

Verdad Oil & Gas Corporation

Well Name: **Young 01N-65W-28-6N**

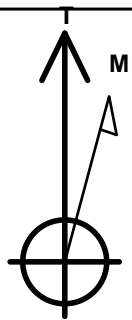
Surface Location: Young 01N-65W-28 Pad Sec.28-T1N-R65W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 5072.0

| | | | | | | |
|---------------------------------------------------------|-------|------------|------------|-----------|-------------|------|
| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
| 0.0 | 0.0 | 1254520.95 | 3234035.27 | 40.029020 | -104.664250 | |
| Original Well Elev WELL @ 5085.0ft (Original Well Elev) | | | | | | |

WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|------------------------|--------|---------|-------|-------|
| SHL 230'FNL & 1305'FEL | 1.0 | 0.0 | 0.0 | Point |
| BHL 460'FSL & 1225'FEL | 7245.0 | -4601.0 | 56.0 | Point |



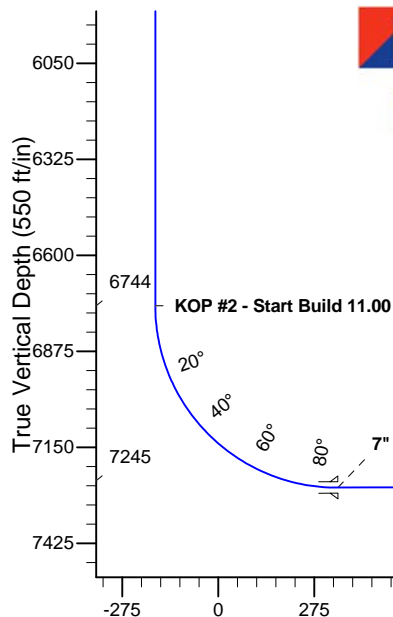
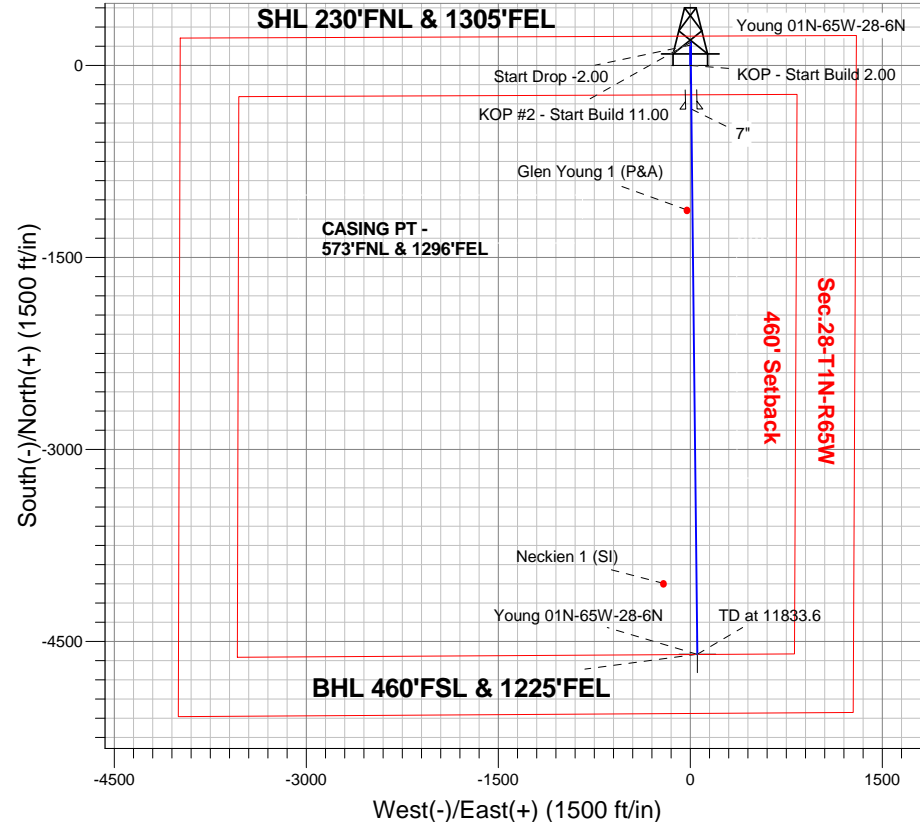
Azimuths to True North
Magnetic North: 8.35°

Magnetic Field
Strength: 52606.1nT
Dip Angle: 66.66°
Date: 9/2/2014
Model: IGRF2010

Young 01N-65W-28 Pad Sec.28-T1N-R65W
Young 01N-65W-28-6N
Plan #1 (9-2-14)

ANNOTATIONS

| TVD | MD | Annotation |
|--------|---------|----------------------------|
| 2500.0 | 2500.0 | KOP - Start Build 2.00 |
| 3944.4 | 3953.8 | Start Drop -2.00 |
| 6744.2 | 6754.5 | KOP #2 - Start Build 11.00 |
| 7245.0 | 11833.6 | TD at 11833.6 |



ENSIGN
Directional

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|---------|-------|--------|--------|---------|-------|-------|--------|--------|------------------------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 2500.0 | 0.00 | 0.00 | 2500.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 2856.5 | 7.13 | 0.95 | 2855.6 | 22.2 | 0.4 | 2.00 | 0.95 | -22.1 | |
| 4 | 3953.8 | 7.13 | 0.95 | 3944.4 | 158.3 | 2.6 | 0.00 | 0.00 | -158.3 | |
| 5 | 4310.3 | 0.00 | 0.00 | 4300.0 | 180.5 | 3.0 | 2.00 | 180.00 | -180.5 | |
| 6 | 6754.5 | 0.00 | 0.00 | 6744.2 | 180.5 | 3.0 | 0.00 | 0.00 | -180.5 | |
| 7 | 7575.2 | 90.27 | 179.36 | 7265.1 | -342.8 | 8.8 | 11.00 | 179.36 | 342.9 | |
| 8 | 11833.6 | 90.27 | 179.36 | 7245.0 | -4601.0 | 56.0 | 0.00 | 0.00 | 4601.3 | BHL 460'FSL & 1225'FEL |

BHL 460'FSL & 1225'FEL

TD at 11833.6

Vertical Section at 179.30° (550 ft/in)



Verdad Oil & Gas Corporation

SEC.28-T1N-R65W

Young 01N-65W-28 Pad Sec.28-T1N-R65W

Young 01N-65W-28-6N

Wellbore #1

Plan: Plan #1 (9-2-14)

Standard Planning Report

11 September, 2014

| Plan Sections | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|-------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,856.5 | 7.13 | 0.95 | 2,856.6 | 22.2 | 0.4 | 2.00 | 2.00 | 0.00 | 0.95 | |
| 3,953.8 | 7.13 | 0.95 | 3,944.4 | 158.3 | 2.6 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,310.3 | 0.00 | 0.00 | 4,300.0 | 180.5 | 3.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 6,754.5 | 0.00 | 0.00 | 6,744.2 | 180.5 | 3.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,575.2 | 90.27 | 179.36 | 7,265.1 | -342.8 | 8.8 | 11.00 | 11.00 | 0.00 | 179.36 | |
| 11,833.6 | 90.27 | 179.36 | 7,245.0 | -4,601.0 | 56.0 | 0.00 | 0.00 | 0.00 | 0.00 | BHL 460'FSL & 122 |

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Company: | Verdad Oil & Gas Corporation | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Project: | SEC.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | North Reference: | True |
| Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (9-2-14) | | |

| Planned Survey | | | | | | | | | |
|-------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 0.00 | 0.00 | 2,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 0.00 | 0.00 | 2,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| KOP - Start Build 2.00 | | | | | | | | | |
| 2,600.0 | 2.00 | 0.95 | 2,600.0 | 1.7 | 0.0 | -1.7 | 2.00 | 2.00 | 0.00 |
| 2,700.0 | 4.00 | 0.95 | 2,699.8 | 7.0 | 0.1 | -7.0 | 2.00 | 2.00 | 0.00 |
| 2,800.0 | 6.00 | 0.95 | 2,799.5 | 15.7 | 0.3 | -15.7 | 2.00 | 2.00 | 0.00 |
| 2,856.5 | 7.13 | 0.95 | 2,855.6 | 22.2 | 0.4 | -22.1 | 2.00 | 2.00 | 0.00 |
| 2,900.0 | 7.13 | 0.95 | 2,898.7 | 27.5 | 0.5 | -27.5 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 7.13 | 0.95 | 2,998.0 | 40.0 | 0.7 | -40.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 7.13 | 0.95 | 3,097.2 | 52.4 | 0.9 | -52.4 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 7.13 | 0.95 | 3,196.4 | 64.8 | 1.1 | -64.8 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 7.13 | 0.95 | 3,295.7 | 77.2 | 1.3 | -77.2 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 7.13 | 0.95 | 3,394.9 | 89.6 | 1.5 | -89.6 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 7.13 | 0.95 | 3,494.1 | 102.0 | 1.7 | -102.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 7.13 | 0.95 | 3,593.3 | 114.4 | 1.9 | -114.4 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 7.13 | 0.95 | 3,692.6 | 126.8 | 2.1 | -126.8 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 7.13 | 0.95 | 3,791.8 | 139.3 | 2.3 | -139.2 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 7.13 | 0.95 | 3,891.0 | 151.7 | 2.5 | -151.6 | 0.00 | 0.00 | 0.00 |
| 3,953.8 | 7.13 | 0.95 | 3,944.4 | 158.3 | 2.6 | -158.3 | 0.00 | 0.00 | 0.00 |
| Start Drop -2.00 | | | | | | | | | |
| 4,000.0 | 6.21 | 0.95 | 3,990.3 | 163.7 | 2.7 | -163.7 | 2.00 | -2.00 | 0.00 |
| 4,100.0 | 4.21 | 0.95 | 4,089.9 | 172.8 | 2.9 | -172.7 | 2.00 | -2.00 | 0.00 |
| 4,200.0 | 2.21 | 0.95 | 4,189.7 | 178.4 | 3.0 | -178.3 | 2.00 | -2.00 | 0.00 |
| 4,300.0 | 0.21 | 0.95 | 4,289.7 | 180.5 | 3.0 | -180.4 | 2.00 | -2.00 | 0.00 |
| 4,310.3 | 0.00 | 0.00 | 4,300.0 | 180.5 | 3.0 | -180.5 | 2.00 | -2.00 | 0.00 |
| 4,400.0 | 0.00 | 0.00 | 4,389.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 0.00 | 0.00 | 4,489.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 0.00 | 0.00 | 4,589.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 0.00 | 0.00 | 4,689.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 0.00 | 0.00 | 4,789.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Company: | Verdad Oil & Gas Corporation | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Project: | SEC.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | North Reference: | True |
| Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (9-2-14) | | |

