 | -290.02 | -87.96 | 1,117.44 | 1,074.66 | 42.77 | 26.124 | |
| 5,400.00 | 5,161.41 | 5,275.05 | 5,233.76 | 25.51 | 17.89 | -120.55 | -293.04 | -63.62 | 1,128.76 | 1,085.80 | 42.96 | 26.273 | |
| 5,450.00 | 5,203.52 | 5,321.19 | 5,271.29 | 25.63 | 17.84 | -115.63 | -295.91 | -36.94 | 1,139.73 | 1,096.61 | 43.12 | 26.431 | |
| 5,500.00 | 5,244.02 | 5,367.10 | 5,306.85 | 25.74 | 17.80 | -111.48 | -298.60 | -8.05 | 1,150.29 | 1,107.03 | 43.25 | 26.593 | |
| 5,550.00 | 5,282.71 | 5,412.78 | 5,340.34 | 25.84 | 17.78 | -107.94 | -301.12 | 22.92 | 1,160.38 | 1,117.01 | 43.37 | 26.755 | |
| 5,600.00 | 5,319.41 | 5,458.27 | 5,371.66 | 25.93 | 17.76 | -104.91 | -303.45 | 55.81 | 1,169.96 | 1,126.49 | 43.47 | 26.912 | |
| 5,650.00 | 5,353.93 | 5,503.58 | 5,400.73 | 26.01 | 17.75 | -102.29 | -305.60 | 90.49 | 1,178.98 | 1,135.41 | 43.57 | 27.059 | |
| 5,700.00 | 5,386.10 | 5,550.00 | 5,428.18 | 26.09 | 17.76 | -100.01 | -307.60 | 127.86 | 1,187.38 | 1,143.70 | 43.68 | 27.184 | |
| 5,750.00 | 5,415.77 | 5,593.76 | 5,451.80 | 26.16 | 17.79 | -98.06 | -309.29 | 164.65 | 1,195.12 | 1,151.35 | 43.77 | 27.303 | |
| 5,800.00 | 5,442.80 | 5,638.65 | 5,473.66 | 26.24 | 17.84 | -96.37 | -310.84 | 203.82 | 1,202.17 | 1,158.29 | 43.89 | 27.392 | |
| 5,850.00 | 5,467.05 | 5,683.43 | 5,492.98 | 26.32 | 17.91 | -94.92 | -312.17 | 244.19 | 1,208.49 | 1,164.47 | 44.02 | 27.453 | |
| 5,900.00 | 5,488.40 | 5,728.10 | 5,509.72 | 26.41 | 17.99 | -93.68 | -313.29 | 285.58 | 1,214.05 | 1,169.88 | 44.17 | 27.484 | |
| 5,950.00 | 5,506.75 | 5,772.68 | 5,523.83 | 26.50 | 18.10 | -92.65 | -314.20 | 327.85 | 1,218.82 | 1,174.47 | 44.35 | 27.482 | |
| 6,000.00 | 5,522.02 | 5,817.16 | 5,535.26 | 26.61 | 18.23 | -91.81 | -314.89 | 370.82 | 1,222.77 | 1,178.22 | 44.55 | 27.446 | |
| 6,050.00 | 5,534.12 | 5,861.56 | 5,544.00 | 26.73 | 18.38 | -91.14 | -315.36 | 414.34 | 1,225.89 | 1,181.11 | 44.79 | 27.373 | |
| 6,100.00 | 5,543.00 | 5,905.87 | 5,550.03 | 26.86 | 18.54 | -90.64 | -315.61 | 458.23 | 1,228.16 | 1,183.12 | 45.05 | 27.264 | |
| 6,150.00 | 5,548.61 | 5,950.00 | 5,553.33 | 27.01 | 18.73 | -90.31 | -315.64 | 502.23 | 1,229.57 | 1,184.23 | 45.34 | 27.119 | |
| 6,200.00 | 5,550.93 | 5,994.96 | 5,553.94 | 27.17 | 18.93 | -90.14 | -315.46 | 547.18 | 1,230.11 | 1,184.44 | 45.67 | 26.934 | |
| 6,210.11 | 5,551.00 | 6,005.07 | 5,553.84 | 27.20 | 18.98 | -90.13 | -315.40 | 557.29 | 1,230.11 | 1,184.35 | 45.75 | 26.885 | |
| 6,300.00 | 5,551.00 | 6,094.95 | 5,552.95 | 27.54 | 19.45 | -90.09 | -314.85 | 647.17 | 1,229.84 | 1,183.29 | 46.55 | 26.419 | |
| 6,400.00 | 5,551.00 | 6,194.94 | 5,551.95 | 27.96 | 20.03 | -90.04 | -314.24 | 747.15 | 1,229.54 | 1,181.99 | 47.55 | 25.858 | |
| 6,500.00 | 5,551.00 | 6,294.94 | 5,550.96 | 28.44 | 20.67 | -90.00 | -313.64 | 847.14 | 1,229.25 | 1,180.59 | 48.66 | 25.264 | |
| 6,600.00 | 5,551.00 | 6,394.93 | 5,549.97 | 28.96 | 21.36 | -89.95 | -313.03 | 947.13 | 1,228.96 | 1,179.10 | 49.86 | 24.648 | |
| 6,700.00 | 5,551.00 | 6,494.93 | 5,548.97 | 29.53 | 22.10 | -89.91 | -312.43 | 1,047.12 | 1,228.66 | 1,177.51 | 51.16 | 24.018 | |
| 6,800.00 | 5,551.00 | 6,594.92 | 5,547.98 | 30.14 | 22.89 | -89.86 | -311.82 | 1,147.10 | 1,228.37 | 1,175.83 | 52.54 | 23.381 | |
| 6,900.00 | 5,551.00 | 6,694.92 | 5,546.99 | 30.79 | 23.71 | -89.81 | -311.21 | 1,247.09 | 1,228.08 | 1,174.08 | 54.00 | 22.744 | |
| 6,938.46 | 5,551.00 | 6,733.37 | 5,546.61 | 31.05 | 24.04 | -89.79 | -310.98 | 1,285.54 | 1,227.97 | 1,173.39 | 54.58 | 22.497 | |
| 7,000.00 | 5,551.00 | 6,794.91 | 5,545.99 | 31.47 | 24.58 | -89.77 | -310.61 | 1,347.08 | 1,227.79 | 1,172.26 | 55.53 | 22.112 | |
| 7,035.06 | 5,551.00 | 6,829.97 | 5,545.65 | 31.72 | 24.89 | -89.75 | -310.40 | 1,382.13 | 1,227.69 | 1,171.61 | 56.08 | 21.890 | |
| 7,100.00 | 5,551.00 | 6,894.91 | 5,545.00 | 32.19 | 25.47 | -89.72 | -310.00 | 1,447.07 | 1,227.50 | 1,170.38 | 57.12 | 21.490 | |
| 7,132.70 | 5,551.00 | 6,927.61 | 5,544.68 | 32.43 | 25.77 | -89.70 | -309.80 | 1,479.77 | 1,227.41 | 1,169.75 | 57.66 | 21.286 | |
| 7,200.00 | 5,551.00 | 6,994.90 | 5,544.01 | 32.94 | 26.39 | -89.67 | -309.40 | 1,547.06 | 1,227.21 | 1,168.44 | 58.78 | 20.879 | |
| 7,230.97 | 5,551.00 | 7,025.87 | 5,543.70 | 33.18 | 26.69 | -89.66 | -309.21 | 1,578.02 | 1,227.12 | 1,167.82 | 59.31 | 20.692 | |
| 7,300.00 | 5,551.00 | 7,094.90 | 5,543.01 | 33.71 | 27.34 | -89.63 | -308.79 | 1,647.04 | 1,226.92 | 1,166.44 | 60.49 | 20.284 | |
| 7,329.64 | 5,551.00 | 7,124.53 | 5,542.72 | 33.95 | 27.63 | -89.61 | -308.61 | 1,676.68 | 1,226.84 | 1,165.83 | 61.01 | 20.110 | |
| 7,400.00 | 5,551.00 | 7,194.89 | 5,542.02 | 34.52 | 28.32 | -89.58 | -308.18 | 1,747.03 | 1,226.64 | 1,164.39 | 62.25 | 19.706 | |
| 7,428.58 | 5,551.00 | 7,223.47 | 5,541.74 | 34.75 | 28.60 | -89.57 | -308.01 | 1,775.61 | 1,226.56 | 1,163.79 | 62.76 | 19.543 | |
| 7,500.00 | 5,551.00 | 7,294.89 | 5,541.03 | 35.35 | 29.31 | -89.53 | -307.58 | 1,847.02 | 1,226.35 | 1,162.30 | 64.06 | 19.145 | |
| 7,527.72 | 5,551.00 | 7,322.60 | 5,540.75 | 35.58 | 29.59 | -89.52 | -307.41 | 1,874.73 | 1,226.27 | 1,161.70 | 64.57 | 18.992 | |
| 7,600.00 | 5,551.00 | 7,394.88 | 5,540.03 | 36.20 | 30.33 | -89.49 | -306.97 | 1,947.01 | 1,226.07 | 1,160.16 | 65.91 | 18.604 | |
| 7,627.00 | 5,551.00 | 7,421.88 | 5,539.77 | 36.43 | 30.61 | -89.47 | -306.81 | 1,974.00 | 1,225.99 | 1,159.57 | 66.41 | 18.460 | |
| 7,700.00 | 5,551.00 | 7,494.87 | 5,539.04 | 37.07 | 31.36 | -89.44 | -306.37 | 2,047.00 | 1,225.78 | 1,157.99 | 67.79 | 18.081 | |
| 7,726.39 | 5,551.00 | 7,521.26 | 5,538.78 | 37.31 | 31.64 | -89.43 | -306.21 | 2,073.38 | 1,225.71 | 1,157.40 | 68.30 | 17.945 | |
| 7,800.00 | 5,551.00 | 7,594.87 | 5,538.05 | 37.97 | 32.41 | -89.39 | -305.76 | 2,146.98 | 1,225.50 | 1,155.78 | 69.72 | 17.577 | |
| 7,825.87 | 5,551.00 | 7,620.74 | 5,537.79 | 38.20 | 32.68 | -89.38 | -305.60 | 2,172.85 | 1,225.42 | 1,155.20 | 70.23 | 17.450 | |
| 7,900.00 | 5,551.00 | 7,694.86 | 5,537.05 | 38.88 | 33.47 | -89.35 | -305.15 | 2,246.97 | 1,225.21 | 1,153.54 | 71.68 | 17.093 | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-635 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.00 usft |
|---|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|
| Survey Program: 0-MWD+IFR1+MS | | Offset | | Semi Major Axis | | Highside Toolface (°) | Offset Wellbore Centre | | Rule Assigned: Distance | | Minimum Separation (usft) | Separation Factor | Warning |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | | | |
| 7,925.42 | 5,551.00 | 7,720.28 | 5,536.80 | 39.12 | 33.74 | -89.34 | -305.00 | 2,272.39 | 1,225.14 | 1,152.96 | 72.18 | 16.973 | |
| 8,000.00 | 5,551.00 | 7,794.86 | 5,536.06 | 39.81 | 34.54 | -89.30 | -304.55 | 2,346.96 | 1,224.93 | 1,151.26 | 73.67 | 16.628 | |
| 8,025.03 | 5,551.00 | 7,819.89 | 5,535.81 | 40.05 | 34.82 | -89.29 | -304.40 | 2,371.98 | 1,224.86 | 1,150.69 | 74.17 | 16.514 | |
| 8,100.00 | 5,551.00 | 7,894.85 | 5,535.07 | 40.76 | 35.63 | -89.25 | -303.94 | 2,446.95 | 1,224.65 | 1,148.97 | 75.68 | 16.181 | |
| 8,124.68 | 5,551.00 | 7,919.53 | 5,534.82 | 41.00 | 35.90 | -89.24 | -303.79 | 2,471.62 | 1,224.58 | 1,148.39 | 76.19 | 16.073 | |
| 8,200.00 | 5,551.00 | 7,994.85 | 5,534.07 | 41.72 | 36.73 | -89.21 | -303.34 | 2,546.94 | 1,224.37 | 1,146.64 | 77.73 | 15.752 | |
| 8,234.37 | 5,551.00 | 8,029.22 | 5,533.73 | 42.06 | 37.11 | -89.19 | -303.13 | 2,581.30 | 1,224.27 | 1,145.84 | 78.44 | 15.608 | |
| 8,300.00 | 5,551.00 | 8,094.84 | 5,533.08 | 42.70 | 37.83 | -89.16 | -302.73 | 2,646.92 | 1,224.09 | 1,144.29 | 79.80 | 15.340 | |
| 8,334.09 | 5,551.00 | 8,128.94 | 5,532.74 | 43.04 | 38.21 | -89.15 | -302.52 | 2,681.01 | 1,224.00 | 1,143.49 | 80.51 | 15.203 | |
| 8,400.00 | 5,551.00 | 8,194.84 | 5,532.09 | 43.69 | 38.95 | -89.11 | -302.12 | 2,746.91 | 1,223.81 | 1,141.93 | 81.89 | 14.945 | |
| 8,433.85 | 5,551.00 | 8,228.68 | 5,531.75 | 44.03 | 39.33 | -89.10 | -301.92 | 2,780.75 | 1,223.72 | 1,141.12 | 82.60 | 14.815 | |
| 8,500.00 | 5,551.00 | 8,294.83 | 5,531.10 | 44.69 | 40.07 | -89.07 | -301.52 | 2,846.90 | 1,223.53 | 1,139.54 | 84.00 | 14.566 | |
| 8,533.62 | 5,551.00 | 8,328.45 | 5,530.76 | 45.03 | 40.45 | -89.05 | -301.32 | 2,880.51 | 1,223.44 | 1,138.73 | 84.71 | 14.442 | |
| 8,600.00 | 5,551.00 | 8,394.83 | 5,530.10 | 45.71 | 41.20 | -89.02 | -300.91 | 2,946.89 | 1,223.26 | 1,137.13 | 86.13 | 14.203 | |
| 8,633.41 | 5,551.00 | 8,428.24 | 5,529.77 | 46.05 | 41.58 | -89.01 | -300.71 | 2,980.30 | 1,223.16 | 1,136.32 | 86.84 | 14.085 | |
| 8,700.00 | 5,551.00 | 8,494.82 | 5,529.11 | 46.73 | 42.34 | -88.97 | -300.31 | 3,046.87 | 1,222.98 | 1,134.70 | 88.28 | 13.854 | |
| 8,733.23 | 5,551.00 | 8,528.22 | 5,528.87 | 47.08 | 42.72 | -88.96 | -300.10 | 3,080.27 | 1,222.89 | 1,133.89 | 89.00 | 13.741 | |
| 8,800.00 | 5,551.00 | 8,595.04 | 5,528.86 | 47.77 | 43.48 | -88.96 | -299.70 | 3,147.09 | 1,222.69 | 1,132.24 | 90.45 | 13.517 | |
| 8,833.66 | 5,551.00 | 8,628.70 | 5,528.86 | 48.12 | 43.87 | -88.96 | -299.50 | 3,180.75 | 1,222.59 | 1,131.40 | 91.20 | 13.406 | |
| 8,900.00 | 5,551.00 | 8,695.04 | 5,528.86 | 48.82 | 44.63 | -88.96 | -299.09 | 3,247.09 | 1,222.40 | 1,129.74 | 92.66 | 13.193 | |
| 8,933.72 | 5,551.00 | 8,728.76 | 5,528.86 | 49.17 | 45.02 | -88.96 | -298.89 | 3,280.81 | 1,222.30 | 1,128.89 | 93.40 | 13.086 | |
| 9,000.00 | 5,551.00 | 8,795.04 | 5,528.86 | 49.87 | 45.79 | -88.96 | -298.49 | 3,347.09 | 1,222.10 | 1,127.23 | 94.87 | 12.882 | |
| 9,033.72 | 5,551.00 | 8,828.76 | 5,528.86 | 50.23 | 46.18 | -88.96 | -298.28 | 3,380.81 | 1,222.00 | 1,126.38 | 95.62 | 12.779 | |
| 9,100.00 | 5,551.00 | 8,895.04 | 5,528.87 | 50.94 | 46.95 | -88.96 | -297.88 | 3,447.08 | 1,221.81 | 1,124.71 | 97.10 | 12.583 | |
| 9,133.72 | 5,551.00 | 8,928.76 | 5,528.87 | 51.30 | 47.34 | -88.96 | -297.68 | 3,480.80 | 1,221.71 | 1,123.85 | 97.86 | 12.485 | |