| Planned Survey | | | | | | | | | |
|-----------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,900.0 | 0.00 | 0.00 | 4,889.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 0.00 | 0.00 | 4,989.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 0.00 | 0.00 | 5,089.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 0.00 | 0.00 | 5,189.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 0.00 | 0.00 | 5,289.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 0.00 | 0.00 | 5,389.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 0.00 | 0.00 | 5,489.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 0.00 | 0.00 | 5,589.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 0.00 | 0.00 | 5,689.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 0.00 | 0.00 | 5,789.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 0.00 | 0.00 | 5,889.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 0.00 | 0.00 | 5,989.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 0.00 | 0.00 | 6,089.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 0.00 | 0.00 | 6,189.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 0.00 | 0.00 | 6,289.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 0.00 | 0.00 | 6,389.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 0.00 | 0.00 | 6,489.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 0.00 | 0.00 | 6,589.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 0.00 | 0.00 | 6,689.7 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| 6,754.5 | 0.00 | 0.00 | 6,744.2 | 180.5 | 3.0 | -180.5 | 0.00 | 0.00 | 0.00 |
| KOP #2 - Start Build 11.00 | | | | | | | | | |
| 6,800.0 | 5.00 | 179.36 | 6,789.6 | 178.5 | 3.0 | -178.5 | 10.99 | 10.99 | 0.00 |
| 6,900.0 | 16.00 | 179.36 | 6,887.8 | 160.3 | 3.2 | -160.3 | 11.00 | 11.00 | 0.00 |
| 7,000.0 | 27.00 | 179.36 | 6,980.7 | 123.7 | 3.6 | -123.7 | 11.00 | 11.00 | 0.00 |
| 7,100.0 | 38.00 | 179.36 | 7,064.9 | 70.1 | 4.2 | -70.0 | 11.00 | 11.00 | 0.00 |
| 7,200.0 | 49.00 | 179.36 | 7,137.3 | 1.3 | 5.0 | -1.3 | 11.00 | 11.00 | 0.00 |
| 7,300.0 | 60.00 | 179.36 | 7,195.3 | -79.9 | 5.9 | 80.0 | 11.00 | 11.00 | 0.00 |
| 7,400.0 | 71.00 | 179.36 | 7,236.7 | -170.8 | 6.9 | 170.9 | 11.00 | 11.00 | 0.00 |
| 7,500.0 | 82.00 | 179.36 | 7,260.0 | -267.9 | 8.0 | 267.9 | 11.00 | 11.00 | 0.00 |
| 7,575.2 | 90.27 | 179.36 | 7,265.1 | -342.8 | 8.8 | 342.9 | 11.00 | 11.00 | 0.00 |
| 7" | | | | | | | | | |
| 7,600.0 | 90.27 | 179.36 | 7,265.0 | -367.6 | 9.1 | 367.7 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.27 | 179.36 | 7,264.5 | -467.6 | 10.2 | 467.7 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.27 | 179.36 | 7,264.0 | -567.6 | 11.3 | 567.7 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.27 | 179.36 | 7,263.5 | -667.6 | 12.4 | 667.7 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.27 | 179.36 | 7,263.1 | -767.6 | 13.5 | 767.7 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.27 | 179.36 | 7,262.6 | -867.6 | 14.6 | 867.7 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.27 | 179.36 | 7,262.1 | -967.6 | 15.7 | 967.7 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.27 | 179.36 | 7,261.7 | -1,067.6 | 16.8 | 1,067.7 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.27 | 179.36 | 7,261.2 | -1,167.6 | 17.9 | 1,167.7 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.27 | 179.36 | 7,260.7 | -1,267.6 | 19.1 | 1,267.7 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.27 | 179.36 | 7,260.2 | -1,367.6 | 20.2 | 1,367.7 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.27 | 179.36 | 7,259.8 | -1,467.5 | 21.3 | 1,467.7 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.27 | 179.36 | 7,259.3 | -1,567.5 | 22.4 | 1,567.7 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.27 | 179.36 | 7,258.8 | -1,667.5 | 23.5 | 1,667.7 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.27 | 179.36 | 7,258.4 | -1,767.5 | 24.6 | 1,767.7 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.27 | 179.36 | 7,257.9 | -1,867.5 | 25.7 | 1,867.7 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.27 | 179.36 | 7,257.4 | -1,967.5 | 26.8 | 1,967.7 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.27 | 179.36 | 7,256.9 | -2,067.5 | 27.9 | 2,067.7 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.27 | 179.36 | 7,256.5 | -2,167.5 | 29.0 | 2,167.7 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.27 | 179.36 | 7,256.0 | -2,267.5 | 30.1 | 2,267.7 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.27 | 179.36 | 7,255.5 | -2,367.5 | 31.3 | 2,367.7 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.27 | 179.36 | 7,255.1 | -2,467.5 | 32.4 | 2,467.7 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.27 | 179.36 | 7,254.6 | -2,567.5 | 33.5 | 2,567.7 | 0.00 | 0.00 | 0.00 |

| Plan Annotations | | | | | |
|------------------|---------------------------|---------------------------|-------------------|-------|----------------------------|
| | Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | | +N/-S | +E/-W | |
| | | | (ft) | (ft) | |
| | | | | | |
| | 2,500.0 | 2,500.0 | 0.0 | 0.0 | KOP - Start Build 2.00 |
| | 3,953.8 | 3,944.4 | 22.2 | 0.4 | Start Drop -2.00 |
| | 6,754.5 | 6,744.2 | 158.3 | 2.6 | KOP #2 - Start Build 11.00 |
| | 11,833.6 | 7,245.0 | 180.5 | 3.0 | TD at 11833.6 |



Verdad Oil & Gas Corporation

SEC.28-T1N-R65W

Young 01N-65W-28 Pad Sec.28-T1N-R65W

Young 01N-65W-28-6N

Wellbore #1

Plan #1 (9-2-14)

Anticollision Report

11 September, 2014

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---------------------------------------------------------------------|-----------------------|---------------------|
| Reference | Plan #1 (9-2-14) | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.0ft | Error Model: | ISCWSA |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 1,000.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| | | | | |
|----------------------------|-----------------------|--------------------------------|------------------|--------------------|
| Survey Tool Program | Date 9/11/2014 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| 0.0 | 11,833.6 | Plan #1 (9-2-14) (Wellbore #1) | MWD | MWD - Standard |

| | | | | | | |
|-------------------------------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|---------------------------------------|--------------------------|---------------------|
| Summary | | | | | | |
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| Existing Wells Sec.28-T1N-R65W | | | | | | |
| Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1 | 8,361.2 | 7,236.4 | 42.7 | -129.1 | 0.249 | Level 1, CC, ES, SF |
| Neckien 1 (SI) - Wellbore #1 - Wellbore #1 | 11,277.0 | 7,216.6 | 259.9 | 36.0 | 1.161 | Level 2, CC, ES, SF |
| Young 01N-65W-28 Pad Sec.28-T1N-R65W | | | | | | |
| Young 01N-65W-28-1C - Wellbore #1 - Plan #1 (8-29-14) | 200.0 | 198.0 | 75.6 | 74.9 | 112.887 | CC, ES |
| Young 01N-65W-28-1C - Wellbore #1 - Plan #1 (8-29-14) | 11,834.5 | 12,076.7 | 852.8 | 677.9 | 4.875 | SF |
| Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14) | 400.0 | 398.0 | 61.6 | 60.0 | 39.270 | CC, ES |
| Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14) | 11,834.5 | 11,854.0 | 661.0 | 481.0 | 3.672 | SF |
| Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14) | 1,000.0 | 999.0 | 47.6 | 43.3 | 11.154 | CC, ES |
| Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14) | 11,834.5 | 11,845.1 | 495.8 | 315.8 | 2.755 | SF |
| Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14) | 1,400.0 | 1,399.0 | 30.8 | 24.7 | 5.078 | CC, ES |
| Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14) | 11,834.5 | 11,839.8 | 330.5 | 150.6 | 1.837 | SF |
| Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14) | 1,600.0 | 1,600.0 | 16.8 | 9.8 | 2.411 | CC, ES |
| Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14) | 11,834.5 | 12,039.5 | 268.0 | 143.9 | 2.160 | SF |
| Young 01N-65W-28-7N - Wellbore #1 - Plan #1 (9-2-14) | 1,366.3 | 1,367.3 | 14.0 | 8.1 | 2.365 | CC |
| Young 01N-65W-28-7N - Wellbore #1 - Plan #1 (9-2-14) | 11,834.5 | 11,836.2 | 165.3 | -14.5 | 0.919 | Level 1, ES, SF |
| Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14) | 1,166.3 | 1,167.3 | 28.0 | 23.0 | 5.478 | CC |
| Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14) | 1,200.0 | 1,201.0 | 28.0 | 22.8 | 5.515 | ES |
| Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14) | 11,834.5 | 11,849.6 | 330.5 | 150.7 | 1.838 | SF |
| Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14) | 966.0 | 968.0 | 44.8 | 40.7 | 10.870 | CC |
| Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14) | 1,000.0 | 1,002.0 | 44.8 | 40.5 | 10.482 | ES |
| Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14) | 11,834.5 | 12,069.8 | 538.8 | 371.4 | 3.219 | SF |

| | | | | | | | | | | | | |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|
| Offset Design | | | | | | | | | | | | |
| Existing Wells Sec.28-T1N-R65W - Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | |
| Survey Program: 8100-UNKNOWN | | | | | | | | | | | | |
| Reference Offset Semi Major Axis Distance | | | | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor |
| 7,400.0 | 7,236.7 | 7,211.7 | 7,211.7 | 16.1 | 144.2 | 7.80 | -1,129.3 | -25.2 | 959.0 | 899.3 | 59.71 | 16.063 |
| 7,500.0 | 7,260.0 | 7,235.0 | 7,235.0 | 16.7 | 144.7 | 19.63 | -1,129.3 | -25.2 | 862.1 | 800.2 | 61.89 | 13.929 |
| 7,600.0 | 7,265.0 | 7,240.0 | 7,240.0 | 17.4 | 144.8 | 94.80 | -1,129.3 | -25.2 | 762.4 | 600.8 | 161.67 | 4.716 |
| 7,700.0 | 7,264.5 | 7,239.5 | 7,239.5 | 18.3 | 144.8 | 94.17 | -1,129.3 | -25.2 | 662.6 | 499.9 | 162.70 | 4.073 |
| 7,800.0 | 7,264.0 | 7,239.0 | 7,239.0 | 19.4 | 144.8 | 93.54 | -1,129.3 | -25.2 | 562.9 | 399.0 | 163.86 | 3.435 |
| 7,900.0 | 7,263.5 | 7,238.5 | 7,238.5 | 20.6 | 144.8 | 92.91 | -1,129.3 | -25.2 | 463.2 | 298.1 | 165.13 | 2.805 |