| 9,200.00 | 5,551.00 | 8,995.04 | 5,528.87 | 52.01 | 48.11 | -88.96 | -297.28 | 3,547.08 | 1,221.51 | 1,122.17 | 99.34 | 12.296 | |
| 9,233.72 | 5,551.00 | 9,028.76 | 5,528.87 | 52.37 | 48.51 | -88.96 | -297.07 | 3,580.80 | 1,221.42 | 1,121.31 | 100.10 | 12.202 | |
| 9,300.00 | 5,551.00 | 9,095.04 | 5,528.87 | 53.09 | 49.28 | -88.96 | -296.67 | 3,647.08 | 1,221.22 | 1,119.63 | 101.60 | 12.020 | |
| 9,333.72 | 5,551.00 | 9,128.76 | 5,528.87 | 53.45 | 49.68 | -88.96 | -296.47 | 3,680.80 | 1,221.12 | 1,118.76 | 102.36 | 11.930 | |
| 9,400.00 | 5,551.00 | 9,195.04 | 5,528.87 | 54.17 | 50.46 | -88.96 | -296.06 | 3,747.08 | 1,220.93 | 1,117.07 | 103.86 | 11.755 | |
| 9,433.72 | 5,551.00 | 9,228.76 | 5,528.87 | 54.54 | 50.85 | -88.96 | -295.86 | 3,780.79 | 1,220.83 | 1,116.20 | 104.63 | 11.668 | |
| 9,500.00 | 5,551.00 | 9,295.04 | 5,528.87 | 55.27 | 51.63 | -88.96 | -295.46 | 3,847.07 | 1,220.63 | 1,114.50 | 106.14 | 11.501 | |
| 9,533.72 | 5,551.00 | 9,328.75 | 5,528.87 | 55.64 | 52.03 | -88.96 | -295.25 | 3,880.79 | 1,220.53 | 1,113.63 | 106.91 | 11.417 | |
| 9,600.00 | 5,551.00 | 9,395.04 | 5,528.87 | 56.37 | 52.81 | -88.96 | -294.85 | 3,947.07 | 1,220.34 | 1,111.92 | 108.42 | 11.256 | |
| 9,633.72 | 5,551.00 | 9,428.75 | 5,528.88 | 56.74 | 53.21 | -88.96 | -294.65 | 3,980.79 | 1,220.24 | 1,111.05 | 109.19 | 11.175 | |
| 9,700.00 | 5,551.00 | 9,495.04 | 5,528.88 | 57.47 | 54.00 | -88.96 | -294.25 | 4,047.07 | 1,220.04 | 1,109.33 | 110.71 | 11.020 | |
| 9,733.72 | 5,551.00 | 9,528.75 | 5,528.88 | 57.85 | 54.40 | -88.96 | -294.04 | 4,080.79 | 1,219.95 | 1,108.46 | 111.49 | 10.942 | |
| 9,800.00 | 5,551.00 | 9,595.04 | 5,528.88 | 58.58 | 55.18 | -88.96 | -293.64 | 4,147.07 | 1,219.75 | 1,106.73 | 113.02 | 10.793 | |
| 9,833.72 | 5,551.00 | 9,628.75 | 5,528.88 | 58.96 | 55.58 | -88.96 | -293.43 | 4,180.78 | 1,219.65 | 1,105.86 | 113.80 | 10.718 | |
| 9,900.00 | 5,551.00 | 9,695.03 | 5,528.88 | 59.70 | 56.37 | -88.96 | -293.03 | 4,247.07 | 1,219.46 | 1,104.13 | 115.33 | 10.574 | |
| 9,933.72 | 5,551.00 | 9,728.75 | 5,528.88 | 60.08 | 56.77 | -88.96 | -292.83 | 4,280.78 | 1,219.36 | 1,103.25 | 116.11 | 10.502 | |
| 10,000.00 | 5,551.00 | 9,795.03 | 5,528.88 | 60.82 | 57.56 | -88.96 | -292.43 | 4,347.06 | 1,219.16 | 1,101.52 | 117.64 | 10.363 | |
| 10,033.72 | 5,551.00 | 9,828.75 | 5,528.88 | 61.20 | 57.97 | -88.96 | -292.22 | 4,380.78 | 1,219.06 | 1,100.64 | 118.43 | 10.294 | |
| 10,100.00 | 5,551.00 | 9,895.03 | 5,528.88 | 61.95 | 58.76 | -88.96 | -291.82 | 4,447.06 | 1,218.87 | 1,098.90 | 119.97 | 10.160 | |
| 10,133.72 | 5,551.00 | 9,928.75 | 5,528.88 | 62.33 | 59.16 | -88.96 | -291.62 | 4,480.77 | 1,218.77 | 1,098.01 | 120.76 | 10.093 | |
| 10,200.00 | 5,551.00 | 9,995.03 | 5,528.89 | 63.08 | 59.95 | -88.96 | -291.22 | 4,547.06 | 1,218.58 | 1,096.27 | 122.30 | 9.964 | |
| 10,233.71 | 5,551.00 | 10,028.75 | 5,528.89 | 63.46 | 60.36 | -88.96 | -291.01 | 4,580.77 | 1,218.48 | 1,095.39 | 123.09 | 9.899 | |
| 10,300.00 | 5,551.00 | 10,095.03 | 5,528.89 | 64.21 | 61.15 | -88.96 | -290.61 | 4,647.06 | 1,218.28 | 1,093.64 | 124.64 | 9.774 | |
| 10,333.71 | 5,551.00 | 10,128.75 | 5,528.89 | 64.60 | 61.56 | -88.96 | -290.40 | 4,680.77 | 1,218.18 | 1,092.75 | 125.43 | 9.712 | |
| 10,400.00 | 5,551.00 | 10,195.03 | 5,528.89 | 65.35 | 62.35 | -88.96 | -290.00 | 4,747.05 | 1,217.99 | 1,091.00 | 126.99 | 9.592 | |
| 10,433.71 | 5,551.00 | 10,228.75 | 5,528.89 | 65.74 | 62.76 | -88.96 | -289.80 | 4,780.77 | 1,217.89 | 1,090.11 | 127.78 | 9.531 | |
| 10,498.60 | 5,551.00 | 10,293.64 | 5,528.89 | 66.48 | 63.54 | -88.96 | -289.41 | 4,845.66 | 1,217.70 | 1,088.40 | 129.30 | 9.417 | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-635 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.00 usft | |
|---|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|------------------------------|------------------------------|
| Survey Program: 0-MWD+IFR1+MS | | Offset | | Semi Major Axis | | Highside Toolface (°) | Offset Wellbore Centre | | Rule Assigned: Distance | | Minimum Separation (usft) | Separation Factor | Warning | Offset Well Error: 0.00 usft |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | | | | |
| 10,500.00 | 5,551.00 | 10,295.03 | 5,528.89 | 66.50 | 63.56 | -88.96 | -289.40 | 4,847.05 | 1,217.69 | 1,088.36 | 129.34 | 9.415 | | |
| 10,504.77 | 5,550.99 | 10,299.80 | 5,528.89 | 66.55 | 63.61 | -88.96 | -289.37 | 4,851.82 | 1,217.68 | 1,088.23 | 129.45 | 9.407 | | |
| 10,527.46 | 5,550.85 | 10,322.49 | 5,528.89 | 66.81 | 63.89 | -88.97 | -289.23 | 4,874.51 | 1,217.61 | 1,087.63 | 129.98 | 9.367 | | |
| 10,531.35 | 5,550.82 | 10,326.38 | 5,528.89 | 66.85 | 63.93 | -88.97 | -289.21 | 4,878.40 | 1,217.60 | 1,087.52 | 130.08 | 9.361 | | |
| 10,536.63 | 5,550.76 | 10,331.66 | 5,528.89 | 66.91 | 64.00 | -88.97 | -289.17 | 4,883.68 | 1,217.58 | 1,087.38 | 130.20 | 9.352 | | |
| 10,600.00 | 5,550.12 | 10,395.03 | 5,528.89 | 67.64 | 64.76 | -89.00 | -288.79 | 4,947.05 | 1,217.38 | 1,085.68 | 131.71 | 9.243 | | |
| 10,624.52 | 5,549.88 | 10,419.54 | 5,528.89 | 67.92 | 65.06 | -89.01 | -288.64 | 4,971.56 | 1,217.31 | 1,085.02 | 132.29 | 9.202 | | |
| 10,700.00 | 5,549.12 | 10,495.02 | 5,528.90 | 68.79 | 65.97 | -89.05 | -288.18 | 5,047.04 | 1,217.07 | 1,082.99 | 134.09 | 9.077 | | |
| 10,734.59 | 5,548.77 | 10,529.61 | 5,528.90 | 69.19 | 66.38 | -89.07 | -287.98 | 5,081.62 | 1,216.97 | 1,082.05 | 134.91 | 9.020 | | |
| 10,800.00 | 5,548.11 | 10,595.02 | 5,528.90 | 69.94 | 67.17 | -89.10 | -287.58 | 5,147.03 | 1,216.76 | 1,080.29 | 136.47 | 8.916 | | |
| 10,834.82 | 5,547.76 | 10,629.84 | 5,528.90 | 70.35 | 67.60 | -89.11 | -287.37 | 5,181.85 | 1,216.66 | 1,079.35 | 137.31 | 8.861 | | |
| 10,900.00 | 5,547.10 | 10,695.01 | 5,528.90 | 71.10 | 68.38 | -89.14 | -286.97 | 5,247.02 | 1,216.45 | 1,077.59 | 138.86 | 8.760 | | |
| 10,935.08 | 5,546.75 | 10,730.09 | 5,528.90 | 71.51 | 68.81 | -89.16 | -286.76 | 5,282.10 | 1,216.35 | 1,076.64 | 139.70 | 8.707 | | |
| 11,000.00 | 5,546.10 | 10,795.01 | 5,528.90 | 72.26 | 69.59 | -89.19 | -286.37 | 5,347.02 | 1,216.14 | 1,074.89 | 141.26 | 8.609 | | |
| 11,035.37 | 5,545.74 | 10,830.37 | 5,528.90 | 72.67 | 70.02 | -89.21 | -286.15 | 5,382.38 | 1,216.04 | 1,073.93 | 142.11 | 8.557 | | |
| 11,100.00 | 5,545.09 | 10,895.00 | 5,528.90 | 73.42 | 70.81 | -89.24 | -285.76 | 5,447.01 | 1,215.84 | 1,072.18 | 143.66 | 8.463 | | |
| 11,135.69 | 5,544.73 | 10,930.69 | 5,528.90 | 73.84 | 71.24 | -89.26 | -285.54 | 5,482.69 | 1,215.73 | 1,071.21 | 144.52 | 8.412 | | |
| 11,200.00 | 5,544.08 | 10,994.99 | 5,528.90 | 74.59 | 72.02 | -89.29 | -285.15 | 5,547.00 | 1,215.53 | 1,069.47 | 146.06 | 8.322 | | |
| 11,236.05 | 5,543.72 | 11,031.04 | 5,528.90 | 75.01 | 72.46 | -89.30 | -284.94 | 5,583.04 | 1,215.42 | 1,068.49 | 146.93 | 8.272 | | |
| 11,300.00 | 5,543.07 | 11,094.99 | 5,528.91 | 75.76 | 73.23 | -89.33 | -284.55 | 5,646.99 | 1,215.22 | 1,066.75 | 148.47 | 8.185 | | |
| 11,336.45 | 5,542.71 | 11,131.44 | 5,528.91 | 76.18 | 73.68 | -89.35 | -284.33 | 5,683.44 | 1,215.11 | 1,065.76 | 149.35 | 8.136 | | |
| 11,400.00 | 5,542.07 | 11,194.98 | 5,528.91 | 76.93 | 74.45 | -89.38 | -283.94 | 5,746.99 | 1,214.92 | 1,064.04 | 150.88 | 8.052 | | |
| 11,436.91 | 5,541.69 | 11,231.89 | 5,528.91 | 77.36 | 74.90 | -89.40 | -283.72 | 5,783.89 | 1,214.81 | 1,063.04 | 151.77 | 8.004 | | |
| 11,500.00 | 5,541.06 | 11,294.98 | 5,528.91 | 78.10 | 75.67 | -89.43 | -283.34 | 5,846.98 | 1,214.61 | 1,061.32 | 153.29 | 7.923 | | |
| 11,537.43 | 5,540.68 | 11,332.41 | 5,528.91 | 78.54 | 76.12 | -89.45 | -283.11 | 5,884.41 | 1,214.50 | 1,060.30 | 154.20 | 7.876 | | |
| 11,600.00 | 5,540.05 | 11,394.97 | 5,528.91 | 79.28 | 76.89 | -89.48 | -282.73 | 5,946.97 | 1,214.31 | 1,058.60 | 155.71 | 7.798 | | |
| 11,638.04 | 5,539.67 | 11,433.01 | 5,528.91 | 79.72 | 77.35 | -89.49 | -282.50 | 5,985.01 | 1,214.20 | 1,057.56 | 156.63 | 7.752 | | |
| 11,700.00 | 5,539.04 | 11,494.97 | 5,528.91 | 80.45 | 78.10 | -89.52 | -282.12 | 6,046.96 | 1,214.01 | 1,055.88 | 158.13 | 7.677 | | |
| 11,738.75 | 5,538.65 | 11,533.72 | 5,528.91 | 80.91 | 78.58 | -89.54 | -281.89 | 6,085.71 | 1,213.89 | 1,054.82 | 159.07 | 7.631 | | |
| 11,800.00 | 5,538.04 | 11,594.96 | 5,528.92 | 81.63 | 79.32 | -89.57 | -281.52 | 6,146.96 | 1,213.71 | 1,053.15 | 160.55 | 7.559 | | |
| 11,839.60 | 5,537.64 | 11,634.56 | 5,528.92 | 82.10 | 79.81 | -89.59 | -281.28 | 6,186.56 | 1,213.59 | 1,052.07 | 161.52 | 7.514 | | |
| 11,900.00 | 5,537.03 | 11,694.96 | 5,528.92 | 82.82 | 80.54 | -89.62 | -280.91 | 6,246.95 | 1,213.41 | 1,050.43 | 162.98 | 7.445 | | |
| 11,940.63 | 5,536.62 | 11,735.58 | 5,528.92 | 83.30 | 81.04 | -89.64 | -280.67 | 6,287.57 | 1,213.28 | 1,049.32 | 163.97 | 7.400 | | |
| 12,000.00 | 5,536.02 | 11,794.95 | 5,528.92 | 84.00 | 81.77 | -89.67 | -280.31 | 6,346.94 | 1,213.11 | 1,047.70 | 165.41 | 7.334 | | |
| 12,041.90 | 5,535.60 | 11,836.84 | 5,528.92 | 84.50 | 82.28 | -89.69 | -280.05 | 6,388.84 | 1,212.98 | 1,046.55 | 166.43 | 7.288 | | |
| 12,100.00 | 5,535.02 | 11,894.94 | 5,528.92 | 85.19 | 82.99 | -89.71 | -279.70 | 6,446.93 | 1,212.81 | 1,044.97 | 167.84 | 7.226 | | |
| 12,143.51 | 5,534.58 | 11,938.45 | 5,528.92 | 85.70 | 83.52 | -89.73 | -279.44 | 6,490.44 | 1,212.68 | 1,043.78 | 168.90 | 7.180 | | |
| 12,200.00 | 5,534.01 | 11,994.94 | 5,528.92 | 86.37 | 84.21 | -89.76 | -279.09 | 6,546.93 | 1,212.51 | 1,042.23 | 170.27 | 7.121 | | |
| 12,245.62 | 5,533.55 | 12,040.56 | 5,528.92 | 86.92 | 84.77 | -89.78 | -278.82 | 6,592.55 | 1,212.37 | 1,040.99 | 171.38 | 7.074 | | |
| 12,300.00 | 5,533.00 | 12,094.93 | 5,528.92 | 87.56 | 85.44 | -89.81 | -278.49 | 6,646.92 | 1,212.21 | 1,039.50 | 172.71 | 7.019 | | |
| 12,348.54 | 5,532.51 | 12,143.47 | 5,528.93 | 88.14 | 86.03 | -89.83 | -278.19 | 6,695.46 | 1,212.07 | 1,038.17 | 173.89 | 6.970 | | |
| 12,400.00 | 5,531.99 | 12,194.93 | 5,528.93 | 88.75 | 86.66 | -89.86 | -277.88 | 6,746.91 | 1,211.91 | 1,036.77 | 175.15 | 6.919 | | |
| 12,498.70 | 5,531.00 | 12,293.62 | 5,528.93 | 89.93 | 87.87 | -89.90 | -277.28 | 6,845.61 | 1,211.62 | 1,034.07 | 177.55 | 6.824 | | |
| 12,500.00 | 5,530.99 | 12,294.92 | 5,528.93 | 89.94 | 87.89 | -89.90 | -277.28 | 6,846.91 | 1,211.62 | 1,034.03 | 177.59 | 6.823 | | |
| 12,527.66 | 5,530.85 | 12,322.59 | 5,528.93 | 90.27 | 88.23 | -89.91 | -277.11 | 6,874.57 | 1,211.54 | 1,033.28 | 178.26 | 6.797 | | |
| 12,600.00 | 5,530.86 | 12,394.92 | 5,528.93 | 91.14 | 89.11 | -89.91 | -276.67 | 6,946.90 | 1,211.32 | 1,031.31 | 180.01 | 6.729 | | |
| 12,700.00 | 5,530.86 | 12,494.92 | 5,528.93 | 92.33 | 90.34 | -89.91 | -276.06 | 7,046.90 | 1,211.03 | 1,028.59 | 182.43 | 6.638 | | |
| 12,800.00 | 5,530.87 | 12,594.92 | 5,528.93 | 93.53 | 91.57 | -89.91 | -275.46 | 7,146.90 | 1,210.73 | 1,025.87 | 184.86 | 6.549 | | |
| 12,900.00 | 5,530.87 | 12,694.92 | 5,528.94 | 94.73 | 92.80 | -89.91 | -274.85 | 7,246.90 | 1,210.44 | 1,023.15 | 187.29 | 6.463 | | |
| 13,000.00 | 5,530.87 | 12,794.92 | 5,528.94 | 95.93 | 94.02 | -89.91 | -274.25 | 7,346.89 | 1,210.15 | 1,020.43 | 189.72 | 6.379 | | |
| 13,100.00 | 5,530.88 | 12,894.92 | 5,528.94 | 97.13 | 95.25 | -89.91 | -273.64 | 7,446.89 | 1,209.85 | 1,017.70 | 192.15 | 6.296 | | |
| 13,200.00 | 5,530.88 | 12,994.92 | 5,528.94 | 98.33 | 96.48 | -89.91 | -273.03 | 7,546.89 | 1,209.56 | 1,014.97 | 194.59 | 6.216 | | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| | | | | | | | | | | | | | |
|--|------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------|---------------------|---------------------|---------------------|-------------------------------|------------------------|--------------------------|----------------|-------------------------------------|
| Offset Design: Tatanka Pads - Tatanka Federal LD13-635 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.00 usft |
| Survey Program: 0-MWD+IFR1+MS | | | | | | | | | | | | | Offset Well Error: 0.00 usft |
| Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Rule Assigned: | Distance | Between | Between | Minimum | Separation | Factor | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference | Offset | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Ellipses (usft) | Separation (usft) | | |
| 13,300.00 | 5,530.88 | 13,094.92 | 5,528.94 | 99.53 | 97.71 | -89.91 | -272.43 | 7,646.89 | 1,209.26 | 1,012.24 | 197.02 | 6.138 | |
| 13,400.00 | 5,530.89 | 13,194.92 | 5,528.95 | 100.73 | 98.94 | -89.91 | -271.82 | 7,746.88 | 1,208.97 | 1,009.51 | 199.46 | 6.061 | |
| 13,500.00 | 5,530.89 | 13,294.92 | 5,528.95 | 101.94 | 100.18 | -89.91 | -271.22 | 7,846.88 | 1,208.68 | 1,006.78 | 201.90 | 5.987 | |
| 13,600.00 | 5,530.90 | 13,394.92 | 5,528.95 | 103.15 | 101.41 | -89.91 | -270.61 | 7,946.88 | 1,208.38 | 1,004.04 | 204.34 | 5.914 | |
| 13,700.00 | 5,530.90 | 13,494.92 | 5,528.95 | 104.35 | 102.64 | -89.91 | -270.00 | 8,046.88 | 1,208.09 | 1,001.31 | 206.78 | 5.842 | |
| 13,800.00 | 5,530.90 | 13,594.92 | 5,528.95 | 105.56 | 103.87 | -89.91 | -269.40 | 8,146.88 | 1,207.80 | 998.57 | 209.22 | 5.773 | |
| 13,900.00 | 5,530.91 | 13,694.92 | 5,528.95 | 106.77 | 105.11 | -89.91 | -268.79 | 8,246.87 | 1,207.50 | 995.83 | 211.67 | 5.705 | |
| 14,000.00 | 5,530.91 | 13,794.92 | 5,528.96 | 107.98 | 106.34 | -89.91 | -268.19 | 8,346.87 | 1,207.21 | 993.09 | 214.11 | 5.638 | |
| 14,100.00 | 5,530.91 | 13,894.92 | 5,528.96 | 109.19 | 107.57 | -89.91 | -267.58 | 8,446.87 | 1,206.91 | 990.35 | 216.56 | 5.573 | |
| 14,200.00 | 5,530.92 | 13,994.91 | 5,528.96 | 110.40 | 108.81 | -89.91 | -266.97 | 8,546.87 | 1,206.62 | 987.61 | 219.01 | 5.509 | |
| 14,300.00 | 5,530.92 | 14,094.91 | 5,528.96 | 111.62 | 110.04 | -89.91 | -266.37 | 8,646.86 | 1,206.33 | 984.87 | 221.46 | 5.447 | |
| 14,400.00 | 5,530.93 | 14,194.91 | 5,528.96 | 112.83 | 111.28 | -89.91 | -265.76 | 8,746.86 | 1,206.03 | 982.13 | 223.91 | 5.386 | |
| 14,500.00 | 5,530.93 | 14,294.91 | 5,528.97 | 114.04 | 112.51 | -89.91 | -265.16 | 8,846.86 | 1,205.74 | 979.38 | 226.36 | 5.327 | |
| 14,600.00 | 5,530.93 | 14,394.91 | 5,528.97 | 115.26 | 113.75 | -89.91 | -264.55 | 8,946.86 | 1,205.44 | 976.63 | 228.81 | 5.268 | |
| 14,700.00 | 5,530.94 | 14,494.91 | 5,528.97 | 116.47 | 114.98 | -89.91 | -263.94 | 9,046.85 | 1,205.15 | 973.89 | 231.26 | 5.211 | |
| 14,800.00 | 5,530.94 | 14,594.91 | 5,528.97 | 117.69 | 116.22 | -89.91 | -263.34 | 9,146.85 | 1,204.86 | 971.14 | 233.72 | 5.155 | |
| 14,900.00 | 5,530.94 | 14,694.91 | 5,528.97 | 118.91 | 117.46 | -89.91 | -262.73 | 9,246.85 | 1,204.56 | 968.39 | 236.17 | 5.100 | |
| 15,000.00 | 5,530.95 | 14,794.91 | 5,528.97 | 120.12 | 118.69 | -89.91 | -262.13 | 9,346.85 | 1,204.27 | 965.64 | 238.63 | 5.047 | |
| 15,100.00 | 5,530.95 | 14,894.91 | 5,528.98 | 121.34 | 119.93 | -89.91 | -261.52 | 9,446.85 | 1,203.97 | 962.89 | 241.09 | 4.994 | |
| 15,200.00 | 5,530.96 | 14,994.91 | 5,528.98 | 122.56 | 121.17 | -89.91 | -260.91 | 9,546.84 | 1,203.68 | 960.14 | 243.54 | 4.942 | |
| 15,300.00 | 5,530.96 | 15,094.91 | 5,528.98 | 123.78 | 122.40 | -89.91 | -260.31 | 9,646.84 | 1,203.39 | 957.38 | 246.00 | 4.892 | |
| 15,400.00 | 5,530.96 | 15,194.91 | 5,528.98 | 125.00 | 123.64 | -89.91 | -259.70 | 9,746.84 | 1,203.09 | 954.63 | 248.46 | 4.842 | |
| 15,500.00 | 5,530.97 | 15,294.91 | 5,528.98 | 126.22 | 124.88 | -89.91 | -259.10 | 9,846.84 | 1,202.80 | 951.88 | 250.92 | 4.794 | |
| 15,600.00 | 5,530.97 | 15,394.91 | 5,528.99 | 127.44 | 126.12 | -89.91 | -258.49 | 9,946.83 | 1,202.50 | 949.12 | 253.38 | 4.746 | |
| 15,700.00 | 5,530.97 | 15,494.91 | 5,528.99 | 128.67 | 127.36 | -89.91 | -257.88 | 10,046.83 | 1,202.21 | 946.37 | 255.84 | 4.699 | |
| 15,800.00 | 5,530.98 | 15,594.91 | 5,528.99 | 129.89 | 128.60 | -89.91 | -257.28 | 10,146.83 | 1,201.92 | 943.61 | 258.31 | 4.653 | |
| 15,900.00 | 5,530.98 | 15,694.91 | 5,528.99 | 131.11 | 129.83 | -89.91 | -256.67 | 10,246.83 | 1,201.62 | 940.85 | 260.77 | 4.608 | |
| 16,000.00 | 5,530.99 | 15,794.91 | 5,528.99 | 132.33 | 131.07 | -89.90 | -256.07 | 10,346.83 | 1,201.33 | 938.10 | 263.23 | 4.564 | |
| 16,100.00 | 5,530.99 | 15,894.91 | 5,528.99 | 133.56 | 132.31 | -89.90 | -255.46 | 10,446.82 | 1,201.04 | 935.34 | 265.70 | 4.520 | |
| 16,200.00 | 5,530.99 | 15,994.91 | 5,529.00 | 134.78 | 133.55 | -89.90 | -254.85 | 10,546.82 | 1,200.74 | 932.58 | 268.16 | 4.478 | |
| 16,300.00 | 5,531.00 | 16,094.91 | 5,529.00 | 136.01 | 134.79 | -89.90 | -254.25 | 10,646.82 | 1,200.45 | 929.82 | 270.63 | 4.436 | |
| 16,381.81 | 5,531.00 | 16,173.23 | 5,529.00 | 137.01 | 135.76 | -89.90 | -253.77 | 10,725.15 | 1,200.21 | 927.63 | 272.58 | 4.403 | |
| 16,388.76 | 5,531.00 | 16,173.23 | 5,529.00 | 137.09 | 135.76 | -89.90 | -253.77 | 10,725.15 | 1,200.23 | 927.62 | 272.61 | 4.403 SF | |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.00 usft |
|---|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|-------------------------------------|-------------------------------------|---------------------------------|--|---------------------------|-------------------|------------------------------|
| Survey Program: 0-MWD+IFR1+MS | | | | | | | | | | | | | Offset Well Error: 0.00 usft |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Rule Assigned: Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -1.14 | 83.80 | -1.66 | 83.82 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.88 | 0.88 | -1.14 | 83.80 | -1.66 | 83.82 | 82.05 | 1.77 | 47.416 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.50 | 1.50 | -1.14 | 83.80 | -1.66 | 83.82 | 80.81 | 3.00 | 27.901 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.94 | 1.94 | -1.14 | 83.80 | -1.66 | 83.82 | 79.95 | 3.87 | 21.657 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.29 | 2.29 | -1.14 | 83.80 | -1.66 | 83.82 | 79.24 | 4.58 | 18.297 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.60 | 2.60 | -1.14 | 83.80 | -1.66 | 83.82 | 78.62 | 5.20 | 16.117 CC, ES | |
| 600.00 | 599.98 | 597.85 | 597.83 | 3.04 | 3.04 | 171.59 | 84.98 | -2.85 | 86.78 | 80.78 | 6.00 | 14.470 | |
| 700.00 | 699.84 | 695.56 | 695.42 | 3.44 | 3.28 | 169.97 | 88.46 | -6.36 | 95.66 | 89.06 | 6.60 | 14.488 | |
| 800.00 | 799.45 | 794.65 | 794.31 | 3.84 | 3.56 | 168.54 | 92.79 | -10.72 | 108.87 | 101.61 | 7.26 | 14.997 | |
| 900.00 | 898.70 | 893.25 | 892.72 | 4.25 | 3.86 | 167.74 | 97.10 | -15.06 | 125.50 | 117.57 | 7.93 | 15.832 | |
| 1,000.00 | 997.47 | 991.22 | 990.50 | 4.67 | 4.16 | 167.40 | 101.38 | -19.37 | 145.49 | 136.89 | 8.60 | 16.916 | |
| 1,100.00 | 1,095.62 | 1,088.46 | 1,087.55 | 5.09 | 4.47 | 167.38 | 105.63 | -23.65 | 168.81 | 159.52 | 9.28 | 18.186 | |
| 1,200.00 | 1,193.06 | 1,184.84 | 1,183.75 | 5.53 | 4.78 | 167.55 | 109.84 | -27.89 | 195.42 | 185.45 | 9.97 | 19.599 | |
| 1,300.00 | 1,289.64 | 1,280.25 | 1,278.98 | 5.98 | 5.09 | 167.83 | 114.01 | -32.09 | 225.32 | 214.65 | 10.67 | 21.123 | |
| 1,400.00 | 1,385.27 | 1,374.57 | 1,373.12 | 6.43 | 5.40 | 168.17 | 118.13 | -36.24 | 258.47 | 247.10 | 11.37 | 22.737 | |
| 1,442.89 | 1,425.96 | 1,414.66 | 1,413.13 | 6.58 | 5.53 | 168.33 | 119.89 | -38.00 | 273.67 | 262.05 | 11.62 | 23.550 | |
| 1,500.00 | 1,480.00 | 1,467.90 | 1,466.26 | 6.78 | 5.71 | 168.60 | 122.21 | -40.34 | 294.31 | 282.35 | 11.96 | 24.605 | |
| 1,600.00 | 1,574.64 | 1,561.11 | 1,559.30 | 7.20 | 6.02 | 169.00 | 126.29 | -44.44 | 330.47 | 317.86 | 12.61 | 26.200 | |
| 1,700.00 | 1,669.27 | 1,654.32 | 1,652.33 | 7.62 | 6.34 | 169.33 | 130.36 | -48.54 | 366.64 | 353.36 | 13.28 | 27.613 | |
| 1,800.00 | 1,763.90 | 1,747.53 | 1,745.36 | 8.06 | 6.65 | 169.59 | 134.43 | -52.65 | 402.82 | 388.87 | 13.95 | 28.871 | |