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

| Existing Wells Sec.28-T1N-R65W - Glen Young 1 (P&A) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------------------|
| Survey Program: 8100-UNKNOWN | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 8,000.0 | 7,263.1 | 7,238.1 | 7,238.1 | 21.8 | 144.8 | 92.28 | -1,129.3 | -25.2 | 363.8 | 197.3 | 166.48 | 2.185 | |
| 8,100.0 | 7,262.6 | 7,237.6 | 7,237.6 | 23.2 | 144.8 | 91.65 | -1,129.3 | -25.2 | 264.7 | 96.8 | 167.91 | 1.577 | |
| 8,200.0 | 7,262.1 | 7,237.1 | 7,237.1 | 24.7 | 144.7 | 91.02 | -1,129.3 | -25.2 | 166.8 | -2.6 | 169.38 | 0.985 | Level 1 |
| 8,300.0 | 7,261.7 | 7,236.7 | 7,236.7 | 26.2 | 144.7 | 90.39 | -1,129.3 | -25.2 | 74.7 | -96.2 | 170.90 | 0.437 | Level 1 |
| 8,361.2 | 7,261.4 | 7,236.4 | 7,236.4 | 27.1 | 144.7 | 90.00 | -1,129.3 | -25.2 | 42.7 | -129.1 | 171.85 | 0.249 | Level 1, CC, ES, SF |
| 8,400.0 | 7,261.2 | 7,236.2 | 7,236.2 | 27.7 | 144.7 | 89.76 | -1,129.3 | -25.2 | 57.7 | -114.8 | 172.45 | 0.334 | Level 1 |
| 8,500.0 | 7,260.7 | 7,235.7 | 7,235.7 | 29.3 | 144.7 | 89.12 | -1,129.3 | -25.2 | 145.2 | -28.8 | 174.02 | 0.834 | Level 1 |
| 8,600.0 | 7,260.2 | 7,235.2 | 7,235.2 | 31.0 | 144.7 | 88.49 | -1,129.3 | -25.2 | 242.5 | 66.9 | 175.61 | 1.381 | Level 3 |
| 8,700.0 | 7,259.8 | 7,234.8 | 7,234.8 | 32.6 | 144.7 | 87.86 | -1,129.3 | -25.2 | 341.4 | 164.2 | 177.21 | 1.927 | |
| 8,800.0 | 7,259.3 | 7,234.3 | 7,234.3 | 34.3 | 144.7 | 87.23 | -1,129.3 | -25.2 | 440.8 | 262.0 | 178.81 | 2.465 | |
| 8,900.0 | 7,258.8 | 7,233.8 | 7,233.8 | 36.0 | 144.7 | 86.60 | -1,129.3 | -25.2 | 540.4 | 360.0 | 180.41 | 2.996 | |
| 9,000.0 | 7,258.4 | 7,233.4 | 7,233.4 | 37.8 | 144.7 | 85.97 | -1,129.3 | -25.2 | 640.2 | 458.2 | 182.01 | 3.517 | |
| 9,100.0 | 7,257.9 | 7,232.9 | 7,232.9 | 39.5 | 144.7 | 85.34 | -1,129.3 | -25.2 | 740.0 | 556.4 | 183.60 | 4.030 | |
| 9,200.0 | 7,257.4 | 7,232.4 | 7,232.4 | 41.3 | 144.6 | 84.71 | -1,129.3 | -25.2 | 839.8 | 654.6 | 185.18 | 4.535 | |
| 9,300.0 | 7,256.9 | 7,231.9 | 7,231.9 | 43.1 | 144.6 | 84.09 | -1,129.3 | -25.2 | 939.7 | 753.0 | 186.76 | 5.032 | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design Existing Wells Sec.28-T1N-R65W - Neckien 1 (SI) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft |
|-------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|
| Survey Program: 8061-UNKNOWN | | | | | | | | | | | | | Offset Well Error: 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 10,400.0 | 7,251.8 | 7,220.8 | 7,220.8 | 63.2 | 144.4 | 90.91 | -4,047.2 | -210.1 | 914.7 | 707.1 | 207.60 | 4.406 | |
| 10,500.0 | 7,251.3 | 7,220.3 | 7,220.3 | 65.1 | 144.4 | 90.81 | -4,047.2 | -210.1 | 819.3 | 609.9 | 209.45 | 3.912 | |
| 10,600.0 | 7,250.8 | 7,219.8 | 7,219.8 | 66.9 | 144.4 | 90.70 | -4,047.2 | -210.1 | 725.2 | 513.9 | 211.31 | 3.432 | |
| 10,700.0 | 7,250.3 | 7,219.3 | 7,219.3 | 68.8 | 144.4 | 90.60 | -4,047.2 | -210.1 | 632.8 | 419.7 | 213.18 | 2.969 | |
| 10,800.0 | 7,249.9 | 7,218.9 | 7,218.9 | 70.7 | 144.4 | 90.50 | -4,047.2 | -210.1 | 543.2 | 328.2 | 215.04 | 2.526 | |
| 10,900.0 | 7,249.4 | 7,218.4 | 7,218.4 | 72.5 | 144.4 | 90.39 | -4,047.2 | -210.1 | 457.9 | 241.0 | 216.90 | 2.111 | |
| 11,000.0 | 7,248.9 | 7,217.9 | 7,217.9 | 74.4 | 144.4 | 90.29 | -4,047.2 | -210.1 | 379.9 | 161.1 | 218.77 | 1.736 | |
| 11,100.0 | 7,248.5 | 7,217.5 | 7,217.5 | 76.3 | 144.3 | 90.18 | -4,047.2 | -210.1 | 314.5 | 93.8 | 220.64 | 1.425 | Level 3 |
| 11,200.0 | 7,248.0 | 7,217.0 | 7,217.0 | 78.2 | 144.3 | 90.08 | -4,047.2 | -210.1 | 271.1 | 48.6 | 222.51 | 1.218 | Level 2 |
| 11,277.0 | 7,247.6 | 7,216.6 | 7,216.6 | 79.6 | 144.3 | 90.00 | -4,047.2 | -210.1 | 259.9 | 36.0 | 223.95 | 1.161 | Level 2, CC, ES, SF |
| 11,300.0 | 7,247.5 | 7,216.5 | 7,216.5 | 80.1 | 144.3 | 89.98 | -4,047.2 | -210.1 | 260.9 | 36.6 | 224.38 | 1.163 | Level 2 |
| 11,400.0 | 7,247.0 | 7,216.0 | 7,216.0 | 81.9 | 144.3 | 89.87 | -4,047.2 | -210.1 | 287.6 | 61.3 | 226.26 | 1.271 | Level 3 |
| 11,500.0 | 7,246.6 | 7,215.6 | 7,215.6 | 83.8 | 144.3 | 89.77 | -4,047.2 | -210.1 | 342.5 | 114.3 | 228.13 | 1.501 | |
| 11,600.0 | 7,246.1 | 7,215.1 | 7,215.1 | 85.7 | 144.3 | 89.66 | -4,047.2 | -210.1 | 414.6 | 184.6 | 230.00 | 1.803 | |
| 11,700.0 | 7,245.6 | 7,214.6 | 7,214.6 | 87.6 | 144.3 | 89.56 | -4,047.2 | -210.1 | 496.5 | 264.6 | 231.88 | 2.141 | |
| 11,800.0 | 7,245.2 | 7,214.2 | 7,214.2 | 89.5 | 144.3 | 89.46 | -4,047.2 | -210.1 | 584.0 | 350.3 | 233.75 | 2.498 | |
| 11,834.5 | 7,245.0 | 7,214.0 | 7,214.0 | 90.1 | 144.3 | 89.42 | -4,047.2 | -210.1 | 615.1 | 380.7 | 234.40 | 2.624 | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -90.00 | 0.0 | -75.6 | 75.6 | | | | | |
| 100.0 | 100.0 | 98.0 | 98.0 | 0.1 | 0.1 | -90.00 | 0.0 | -75.6 | 75.6 | 75.4 | 0.22 | 339.796 | | |
| 200.0 | 200.0 | 198.0 | 198.0 | 0.3 | 0.3 | -90.00 | 0.0 | -75.6 | 75.6 | 74.9 | 0.67 | 112.887 CC, ES | | |
| 300.0 | 300.0 | 295.5 | 295.5 | 0.6 | 0.5 | -89.71 | 0.4 | -77.2 | 77.2 | 76.1 | 1.11 | 69.687 | | |
| 400.0 | 400.0 | 392.8 | 392.6 | 0.8 | 0.8 | -88.88 | 1.6 | -81.9 | 82.1 | 80.5 | 1.55 | 52.882 | | |
| 500.0 | 500.0 | 489.6 | 489.1 | 1.0 | 1.0 | -87.70 | 3.6 | -89.8 | 90.3 | 88.3 | 2.00 | 45.059 | | |
| 600.0 | 600.0 | 585.7 | 584.6 | 1.2 | 1.3 | -86.37 | 6.4 | -100.7 | 101.8 | 99.4 | 2.46 | 41.382 | | |
| 700.0 | 700.0 | 683.2 | 681.0 | 1.5 | 1.6 | -85.06 | 9.9 | -114.5 | 116.2 | 113.2 | 2.92 | 39.728 | | |
| 800.0 | 800.0 | 782.1 | 778.8 | 1.7 | 1.9 | -84.00 | 13.5 | -128.7 | 130.8 | 127.5 | 3.38 | 38.730 | | |
| 900.0 | 900.0 | 881.0 | 876.6 | 1.9 | 2.3 | -83.16 | 17.1 | -142.9 | 145.6 | 141.7 | 3.84 | 37.953 | | |
| 1,000.0 | 1,000.0 | 979.8 | 974.3 | 2.1 | 2.6 | -82.47 | 20.8 | -157.2 | 160.3 | 156.0 | 4.29 | 37.329 | | |
| 1,100.0 | 1,100.0 | 1,078.7 | 1,072.1 | 2.4 | 3.0 | -81.90 | 24.4 | -171.4 | 175.1 | 170.3 | 4.76 | 36.816 | | |
| 1,200.0 | 1,200.0 | 1,177.6 | 1,169.9 | 2.6 | 3.3 | -81.42 | 28.0 | -185.7 | 189.8 | 184.6 | 5.22 | 36.389 | | |
| 1,300.0 | 1,300.0 | 1,276.5 | 1,267.7 | 2.8 | 3.7 | -81.00 | 31.6 | -199.9 | 204.6 | 199.0 | 5.68 | 36.028 | | |
| 1,400.0 | 1,400.0 | 1,375.4 | 1,365.5 | 3.0 | 4.0 | -80.65 | 35.3 | -214.1 | 219.4 | 213.3 | 6.14 | 35.718 | | |
| 1,500.0 | 1,500.0 | 1,474.3 | 1,463.3 | 3.3 | 4.4 | -80.33 | 38.9 | -228.4 | 234.2 | 227.6 | 6.61 | 35.450 | | |
| 1,600.0 | 1,600.0 | 1,573.2 | 1,561.1 | 3.5 | 4.7 | -80.06 | 42.5 | -242.6 | 249.0 | 242.0 | 7.07 | 35.216 | | |
| 1,700.0 | 1,700.0 | 1,672.1 | 1,658.9 | 3.7 | 5.1 | -79.81 | 46.1 | -256.8 | 263.9 | 256.3 | 7.54 | 35.010 | | |
| 1,800.0 | 1,800.0 | 1,771.0 | 1,756.7 | 3.9 | 5.4 | -79.60 | 49.8 | -271.1 | 278.7 | 270.7 | 8.00 | 34.826 | | |
| 1,900.0 | 1,900.0 | 1,869.9 | 1,854.5 | 4.2 | 5.8 | -79.40 | 53.4 | -285.3 | 293.5 | 285.0 | 8.47 | 34.662 | | |
| 2,000.0 | 2,000.0 | 1,968.7 | 1,952.3 | 4.4 | 6.1 | -79.22 | 57.0 | -299.5 | 308.3 | 299.4 | 8.93 | 34.515 | | |
| 2,100.0 | 2,100.0 | 2,067.6 | 2,050.1 | 4.6 | 6.5 | -79.06 | 60.6 | -313.8 | 323.2 | 313.8 | 9.40 | 34.382 | | |
| 2,200.0 | 2,200.0 | 2,166.5 | 2,147.9 | 4.8 | 6.8 | -78.91 | 64.3 | -328.0 | 338.0 | 328.1 | 9.86 | 34.261 | | |
| 2,300.0 | 2,300.0 | 2,265.4 | 2,245.7 | 5.1 | 7.2 | -78.78 | 67.9 | -342.2 | 352.8 | 342.5 | 10.33 | 34.150 | | |
| 2,400.0 | 2,400.0 | 2,364.3 | 2,343.5 | 5.3 | 7.6 | -78.66 | 71.5 | -356.5 | 367.6 | 356.9 | 10.80 | 34.049 | | |
| 2,500.0 | 2,500.0 | 2,463.2 | 2,441.3 | 5.5 | 7.9 | -78.54 | 75.1 | -370.7 | 382.5 | 371.2 | 11.26 | 33.956 | | |
| 2,600.0 | 2,600.0 | 2,562.1 | 2,539.1 | 5.7 | 8.3 | -79.35 | 78.8 | -385.0 | 397.0 | 385.3 | 11.73 | 33.841 | | |
| 2,700.0 | 2,699.8 | 2,661.1 | 2,636.9 | 6.0 | 8.6 | -79.69 | 82.4 | -399.2 | 410.9 | 398.7 | 12.20 | 33.681 | | |
| 2,800.0 | 2,799.5 | 2,759.9 | 2,734.6 | 6.2 | 9.0 | -80.47 | 86.0 | -413.4 | 424.3 | 411.6 | 12.67 | 33.487 | | |
| 2,900.0 | 2,898.7 | 2,858.5 | 2,832.1 | 6.4 | 9.3 | -81.70 | 89.6 | -427.6 | 437.3 | 424.2 | 13.15 | 33.265 | | |
| 3,000.0 | 2,998.0 | 2,957.0 | 2,929.6 | 6.6 | 9.7 | -83.08 | 93.2 | -441.8 | 450.6 | 436.9 | 13.63 | 33.047 | | |
| 3,100.0 | 3,097.2 | 3,055.6 | 3,027.0 | 6.9 | 10.0 | -84.37 | 96.9 | -456.0 | 464.0 | 449.9 | 14.13 | 32.838 | | |
| 3,200.0 | 3,196.4 | 3,154.1 | 3,124.5 | 7.1 | 10.4 | -85.60 | 100.5 | -470.2 | 477.7 | 463.1 | 14.64 | 32.637 | | |
| 3,300.0 | 3,295.7 | 3,252.7 | 3,222.0 | 7.4 | 10.8 | -86.75 | 104.1 | -484.4 | 491.6 | 476.5 | 15.15 | 32.445 | | |
| 3,400.0 | 3,394.9 | 3,351.2 | 3,319.4 | 7.6 | 11.1 | -87.85 | 107.7 | -498.5 | 505.7 | 490.0 | 15.68 | 32.261 | | |
| 3,500.0 | 3,494.1 | 3,449.8 | 3,416.9 | 7.9 | 11.5 | -88.88 | 111.3 | -512.7 | 520.0 | 503.8 | 16.21 | 32.085 | | |
| 3,600.0 | 3,593.3 | 3,548.3 | 3,514.3 | 8.2 | 11.8 | -89.86 | 114.9 | -526.9 | 534.4 | 517.6 | 16.74 | 31.918 | | |
| 3,700.0 | 3,692.6 | 3,646.9 | 3,611.8 | 8.4 | 12.2 | -90.78 | 118.5 | -541.1 | 549.0 | 531.7 | 17.28 | 31.760 | | |
| 3,800.0 | 3,791.8 | 3,745.4 | 3,709.3 | 8.7 | 12.5 | -91.66 | 122.2 | -555.3 | 563.6 | 545.8 | 17.83 | 31.609 | | |
| 3,900.0 | 3,891.0 | 3,844.0 | 3,806.7 | 9.0 | 12.9 | -92.50 | 125.8 | -569.5 | 578.5 | 560.1 | 18.38 | 31.465 | | |
| 4,000.0 | 3,990.3 | 3,942.6 | 3,904.2 | 9.3 | 13.2 | -93.39 | 129.4 | -583.7 | 593.4 | 574.4 | 18.93 | 31.345 | | |
| 4,100.0 | 4,089.9 | 4,041.3 | 4,001.9 | 9.5 | 13.6 | -94.13 | 133.0 | -597.9 | 608.2 | 588.8 | 19.42 | 31.312 | | |
| 4,200.0 | 4,189.7 | 4,140.3 | 4,099.7 | 9.7 | 14.0 | -94.52 | 136.6 | -612.1 | 622.8 | 602.9 | 19.89 | 31.311 | | |
| 4,300.0 | 4,289.7 | 4,239.2 | 4,197.6 | 9.8 | 14.3 | -94.58 | 140.3 | -626.4 | 637.1 | 616.7 | 20.33 | 31.343 | | |
| 4,400.0 | 4,389.7 | 4,338.1 | 4,295.3 | 10.0 | 14.7 | -93.26 | 143.9 | -640.6 | 651.2 | 630.5 | 20.72 | 31.427 | | |
| 4,500.0 | 4,489.7 | 4,437.0 | 4,393.1 | 10.2 | 15.0 | -92.87 | 147.5 | -654.8 | 665.4 | 644.2 | 21.17 | 31.434 | | |
| 4,600.0 | 4,589.7 | 4,535.9 | 4,490.9 | 10.5 | 15.4 | -92.50 | 151.1 | -669.1 | 679.6 | 658.0 | 21.62 | 31.441 | | |
| 4,700.0 | 4,689.7 | 4,634.8 | 4,588.7 | 10.7 | 15.7 | -92.15 | 154.8 | -683.3 | 693.9 | 671.8 | 22.06 | 31.447 | | |
| 4,800.0 | 4,789.7 | 4,733.7 | 4,686.5 | 10.9 | 16.1 | -91.81 | 158.4 | -697.5 | 708.2 | 685.6 | 22.51 | 31.454 | | |
| 4,900.0 | 4,889.7 | 4,832.5 | 4,784.3 | 11.1 | 16.5 | -91.48 | 162.0 | -711.8 | 722.4 | 699.5 | 22.96 | 31.461 | | |
| 5,000.0 | 4,989.7 | 4,931.4 | 4,882.1 | 11.3 | 16.8 | -91.17 | 165.6 | -726.0 | 736.8 | 713.4 | 23.41 | 31.467 | | |
| 5,100.0 | 5,089.7 | 5,032.2 | 4,981.7 | 11.5 | 17.2 | -90.86 | 169.3 | -740.5 | 751.1 | 727.2 | 23.87 | 31.470 | | |

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

| Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-1C - Wellbore #1 - Plan #1 (8-29-14) | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|----------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 5,200.0 | 5,189.7 | 5,165.5 | 5,114.0 | 11.7 | 17.5 | -90.54 | 173.4 | -756.4 | 763.0 | 738.6 | 24.34 | 31.341 | | |
| 5,300.0 | 5,289.7 | 5,300.0 | 5,248.2 | 12.0 | 17.8 | -90.34 | 175.9 | -766.4 | 770.4 | 745.6 | 24.80 | 31.069 | | |
| 5,400.0 | 5,389.7 | 5,435.3 | 5,383.3 | 12.2 | 18.0 | -90.27 | 176.9 | -770.2 | 773.2 | 748.0 | 25.24 | 30.640 | | |
| 5,500.0 | 5,489.7 | 5,539.6 | 5,487.7 | 12.4 | 18.1 | -90.27 | 176.9 | -770.3 | 773.3 | 747.6 | 25.64 | 30.161 | | |
| 5,600.0 | 5,589.7 | 5,639.6 | 5,587.7 | 12.6 | 18.3 | -90.27 | 176.9 | -770.3 | 773.3 | 747.2 | 26.04 | 29.696 | | |
| 5,700.0 | 5,689.7 | 5,739.6 | 5,687.7 | 12.8 | 18.4 | -90.27 | 176.9 | -770.3 | 773.3 | 746.8 | 26.44 | 29.243 | | |
| 5,800.0 | 5,789.7 | 5,839.6 | 5,787.7 | 13.0 | 18.6 | -90.27 | 176.9 | -770.3 | 773.3 | 746.4 | 26.85 | 28.802 | | |
| 5,900.0 | 5,889.7 | 5,939.6 | 5,887.7 | 13.3 | 18.7 | -90.27 | 176.9 | -770.3 | 773.3 | 746.0 | 27.25 | 28.374 | | |
| 6,000.0 | 5,989.7 | 6,039.6 | 5,987.7 | 13.5 | 18.8 | -90.27 | 176.9 | -770.3 | 773.3 | 745.6 | 27.66 | 27.956 | | |
| 6,100.0 | 6,089.7 | 6,139.6 | 6,087.7 | 13.7 | 19.0 | -90.27 | 176.9 | -770.3 | 773.3 | 745.2 | 28.07 | 27.549 | | |
| 6,200.0 | 6,189.7 | 6,239.6 | 6,187.7 | 13.9 | 19.1 | -90.27 | 176.9 | -770.3 | 773.3 | 744.8 | 28.48 | 27.153 | | |
| 6,300.0 | 6,289.7 | 6,339.6 | 6,287.7 | 14.1 | 19.3 | -90.27 | 176.9 | -770.3 | 773.3 | 744.4 | 28.89 | 26.767 | | |
| 6,400.0 | 6,389.7 | 6,439.6 | 6,387.7 | 14.3 | 19.5 | -90.27 | 176.9 | -770.3 | 773.3 | 744.0 | 29.30 | 26.391 | | |
| 6,500.0 | 6,489.7 | 6,539.6 | 6,487.7 | 14.6 | 19.6 | -90.27 | 176.9 | -770.3 | 773.3 | 743.5 | 29.71 | 26.024 | | |
| 6,600.0 | 6,589.7 | 6,639.6 | 6,587.7 | 14.8 | 19.8 | -90.27 | 176.9 | -770.3 | 773.3 | 743.1 | 30.13 | 25.667 | | |
| 6,700.0 | 6,689.7 | 6,739.6 | 6,687.7 | 15.0 | 19.9 | -90.27 | 176.9 | -770.3 | 773.3 | 742.7 | 30.54 | 25.318 | | |
| 6,739.8 | 6,729.5 | 6,779.4 | 6,727.5 | 15.1 | 20.0 | 90.42 | 176.9 | -770.3 | 773.3 | 742.5 | 30.72 | 25.170 | | |
| 6,800.0 | 6,789.6 | 6,839.6 | 6,787.6 | 15.2 | 20.1 | 90.51 | 176.9 | -770.3 | 773.3 | 742.3 | 30.96 | 24.980 | | |
| 6,900.0 | 6,887.8 | 6,937.7 | 6,885.8 | 15.3 | 20.2 | 91.79 | 176.9 | -770.3 | 773.7 | 742.5 | 31.20 | 24.798 | | |
| 7,000.0 | 6,980.7 | 7,034.1 | 6,982.1 | 15.4 | 20.4 | 94.11 | 175.8 | -770.3 | 775.6 | 744.3 | 31.33 | 24.757 | | |
| 7,100.0 | 7,064.9 | 7,140.9 | 7,087.3 | 15.4 | 20.5 | 96.71 | 157.9 | -770.3 | 779.8 | 748.4 | 31.38 | 24.851 | | |
| 7,200.0 | 7,137.3 | 7,258.8 | 7,196.4 | 15.5 | 20.6 | 99.21 | 113.9 | -770.3 | 785.7 | 754.3 | 31.41 | 25.014 | | |
| 7,300.0 | 7,195.3 | 7,389.9 | 7,302.5 | 15.7 | 20.7 | 101.50 | 37.6 | -770.3 | 792.6 | 761.0 | 31.53 | 25.136 | | |
| 7,400.0 | 7,236.7 | 7,535.1 | 7,393.8 | 16.1 | 20.8 | 103.38 | -74.7 | -770.3 | 799.1 | 767.2 | 31.92 | 25.036 | | |
| 7,500.0 | 7,260.0 | 7,692.7 | 7,453.8 | 16.7 | 21.1 | 104.55 | -219.8 | -770.3 | 803.9 | 771.1 | 32.81 | 24.506 | | |
| 7,600.0 | 7,265.0 | 7,842.5 | 7,468.8 | 17.4 | 21.7 | 104.79 | -368.3 | -770.3 | 806.1 | 771.8 | 34.29 | 23.507 | | |
| 7,700.0 | 7,264.5 | 7,942.5 | 7,468.4 | 18.3 | 22.3 | 104.78 | -468.3 | -770.3 | 807.2 | 771.2 | 35.98 | 22.435 | | |
| 7,800.0 | 7,264.0 | 8,042.5 | 7,468.1 | 19.4 | 23.1 | 104.77 | -568.3 | -770.3 | 808.3 | 770.3 | 37.95 | 21.299 | | |
| 7,900.0 | 7,263.5 | 8,142.5 | 7,467.7 | 20.6 | 24.1 | 104.76 | -668.3 | -770.3 | 809.4 | 769.2 | 40.17 | 20.149 | | |
| 8,000.0 | 7,263.1 | 8,242.5 | 7,467.4 | 21.8 | 25.1 | 104.75 | -768.3 | -770.3 | 810.5 | 767.9 | 42.60 | 19.024 | | |
| 8,100.0 | 7,262.6 | 8,342.5 | 7,467.0 | 23.2 | 26.3 | 104.73 | -868.3 | -770.3 | 811.6 | 766.4 | 45.21 | 17.951 | | |
| 8,200.0 | 7,262.1 | 8,442.5 | 7,466.7 | 24.7 | 27.6 | 104.72 | -968.3 | -770.3 | 812.7 | 764.7 | 47.97 | 16.942 | | |
| 8,300.0 | 7,261.7 | 8,542.5 | 7,466.3 | 26.2 | 28.9 | 104.71 | -1,068.3 | -770.3 | 813.8 | 762.9 | 50.85 | 16.003 | | |
| 8,400.0 | 7,261.2 | 8,642.4 | 7,466.0 | 27.7 | 30.3 | 104.70 | -1,168.3 | -770.3 | 814.9 | 761.0 | 53.84 | 15.135 | | |
| 8,500.0 | 7,260.7 | 8,742.4 | 7,465.6 | 29.3 | 31.8 | 104.69 | -1,268.3 | -770.3 | 816.0 | 759.1 | 56.91 | 14.337 | | |
| 8,600.0 | 7,260.2 | 8,842.4 | 7,465.3 | 31.0 | 33.3 | 104.68 | -1,368.3 | -770.3 | 817.1 | 757.0 | 60.06 | 13.604 | | |
| 8,700.0 | 7,259.8 | 8,942.4 | 7,464.9 | 32.6 | 34.8 | 104.67 | -1,468.3 | -770.3 | 818.2 | 754.9 | 63.28 | 12.930 | | |
| 8,800.0 | 7,259.3 | 9,042.4 | 7,464.6 | 34.3 | 36.4 | 104.65 | -1,568.3 | -770.3 | 819.3 | 752.8 | 66.55 | 12.312 | | |
| 8,900.0 | 7,258.8 | 9,142.4 | 7,464.2 | 36.0 | 38.0 | 104.64 | -1,668.3 | -770.3 | 820.4 | 750.5 | 69.86 | 11.743 | | |
| 9,000.0 | 7,258.4 | 9,242.4 | 7,463.9 | 37.8 | 39.7 | 104.63 | -1,768.2 | -770.3 | 821.5 | 748.3 | 73.22 | 11.220 | | |
| 9,100.0 | 7,257.9 | 9,342.4 | 7,463.6 | 39.5 | 41.3 | 104.62 | -1,868.2 | -770.3 | 822.6 | 746.0 | 76.61 | 10.738 | | |
| 9,200.0 | 7,257.4 | 9,442.4 | 7,463.2 | 41.3 | 43.0 | 104.61 | -1,968.2 | -770.3 | 823.7 | 743.7 | 80.03 | 10.293 | | |
| 9,300.0 | 7,256.9 | 9,542.4 | 7,462.9 | 43.1 | 44.7 | 104.60 | -2,068.2 | -770.3 | 824.8 | 741.3 | 83.48 | 9.881 | | |
| 9,400.0 | 7,256.5 | 9,642.4 | 7,462.5 | 44.9 | 46.4 | 104.59 | -2,168.2 | -770.3 | 825.9 | 739.0 | 86.95 | 9.499 | | |
| 9,500.0 | 7,256.0 | 9,742.4 | 7,462.2 | 46.7 | 48.2 | 104.58 | -2,268.2 | -770.3 | 827.0 | 736.6 | 90.44 | 9.144 | | |
| 9,600.0 | 7,255.5 | 9,842.4 | 7,461.8 | 48.5 | 49.9 | 104.56 | -2,368.2 | -770.3 | 828.1 | 734.2 | 93.95 | 8.814 | | |
| 9,700.0 | 7,255.1 | 9,942.4 | 7,461.5 | 50.3 | 51.7 | 104.55 | -2,468.2 | -770.3 | 829.2 | 731.7 | 97.48 | 8.507 | | |
| 9,800.0 | 7,254.6 | 10,042.4 | 7,461.1 | 52.1 | 53.5 | 104.54 | -2,568.2 | -770.3 | 830.3 | 729.3 | 101.03 | 8.219 | | |
| 9,900.0 | 7,254.1 | 10,142.4 | 7,460.8 | 54.0 | 55.2 | 104.53 | -2,668.2 | -770.3 | 831.4 | 726.9 | 104.58 | 7.950 | | |
| 10,000.0 | 7,253.6 | 10,242.4 | 7,460.4 | 55.8 | 57.0 | 104.52 | -2,768.2 | -770.3 | 832.5 | 724.4 | 108.15 | 7.698 | | |
| 10,100.0 | 7,253.2 | 10,342.3 | 7,460.1 | 57.6 | 58.8 | 104.51 | -2,868.2 | -770.3 | 833.6 | 721.9 | 111.73 | 7.461 | | |
| 10,200.0 | 7,252.7 | 10,442.3 | 7,459.7 | 59.5 | 60.6 | 104.50 | -2,968.2 | -770.3 | 834.7 | 719.4 | 115.32 | 7.238 | | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-1C - Wellbore #1 - Plan #1 (8-29-14) | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|-----------------------------------------|---------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 10,300.0 | 7,252.2 | 10,542.3 | 7,459.4 | 61.4 | 62.5 | 104.49 | -3,068.2 | -770.3 | 835.9 | 716.9 | 118.92 | 7.028 | |
| 10,400.0 | 7,251.8 | 10,642.3 | 7,459.0 | 63.2 | 64.3 | 104.48 | -3,168.2 | -770.3 | 837.0 | 714.4 | 122.53 | 6.830 | |
| 10,500.0 | 7,251.3 | 10,742.3 | 7,458.7 | 65.1 | 66.1 | 104.47 | -3,268.1 | -770.3 | 838.1 | 711.9 | 126.15 | 6.643 | |
| 10,600.0 | 7,250.8 | 10,842.3 | 7,458.3 | 66.9 | 67.9 | 104.46 | -3,368.1 | -770.3 | 839.2 | 709.4 | 129.77 | 6.466 | |
| 10,700.0 | 7,250.3 | 10,942.3 | 7,458.0 | 68.8 | 69.8 | 104.44 | -3,468.1 | -770.3 | 840.3 | 706.9 | 133.40 | 6.299 | |
| 10,800.0 | 7,249.9 | 11,042.3 | 7,457.6 | 70.7 | 71.6 | 104.43 | -3,568.1 | -770.3 | 841.4 | 704.3 | 137.04 | 6.140 | |
| 10,900.0 | 7,249.4 | 11,142.3 | 7,457.3 | 72.5 | 73.4 | 104.42 | -3,668.1 | -770.3 | 842.5 | 701.8 | 140.68 | 5.989 | |
| 11,000.0 | 7,248.9 | 11,242.3 | 7,456.9 | 74.4 | 75.3 | 104.41 | -3,768.1 | -770.3 | 843.6 | 699.3 | 144.33 | 5.845 | |
| 11,100.0 | 7,248.5 | 11,342.3 | 7,456.6 | 76.3 | 77.1 | 104.40 | -3,868.1 | -770.3 | 844.7 | 696.7 | 147.98 | 5.708 | |
| 11,200.0 | 7,248.0 | 11,442.3 | 7,456.2 | 78.2 | 79.0 | 104.39 | -3,968.1 | -770.3 | 845.8 | 694.2 | 151.64 | 5.578 | |
| 11,300.0 | 7,247.5 | 11,542.3 | 7,455.9 | 80.1 | 80.8 | 104.38 | -4,068.1 | -770.3 | 846.9 | 691.6 | 155.30 | 5.453 | |
| 11,400.0 | 7,247.0 | 11,642.3 | 7,455.5 | 81.9 | 82.7 | 104.37 | -4,168.1 | -770.3 | 848.0 | 689.0 | 158.96 | 5.335 | |
| 11,500.0 | 7,246.6 | 11,742.3 | 7,455.2 | 83.8 | 84.6 | 104.36 | -4,268.1 | -770.3 | 849.1 | 686.5 | 162.63 | 5.221 | |
| 11,600.0 | 7,246.1 | 11,842.3 | 7,454.8 | 85.7 | 86.4 | 104.35 | -4,368.1 | -770.3 | 850.2 | 683.9 | 166.30 | 5.113 | |
| 11,700.0 | 7,245.6 | 11,942.2 | 7,454.5 | 87.6 | 88.3 | 104.34 | -4,468.1 | -770.3 | 851.3 | 681.3 | 169.97 | 5.008 | |
| 11,800.0 | 7,245.2 | 12,042.2 | 7,454.1 | 89.5 | 90.2 | 104.33 | -4,568.1 | -770.3 | 852.4 | 678.8 | 173.65 | 4.909 | |
| 11,834.5 | 7,245.0 | 12,076.7 | 7,454.0 | 90.1 | 90.8 | 104.32 | -4,602.5 | -770.3 | 852.8 | 677.9 | 174.92 | 4.875 SF | |