| 1,900.00 | 1,858.53 | 1,840.75 | 1,838.39 | 8.50 | 6.97 | 169.81 | 138.50 | -56.75 | 439.00 | 424.37 | 14.64 | 29.994 | |
| 2,000.00 | 1,953.16 | 1,933.96 | 1,931.43 | 8.95 | 7.29 | 170.00 | 142.58 | -60.85 | 475.19 | 459.86 | 15.33 | 31.003 | |
| 2,100.00 | 2,047.80 | 2,027.17 | 2,024.46 | 9.41 | 7.61 | 170.16 | 146.65 | -64.95 | 511.38 | 495.36 | 16.03 | 31.911 | |
| 2,200.00 | 2,142.43 | 2,120.38 | 2,117.49 | 9.88 | 7.94 | 170.30 | 150.72 | -69.05 | 547.58 | 530.85 | 16.73 | 32.733 | |
| 2,300.00 | 2,237.06 | 2,213.59 | 2,210.52 | 10.35 | 8.26 | 170.42 | 154.80 | -73.15 | 583.77 | 566.34 | 17.44 | 33.480 | |
| 2,400.00 | 2,331.69 | 2,306.81 | 2,303.56 | 10.82 | 8.58 | 170.53 | 158.87 | -77.26 | 619.97 | 601.83 | 18.15 | 34.160 | |
| 2,500.00 | 2,426.33 | 2,400.02 | 2,396.59 | 11.30 | 8.91 | 170.62 | 162.94 | -81.36 | 656.18 | 637.31 | 18.87 | 34.782 | |
| 2,600.00 | 2,520.96 | 2,493.23 | 2,489.62 | 11.78 | 9.23 | 170.71 | 167.02 | -85.46 | 692.38 | 672.79 | 19.58 | 35.353 | |
| 2,700.00 | 2,615.59 | 2,586.44 | 2,582.65 | 12.27 | 9.56 | 170.78 | 171.09 | -89.56 | 728.58 | 708.28 | 20.31 | 35.878 | |
| 2,800.00 | 2,710.22 | 2,679.65 | 2,675.69 | 12.76 | 9.88 | 170.85 | 175.16 | -93.66 | 764.79 | 743.76 | 21.03 | 36.363 | |
| 2,900.00 | 2,804.86 | 2,772.87 | 2,768.72 | 13.25 | 10.21 | 170.92 | 179.24 | -97.76 | 800.99 | 779.23 | 21.76 | 36.812 | |
| 3,000.00 | 2,899.49 | 2,866.08 | 2,861.75 | 13.74 | 10.54 | 170.98 | 183.31 | -101.86 | 837.20 | 814.71 | 22.49 | 37.228 | |
| 3,100.00 | 2,994.12 | 2,959.29 | 2,954.78 | 14.23 | 10.87 | 171.03 | 187.38 | -105.97 | 873.41 | 850.19 | 23.22 | 37.615 | |
| 3,200.00 | 3,088.75 | 3,052.50 | 3,047.82 | 14.73 | 11.19 | 171.08 | 191.46 | -110.07 | 909.62 | 885.66 | 23.95 | 37.976 | |
| 3,300.00 | 3,183.39 | 3,145.71 | 3,140.85 | 15.23 | 11.52 | 171.12 | 195.53 | -114.17 | 945.82 | 921.14 | 24.69 | 38.313 | |
| 3,400.00 | 3,278.02 | 3,238.93 | 3,233.88 | 15.73 | 11.85 | 171.17 | 199.60 | -118.27 | 982.03 | 956.61 | 25.42 | 38.629 | |
| 3,500.00 | 3,372.65 | 3,332.14 | 3,326.92 | 16.23 | 12.18 | 171.20 | 203.67 | -122.37 | 1,018.24 | 992.08 | 26.16 | 38.925 | |
| 3,600.00 | 3,467.28 | 3,425.35 | 3,419.95 | 16.73 | 12.51 | 171.24 | 207.75 | -126.47 | 1,054.45 | 1,027.55 | 26.90 | 39.203 | |
| 3,700.00 | 3,561.92 | 3,518.56 | 3,512.98 | 17.23 | 12.84 | 171.27 | 211.82 | -130.57 | 1,090.66 | 1,063.03 | 27.64 | 39.465 | |
| 3,800.00 | 3,656.55 | 3,611.77 | 3,606.01 | 17.73 | 13.17 | 171.31 | 215.89 | -134.68 | 1,126.87 | 1,098.50 | 28.38 | 39.711 | |
| 3,900.00 | 3,751.18 | 3,704.99 | 3,699.05 | 18.24 | 13.50 | 171.34 | 219.97 | -138.78 | 1,163.08 | 1,133.97 | 29.12 | 39.944 | |
| 4,000.00 | 3,845.81 | 3,798.20 | 3,792.08 | 18.74 | 13.83 | 171.36 | 224.04 | -142.88 | 1,199.29 | 1,169.43 | 29.86 | 40.165 | |
| 4,100.00 | 3,940.44 | 3,891.41 | 3,885.11 | 19.25 | 14.16 | 171.39 | 228.11 | -146.98 | 1,235.51 | 1,204.90 | 30.60 | 40.373 | |
| 4,200.00 | 4,035.08 | 3,984.62 | 3,978.14 | 19.76 | 14.49 | 171.42 | 232.19 | -151.08 | 1,271.72 | 1,240.37 | 31.35 | 40.571 | |
| 4,300.00 | 4,129.71 | 4,077.83 | 4,071.18 | 20.26 | 14.82 | 171.44 | 236.26 | -155.18 | 1,307.93 | 1,275.84 | 32.09 | 40.759 | |
| 4,400.00 | 4,224.34 | 4,171.05 | 4,164.21 | 20.77 | 15.15 | 171.46 | 240.33 | -159.29 | 1,344.14 | 1,311.31 | 32.83 | 40.937 | |
| 4,500.00 | 4,318.97 | 4,264.26 | 4,257.24 | 21.28 | 15.48 | 171.48 | 244.41 | -163.39 | 1,380.35 | 1,346.77 | 33.58 | 41.107 | |
| 4,600.00 | 4,413.61 | 4,357.47 | 4,350.27 | 21.79 | 15.81 | 171.50 | 248.48 | -167.49 | 1,416.56 | 1,382.24 | 34.33 | 41.269 | |
| 4,700.00 | 4,508.24 | 4,450.68 | 4,443.31 | 22.30 | 16.14 | 171.52 | 252.55 | -171.59 | 1,452.78 | 1,417.70 | 35.07 | 41.423 | |
| 4,800.00 | 4,602.87 | 4,543.89 | 4,536.34 | 22.81 | 16.47 | 171.54 | 256.63 | -175.69 | 1,488.99 | 1,453.17 | 35.82 | 41.571 | |
| 4,900.00 | 4,697.50 | 4,637.11 | 4,629.37 | 23.32 | 16.80 | 171.56 | 260.70 | -179.79 | 1,525.20 | 1,488.64 | 36.57 | 41.712 | |
| 5,000.00 | 4,792.14 | 4,730.32 | 4,722.40 | 23.83 | 17.13 | 171.57 | 264.77 | -183.89 | 1,561.41 | 1,524.10 | 37.31 | 41.851 | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1 | | | | | | | | | | | | Offset Site Error: |
|---|-----------------------|-----------------------|-----------------|--------------|------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|---------|--------------------|
| | | | | | | | | | | | | 0.00 usft |
| Survey Program: | Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Distance | Rule Assigned: | Offset Well Error: | | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Reference | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning | 0.00 usft |
| 5,056.23 | 4,845.35 | 4,782.82 | 4,774.81 | 24.11 | 17.31 | 171.58 | 267.07 | -186.20 | 1,581.78 | 1,544.06 | 37.72 | 41.940 |
| 5,100.00 | 4,886.79 | 4,825.00 | 4,816.93 | 24.32 | 17.43 | -176.76 | 268.92 | -186.66 | 1,597.63 | 1,559.58 | 38.06 | 41.981 |
| 5,150.00 | 4,934.07 | 4,873.21 | 4,865.03 | 24.57 | 17.48 | -163.77 | 271.05 | -184.15 | 1,615.71 | 1,577.28 | 38.43 | 42.042 |
| 5,200.00 | 4,981.04 | 4,921.51 | 4,912.92 | 24.79 | 17.45 | -151.96 | 273.20 | -178.39 | 1,633.67 | 1,594.92 | 38.75 | 42.159 |
| 5,250.00 | 5,027.48 | 4,969.95 | 4,960.46 | 25.01 | 17.38 | -141.76 | 275.35 | -169.38 | 1,651.43 | 1,612.40 | 39.03 | 42.314 |
| 5,300.00 | 5,073.17 | 5,018.58 | 5,007.46 | 25.19 | 17.29 | -133.18 | 277.49 | -157.12 | 1,668.89 | 1,629.61 | 39.28 | 42.491 |
| 5,350.00 | 5,117.89 | 5,067.45 | 5,053.75 | 25.36 | 17.20 | -126.03 | 279.63 | -141.62 | 1,685.97 | 1,646.48 | 39.50 | 42.685 |
| 5,400.00 | 5,161.41 | 5,116.62 | 5,099.14 | 25.51 | 17.11 | -120.07 | 281.74 | -122.87 | 1,702.60 | 1,662.90 | 39.70 | 42.890 |
| 5,450.00 | 5,203.52 | 5,166.12 | 5,143.43 | 25.63 | 17.02 | -115.06 | 283.83 | -100.88 | 1,718.68 | 1,678.80 | 39.88 | 43.099 |
| 5,500.00 | 5,244.02 | 5,215.99 | 5,186.41 | 25.74 | 16.92 | -110.82 | 285.87 | -75.70 | 1,734.14 | 1,694.10 | 40.04 | 43.307 |
| 5,550.00 | 5,282.71 | 5,266.25 | 5,227.85 | 25.84 | 16.84 | -107.19 | 287.87 | -47.34 | 1,748.90 | 1,708.71 | 40.20 | 43.507 |
| 5,600.00 | 5,319.41 | 5,316.92 | 5,267.52 | 25.93 | 16.76 | -104.08 | 289.81 | -15.88 | 1,762.90 | 1,722.55 | 40.35 | 43.691 |
| 5,650.00 | 5,353.93 | 5,368.03 | 5,305.17 | 26.01 | 16.70 | -101.40 | 291.68 | 18.61 | 1,776.06 | 1,735.56 | 40.50 | 43.854 |
| 5,700.00 | 5,386.10 | 5,419.57 | 5,340.55 | 26.09 | 16.65 | -99.07 | 293.47 | 56.02 | 1,788.31 | 1,747.65 | 40.66 | 43.986 |
| 5,750.00 | 5,415.77 | 5,471.52 | 5,373.40 | 26.16 | 16.62 | -97.06 | 295.17 | 96.22 | 1,799.60 | 1,758.78 | 40.82 | 44.082 |
| 5,800.00 | 5,442.80 | 5,523.88 | 5,403.48 | 26.24 | 16.62 | -95.33 | 296.75 | 139.04 | 1,809.87 | 1,768.86 | 41.01 | 44.134 |
| 5,850.00 | 5,467.05 | 5,576.61 | 5,430.53 | 26.32 | 16.63 | -93.85 | 298.22 | 184.26 | 1,819.06 | 1,777.84 | 41.21 | 44.136 |
| 5,900.00 | 5,488.40 | 5,629.67 | 5,454.32 | 26.41 | 16.68 | -92.59 | 299.56 | 231.66 | 1,827.13 | 1,785.68 | 41.45 | 44.082 |
| 5,950.00 | 5,506.75 | 5,683.02 | 5,474.64 | 26.50 | 16.76 | -91.53 | 300.76 | 280.95 | 1,834.04 | 1,792.33 | 41.71 | 43.969 |
| 6,000.00 | 5,522.02 | 5,736.58 | 5,491.29 | 26.61 | 16.86 | -90.67 | 301.80 | 331.84 | 1,839.76 | 1,797.75 | 42.01 | 43.795 |
| 6,050.00 | 5,534.12 | 5,790.30 | 5,504.14 | 26.73 | 17.00 | -90.00 | 302.69 | 383.98 | 1,844.25 | 1,801.91 | 42.34 | 43.559 |
| 6,100.00 | 5,543.00 | 5,844.10 | 5,513.05 | 26.86 | 17.17 | -89.50 | 303.41 | 437.03 | 1,847.49 | 1,804.78 | 42.70 | 43.262 |
| 6,150.00 | 5,548.61 | 5,897.91 | 5,517.96 | 27.01 | 17.38 | -89.17 | 303.95 | 490.59 | 1,849.47 | 1,806.36 | 43.10 | 42.909 |
| 6,200.00 | 5,550.93 | 5,950.60 | 5,519.00 | 27.17 | 17.60 | -89.01 | 304.32 | 543.26 | 1,850.17 | 1,806.64 | 43.53 | 42.504 |
| 6,210.11 | 5,551.00 | 5,960.72 | 5,519.00 | 27.20 | 17.65 | -89.01 | 304.38 | 553.38 | 1,850.17 | 1,806.55 | 43.62 | 42.417 |
| 6,213.34 | 5,551.00 | 5,963.94 | 5,519.00 | 27.22 | 17.66 | -89.01 | 304.40 | 556.60 | 1,850.16 | 1,806.51 | 43.65 | 42.388 |
| 6,300.00 | 5,551.00 | 6,050.60 | 5,519.00 | 27.54 | 18.10 | -89.01 | 304.93 | 643.26 | 1,849.91 | 1,805.43 | 44.48 | 41.586 |
| 6,329.94 | 5,551.00 | 6,080.55 | 5,519.00 | 27.67 | 18.26 | -89.01 | 305.12 | 673.20 | 1,849.83 | 1,805.03 | 44.80 | 41.294 |
| 6,400.00 | 5,551.00 | 6,150.60 | 5,519.00 | 27.96 | 18.66 | -89.01 | 305.55 | 743.26 | 1,849.62 | 1,804.06 | 45.56 | 40.598 |
| 6,423.81 | 5,551.00 | 6,174.41 | 5,519.00 | 28.08 | 18.80 | -89.01 | 305.69 | 767.07 | 1,849.56 | 1,803.72 | 45.84 | 40.352 |
| 6,500.00 | 5,551.00 | 6,250.60 | 5,519.00 | 28.44 | 19.29 | -89.01 | 306.16 | 843.26 | 1,849.34 | 1,802.59 | 46.75 | 39.562 |
| 6,523.81 | 5,551.00 | 6,274.41 | 5,519.00 | 28.57 | 19.45 | -89.01 | 306.31 | 867.07 | 1,849.27 | 1,802.22 | 47.05 | 39.308 |
| 6,600.00 | 5,551.00 | 6,350.60 | 5,519.00 | 28.96 | 19.99 | -89.01 | 306.77 | 943.25 | 1,849.05 | 1,801.02 | 48.03 | 38.497 |
| 6,623.81 | 5,551.00 | 6,374.41 | 5,519.00 | 29.10 | 20.16 | -89.01 | 306.92 | 967.06 | 1,848.98 | 1,800.63 | 48.35 | 38.239 |
| 6,700.00 | 5,551.00 | 6,450.60 | 5,519.00 | 29.53 | 20.74 | -89.01 | 307.39 | 1,043.25 | 1,848.76 | 1,799.36 | 49.41 | 37.418 |
| 6,723.81 | 5,551.00 | 6,474.41 | 5,519.00 | 29.68 | 20.92 | -89.01 | 307.53 | 1,067.06 | 1,848.70 | 1,798.94 | 49.75 | 37.159 |
| 6,800.00 | 5,551.00 | 6,550.60 | 5,519.00 | 30.14 | 21.54 | -89.01 | 308.00 | 1,143.25 | 1,848.48 | 1,797.61 | 50.87 | 36.338 |
| 6,823.81 | 5,551.00 | 6,574.41 | 5,519.00 | 30.29 | 21.74 | -89.01 | 308.14 | 1,167.06 | 1,848.41 | 1,797.18 | 51.23 | 36.080 |
| 6,900.00 | 5,551.00 | 6,650.60 | 5,519.00 | 30.79 | 22.39 | -89.01 | 308.61 | 1,243.25 | 1,848.19 | 1,795.78 | 52.41 | 35.267 |
| 6,923.81 | 5,551.00 | 6,674.41 | 5,519.00 | 30.95 | 22.60 | -89.01 | 308.76 | 1,267.06 | 1,848.12 | 1,795.34 | 52.79 | 35.012 |