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14) | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-----------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------------------|-----------------|------------------|--------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -90.00 | 0.0 | -61.6 | 61.6 | | | | | |
| 100.0 | 100.0 | 98.0 | 98.0 | 0.1 | 0.1 | -90.00 | 0.0 | -61.6 | 61.6 | 61.4 | 0.22 | 276.871 | | |
| 200.0 | 200.0 | 198.0 | 198.0 | 0.3 | 0.3 | -90.00 | 0.0 | -61.6 | 61.6 | 60.9 | 0.67 | 91.982 | | |
| 300.0 | 300.0 | 298.0 | 298.0 | 0.6 | 0.6 | -90.00 | 0.0 | -61.6 | 61.6 | 60.5 | 1.12 | 55.042 | | |
| 400.0 | 400.0 | 398.0 | 398.0 | 0.8 | 0.8 | -90.00 | 0.0 | -61.6 | 61.6 | 60.0 | 1.57 | 39.270 CC, ES | | |
| 500.0 | 500.0 | 496.0 | 496.0 | 1.0 | 1.0 | -89.55 | 0.5 | -63.1 | 63.2 | 61.2 | 2.01 | 31.485 | | |
| 600.0 | 600.0 | 593.7 | 593.6 | 1.2 | 1.2 | -88.29 | 2.0 | -67.8 | 68.0 | 65.6 | 2.44 | 27.816 | | |
| 700.0 | 700.0 | 691.0 | 690.5 | 1.5 | 1.4 | -86.54 | 4.6 | -75.7 | 76.2 | 73.3 | 2.89 | 26.352 | | |
| 800.0 | 800.0 | 788.2 | 787.1 | 1.7 | 1.7 | -84.65 | 8.1 | -86.5 | 87.6 | 84.2 | 3.34 | 26.193 | | |
| 900.0 | 900.0 | 887.4 | 885.4 | 1.9 | 2.0 | -83.04 | 12.0 | -98.6 | 100.1 | 96.3 | 3.79 | 26.392 | | |
| 1,000.0 | 1,000.0 | 986.6 | 983.8 | 2.1 | 2.3 | -81.79 | 16.0 | -110.6 | 112.7 | 108.4 | 4.24 | 26.555 | | |
| 1,100.0 | 1,100.0 | 1,085.8 | 1,082.2 | 2.4 | 2.6 | -80.79 | 19.9 | -122.7 | 125.3 | 120.6 | 4.70 | 26.682 | | |
| 1,200.0 | 1,200.0 | 1,185.0 | 1,180.5 | 2.6 | 2.9 | -79.98 | 23.8 | -134.8 | 138.0 | 132.8 | 5.15 | 26.784 | | |
| 1,300.0 | 1,300.0 | 1,284.1 | 1,278.9 | 2.8 | 3.2 | -79.30 | 27.7 | -146.8 | 150.6 | 145.0 | 5.61 | 26.867 | | |
| 1,400.0 | 1,400.0 | 1,383.3 | 1,377.3 | 3.0 | 3.5 | -78.73 | 31.7 | -158.9 | 163.3 | 157.3 | 6.06 | 26.935 | | |
| 1,500.0 | 1,500.0 | 1,482.5 | 1,475.6 | 3.3 | 3.8 | -78.24 | 35.6 | -170.9 | 176.0 | 169.5 | 6.52 | 26.993 | | |
| 1,600.0 | 1,600.0 | 1,581.7 | 1,574.0 | 3.5 | 4.2 | -77.81 | 39.5 | -183.0 | 188.7 | 181.8 | 6.98 | 27.042 | | |
| 1,700.0 | 1,700.0 | 1,680.9 | 1,672.4 | 3.7 | 4.5 | -77.44 | 43.4 | -195.1 | 201.5 | 194.0 | 7.44 | 27.084 | | |
| 1,800.0 | 1,800.0 | 1,780.0 | 1,770.7 | 3.9 | 4.8 | -77.12 | 47.4 | -207.1 | 214.2 | 206.3 | 7.90 | 27.120 | | |
| 1,900.0 | 1,900.0 | 1,879.2 | 1,869.1 | 4.2 | 5.1 | -76.83 | 51.3 | -219.2 | 226.9 | 218.6 | 8.36 | 27.152 | | |
| 2,000.0 | 2,000.0 | 1,978.4 | 1,967.4 | 4.4 | 5.5 | -76.57 | 55.2 | -231.2 | 239.7 | 230.9 | 8.82 | 27.180 | | |
| 2,100.0 | 2,100.0 | 2,077.6 | 2,065.8 | 4.6 | 5.8 | -76.34 | 59.1 | -243.3 | 252.4 | 243.2 | 9.28 | 27.205 | | |
| 2,200.0 | 2,200.0 | 2,176.8 | 2,164.2 | 4.8 | 6.1 | -76.13 | 63.1 | -255.4 | 265.2 | 255.5 | 9.74 | 27.227 | | |
| 2,300.0 | 2,300.0 | 2,275.9 | 2,262.5 | 5.1 | 6.4 | -75.93 | 67.0 | -267.4 | 277.9 | 267.7 | 10.20 | 27.247 | | |
| 2,400.0 | 2,400.0 | 2,375.1 | 2,360.9 | 5.3 | 6.7 | -75.76 | 70.9 | -279.5 | 290.7 | 280.0 | 10.66 | 27.265 | | |
| 2,500.0 | 2,500.0 | 2,474.3 | 2,459.3 | 5.5 | 7.1 | -75.60 | 74.9 | -291.5 | 303.5 | 292.3 | 11.12 | 27.281 | | |
| 2,600.0 | 2,600.0 | 2,573.5 | 2,557.7 | 5.7 | 7.4 | -76.47 | 78.8 | -303.6 | 315.8 | 304.2 | 11.59 | 27.258 | | |
| 2,700.0 | 2,699.8 | 2,672.7 | 2,656.1 | 6.0 | 7.7 | -77.00 | 82.7 | -315.7 | 327.4 | 315.4 | 12.05 | 27.171 | | |
| 2,800.0 | 2,799.5 | 2,771.9 | 2,754.4 | 6.2 | 8.0 | -78.06 | 86.6 | -327.7 | 338.3 | 325.8 | 12.52 | 27.031 | | |
| 2,900.0 | 2,898.7 | 2,870.8 | 2,852.5 | 6.4 | 8.4 | -79.64 | 90.5 | -339.7 | 348.8 | 335.8 | 12.99 | 26.854 | | |
| 3,000.0 | 2,998.0 | 2,969.7 | 2,950.6 | 6.6 | 8.7 | -81.33 | 94.5 | -351.8 | 359.5 | 346.0 | 13.47 | 26.683 | | |
| 3,100.0 | 3,097.2 | 3,068.6 | 3,048.7 | 6.9 | 9.0 | -82.92 | 98.4 | -363.8 | 370.5 | 356.5 | 13.97 | 26.525 | | |
| 3,200.0 | 3,196.4 | 3,167.4 | 3,146.7 | 7.1 | 9.3 | -84.41 | 102.3 | -375.8 | 381.7 | 367.3 | 14.47 | 26.380 | | |
| 3,300.0 | 3,295.7 | 3,266.3 | 3,244.8 | 7.4 | 9.7 | -85.83 | 106.2 | -387.8 | 393.2 | 378.3 | 14.98 | 26.245 | | |
| 3,400.0 | 3,394.9 | 3,365.2 | 3,342.9 | 7.6 | 10.0 | -87.16 | 110.1 | -399.9 | 405.0 | 389.5 | 15.50 | 26.121 | | |
| 3,500.0 | 3,494.1 | 3,464.1 | 3,440.9 | 7.9 | 10.3 | -88.41 | 114.0 | -411.9 | 416.9 | 400.9 | 16.03 | 26.005 | | |
| 3,600.0 | 3,593.3 | 3,562.9 | 3,539.0 | 8.2 | 10.6 | -89.60 | 117.9 | -423.9 | 429.0 | 412.5 | 16.57 | 25.899 | | |
| 3,700.0 | 3,692.6 | 3,661.8 | 3,637.1 | 8.4 | 11.0 | -90.72 | 121.9 | -435.9 | 441.3 | 424.2 | 17.11 | 25.801 | | |
| 3,800.0 | 3,791.8 | 3,760.7 | 3,735.1 | 8.7 | 11.3 | -91.78 | 125.8 | -448.0 | 453.8 | 436.1 | 17.65 | 25.710 | | |
| 3,900.0 | 3,891.0 | 3,859.6 | 3,833.2 | 9.0 | 11.6 | -92.79 | 129.7 | -460.0 | 466.4 | 448.2 | 18.20 | 25.626 | | |
| 4,000.0 | 3,990.3 | 3,958.5 | 3,931.3 | 9.3 | 11.9 | -93.81 | 133.6 | -472.0 | 479.1 | 460.3 | 18.74 | 25.563 | | |
| 4,100.0 | 4,089.9 | 4,057.6 | 4,029.6 | 9.5 | 12.3 | -94.58 | 137.5 | -484.1 | 491.7 | 472.4 | 19.23 | 25.572 | | |
| 4,200.0 | 4,189.7 | 4,156.8 | 4,128.0 | 9.7 | 12.6 | -94.92 | 141.5 | -496.1 | 504.0 | 484.3 | 19.68 | 25.604 | | |
| 4,300.0 | 4,289.7 | 4,256.1 | 4,226.4 | 9.8 | 12.9 | -94.86 | 145.4 | -508.2 | 516.0 | 495.9 | 20.11 | 25.659 | | |
| 4,400.0 | 4,389.7 | 4,355.2 | 4,324.8 | 10.0 | 13.3 | -93.41 | 149.3 | -520.2 | 527.9 | 507.4 | 20.51 | 25.743 | | |
| 4,500.0 | 4,489.7 | 4,454.4 | 4,423.1 | 10.2 | 13.6 | -92.92 | 153.2 | -532.3 | 539.9 | 518.9 | 20.95 | 25.769 | | |
| 4,600.0 | 4,589.7 | 4,553.6 | 4,521.5 | 10.5 | 13.9 | -92.44 | 157.2 | -544.4 | 551.8 | 530.4 | 21.39 | 25.795 | | |
| 4,700.0 | 4,689.7 | 4,652.8 | 4,619.9 | 10.7 | 14.2 | -91.99 | 161.1 | -556.4 | 563.9 | 542.0 | 21.84 | 25.821 | | |
| 4,800.0 | 4,789.7 | 4,751.9 | 4,718.2 | 10.9 | 14.6 | -91.55 | 165.0 | -568.5 | 575.9 | 553.6 | 22.28 | 25.847 | | |
| 4,900.0 | 4,889.7 | 4,851.1 | 4,816.6 | 11.1 | 14.9 | -91.14 | 168.9 | -580.5 | 588.0 | 565.2 | 22.73 | 25.873 | | |
| 5,000.0 | 4,989.7 | 4,970.6 | 4,935.3 | 11.3 | 15.2 | -90.71 | 173.1 | -593.3 | 598.7 | 575.5 | 23.17 | 25.836 | | |
| 5,100.0 | 5,089.7 | 5,095.1 | 5,059.5 | 11.5 | 15.4 | -90.44 | 175.8 | -601.7 | 605.4 | 581.8 | 23.61 | 25.647 | | |

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14) | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------------------|--|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,200.0 | 5,189.7 | 5,220.2 | 5,184.6 | 11.7 | 15.6 | -90.34 | 176.9 | -605.0 | 608.0 | 583.9 | 24.03 | 25.300 | | |
| 5,300.0 | 5,289.7 | 5,323.4 | 5,287.7 | 12.0 | 15.8 | -90.34 | 176.9 | -605.0 | 608.0 | 583.6 | 24.43 | 24.884 | | |
| 5,400.0 | 5,389.7 | 5,423.4 | 5,387.7 | 12.2 | 15.9 | -90.34 | 176.9 | -605.0 | 608.0 | 583.2 | 24.84 | 24.476 | | |
| 5,500.0 | 5,489.7 | 5,523.4 | 5,487.7 | 12.4 | 16.1 | -90.34 | 176.9 | -605.0 | 608.0 | 582.8 | 25.25 | 24.079 | | |
| 5,600.0 | 5,589.7 | 5,623.4 | 5,587.7 | 12.6 | 16.3 | -90.34 | 176.9 | -605.0 | 608.0 | 582.3 | 25.66 | 23.694 | | |
| 5,700.0 | 5,689.7 | 5,723.4 | 5,687.7 | 12.8 | 16.4 | -90.34 | 176.9 | -605.0 | 608.0 | 581.9 | 26.07 | 23.320 | | |
| 5,800.0 | 5,789.7 | 5,823.4 | 5,787.7 | 13.0 | 16.6 | -90.34 | 176.9 | -605.0 | 608.0 | 581.5 | 26.49 | 22.957 | | |
| 5,900.0 | 5,889.7 | 5,923.4 | 5,887.7 | 13.3 | 16.7 | -90.34 | 176.9 | -605.0 | 608.0 | 581.1 | 26.90 | 22.603 | | |
| 6,000.0 | 5,989.7 | 6,023.4 | 5,987.7 | 13.5 | 16.9 | -90.34 | 176.9 | -605.0 | 608.0 | 580.7 | 27.31 | 22.260 | | |
| 6,100.0 | 6,089.7 | 6,123.4 | 6,087.7 | 13.7 | 17.1 | -90.34 | 176.9 | -605.0 | 608.0 | 580.3 | 27.73 | 21.926 | | |
| 6,200.0 | 6,189.7 | 6,223.4 | 6,187.7 | 13.9 | 17.2 | -90.34 | 176.9 | -605.0 | 608.0 | 579.9 | 28.15 | 21.601 | | |
| 6,300.0 | 6,289.7 | 6,323.4 | 6,287.7 | 14.1 | 17.4 | -90.34 | 176.9 | -605.0 | 608.0 | 579.4 | 28.57 | 21.285 | | |
| 6,400.0 | 6,389.7 | 6,423.4 | 6,387.7 | 14.3 | 17.6 | -90.34 | 176.9 | -605.0 | 608.0 | 579.0 | 28.98 | 20.977 | | |
| 6,500.0 | 6,489.7 | 6,523.4 | 6,487.7 | 14.6 | 17.8 | -90.34 | 176.9 | -605.0 | 608.0 | 578.6 | 29.40 | 20.677 | | |
| 6,600.0 | 6,589.7 | 6,623.4 | 6,587.7 | 14.8 | 17.9 | -90.34 | 176.9 | -605.0 | 608.0 | 578.2 | 29.83 | 20.386 | | |
| 6,700.0 | 6,689.7 | 6,723.4 | 6,687.7 | 15.0 | 18.1 | -90.34 | 176.9 | -605.0 | 608.0 | 577.8 | 30.25 | 20.102 | | |
| 6,733.3 | 6,723.0 | 6,756.6 | 6,721.0 | 15.1 | 18.2 | 90.34 | 176.9 | -605.0 | 608.0 | 577.6 | 30.40 | 20.001 | | |
| 6,800.0 | 6,789.6 | 6,823.0 | 6,787.3 | 15.2 | 18.3 | 90.29 | 174.9 | -605.0 | 608.0 | 577.4 | 30.65 | 19.838 | | |
| 6,900.0 | 6,887.8 | 6,922.4 | 6,884.8 | 15.3 | 18.4 | 90.28 | 157.0 | -605.0 | 608.2 | 577.4 | 30.86 | 19.706 | | |
| 7,000.0 | 6,980.7 | 7,021.7 | 6,977.2 | 15.4 | 18.4 | 90.26 | 120.9 | -605.0 | 608.6 | 577.6 | 30.99 | 19.642 | | |
| 7,100.0 | 7,064.9 | 7,121.1 | 7,061.2 | 15.4 | 18.5 | 90.23 | 67.8 | -605.0 | 609.2 | 578.1 | 31.10 | 19.589 | | |
| 7,200.0 | 7,137.3 | 7,220.6 | 7,133.5 | 15.5 | 18.6 | 90.19 | -0.2 | -605.0 | 610.0 | 578.7 | 31.32 | 19.477 | | |
| 7,300.0 | 7,195.3 | 7,320.2 | 7,191.7 | 15.7 | 18.7 | 90.15 | -80.9 | -605.0 | 610.9 | 579.1 | 31.76 | 19.236 | | |
| 7,400.0 | 7,236.7 | 7,419.9 | 7,233.6 | 16.1 | 18.9 | 90.10 | -171.2 | -605.0 | 611.9 | 579.4 | 32.51 | 18.822 | | |
| 7,500.0 | 7,260.0 | 7,519.8 | 7,257.5 | 16.7 | 19.2 | 90.04 | -267.9 | -605.0 | 613.0 | 579.3 | 33.62 | 18.232 | | |
| 7,600.0 | 7,265.0 | 7,619.7 | 7,263.0 | 17.4 | 19.7 | 90.00 | -367.6 | -605.0 | 614.1 | 579.0 | 35.08 | 17.503 | | |
| 7,700.0 | 7,264.5 | 7,719.7 | 7,262.5 | 18.3 | 20.5 | 90.00 | -467.6 | -605.0 | 615.2 | 578.3 | 36.87 | 16.686 | | |
| 7,800.0 | 7,264.0 | 7,819.7 | 7,262.0 | 19.4 | 21.4 | 90.00 | -567.6 | -605.0 | 616.3 | 577.3 | 38.95 | 15.824 | | |
| 7,900.0 | 7,263.5 | 7,919.7 | 7,261.6 | 20.6 | 22.4 | 90.00 | -667.6 | -605.0 | 617.4 | 576.1 | 41.28 | 14.957 | | |
| 8,000.0 | 7,263.1 | 8,019.7 | 7,261.1 | 21.8 | 23.6 | 90.00 | -767.6 | -605.0 | 618.5 | 574.7 | 43.82 | 14.114 | | |
| 8,100.0 | 7,262.6 | 8,119.7 | 7,260.6 | 23.2 | 24.9 | 90.00 | -867.6 | -605.0 | 619.6 | 573.1 | 46.54 | 13.312 | | |
| 8,200.0 | 7,262.1 | 8,219.7 | 7,260.1 | 24.7 | 26.2 | 90.00 | -967.6 | -605.0 | 620.7 | 571.3 | 49.41 | 12.562 | | |
| 8,300.0 | 7,261.7 | 8,319.7 | 7,259.7 | 26.2 | 27.6 | 90.00 | -1,067.6 | -605.0 | 621.8 | 569.4 | 52.41 | 11.865 | | |
| 8,400.0 | 7,261.2 | 8,419.7 | 7,259.2 | 27.7 | 29.1 | 90.00 | -1,167.6 | -605.0 | 622.9 | 567.4 | 55.50 | 11.223 | | |
| 8,500.0 | 7,260.7 | 8,519.7 | 7,258.7 | 29.3 | 30.6 | 90.00 | -1,267.6 | -605.0 | 624.1 | 565.4 | 58.69 | 10.633 | | |
| 8,600.0 | 7,260.2 | 8,619.7 | 7,258.3 | 31.0 | 32.2 | 90.00 | -1,367.6 | -605.0 | 625.2 | 563.2 | 61.95 | 10.092 | | |
| 8,700.0 | 7,259.8 | 8,719.7 | 7,257.8 | 32.6 | 33.8 | 90.00 | -1,467.5 | -605.0 | 626.3 | 561.0 | 65.27 | 9.596 | | |
| 8,800.0 | 7,259.3 | 8,819.6 | 7,257.3 | 34.3 | 35.4 | 90.00 | -1,567.5 | -605.0 | 627.4 | 558.7 | 68.64 | 9.140 | | |
| 8,900.0 | 7,258.8 | 8,919.6 | 7,256.8 | 36.0 | 37.1 | 90.00 | -1,667.5 | -605.0 | 628.5 | 556.4 | 72.06 | 8.722 | | |
| 9,000.0 | 7,258.4 | 9,019.6 | 7,256.4 | 37.8 | 38.8 | 90.00 | -1,767.5 | -605.0 | 629.6 | 554.1 | 75.52 | 8.337 | | |
| 9,100.0 | 7,257.9 | 9,119.6 | 7,255.9 | 39.5 | 40.5 | 90.00 | -1,867.5 | -605.0 | 630.7 | 551.7 | 79.02 | 7.982 | | |
| 9,200.0 | 7,257.4 | 9,219.6 | 7,255.4 | 41.3 | 42.2 | 90.00 | -1,967.5 | -605.0 | 631.8 | 549.3 | 82.54 | 7.655 | | |
| 9,300.0 | 7,256.9 | 9,319.6 | 7,255.0 | 43.1 | 43.9 | 90.00 | -2,067.5 | -605.0 | 632.9 | 546.8 | 86.09 | 7.352 | | |
| 9,400.0 | 7,256.5 | 9,419.6 | 7,254.5 | 44.9 | 45.7 | 90.00 | -2,167.5 | -605.0 | 634.0 | 544.4 | 89.67 | 7.071 | | |
| 9,500.0 | 7,256.0 | 9,519.6 | 7,254.0 | 46.7 | 47.4 | 90.00 | -2,267.5 | -605.0 | 635.1 | 541.9 | 93.26 | 6.810 | | |
| 9,600.0 | 7,255.5 | 9,619.6 | 7,253.5 | 48.5 | 49.2 | 90.00 | -2,367.5 | -605.0 | 636.3 | 539.4 | 96.88 | 6.568 | | |
| 9,700.0 | 7,255.1 | 9,719.6 | 7,253.1 | 50.3 | 51.0 | 90.00 | -2,467.5 | -605.0 | 637.4 | 536.9 | 100.51 | 6.342 | | |
| 9,800.0 | 7,254.6 | 9,819.6 | 7,252.6 | 52.1 | 52.8 | 90.00 | -2,567.5 | -605.0 | 638.5 | 534.3 | 104.15 | 6.130 | | |
| 9,900.0 | 7,254.1 | 9,919.6 | 7,252.1 | 54.0 | 54.6 | 90.00 | -2,667.5 | -605.0 | 639.6 | 531.8 | 107.81 | 5.933 | | |
| 10,000.0 | 7,253.6 | 10,019.6 | 7,251.7 | 55.8 | 56.4 | 90.00 | -2,767.5 | -605.0 | 640.7 | 529.2 | 111.48 | 5.747 | | |
| 10,100.0 | 7,253.2 | 10,119.6 | 7,251.2 | 57.6 | 58.2 | 90.00 | -2,867.4 | -605.0 | 641.8 | 526.6 | 115.16 | 5.573 | | |
| 10,200.0 | 7,252.7 | 10,219.6 | 7,250.7 | 59.5 | 60.0 | 90.00 | -2,967.4 | -605.0 | 642.9 | 524.1 | 118.85 | 5.409 | | |