| 7,000.00 | 5,551.00 | 6,750.60 | 5,519.00 | 31.47 | 23.28 | -89.01 | 309.22 | 1,343.25 | 1,847.90 | 1,793.89 | 54.01 | 34.212 |
| 7,023.81 | 5,551.00 | 6,774.41 | 5,519.00 | 31.64 | 23.49 | -89.01 | 309.37 | 1,367.05 | 1,847.83 | 1,793.43 | 54.41 | 33.963 |
| 7,100.00 | 5,551.00 | 6,850.60 | 5,519.00 | 32.19 | 24.20 | -89.01 | 309.84 | 1,443.24 | 1,847.62 | 1,791.93 | 55.68 | 33.181 |
| 7,123.81 | 5,551.00 | 6,874.41 | 5,519.00 | 32.37 | 24.43 | -89.01 | 309.98 | 1,467.05 | 1,847.55 | 1,791.46 | 56.09 | 32.938 |
| 7,200.00 | 5,551.00 | 6,950.60 | 5,519.00 | 32.94 | 25.16 | -89.01 | 310.45 | 1,543.24 | 1,847.33 | 1,789.92 | 57.41 | 32.177 |
| 7,223.81 | 5,551.00 | 6,974.41 | 5,519.00 | 33.12 | 25.39 | -89.01 | 310.60 | 1,567.05 | 1,847.26 | 1,789.43 | 57.83 | 31.941 |
| 7,300.00 | 5,551.00 | 7,050.60 | 5,519.00 | 33.71 | 26.14 | -89.01 | 311.06 | 1,643.24 | 1,847.04 | 1,787.85 | 59.19 | 31.204 |
| 7,323.81 | 5,551.00 | 7,074.40 | 5,519.00 | 33.90 | 26.38 | -89.01 | 311.21 | 1,667.04 | 1,846.97 | 1,787.35 | 59.63 | 30.976 |
| 7,400.00 | 5,551.00 | 7,150.60 | 5,519.00 | 34.52 | 27.15 | -89.01 | 311.68 | 1,743.24 | 1,846.76 | 1,785.73 | 61.02 | 30.264 |
| 7,423.81 | 5,551.00 | 7,174.40 | 5,519.00 | 34.71 | 27.39 | -89.01 | 311.82 | 1,767.04 | 1,846.69 | 1,785.22 | 61.47 | 30.044 |
| 7,500.00 | 5,551.00 | 7,250.60 | 5,519.00 | 35.35 | 28.18 | -89.01 | 312.29 | 1,843.23 | 1,846.47 | 1,783.57 | 62.89 | 29.358 |
| 7,523.80 | 5,551.00 | 7,274.40 | 5,519.00 | 35.55 | 28.43 | -89.01 | 312.44 | 1,867.04 | 1,846.40 | 1,783.05 | 63.35 | 29.147 |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: |
|---|-----------------------|-----------------------|-----------------------|-----------|------------------------|--------------|----------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|
| | | | | | | | | | | | | | 0.00 usft |
| | | | | | | | | | | | | | Offset Well Error: |
| | | | | | | | | | | | | | 0.00 usft |
| Survey Program: | Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Distance | Rule Assigned: | | | | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference | Offset | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
| 7,600.00 | 5,551.00 | 7,350.60 | 5,519.00 | 36.20 | 29.23 | -89.01 | 312.90 | 1,943.23 | 1,846.18 | 1,781.37 | 64.81 | 28.487 | |
| 7,623.80 | 5,551.00 | 7,374.40 | 5,519.00 | 36.41 | 29.48 | -89.01 | 313.05 | 1,967.03 | 1,846.11 | 1,780.84 | 65.27 | 28.284 | |
| 7,700.00 | 5,551.00 | 7,450.60 | 5,519.00 | 37.07 | 30.29 | -89.01 | 313.52 | 2,043.23 | 1,845.89 | 1,779.14 | 66.76 | 27.650 | |
| 7,723.80 | 5,551.00 | 7,474.40 | 5,519.00 | 37.28 | 30.55 | -89.01 | 313.66 | 2,067.03 | 1,845.83 | 1,778.60 | 67.23 | 27.456 | |
| 7,800.00 | 5,551.00 | 7,550.60 | 5,519.00 | 37.97 | 31.37 | -89.01 | 314.13 | 2,143.23 | 1,845.61 | 1,776.86 | 68.74 | 26.848 | |
| 7,823.80 | 5,551.00 | 7,574.40 | 5,519.00 | 38.18 | 31.63 | -89.01 | 314.27 | 2,167.03 | 1,845.54 | 1,776.32 | 69.22 | 26.661 | |
| 7,900.00 | 5,551.00 | 7,650.60 | 5,519.00 | 38.88 | 32.46 | -89.01 | 314.74 | 2,243.22 | 1,845.32 | 1,774.56 | 70.76 | 26.079 | |
| 7,923.80 | 5,551.00 | 7,674.40 | 5,519.00 | 39.10 | 32.73 | -89.01 | 314.89 | 2,267.03 | 1,845.25 | 1,774.01 | 71.24 | 25.900 | |
| 8,000.00 | 5,551.00 | 7,750.60 | 5,519.00 | 39.81 | 33.57 | -89.01 | 315.35 | 2,343.22 | 1,845.03 | 1,772.23 | 72.80 | 25.342 | |
| 8,023.80 | 5,551.00 | 7,774.40 | 5,519.00 | 40.04 | 33.83 | -89.01 | 315.50 | 2,367.02 | 1,844.97 | 1,771.67 | 73.30 | 25.171 | |
| 8,100.00 | 5,551.00 | 7,850.60 | 5,519.00 | 40.76 | 34.68 | -89.01 | 315.97 | 2,443.22 | 1,844.75 | 1,769.87 | 74.88 | 24.638 | |
| 8,123.80 | 5,551.00 | 7,874.40 | 5,519.00 | 40.99 | 34.95 | -89.01 | 316.11 | 2,467.02 | 1,844.68 | 1,769.31 | 75.37 | 24.474 | |
| 8,200.00 | 5,551.00 | 7,950.60 | 5,519.00 | 41.72 | 35.81 | -89.01 | 316.58 | 2,543.22 | 1,844.46 | 1,767.49 | 76.97 | 23.963 | |
| 8,233.80 | 5,551.00 | 7,984.39 | 5,519.00 | 42.05 | 36.19 | -89.01 | 316.79 | 2,577.02 | 1,844.36 | 1,766.68 | 77.69 | 23.741 | |
| 8,300.00 | 5,551.00 | 8,050.59 | 5,519.00 | 42.70 | 36.94 | -89.01 | 317.19 | 2,643.22 | 1,844.17 | 1,765.08 | 79.09 | 23.318 | |
| 8,333.80 | 5,551.00 | 8,084.39 | 5,519.00 | 43.03 | 37.33 | -89.01 | 317.40 | 2,677.01 | 1,844.08 | 1,764.27 | 79.81 | 23.106 | |
| 8,400.00 | 5,551.00 | 8,150.59 | 5,519.00 | 43.69 | 38.08 | -89.01 | 317.81 | 2,743.21 | 1,843.89 | 1,762.66 | 81.23 | 22.700 | |
| 8,433.80 | 5,551.00 | 8,184.39 | 5,519.00 | 44.03 | 38.47 | -89.01 | 318.01 | 2,777.01 | 1,843.79 | 1,761.83 | 81.96 | 22.497 | |
| 8,500.00 | 5,551.00 | 8,250.59 | 5,519.00 | 44.69 | 39.23 | -89.01 | 318.42 | 2,843.21 | 1,843.60 | 1,760.21 | 83.39 | 22.109 | |
| 8,533.80 | 5,551.00 | 8,284.39 | 5,519.00 | 45.04 | 39.62 | -89.01 | 318.63 | 2,877.01 | 1,843.50 | 1,759.38 | 84.12 | 21.915 | |
| 8,600.00 | 5,551.00 | 8,350.59 | 5,519.00 | 45.71 | 40.39 | -89.01 | 319.03 | 2,943.21 | 1,843.31 | 1,757.75 | 85.56 | 21.543 | |
| 8,633.80 | 5,551.00 | 8,384.39 | 5,519.00 | 46.05 | 40.78 | -89.01 | 319.24 | 2,977.01 | 1,843.22 | 1,756.91 | 86.30 | 21.357 | |
| 8,700.00 | 5,551.00 | 8,450.59 | 5,519.00 | 46.73 | 41.55 | -89.01 | 319.65 | 3,043.21 | 1,843.03 | 1,755.27 | 87.76 | 21.002 | |
| 8,733.80 | 5,551.00 | 8,484.39 | 5,519.00 | 47.08 | 41.94 | -89.01 | 319.85 | 3,077.00 | 1,842.93 | 1,754.43 | 88.50 | 20.824 | |
| 8,800.00 | 5,551.00 | 8,550.42 | 5,518.76 | 47.77 | 42.71 | -89.00 | 320.26 | 3,143.03 | 1,842.74 | 1,752.78 | 89.96 | 20.485 | |
| 8,833.61 | 5,551.00 | 8,584.04 | 5,518.58 | 48.12 | 43.10 | -88.99 | 320.46 | 3,176.65 | 1,842.65 | 1,751.95 | 90.70 | 20.315 | |
| 8,900.00 | 5,551.00 | 8,650.42 | 5,518.23 | 48.82 | 43.88 | -88.98 | 320.87 | 3,243.03 | 1,842.46 | 1,750.29 | 92.18 | 19.988 | |
| 8,933.46 | 5,551.00 | 8,683.89 | 5,518.06 | 49.17 | 44.27 | -88.98 | 321.08 | 3,276.49 | 1,842.37 | 1,749.45 | 92.92 | 19.827 | |
| 9,000.00 | 5,551.00 | 8,750.42 | 5,517.71 | 49.87 | 45.05 | -88.96 | 321.48 | 3,343.02 | 1,842.19 | 1,747.78 | 94.41 | 19.513 | |
| 9,033.40 | 5,551.00 | 8,783.82 | 5,517.53 | 50.23 | 45.44 | -88.96 | 321.69 | 3,376.42 | 1,842.09 | 1,746.94 | 95.16 | 19.358 | |
| 9,100.00 | 5,551.00 | 8,850.42 | 5,517.18 | 50.94 | 46.23 | -88.95 | 322.10 | 3,443.02 | 1,841.91 | 1,745.25 | 96.66 | 19.057 | |
| 9,133.34 | 5,551.00 | 8,883.76 | 5,517.01 | 51.29 | 46.62 | -88.94 | 322.30 | 3,476.36 | 1,841.82 | 1,744.41 | 97.41 | 18.908 | |
| 9,200.00 | 5,551.00 | 8,950.42 | 5,516.66 | 52.01 | 47.41 | -88.93 | 322.71 | 3,543.01 | 1,841.63 | 1,742.72 | 98.91 | 18.619 | |
| 9,233.28 | 5,551.00 | 8,983.70 | 5,516.48 | 52.37 | 47.81 | -88.93 | 322.91 | 3,576.29 | 1,841.54 | 1,741.87 | 99.67 | 18.477 | |
| 9,300.00 | 5,551.00 | 9,050.42 | 5,516.13 | 53.09 | 48.60 | -88.92 | 323.32 | 3,643.01 | 1,841.36 | 1,740.18 | 101.18 | 18.199 | |
| 9,333.22 | 5,551.00 | 9,083.64 | 5,515.96 | 53.45 | 48.99 | -88.91 | 323.53 | 3,676.23 | 1,841.26 | 1,739.33 | 101.94 | 18.063 | |
| 9,400.00 | 5,551.00 | 9,150.41 | 5,515.61 | 54.17 | 49.79 | -88.90 | 323.94 | 3,743.00 | 1,841.08 | 1,737.62 | 103.46 | 17.795 | |
| 9,433.16 | 5,551.00 | 9,183.58 | 5,515.44 | 54.54 | 50.18 | -88.89 | 324.14 | 3,776.17 | 1,840.99 | 1,736.77 | 104.22 | 17.665 | |
| 9,500.00 | 5,551.00 | 9,250.41 | 5,515.08 | 55.27 | 50.98 | -88.88 | 324.55 | 3,843.00 | 1,840.80 | 1,735.06 | 105.75 | 17.408 | |
| 9,533.11 | 5,551.00 | 9,283.52 | 5,514.91 | 55.63 | 51.38 | -88.88 | 324.75 | 3,876.11 | 1,840.71 | 1,734.20 | 106.51 | 17.283 | |
| 9,600.00 | 5,551.00 | 9,350.41 | 5,514.56 | 56.37 | 52.18 | -88.87 | 325.16 | 3,942.99 | 1,840.53 | 1,732.48 | 108.04 | 17.035 | |
| 9,633.06 | 5,551.00 | 9,383.46 | 5,514.39 | 56.73 | 52.57 | -88.86 | 325.36 | 3,976.05 | 1,840.43 | 1,731.63 | 108.81 | 16.915 | |
| 9,700.00 | 5,551.00 | 9,450.41 | 5,514.03 | 57.47 | 53.37 | -88.85 | 325.77 | 4,042.99 | 1,840.25 | 1,729.90 | 110.35 | 16.677 | |
| 9,733.00 | 5,551.00 | 9,483.41 | 5,513.86 | 57.84 | 53.77 | -88.84 | 325.98 | 4,075.99 | 1,840.16 | 1,729.05 | 111.11 | 16.561 | |
| 9,800.00 | 5,551.00 | 9,550.41 | 5,513.51 | 58.58 | 54.57 | -88.83 | 326.39 | 4,142.98 | 1,839.97 | 1,727.31 | 112.66 | 16.332 | |
| 9,832.95 | 5,551.00 | 9,583.36 | 5,513.34 | 58.95 | 54.97 | -88.83 | 326.59 | 4,175.94 | 1,839.88 | 1,726.45 | 113.43 | 16.221 | |
| 9,900.00 | 5,551.00 | 9,650.40 | 5,512.98 | 59.70 | 55.78 | -88.82 | 327.00 | 4,242.98 | 1,839.70 | 1,724.71 | 114.98 | 16.000 | |
| 9,932.90 | 5,551.00 | 9,683.31 | 5,512.81 | 60.07 | 56.17 | -88.81 | 327.20 | 4,275.88 | 1,839.61 | 1,723.86 | 115.75 | 15.893 | |
| 10,000.00 | 5,551.00 | 9,750.40 | 5,512.46 | 60.82 | 56.98 | -88.80 | 327.61 | 4,342.97 | 1,839.42 | 1,722.11 | 117.31 | 15.680 | |
| 10,032.86 | 5,551.00 | 9,783.26 | 5,512.29 | 61.19 | 57.38 | -88.79 | 327.82 | 4,375.83 | 1,839.33 | 1,721.25 | 118.08 | 15.577 | |
| 10,100.00 | 5,551.00 | 9,850.40 | 5,511.93 | 61.95 | 58.19 | -88.78 | 328.23 | 4,442.97 | 1,839.14 | 1,719.50 | 119.65 | 15.371 | |
| 10,132.81 | 5,551.00 | 9,883.21 | 5,511.76 | 62.32 | 58.58 | -88.78 | 328.43 | 4,475.78 | 1,839.05 | 1,718.64 | 120.41 | 15.273 | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: |
|---|-----------------------|-----------------------|-----------------------|-----------|------------------------|--------------|----------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|
| | | | | | | | | | | | | | 0.00 usft |
| | | | | | | | | | | | | | Offset Well Error: |
| | | | | | | | | | | | | | 0.00 usft |
| Survey Program: | Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Distance | Rule Assigned: | | | | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference | Offset | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
| 10,200.00 | 5,551.00 | 9,950.40 | 5,511.41 | 63.08 | 59.39 | -88.77 | 328.84 | 4,542.96 | 1,838.87 | 1,716.88 | 121.99 | 15.074 | |