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-2N - Wellbore #1 - Plan #1 (8-29-14) | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|--------------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | |
| 10,300.0 | 7,252.2 | 10,319.6 | 7,250.2 | 61.4 | 61.9 | 90.00 | -3,067.4 | -605.0 | 644.0 | 521.5 | 122.55 | 5.255 | |
| 10,400.0 | 7,251.8 | 10,419.5 | 7,249.8 | 63.2 | 63.7 | 90.00 | -3,167.4 | -605.0 | 645.1 | 518.9 | 126.26 | 5.110 | |
| 10,500.0 | 7,251.3 | 10,519.5 | 7,249.3 | 65.1 | 65.5 | 90.00 | -3,267.4 | -605.0 | 646.2 | 516.3 | 129.97 | 4.972 | |
| 10,600.0 | 7,250.8 | 10,619.5 | 7,248.8 | 66.9 | 67.4 | 90.00 | -3,367.4 | -605.0 | 647.3 | 513.6 | 133.69 | 4.842 | |
| 10,700.0 | 7,250.3 | 10,719.5 | 7,248.4 | 68.8 | 69.2 | 90.00 | -3,467.4 | -605.0 | 648.4 | 511.0 | 137.42 | 4.719 | |
| 10,800.0 | 7,249.9 | 10,819.5 | 7,247.9 | 70.7 | 71.1 | 90.00 | -3,567.4 | -605.0 | 649.6 | 508.4 | 141.15 | 4.602 | |
| 10,900.0 | 7,249.4 | 10,919.5 | 7,247.4 | 72.5 | 72.9 | 90.00 | -3,667.4 | -605.0 | 650.7 | 505.8 | 144.89 | 4.491 | |
| 11,000.0 | 7,248.9 | 11,019.5 | 7,246.9 | 74.4 | 74.8 | 90.00 | -3,767.4 | -605.0 | 651.8 | 503.1 | 148.63 | 4.385 | |
| 11,100.0 | 7,248.5 | 11,119.5 | 7,246.5 | 76.3 | 76.7 | 90.00 | -3,867.4 | -605.0 | 652.9 | 500.5 | 152.38 | 4.285 | |
| 11,200.0 | 7,248.0 | 11,219.5 | 7,246.0 | 78.2 | 78.5 | 90.00 | -3,967.4 | -605.0 | 654.0 | 497.9 | 156.13 | 4.189 | |
| 11,300.0 | 7,247.5 | 11,319.5 | 7,245.5 | 80.1 | 80.4 | 90.00 | -4,067.4 | -605.0 | 655.1 | 495.2 | 159.89 | 4.097 | |
| 11,400.0 | 7,247.0 | 11,419.5 | 7,245.1 | 81.9 | 82.3 | 90.00 | -4,167.4 | -605.0 | 656.2 | 492.6 | 163.65 | 4.010 | |
| 11,500.0 | 7,246.6 | 11,519.5 | 7,244.6 | 83.8 | 84.1 | 90.00 | -4,267.3 | -605.0 | 657.3 | 489.9 | 167.41 | 3.926 | |
| 11,600.0 | 7,246.1 | 11,619.5 | 7,244.1 | 85.7 | 86.0 | 90.00 | -4,367.3 | -605.0 | 658.4 | 487.2 | 171.18 | 3.846 | |
| 11,700.0 | 7,245.6 | 11,719.5 | 7,243.6 | 87.6 | 87.9 | 90.00 | -4,467.3 | -605.0 | 659.5 | 484.6 | 174.95 | 3.770 | |
| 11,800.0 | 7,245.2 | 11,819.5 | 7,243.2 | 89.5 | 89.7 | 90.00 | -4,567.3 | -605.0 | 660.6 | 481.9 | 178.72 | 3.697 | |
| 11,834.5 | 7,245.0 | 11,854.0 | 7,243.0 | 90.1 | 90.4 | 90.00 | -4,601.8 | -605.0 | 661.0 | 481.0 | 180.02 | 3.672 SF | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14) | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | Offset | Semi Major Axis | | | Distance | | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -90.02 | 0.0 | -47.6 | 47.6 | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 0.1 | -90.02 | 0.0 | -47.6 | 47.6 | 47.4 | 0.22 | 212.872 | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -90.02 | 0.0 | -47.6 | 47.6 | 46.9 | 0.67 | 70.839 | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.6 | 0.6 | -90.02 | 0.0 | -47.6 | 47.6 | 46.5 | 1.12 | 42.447 | |
| 400.0 | 400.0 | 399.0 | 399.0 | 0.8 | 0.8 | -90.02 | 0.0 | -47.6 | 47.6 | 46.0 | 1.57 | 30.302 | |
| 500.0 | 500.0 | 499.0 | 499.0 | 1.0 | 1.0 | -90.02 | 0.0 | -47.6 | 47.6 | 45.6 | 2.02 | 23.561 | |
| 600.0 | 600.0 | 599.0 | 599.0 | 1.2 | 1.2 | -90.02 | 0.0 | -47.6 | 47.6 | 45.1 | 2.47 | 19.273 | |
| 700.0 | 700.0 | 699.0 | 699.0 | 1.5 | 1.5 | -90.02 | 0.0 | -47.6 | 47.6 | 44.7 | 2.92 | 16.306 | |
| 800.0 | 800.0 | 799.0 | 799.0 | 1.7 | 1.7 | -90.02 | 0.0 | -47.6 | 47.6 | 44.2 | 3.37 | 14.130 | |
| 900.0 | 900.0 | 899.0 | 899.0 | 1.9 | 1.9 | -90.02 | 0.0 | -47.6 | 47.6 | 43.8 | 3.82 | 12.467 | |
| 1,000.0 | 1,000.0 | 999.0 | 999.0 | 2.1 | 2.1 | -90.02 | 0.0 | -47.6 | 47.6 | 43.3 | 4.27 | 11.154 CC, ES | |
| 1,100.0 | 1,100.0 | 1,097.5 | 1,097.5 | 2.4 | 2.3 | -89.22 | 0.7 | -49.1 | 49.1 | 44.4 | 4.71 | 10.442 | |
| 1,200.0 | 1,200.0 | 1,195.7 | 1,195.6 | 2.6 | 2.6 | -87.08 | 2.7 | -53.7 | 53.9 | 48.7 | 5.14 | 10.480 | |
| 1,300.0 | 1,300.0 | 1,293.5 | 1,293.0 | 2.8 | 2.8 | -84.26 | 6.2 | -61.3 | 61.9 | 56.3 | 5.58 | 11.096 | |
| 1,400.0 | 1,400.0 | 1,391.5 | 1,390.3 | 3.0 | 3.0 | -81.38 | 10.9 | -71.8 | 73.1 | 67.1 | 6.02 | 12.139 | |
| 1,500.0 | 1,500.0 | 1,490.7 | 1,488.7 | 3.3 | 3.3 | -79.13 | 15.9 | -83.0 | 85.1 | 78.6 | 6.46 | 13.166 | |
| 1,600.0 | 1,600.0 | 1,589.9 | 1,587.2 | 3.5 | 3.5 | -77.43 | 21.0 | -94.2 | 97.2 | 90.3 | 6.91 | 14.072 | |
| 1,700.0 | 1,700.0 | 1,689.1 | 1,685.7 | 3.7 | 3.8 | -76.11 | 26.1 | -105.4 | 109.4 | 102.0 | 7.35 | 14.873 | |
| 1,800.0 | 1,800.0 | 1,788.4 | 1,784.1 | 3.9 | 4.1 | -75.06 | 31.1 | -116.6 | 121.6 | 113.8 | 7.80 | 15.585 | |
| 1,900.0 | 1,900.0 | 1,887.6 | 1,882.6 | 4.2 | 4.4 | -74.20 | 36.2 | -127.8 | 133.8 | 125.6 | 8.25 | 16.220 | |
| 2,000.0 | 2,000.0 | 1,986.8 | 1,981.0 | 4.4 | 4.7 | -73.48 | 41.2 | -139.0 | 146.1 | 137.4 | 8.70 | 16.790 | |
| 2,100.0 | 2,100.0 | 2,086.1 | 2,079.5 | 4.6 | 5.0 | -72.88 | 46.3 | -150.2 | 158.4 | 149.3 | 9.15 | 17.303 | |
| 2,200.0 | 2,200.0 | 2,185.3 | 2,178.0 | 4.8 | 5.3 | -72.36 | 51.3 | -161.5 | 170.7 | 161.1 | 9.61 | 17.768 | |
| 2,300.0 | 2,300.0 | 2,284.5 | 2,276.4 | 5.1 | 5.6 | -71.91 | 56.4 | -172.7 | 183.0 | 173.0 | 10.06 | 18.191 | |
| 2,400.0 | 2,400.0 | 2,383.7 | 2,374.9 | 5.3 | 5.9 | -71.52 | 61.5 | -183.9 | 195.4 | 184.9 | 10.52 | 18.577 | |
| 2,500.0 | 2,500.0 | 2,483.0 | 2,473.4 | 5.5 | 6.2 | -71.17 | 66.5 | -195.1 | 207.7 | 196.7 | 10.97 | 18.931 | |
| 2,600.0 | 2,600.0 | 2,582.3 | 2,571.9 | 5.7 | 6.5 | -72.03 | 71.6 | -206.3 | 219.5 | 208.1 | 11.43 | 19.208 | |
| 2,700.0 | 2,699.8 | 2,681.6 | 2,670.5 | 6.0 | 6.8 | -72.77 | 76.6 | -217.5 | 230.3 | 218.4 | 11.89 | 19.375 | |
| 2,800.0 | 2,799.5 | 2,780.9 | 2,769.0 | 6.2 | 7.1 | -74.24 | 81.7 | -228.8 | 240.2 | 227.8 | 12.35 | 19.451 | |
| 2,900.0 | 2,898.7 | 2,880.0 | 2,867.3 | 6.4 | 7.4 | -76.36 | 86.8 | -240.0 | 249.5 | 236.6 | 12.82 | 19.463 | |
| 3,000.0 | 2,998.0 | 2,979.1 | 2,965.6 | 6.6 | 7.7 | -78.55 | 91.8 | -251.1 | 259.0 | 245.7 | 13.30 | 19.475 | |
| 3,100.0 | 3,097.2 | 3,078.1 | 3,063.9 | 6.9 | 8.0 | -80.58 | 96.9 | -262.3 | 268.9 | 255.1 | 13.79 | 19.496 | |
| 3,200.0 | 3,196.4 | 3,177.2 | 3,162.2 | 7.1 | 8.4 | -82.46 | 101.9 | -273.5 | 279.1 | 264.8 | 14.30 | 19.523 | |
| 3,300.0 | 3,295.7 | 3,276.3 | 3,260.6 | 7.4 | 8.7 | -84.21 | 107.0 | -284.7 | 289.6 | 274.8 | 14.81 | 19.556 | |
| 3,400.0 | 3,394.9 | 3,375.3 | 3,358.9 | 7.6 | 9.0 | -85.84 | 112.0 | -295.9 | 300.3 | 285.0 | 15.33 | 19.592 | |
| 3,500.0 | 3,494.1 | 3,474.4 | 3,457.2 | 7.9 | 9.3 | -87.35 | 117.1 | -307.1 | 311.3 | 295.4 | 15.86 | 19.631 | |
| 3,600.0 | 3,593.3 | 3,573.5 | 3,555.5 | 8.2 | 9.6 | -88.76 | 122.1 | -318.3 | 322.4 | 306.0 | 16.39 | 19.671 | |
| 3,700.0 | 3,692.6 | 3,672.6 | 3,653.8 | 8.4 | 9.9 | -90.08 | 127.2 | -329.5 | 333.8 | 316.8 | 16.93 | 19.713 | |
| 3,800.0 | 3,791.8 | 3,771.6 | 3,752.1 | 8.7 | 10.2 | -91.31 | 132.2 | -340.7 | 345.3 | 327.8 | 17.48 | 19.756 | |
| 3,900.0 | 3,891.0 | 3,870.7 | 3,850.4 | 9.0 | 10.6 | -92.46 | 137.3 | -351.9 | 356.9 | 338.9 | 18.03 | 19.799 | |
| 4,000.0 | 3,990.3 | 3,969.8 | 3,948.7 | 9.3 | 10.9 | -93.59 | 142.3 | -363.1 | 368.7 | 350.1 | 18.57 | 19.855 | |
| 4,100.0 | 4,089.9 | 4,069.1 | 4,047.2 | 9.5 | 11.2 | -94.33 | 147.4 | -374.3 | 380.3 | 361.3 | 19.05 | 19.964 | |
| 4,200.0 | 4,189.7 | 4,168.4 | 4,145.8 | 9.7 | 11.5 | -94.53 | 152.4 | -385.5 | 391.7 | 372.2 | 19.50 | 20.084 | |
| 4,300.0 | 4,289.7 | 4,267.7 | 4,244.3 | 9.8 | 11.8 | -94.22 | 157.5 | -396.8 | 402.9 | 382.9 | 19.93 | 20.217 | |
| 4,400.0 | 4,389.7 | 4,366.9 | 4,342.8 | 10.0 | 12.1 | -92.50 | 162.6 | -408.0 | 413.9 | 393.6 | 20.32 | 20.365 | |
| 4,500.0 | 4,489.7 | 4,466.2 | 4,441.3 | 10.2 | 12.5 | -91.75 | 167.6 | -419.2 | 425.0 | 404.3 | 20.76 | 20.470 | |
| 4,600.0 | 4,589.7 | 4,580.6 | 4,555.1 | 10.5 | 12.7 | -91.05 | 172.6 | -430.2 | 434.6 | 413.4 | 21.19 | 20.507 | |
| 4,700.0 | 4,689.7 | 4,696.4 | 4,670.6 | 10.7 | 13.0 | -90.63 | 175.7 | -437.1 | 440.5 | 418.9 | 21.61 | 20.385 | |
| 4,800.0 | 4,789.7 | 4,812.7 | 4,786.8 | 10.9 | 13.2 | -90.47 | 176.9 | -439.7 | 442.7 | 420.7 | 22.02 | 20.106 | |
| 4,900.0 | 4,889.7 | 4,914.5 | 4,888.7 | 11.1 | 13.3 | -90.47 | 176.9 | -439.7 | 442.8 | 420.3 | 22.42 | 19.746 | |
| 5,000.0 | 4,989.7 | 5,014.5 | 4,988.7 | 11.3 | 13.5 | -90.47 | 176.9 | -439.7 | 442.8 | 419.9 | 22.84 | 19.388 | |
| 5,100.0 | 5,089.7 | 5,114.5 | 5,088.7 | 11.5 | 13.7 | -90.47 | 176.9 | -439.7 | 442.8 | 419.5 | 23.25 | 19.042 | |