| 10,232.76 | 5,551.00 | 9,983.16 | 5,511.24 | 63.45 | 59.79 | -88.76 | 329.04 | 4,575.72 | 1,838.78 | 1,716.02 | 122.76 | 14.979 | |
| 10,300.00 | 5,551.00 | 10,050.40 | 5,510.88 | 64.21 | 60.60 | -88.75 | 329.45 | 4,642.96 | 1,838.59 | 1,714.26 | 124.33 | 14.787 | |
| 10,332.72 | 5,551.00 | 10,083.11 | 5,510.71 | 64.59 | 61.00 | -88.74 | 329.65 | 4,675.68 | 1,838.50 | 1,713.40 | 125.10 | 14.696 | |
| 10,400.00 | 5,551.00 | 10,150.40 | 5,510.36 | 65.35 | 61.82 | -88.73 | 330.07 | 4,742.95 | 1,838.32 | 1,711.63 | 126.69 | 14.511 | |
| 10,432.67 | 5,551.00 | 10,183.07 | 5,510.19 | 65.73 | 62.21 | -88.73 | 330.27 | 4,775.63 | 1,838.23 | 1,710.77 | 127.46 | 14.422 | |
| 10,498.60 | 5,551.00 | 10,249.00 | 5,509.84 | 66.48 | 63.01 | -88.72 | 330.67 | 4,841.55 | 1,838.05 | 1,709.04 | 129.01 | 14.247 | |
| 10,500.00 | 5,551.00 | 10,250.39 | 5,509.83 | 66.50 | 63.03 | -88.72 | 330.68 | 4,842.95 | 1,838.04 | 1,709.00 | 129.04 | 14.243 | |
| 10,504.75 | 5,550.99 | 10,255.15 | 5,509.81 | 66.55 | 63.09 | -88.72 | 330.71 | 4,847.70 | 1,838.03 | 1,708.87 | 129.16 | 14.231 | |
| 10,527.46 | 5,550.85 | 10,277.85 | 5,509.69 | 66.81 | 63.36 | -88.72 | 330.85 | 4,870.41 | 1,837.96 | 1,708.27 | 129.69 | 14.172 | |
| 10,530.29 | 5,550.83 | 10,280.68 | 5,509.68 | 66.84 | 63.40 | -88.72 | 330.86 | 4,873.24 | 1,837.96 | 1,708.20 | 129.76 | 14.164 | |
| 10,536.34 | 5,550.77 | 10,286.73 | 5,509.64 | 66.91 | 63.47 | -88.72 | 330.90 | 4,879.29 | 1,837.94 | 1,708.04 | 129.90 | 14.149 | |
| 10,600.00 | 5,550.12 | 10,350.39 | 5,509.31 | 67.64 | 64.24 | -88.73 | 331.29 | 4,942.94 | 1,837.75 | 1,706.34 | 131.41 | 13.985 | |
| 10,623.60 | 5,549.89 | 10,373.99 | 5,509.19 | 67.91 | 64.53 | -88.73 | 331.44 | 4,966.54 | 1,837.68 | 1,705.71 | 131.97 | 13.925 | |
| 10,700.00 | 5,549.12 | 10,450.39 | 5,508.78 | 68.79 | 65.46 | -88.74 | 331.90 | 5,042.94 | 1,837.45 | 1,703.67 | 133.78 | 13.735 | |
| 10,733.09 | 5,548.78 | 10,483.48 | 5,508.61 | 69.17 | 65.86 | -88.75 | 332.11 | 5,076.03 | 1,837.35 | 1,702.78 | 134.57 | 13.654 | |
| 10,800.00 | 5,548.11 | 10,550.39 | 5,508.26 | 69.94 | 66.68 | -88.76 | 332.52 | 5,142.93 | 1,837.15 | 1,700.99 | 136.16 | 13.493 | |
| 10,833.13 | 5,547.78 | 10,583.52 | 5,508.09 | 70.33 | 67.08 | -88.76 | 332.72 | 5,176.06 | 1,837.06 | 1,700.11 | 136.95 | 13.414 | |
| 10,900.00 | 5,547.10 | 10,650.39 | 5,507.73 | 71.10 | 67.90 | -88.77 | 333.13 | 5,242.93 | 1,836.86 | 1,698.31 | 138.54 | 13.258 | |
| 10,933.17 | 5,546.77 | 10,683.56 | 5,507.56 | 71.49 | 68.30 | -88.78 | 333.33 | 5,276.10 | 1,836.76 | 1,697.42 | 139.33 | 13.182 | |
| 11,000.00 | 5,546.10 | 10,750.39 | 5,507.21 | 72.26 | 69.11 | -88.79 | 333.74 | 5,342.92 | 1,836.56 | 1,695.63 | 140.93 | 13.032 | |
| 11,033.21 | 5,545.76 | 10,783.60 | 5,507.03 | 72.65 | 69.52 | -88.79 | 333.95 | 5,376.14 | 1,836.46 | 1,694.74 | 141.72 | 12.958 | |
| 11,100.00 | 5,545.09 | 10,850.38 | 5,506.68 | 73.42 | 70.34 | -88.80 | 334.36 | 5,442.92 | 1,836.26 | 1,692.94 | 143.32 | 12.812 | |
| 11,133.26 | 5,544.75 | 10,883.64 | 5,506.51 | 73.81 | 70.74 | -88.81 | 334.56 | 5,476.17 | 1,836.16 | 1,692.05 | 144.12 | 12.741 | |
| 11,200.00 | 5,544.08 | 10,950.38 | 5,506.16 | 74.59 | 71.56 | -88.82 | 334.97 | 5,542.92 | 1,835.97 | 1,690.25 | 145.71 | 12.600 | |
| 11,233.30 | 5,543.75 | 10,983.68 | 5,505.98 | 74.98 | 71.96 | -88.82 | 335.17 | 5,576.21 | 1,835.87 | 1,689.35 | 146.51 | 12.531 | |
| 11,300.00 | 5,543.07 | 11,050.38 | 5,505.63 | 75.76 | 72.78 | -88.83 | 335.58 | 5,642.91 | 1,835.67 | 1,687.56 | 148.11 | 12.394 | |
| 11,333.35 | 5,542.74 | 11,083.73 | 5,505.46 | 76.15 | 73.19 | -88.84 | 335.79 | 5,676.25 | 1,835.57 | 1,686.66 | 148.91 | 12.327 | |
| 11,400.00 | 5,542.07 | 11,150.38 | 5,505.11 | 76.93 | 74.00 | -88.85 | 336.20 | 5,742.91 | 1,835.37 | 1,684.86 | 150.51 | 12.194 | |
| 11,433.39 | 5,541.73 | 11,183.77 | 5,504.93 | 77.32 | 74.41 | -88.85 | 336.40 | 5,776.30 | 1,835.27 | 1,683.96 | 151.31 | 12.129 | |
| 11,500.00 | 5,541.06 | 11,250.38 | 5,504.58 | 78.10 | 75.23 | -88.86 | 336.81 | 5,842.90 | 1,835.08 | 1,682.16 | 152.92 | 12.001 | |
| 11,533.44 | 5,540.72 | 11,283.82 | 5,504.41 | 78.49 | 75.64 | -88.87 | 337.01 | 5,876.34 | 1,834.98 | 1,681.26 | 153.72 | 11.937 | |
| 11,600.00 | 5,540.05 | 11,350.38 | 5,504.06 | 79.28 | 76.45 | -88.88 | 337.42 | 5,942.90 | 1,834.78 | 1,679.46 | 155.32 | 11.813 | |
| 11,633.49 | 5,539.71 | 11,383.86 | 5,503.88 | 79.67 | 76.86 | -88.88 | 337.63 | 5,976.38 | 1,834.68 | 1,678.55 | 156.13 | 11.751 | |
| 11,700.00 | 5,539.04 | 11,450.37 | 5,503.53 | 80.45 | 77.68 | -88.89 | 338.03 | 6,042.89 | 1,834.48 | 1,676.75 | 157.73 | 11.630 | |
| 11,733.54 | 5,538.71 | 11,483.91 | 5,503.36 | 80.85 | 78.09 | -88.90 | 338.24 | 6,076.43 | 1,834.38 | 1,675.84 | 158.54 | 11.570 | |
| 11,800.00 | 5,538.04 | 11,550.37 | 5,503.01 | 81.63 | 78.91 | -88.91 | 338.65 | 6,142.89 | 1,834.19 | 1,674.04 | 160.14 | 11.453 | |
| 11,833.59 | 5,537.70 | 11,583.96 | 5,502.83 | 82.03 | 79.32 | -88.91 | 338.85 | 6,176.47 | 1,834.09 | 1,673.13 | 160.96 | 11.395 | |
| 11,900.00 | 5,537.03 | 11,650.37 | 5,502.48 | 82.82 | 80.13 | -88.92 | 339.26 | 6,242.88 | 1,833.89 | 1,671.33 | 162.56 | 11.281 | |
| 11,933.64 | 5,536.69 | 11,684.01 | 5,502.31 | 83.21 | 80.55 | -88.93 | 339.47 | 6,276.52 | 1,833.79 | 1,670.42 | 163.37 | 11.225 | |
| 12,000.00 | 5,536.02 | 11,750.37 | 5,501.96 | 84.00 | 81.36 | -88.94 | 339.87 | 6,342.88 | 1,833.59 | 1,668.62 | 164.98 | 11.114 | |
| 12,033.70 | 5,535.68 | 11,784.07 | 5,501.78 | 84.40 | 81.78 | -88.94 | 340.08 | 6,376.57 | 1,833.49 | 1,667.70 | 165.79 | 11.059 | |
| 12,100.00 | 5,535.02 | 11,850.37 | 5,501.43 | 85.19 | 82.59 | -88.95 | 340.49 | 6,442.87 | 1,833.30 | 1,665.90 | 167.40 | 10.952 | |
| 12,133.75 | 5,534.68 | 11,884.12 | 5,501.26 | 85.59 | 83.01 | -88.96 | 340.69 | 6,476.62 | 1,833.20 | 1,664.98 | 168.22 | 10.898 | |
| 12,200.00 | 5,534.01 | 11,950.37 | 5,500.91 | 86.37 | 83.82 | -88.97 | 341.10 | 6,542.87 | 1,833.00 | 1,663.18 | 169.82 | 10.794 | |
| 12,233.81 | 5,533.67 | 11,984.18 | 5,500.73 | 86.77 | 84.24 | -88.97 | 341.31 | 6,576.67 | 1,832.90 | 1,662.26 | 170.64 | 10.741 | |
| 12,300.00 | 5,533.00 | 12,050.37 | 5,500.38 | 87.56 | 85.05 | -88.98 | 341.71 | 6,642.86 | 1,832.71 | 1,660.46 | 172.25 | 10.640 | |
| 12,333.87 | 5,532.66 | 12,084.23 | 5,500.21 | 87.96 | 85.47 | -88.99 | 341.92 | 6,676.73 | 1,832.61 | 1,659.54 | 173.07 | 10.589 | |
| 12,400.00 | 5,531.99 | 12,150.36 | 5,499.86 | 88.75 | 86.28 | -89.00 | 342.33 | 6,742.86 | 1,832.41 | 1,657.74 | 174.67 | 10.491 | |
| 12,433.93 | 5,531.65 | 12,184.29 | 5,499.68 | 89.16 | 86.70 | -89.00 | 342.53 | 6,776.78 | 1,832.31 | 1,656.82 | 175.50 | 10.441 | |
| 12,498.70 | 5,531.00 | 12,249.06 | 5,499.34 | 89.93 | 87.50 | -89.01 | 342.93 | 6,841.55 | 1,832.12 | 1,655.05 | 177.07 | 10.347 | |
| 12,500.00 | 5,530.99 | 12,250.36 | 5,499.33 | 89.94 | 87.51 | -89.01 | 342.94 | 6,842.85 | 1,832.12 | 1,655.02 | 177.10 | 10.345 | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.00 usft |
|---|-----------------------|-----------------------|-----------------------|----------------------------------|-------------------------------|-----------------------|------------------------|-------------|---------------------------------|----------|---------------------------|-------------------|------------------------------|
| Survey Program: 0-MWD+IFR1+MS | | | | | | | | | | | | | Offset Well Error: 0.00 usft |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre | | Distance Between Centres (usft) | | Minimum Separation (usft) | Separation Factor | Warning |
| | | | | | | | +N-S (usft) | +E-W (usft) | | | | | |
| 12,504.78 | 5,530.95 | 12,255.15 | 5,499.31 | 90.00 | 87.57 | -89.01 | 342.97 | 6,847.64 | 1,832.10 | 1,654.89 | 177.22 | 10.338 | |
| 12,521.88 | 5,530.86 | 12,272.24 | 5,499.22 | 90.20 | 87.78 | -89.01 | 343.07 | 6,864.73 | 1,832.05 | 1,654.42 | 177.63 | 10.314 | |
| 12,527.66 | 5,530.85 | 12,278.03 | 5,499.19 | 90.27 | 87.85 | -89.01 | 343.11 | 6,870.51 | 1,832.04 | 1,654.27 | 177.77 | 10.306 | |
| 12,536.87 | 5,530.86 | 12,287.23 | 5,499.14 | 90.38 | 87.97 | -89.01 | 343.16 | 6,879.72 | 1,832.01 | 1,654.02 | 177.99 | 10.293 | |
| 12,600.00 | 5,530.86 | 12,350.36 | 5,498.81 | 91.14 | 88.74 | -89.00 | 343.55 | 6,942.85 | 1,831.84 | 1,652.31 | 179.53 | 10.204 | |
| 12,623.91 | 5,530.86 | 12,374.27 | 5,498.68 | 91.42 | 89.04 | -88.99 | 343.70 | 6,966.76 | 1,831.77 | 1,651.66 | 180.11 | 10.171 | |
| 12,700.00 | 5,530.86 | 12,450.36 | 5,498.28 | 92.33 | 89.98 | -88.98 | 344.16 | 7,042.84 | 1,831.56 | 1,649.61 | 181.95 | 10.066 | |
| 12,733.46 | 5,530.86 | 12,483.82 | 5,498.11 | 92.73 | 90.39 | -88.98 | 344.37 | 7,076.30 | 1,831.47 | 1,648.70 | 182.77 | 10.021 | |
| 12,800.00 | 5,530.87 | 12,550.36 | 5,497.76 | 93.53 | 91.21 | -88.96 | 344.78 | 7,142.84 | 1,831.28 | 1,646.90 | 184.38 | 9.932 | |
| 12,833.40 | 5,530.87 | 12,583.75 | 5,497.58 | 93.93 | 91.62 | -88.96 | 344.98 | 7,176.23 | 1,831.19 | 1,646.00 | 185.19 | 9.888 | |
| 12,900.00 | 5,530.87 | 12,650.36 | 5,497.23 | 94.73 | 92.44 | -88.95 | 345.39 | 7,242.83 | 1,831.00 | 1,644.19 | 186.81 | 9.801 | |
| 12,933.33 | 5,530.87 | 12,683.69 | 5,497.06 | 95.13 | 92.85 | -88.94 | 345.59 | 7,276.17 | 1,830.91 | 1,643.29 | 187.62 | 9.758 | |
| 13,000.00 | 5,530.87 | 12,750.35 | 5,496.71 | 95.93 | 93.68 | -88.93 | 346.00 | 7,342.83 | 1,830.73 | 1,641.48 | 189.25 | 9.674 | |
| 13,033.27 | 5,530.87 | 12,783.63 | 5,496.53 | 96.32 | 94.09 | -88.93 | 346.21 | 7,376.10 | 1,830.64 | 1,640.58 | 190.06 | 9.632 | |
| 13,100.00 | 5,530.88 | 12,850.35 | 5,496.18 | 97.13 | 94.91 | -88.91 | 346.62 | 7,442.82 | 1,830.45 | 1,638.77 | 191.68 | 9.549 | |
| 13,133.22 | 5,530.88 | 12,883.57 | 5,496.01 | 97.52 | 95.32 | -88.91 | 346.82 | 7,476.04 | 1,830.36 | 1,637.87 | 192.49 | 9.509 | |
| 13,200.00 | 5,530.88 | 12,950.35 | 5,495.66 | 98.33 | 96.14 | -88.90 | 347.23 | 7,542.82 | 1,830.17 | 1,636.06 | 194.12 | 9.428 | |
| 13,233.16 | 5,530.88 | 12,983.51 | 5,495.48 | 98.73 | 96.55 | -88.89 | 347.43 | 7,575.97 | 1,830.08 | 1,635.16 | 194.92 | 9.389 | |
| 13,300.00 | 5,530.88 | 13,050.35 | 5,495.13 | 99.53 | 97.38 | -88.88 | 347.84 | 7,642.81 | 1,829.90 | 1,633.34 | 196.55 | 9.310 | |
| 13,333.10 | 5,530.89 | 13,083.45 | 5,494.96 | 99.93 | 97.79 | -88.88 | 348.05 | 7,675.91 | 1,829.81 | 1,632.44 | 197.36 | 9.271 | |
| 13,400.00 | 5,530.89 | 13,150.35 | 5,494.61 | 100.73 | 98.61 | -88.86 | 348.46 | 7,742.81 | 1,829.62 | 1,630.63 | 198.99 | 9.194 | |
| 13,433.05 | 5,530.89 | 13,183.39 | 5,494.44 | 101.13 | 99.02 | -88.86 | 348.66 | 7,775.85 | 1,829.53 | 1,629.73 | 199.80 | 9.157 | |
| 13,500.00 | 5,530.89 | 13,250.34 | 5,494.08 | 101.94 | 99.85 | -88.85 | 349.07 | 7,842.80 | 1,829.34 | 1,627.91 | 201.43 | 9.082 | |
| 13,533.00 | 5,530.89 | 13,283.34 | 5,493.91 | 102.34 | 100.26 | -88.84 | 349.27 | 7,875.80 | 1,829.25 | 1,627.01 | 202.24 | 9.045 | |
| 13,600.00 | 5,530.90 | 13,350.34 | 5,493.56 | 103.15 | 101.09 | -88.83 | 349.68 | 7,942.80 | 1,829.07 | 1,625.19 | 203.87 | 8.972 | |
| 13,632.94 | 5,530.90 | 13,383.29 | 5,493.39 | 103.54 | 101.49 | -88.82 | 349.88 | 7,975.74 | 1,828.98 | 1,624.30 | 204.68 | 8.936 | |
| 13,700.00 | 5,530.90 | 13,450.34 | 5,493.03 | 104.35 | 102.32 | -88.81 | 350.29 | 8,042.79 | 1,828.79 | 1,622.47 | 206.32 | 8.864 | |
| 13,732.89 | 5,530.90 | 13,483.23 | 5,492.86 | 104.75 | 102.73 | -88.81 | 350.50 | 8,075.68 | 1,828.70 | 1,621.58 | 207.12 | 8.829 | |
| 13,800.00 | 5,530.90 | 13,550.34 | 5,492.51 | 105.56 | 103.56 | -88.80 | 350.91 | 8,142.79 | 1,828.52 | 1,619.75 | 208.76 | 8.759 | |
| 13,832.85 | 5,530.90 | 13,583.18 | 5,492.34 | 105.96 | 103.96 | -88.79 | 351.11 | 8,175.63 | 1,828.43 | 1,618.86 | 209.57 | 8.725 | |
| 13,900.00 | 5,530.91 | 13,650.34 | 5,491.98 | 106.77 | 104.79 | -88.78 | 351.52 | 8,242.78 | 1,828.24 | 1,617.03 | 211.21 | 8.656 | |
| 13,932.80 | 5,530.91 | 13,683.14 | 5,491.81 | 107.17 | 105.20 | -88.77 | 351.72 | 8,275.58 | 1,828.15 | 1,616.14 | 212.01 | 8.623 | |
| 14,000.00 | 5,530.91 | 13,750.34 | 5,491.46 | 107.98 | 106.03 | -88.76 | 352.13 | 8,342.78 | 1,827.96 | 1,614.31 | 213.65 | 8.556 | |
| 14,032.75 | 5,530.91 | 13,783.09 | 5,491.29 | 108.38 | 106.44 | -88.76 | 352.33 | 8,375.53 | 1,827.87 | 1,613.42 | 214.46 | 8.523 | |
| 14,100.00 | 5,530.91 | 13,850.33 | 5,490.93 | 109.19 | 107.27 | -88.75 | 352.75 | 8,442.77 | 1,827.69 | 1,611.59 | 216.10 | 8.458 | |
| 14,132.71 | 5,530.92 | 13,883.04 | 5,490.76 | 109.59 | 107.67 | -88.74 | 352.95 | 8,475.48 | 1,827.60 | 1,610.70 | 216.90 | 8.426 | |
| 14,200.00 | 5,530.92 | 13,950.33 | 5,490.41 | 110.40 | 108.51 | -88.73 | 353.36 | 8,542.77 | 1,827.41 | 1,608.86 | 218.55 | 8.362 | |
| 14,232.66 | 5,530.92 | 13,982.99 | 5,490.24 | 110.80 | 108.91 | -88.72 | 353.56 | 8,575.43 | 1,827.32 | 1,607.97 | 219.35 | 8.331 | |
| 14,300.00 | 5,530.92 | 14,050.33 | 5,489.88 | 111.62 | 109.75 | -88.71 | 353.97 | 8,642.76 | 1,827.14 | 1,606.14 | 221.00 | 8.268 | |
| 14,332.62 | 5,530.92 | 14,082.95 | 5,489.71 | 112.01 | 110.15 | -88.71 | 354.17 | 8,675.38 | 1,827.05 | 1,605.25 | 221.80 | 8.237 | |
| 14,400.00 | 5,530.93 | 14,150.33 | 5,489.36 | 112.83 | 110.98 | -88.70 | 354.59 | 8,742.76 | 1,826.86 | 1,603.41 | 223.45 | 8.176 | |
| 14,432.58 | 5,530.93 | 14,182.91 | 5,489.19 | 113.22 | 111.39 | -88.69 | 354.79 | 8,775.33 | 1,826.77 | 1,602.52 | 224.25 | 8.146 | |
| 14,500.00 | 5,530.93 | 14,250.33 | 5,488.83 | 114.04 | 112.22 | -88.68 | 355.20 | 8,842.75 | 1,826.59 | 1,600.69 | 225.90 | 8.086 | |
| 14,532.54 | 5,530.93 | 14,282.86 | 5,488.66 | 114.44 | 112.63 | -88.67 | 355.40 | 8,875.29 | 1,826.50 | 1,599.80 | 226.70 | 8.057 | |
| 14,600.00 | 5,530.93 | 14,350.32 | 5,488.31 | 115.26 | 113.46 | -88.66 | 355.81 | 8,942.75 | 1,826.31 | 1,597.96 | 228.36 | 7.998 | |
| 14,632.50 | 5,530.93 | 14,382.82 | 5,488.14 | 115.65 | 113.86 | -88.66 | 356.01 | 8,975.24 | 1,826.23 | 1,597.07 | 229.15 | 7.969 | |
| 14,700.00 | 5,530.94 | 14,450.32 | 5,487.78 | 116.47 | 114.70 | -88.65 | 356.42 | 9,042.74 | 1,826.04 | 1,595.23 | 230.81 | 7.911 | |
| 14,732.46 | 5,530.94 | 14,482.78 | 5,487.61 | 116.87 | 115.10 | -88.64 | 356.62 | 9,075.20 | 1,825.95 | 1,594.34 | 231.61 | 7.884 | |
| 14,800.00 | 5,530.94 | 14,550.32 | 5,487.26 | 117.69 | 115.94 | -88.63 | 357.04 | 9,142.74 | 1,825.77 | 1,592.50 | 233.26 | 7.827 | |
| 14,832.42 | 5,530.94 | 14,582.74 | 5,487.09 | 118.08 | 116.34 | -88.62 | 357.24 | 9,175.16 | 1,825.68 | 1,591.62 | 234.06 | 7.800 | |
| 14,900.00 | 5,530.94 | 14,650.32 | 5,486.73 | 118.91 | 117.18 | -88.61 | 357.65 | 9,242.73 | 1,825.49 | 1,589.77 | 235.72 | 7.744 | |
| 14,932.38 | 5,530.95 | 14,682.70 | 5,486.56 | 119.30 | 117.58 | -88.61 | 357.85 | 9,275.11 | 1,825.40 | 1,588.89 | 236.52 | 7.718 | |

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

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| | | | | | | | | | | | | | |
|--|------------------------------|------------------------------|------------------------------|-------------------------------|-----------------|-----------------------|---------------------|---------------------|-------------------------------|--------------------------------|----------------------------------|---------------------------|----------------|
| Offset Design: Tatanka Pads - Tatanka Federal LD13-645 - OH - Plan #1 | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
| Survey Program: 0-MWD+IFR1+MS | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Distance | Rule Assigned: | | | | | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference | Offset | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
| 15,000.00 | 5,530.95 | 14,750.32 | 5,486.21 | 120.12 | 118.42 | -88.60 | 358.26 | 9,342.73 | 1,825.22 | 1,587.04 | 238.18 | 7.663 | |
| 15,032.35 | 5,530.95 | 14,782.67 | 5,486.04 | 120.52 | 118.82 | -88.59 | 358.46 | 9,375.07 | 1,825.13 | 1,586.16 | 238.97 | 7.637 | |
| 15,100.00 | 5,530.95 | 14,850.32 | 5,485.68 | 121.34 | 119.66 | -88.58 | 358.88 | 9,442.72 | 1,824.94 | 1,584.31 | 240.63 | 7.584 | |
| 15,132.31 | 5,530.95 | 14,882.63 | 5,485.51 | 121.74 | 120.06 | -88.57 | 359.07 | 9,475.03 | 1,824.86 | 1,583.43 | 241.43 | 7.559 | |
| 15,200.00 | 5,530.96 | 14,950.31 | 5,485.16 | 122.56 | 120.90 | -88.56 | 359.49 | 9,542.72 | 1,824.67 | 1,581.58 | 243.09 | 7.506 | |
| 15,232.28 | 5,530.96 | 14,982.59 | 5,484.99 | 122.96 | 121.30 | -88.56 | 359.69 | 9,574.99 | 1,824.58 | 1,580.70 | 243.88 | 7.481 | |
| 15,300.00 | 5,530.96 | 15,050.31 | 5,484.63 | 123.78 | 122.14 | -88.54 | 360.10 | 9,642.71 | 1,824.40 | 1,578.85 | 245.55 | 7.430 | |
| 15,332.24 | 5,530.96 | 15,082.56 | 5,484.46 | 124.18 | 122.54 | -88.54 | 360.30 | 9,674.95 | 1,824.31 | 1,577.97 | 246.34 | 7.406 | |
| 15,400.00 | 5,530.96 | 15,150.31 | 5,484.11 | 125.00 | 123.38 | -88.53 | 360.72 | 9,742.71 | 1,824.12 | 1,576.11 | 248.01 | 7.355 | |
| 15,432.21 | 5,530.96 | 15,182.52 | 5,483.94 | 125.40 | 123.78 | -88.52 | 360.91 | 9,774.92 | 1,824.04 | 1,575.23 | 248.80 | 7.331 | |
| 15,500.00 | 5,530.97 | 15,250.31 | 5,483.58 | 126.22 | 124.62 | -88.51 | 361.33 | 9,842.70 | 1,823.85 | 1,573.38 | 250.47 | 7.282 | |
| 15,532.18 | 5,530.97 | 15,282.49 | 5,483.41 | 126.62 | 125.02 | -88.51 | 361.53 | 9,874.88 | 1,823.76 | 1,572.50 | 251.26 | 7.258 | |
| 15,600.00 | 5,530.97 | 15,350.31 | 5,483.06 | 127.44 | 125.86 | -88.49 | 361.94 | 9,942.70 | 1,823.58 | 1,570.65 | 252.93 | 7.210 | |
| 15,632.15 | 5,530.97 | 15,382.45 | 5,482.89 | 127.84 | 126.26 | -88.49 | 362.14 | 9,974.84 | 1,823.49 | 1,569.77 | 253.72 | 7.187 | |
| 15,700.00 | 5,530.97 | 15,450.30 | 5,482.53 | 128.67 | 127.10 | -88.48 | 362.55 | 10,042.69 | 1,823.30 | 1,567.91 | 255.39 | 7.139 | |
| 15,732.12 | 5,530.98 | 15,482.42 | 5,482.37 | 129.06 | 127.50 | -88.47 | 362.75 | 10,074.81 | 1,823.22 | 1,567.03 | 256.18 | 7.117 | |
| 15,800.00 | 5,530.98 | 15,550.30 | 5,482.01 | 129.89 | 128.34 | -88.46 | 363.17 | 10,142.69 | 1,823.03 | 1,565.18 | 257.85 | 7.070 | |
| 15,832.09 | 5,530.98 | 15,582.39 | 5,481.84 | 130.28 | 128.74 | -88.46 | 363.36 | 10,174.77 | 1,822.94 | 1,564.30 | 258.64 | 7.048 | |
| 15,900.00 | 5,530.98 | 15,650.30 | 5,481.48 | 131.11 | 129.58 | -88.44 | 363.78 | 10,242.68 | 1,822.76 | 1,562.44 | 260.32 | 7.002 | |
| 15,932.06 | 5,530.98 | 15,682.36 | 5,481.32 | 131.50 | 129.98 | -88.44 | 363.98 | 10,274.73 | 1,822.67 | 1,561.57 | 261.11 | 6.981 | |
| 16,000.00 | 5,530.99 | 15,750.30 | 5,480.96 | 132.33 | 130.83 | -88.43 | 364.39 | 10,342.68 | 1,822.49 | 1,559.71 | 262.78 | 6.935 | |
| 16,032.03 | 5,530.99 | 15,782.33 | 5,480.79 | 132.73 | 131.22 | -88.42 | 364.59 | 10,374.70 | 1,822.40 | 1,558.83 | 263.57 | 6.914 | |
| 16,100.00 | 5,530.99 | 15,850.30 | 5,480.43 | 133.56 | 132.07 | -88.41 | 365.01 | 10,442.67 | 1,822.21 | 1,556.97 | 265.24 | 6.870 | |
| 16,132.00 | 5,530.99 | 15,882.29 | 5,480.27 | 133.95 | 132.47 | -88.40 | 365.20 | 10,474.67 | 1,822.13 | 1,556.10 | 266.03 | 6.849 | |
| 16,200.00 | 5,530.99 | 15,950.30 | 5,479.91 | 134.78 | 133.31 | -88.39 | 365.62 | 10,542.67 | 1,821.94 | 1,554.23 | 267.71 | 6.806 | |
| 16,231.97 | 5,530.99 | 15,982.27 | 5,479.74 | 135.17 | 133.71 | -88.39 | 365.82 | 10,574.63 | 1,821.86 | 1,553.36 | 268.50 | 6.785 | |
| 16,300.00 | 5,531.00 | 16,050.29 | 5,479.38 | 136.01 | 134.55 | -88.38 | 366.23 | 10,642.66 | 1,821.67 | 1,551.50 | 270.17 | 6.743 | |
| 16,331.94 | 5,531.00 | 16,082.24 | 5,479.22 | 136.40 | 134.95 | -88.37 | 366.43 | 10,674.60 | 1,821.58 | 1,550.62 | 270.96 | 6.723 | |
| 16,377.99 | 5,531.00 | 16,123.37 | 5,479.00 | 136.96 | 135.46 | -88.36 | 366.68 | 10,715.73 | 1,821.46 | 1,549.44 | 272.02 | 6.696 | |
| 16,388.76 | 5,531.00 | 16,123.37 | 5,479.00 | 137.09 | 135.46 | -88.36 | 366.68 | 10,715.73 | 1,821.50 | 1,549.38 | 272.12 | 6.694 SF | |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design: Tatanka Pads - Tatanka LD13-650 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|---|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|--------------|-------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Offset Wellbore Centre | | Rule Assigned: Distance | | | | Offset Well Error: | 0.00 usft |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning | |
| 0.00 | 0.00 | 19.00 | 19.00 | 0.00 | 0.17 | -1.03 | 1,954.28 | -35.19 | 1,954.60 | | | | | |
| 100.00 | 100.00 | 119.00 | 119.00 | 0.88 | 1.00 | -1.03 | 1,954.28 | -35.19 | 1,954.60 | 1,952.71 | 1.89 | 1,036.832 | | |
| 200.00 | 200.00 | 219.00 | 219.00 | 1.50 | 1.58 | -1.03 | 1,954.28 | -35.19 | 1,954.60 | 1,951.51 | 3.09 | 633.298 | | |
| 300.00 | 300.00 | 319.00 | 319.00 | 1.94 | 2.00 | -1.03 | 1,954.28 | -35.19 | 1,954.60 | 1,950.66 | 3.94 | 496.389 | | |
| 400.00 | 400.00 | 419.00 | 419.00 | 2.29 | 2.35 | -1.03 | 1,954.28 | -35.19 | 1,954.60 | 1,949.96 | 4.64 | 421.277 | | |
| 500.00 | 500.00 | 557.12 | 557.12 | 2.60 | 2.85 | -1.03 | 1,953.72 | -35.29 | 1,954.41 | 1,948.96 | 5.45 | 358.786 | | |
| 600.00 | 599.98 | 856.55 | 855.63 | 3.04 | 4.07 | 172.22 | 1,932.52 | -39.39 | 1,949.07 | 1,942.01 | 7.06 | 276.067 | | |
| 700.00 | 699.84 | 1,085.84 | 1,081.71 | 3.44 | 5.05 | 172.06 | 1,895.40 | -46.58 | 1,937.18 | 1,928.79 | 8.38 | 231.041 | | |
| 800.00 | 799.45 | 1,219.62 | 1,212.59 | 3.84 | 5.53 | 171.96 | 1,868.22 | -51.84 | 1,925.25 | 1,916.01 | 9.24 | 208.351 | | |
| 900.00 | 898.70 | 1,319.21 | 1,309.97 | 4.25 | 5.89 | 171.90 | 1,847.74 | -55.80 | 1,916.74 | 1,906.73 | 10.01 | 191.477 | | |
| 1,000.00 | 997.47 | 1,419.05 | 1,407.60 | 4.67 | 6.27 | 171.85 | 1,827.21 | -59.77 | 1,911.68 | 1,900.87 | 10.81 | 176.850 | | |
| 1,100.00 | 1,095.62 | 1,519.02 | 1,505.35 | 5.09 | 6.66 | 171.80 | 1,806.65 | -63.75 | 1,910.08 | 1,898.44 | 11.64 | 164.140 CC | | |
| 1,100.01 | 1,095.63 | 1,519.03 | 1,505.36 | 5.09 | 6.66 | 171.80 | 1,806.65 | -63.75 | 1,910.08 | 1,898.44 | 11.64 | 164.139 ES | | |
| 1,200.00 | 1,193.06 | 1,618.99 | 1,603.10 | 5.53 | 7.06 | 171.75 | 1,786.10 | -67.72 | 1,911.93 | 1,899.44 | 12.49 | 153.081 | | |
| 1,300.00 | 1,289.64 | 1,718.84 | 1,700.74 | 5.98 | 7.47 | 171.71 | 1,765.56 | -71.70 | 1,917.24 | 1,903.87 | 13.37 | 143.447 | | |
| 1,400.00 | 1,385.27 | 1,818.45 | 1,798.14 | 6.43 | 7.88 | 171.68 | 1,745.08 | -75.66 | 1,925.99 | 1,911.73 | 14.26 | 135.046 | | |
| 1,442.89 | 1,425.96 | 1,861.07 | 1,839.81 | 6.58 | 8.06 | 171.67 | 1,736.32 | -77.36 | 1,930.80 | 1,916.20 | 14.60 | 132.288 | | |
| 1,500.00 | 1,480.00 | 1,917.77 | 1,895.25 | 6.78 | 8.30 | 171.67 | 1,724.66 | -79.61 | 1,937.62 | 1,922.57 | 15.05 | 128.743 | | |
| 1,600.00 | 1,574.64 | 2,017.05 | 1,992.34 | 7.20 | 8.73 | 171.67 | 1,704.24 | -83.56 | 1,949.56 | 1,933.64 | 15.92 | 122.495 | | |
| 1,700.00 | 1,669.27 | 2,116.34 | 2,089.42 | 7.62 | 9.16 | 171.68 | 1,683.82 | -87.51 | 1,961.50 | 1,944.70 | 16.80 | 116.770 | | |
| 1,800.00 | 1,763.90 | 2,215.62 | 2,186.50 | 8.06 | 9.59 | 171.68 | 1,663.40 | -91.46 | 1,973.44 | 1,955.75 | 17.70 | 111.525 | | |
| 1,900.00 | 1,858.53 | 2,314.91 | 2,283.58 | 8.50 | 10.03 | 171.69 | 1,642.99 | -95.41 | 1,985.39 | 1,966.78 | 18.60 | 106.715 | | |
| 2,000.00 | 1,953.16 | 2,414.19 | 2,380.66 | 8.95 | 10.47 | 171.69 | 1,622.57 | -99.36 | 1,997.33 | 1,977.81 | 19.52 | 102.298 | | |
| 15,400.00 | 5,530.96 | 15,308.62 | 5,547.96 | 125.00 | 124.80 | -89.95 | 1,015.50 | 9,738.15 | 2,478.32 | 2,228.74 | 249.58 | 9.930 | | |
| 15,500.00 | 5,530.97 | 15,408.62 | 5,547.97 | 126.22 | 126.02 | -89.95 | 1,016.15 | 9,838.14 | 2,478.07 | 2,226.04 | 252.03 | 9.832 | | |
| 15,600.00 | 5,530.97 | 15,508.61 | 5,547.97 | 127.44 | 127.25 | -89.95 | 1,016.79 | 9,938.14 | 2,477.81 | 2,223.33 | 254.48 | 9.737 | | |
| 15,700.00 | 5,530.97 | 15,608.61 | 5,547.97 | 128.67 | 128.48 | -89.95 | 1,017.44 | 10,038.14 | 2,477.56 | 2,220.63 | 256.93 | 9.643 | | |
| 15,800.00 | 5,530.98 | 15,708.61 | 5,547.98 | 129.89 | 129.71 | -89.95 | 1,018.08 | 10,138.14 | 2,477.30 | 2,217.92 | 259.38 | 9.551 | | |
| 15,900.00 | 5,530.98 | 15,808.61 | 5,547.98 | 131.11 | 130.94 | -89.95 | 1,018.73 | 10,238.13 | 2,477.05 | 2,215.21 | 261.84 | 9.460 | | |
| 16,000.00 | 5,530.99 | 15,908.61 | 5,547.99 | 132.33 | 132.16 | -89.95 | 1,019.37 | 10,338.13 | 2,476.79 | 2,212.50 | 264.29 | 9.371 | | |
| 16,100.00 | 5,530.99 | 16,008.61 | 5,547.99 | 133.56 | 133.39 | -89.95 | 1,020.02 | 10,438.13 | 2,476.54 | 2,209.79 | 266.75 | 9.284 | | |
| 16,200.00 | 5,530.99 | 16,108.61 | 5,547.99 | 134.78 | 134.62 | -89.95 | 1,020.66 | 10,538.13 | 2,476.28 | 2,207.08 | 269.20 | 9.199 | | |
| 16,300.00 | 5,531.00 | 16,208.61 | 5,548.00 | 136.01 | 135.85 | -89.95 | 1,021.31 | 10,638.12 | 2,476.03 | 2,204.37 | 271.66 | 9.114 | | |
| 16,374.20 | 5,531.00 | 16,276.52 | 5,548.00 | 136.92 | 136.69 | -89.95 | 1,021.74 | 10,706.03 | 2,475.85 | 2,202.47 | 273.38 | 9.056 | | |
| 16,388.76 | 5,531.00 | 16,276.52 | 5,548.00 | 137.09 | 136.69 | -89.95 | 1,021.74 | 10,706.03 | 2,475.89 | 2,202.40 | 273.49 | 9.053 SF | | |



Altitude Energy Partners

Anticollision Report



| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

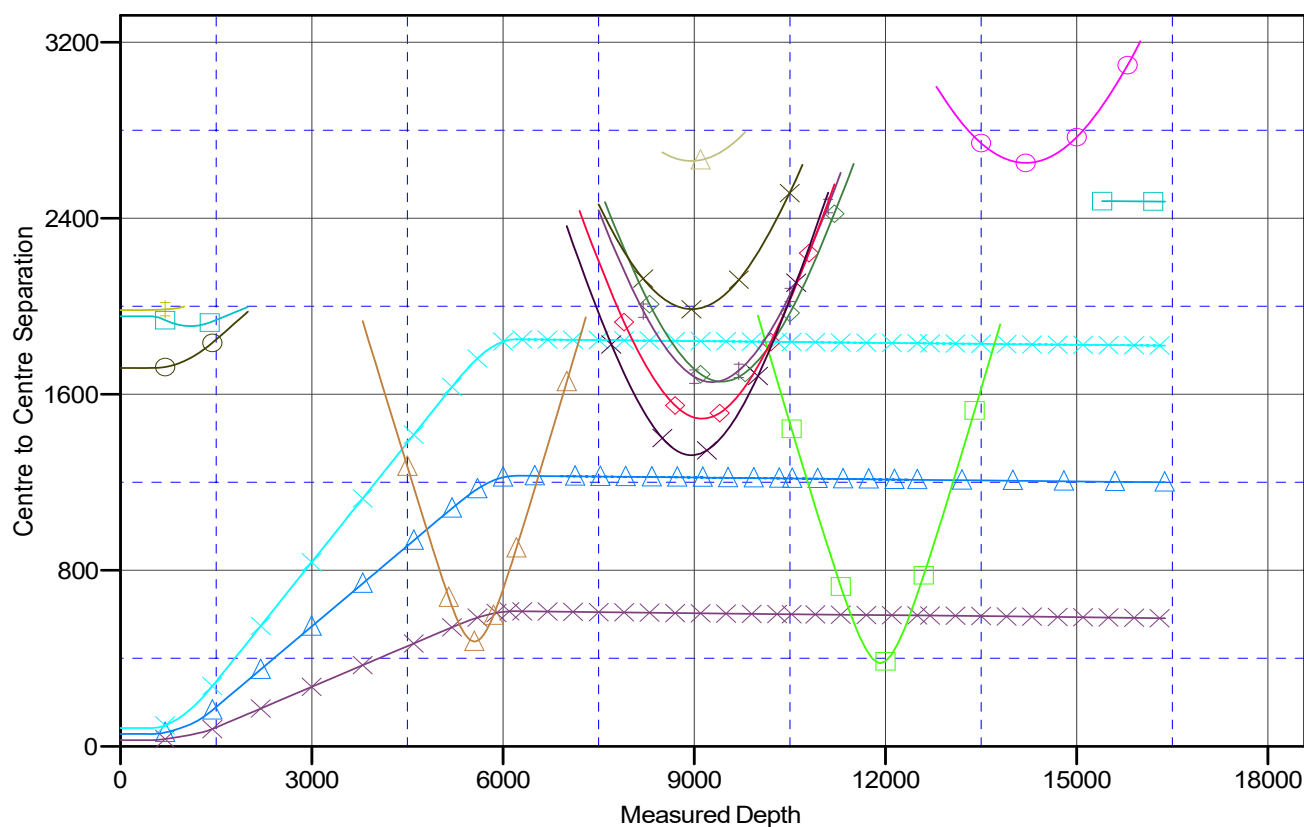
| | | | | | | | | | | | | | | |
|--|------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------|---------------------|---------------------|---------------------|-------------------------------|--------------------------------|----------------------------------|--------------------------|---------------------------|-----------|
| Offset Design: Tatanka Pads - Tatanka LD13-660 - OH - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
| Survey Program: 0-MWD+IFR1+MS | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | Offset | Semi Major Axis | Highside | Offset Wellbore Centre | Rule Assigned: | | | Warning | | | | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | | |
| 0.00 | 0.00 | 19.00 | 19.00 | 0.00 | 0.17 | -1.03 | 1,982.33 | -35.74 | 1,982.66 | | | | | |
| 100.00 | 100.00 | 119.00 | 119.00 | 0.88 | 1.00 | -1.03 | 1,982.33 | -35.74 | 1,982.66 | 1,980.77 | 1.89 | 1,051.717 | | |
| 200.00 | 200.00 | 219.00 | 219.00 | 1.50 | 1.58 | -1.03 | 1,982.33 | -35.74 | 1,982.66 | 1,979.57 | 3.09 | 642.389 | | |
| 300.00 | 300.00 | 319.00 | 319.00 | 1.94 | 2.00 | -1.03 | 1,982.33 | -35.74 | 1,982.66 | 1,978.72 | 3.94 | 503.515 | | |
| 400.00 | 400.00 | 419.00 | 419.00 | 2.29 | 2.35 | -1.03 | 1,982.33 | -35.74 | 1,982.66 | 1,978.02 | 4.64 | 427.324 | | |
| 500.00 | 500.00 | 519.00 | 519.00 | 2.60 | 2.65 | -1.03 | 1,982.33 | -35.74 | 1,982.66 | 1,977.40 | 5.25 | 377.408 CC, ES | | |
| 600.00 | 599.98 | 635.18 | 635.18 | 3.04 | 2.98 | 172.32 | 1,982.19 | -35.81 | 1,984.31 | 1,978.29 | 6.02 | 329.608 | | |
| 700.00 | 699.84 | 820.55 | 820.42 | 3.44 | 3.55 | 172.27 | 1,976.64 | -38.59 | 1,986.53 | 1,979.58 | 6.95 | 285.994 | | |
| 800.00 | 799.45 | 987.02 | 986.36 | 3.84 | 3.97 | 172.14 | 1,964.87 | -44.47 | 1,988.02 | 1,980.31 | 7.71 | 257.757 | | |
| 900.00 | 898.70 | 1,086.91 | 1,085.80 | 4.25 | 4.25 | 172.05 | 1,956.34 | -48.73 | 1,991.67 | 1,983.29 | 8.38 | 237.675 | | |
| 1,000.00 | 997.47 | 1,186.63 | 1,185.06 | 4.67 | 4.56 | 171.97 | 1,947.84 | -52.98 | 1,998.77 | 1,989.68 | 9.09 | 219.992 SF | | |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to KB=23' @ 4684.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: Tatanka Federal LD13-615
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 1.07°

Ladder Plot



LEGEND

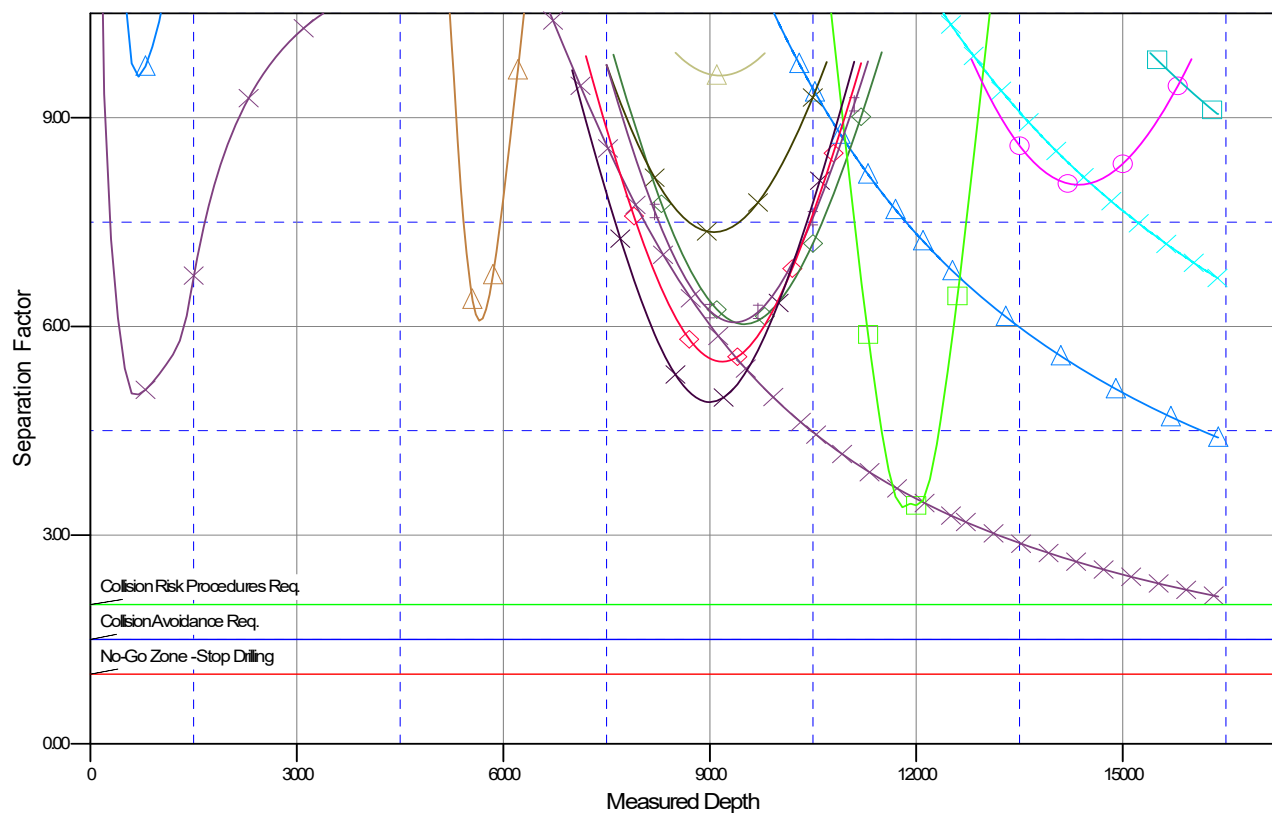
| | | |
|--|-------------------------------------|---------------------------------|
| Tatanka Federal LD13-625, OH, Plan #1 V0 | Zmih #1 (D&A), OH, OH V0 | Rauth #G (D&A), OH, OH V0 |
| Tatanka Federal LD13-635, OH, Plan #1 V0 | Alice Nay #2 (D&A), OH, OH V0 | Alice Nay #1 (D&A), OH, OH V0 |
| Tatanka LD13-660, OH, Plan #1 V0 | Alice Nay 1 (D&A), OH, OH V0 | Modermott #14 (P&A), OH, OH V0 |
| Tatanka LD13-690, OH, Plan #1 V0 | Castor Federal LD15-72HN, OH, OH V0 | Alice G Nay #1 (P&A), OH, OH V0 |
| Tatanka Federal LD13-645, OH, Plan #1 V0 | Castor Federal LD13-78HN, OH, OH V0 | Nay (OWP) #1 (D&A), OH, OH V0 |

| | | | |
|---------------------------|--------------------------|-------------------------------------|-------------------------------|
| Company: | Bison Oil & Gas II, LLC | Local Co-ordinate Reference: | Well Tatanka Federal LD13-615 |
| Project: | Weld Co., CO (NAD-83) | TVD Reference: | KB=23' @ 4684.00usft |
| Reference Site: | Tatanka Pads | MD Reference: | KB=23' @ 4684.00usft |
| Site Error: | 0.00 usft | North Reference: | True |
| Reference Well: | Tatanka Federal LD13-615 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.00 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OH | Database: | EDM 5000.1 Single User Db |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to KB=23' @ 4684.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: Tatanka Federal LD13-615
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 1.07°

Separation Factor Plot



LEGEND

| | | |
|--|-------------------------------------|---------------------------------|
| Tatanka Federal LD13-625, OH, Plan #1 V0 | Zmih #1 (D&A), OH, OH V0 | Rauth #G (D&A), OH, OH V0 |
| Tatanka Federal LD13-635, OH, Plan #1 V0 | Alice Nay #2 (D&A), OH, OH V0 | Alice Nay #1 (D&A), OH, OH V0 |
| Tatanka LD13-660, OH, Plan #1 V0 | Alice Nay 1 (D&A), OH, OH V0 | Modemott #14 (P&A), OH, OH V0 |
| Tatanka LD13-690, OH, Plan #1 V0 | Castor Federal LD15-72HN, OH, OH V0 | Alice G Nay #1 (P&A), OH, OH V0 |
| Tatanka Federal LD13-645, OH, Plan #1 V0 | Castor Federal LD13-78HN, OH, OH V0 | Nay (OWP) #1 (D&A), OH, OH V0 |