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

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14) | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-----------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 5,200.0 | 5,189.7 | 5,214.5 | 5,188.7 | 11.7 | 13.8 | -90.47 | 176.9 | -439.7 | 442.8 | 419.1 | 23.67 | 18.707 | | |
| 5,300.0 | 5,289.7 | 5,314.5 | 5,288.7 | 12.0 | 14.0 | -90.47 | 176.9 | -439.7 | 442.8 | 418.7 | 24.09 | 18.382 | | |
| 5,400.0 | 5,389.7 | 5,414.5 | 5,388.7 | 12.2 | 14.2 | -90.47 | 176.9 | -439.7 | 442.8 | 418.3 | 24.50 | 18.068 | | |
| 5,500.0 | 5,489.7 | 5,514.5 | 5,488.7 | 12.4 | 14.4 | -90.47 | 176.9 | -439.7 | 442.8 | 417.8 | 24.92 | 17.764 | | |
| 5,600.0 | 5,589.7 | 5,614.5 | 5,588.7 | 12.6 | 14.6 | -90.47 | 176.9 | -439.7 | 442.8 | 417.4 | 25.35 | 17.469 | | |
| 5,700.0 | 5,689.7 | 5,714.5 | 5,688.7 | 12.8 | 14.8 | -90.47 | 176.9 | -439.7 | 442.8 | 417.0 | 25.77 | 17.183 | | |
| 5,800.0 | 5,789.7 | 5,814.5 | 5,788.7 | 13.0 | 14.9 | -90.47 | 176.9 | -439.7 | 442.8 | 416.6 | 26.19 | 16.906 | | |
| 5,900.0 | 5,889.7 | 5,914.5 | 5,888.7 | 13.3 | 15.1 | -90.47 | 176.9 | -439.7 | 442.8 | 416.1 | 26.61 | 16.637 | | |
| 6,000.0 | 5,989.7 | 6,014.5 | 5,988.7 | 13.5 | 15.3 | -90.47 | 176.9 | -439.7 | 442.8 | 415.7 | 27.04 | 16.376 | | |
| 6,100.0 | 6,089.7 | 6,114.5 | 6,088.7 | 13.7 | 15.5 | -90.47 | 176.9 | -439.7 | 442.8 | 415.3 | 27.46 | 16.122 | | |
| 6,200.0 | 6,189.7 | 6,214.5 | 6,188.7 | 13.9 | 15.7 | -90.47 | 176.9 | -439.7 | 442.8 | 414.9 | 27.89 | 15.876 | | |
| 6,300.0 | 6,289.7 | 6,314.5 | 6,288.7 | 14.1 | 15.9 | -90.47 | 176.9 | -439.7 | 442.8 | 414.4 | 28.32 | 15.637 | | |
| 6,400.0 | 6,389.7 | 6,414.5 | 6,388.7 | 14.3 | 16.1 | -90.47 | 176.9 | -439.7 | 442.8 | 414.0 | 28.74 | 15.404 | | |
| 6,500.0 | 6,489.7 | 6,514.5 | 6,488.7 | 14.6 | 16.3 | -90.47 | 176.9 | -439.7 | 442.8 | 413.6 | 29.17 | 15.178 | | |
| 6,600.0 | 6,589.7 | 6,614.5 | 6,588.7 | 14.8 | 16.5 | -90.47 | 176.9 | -439.7 | 442.8 | 413.2 | 29.60 | 14.959 | | |
| 6,700.0 | 6,689.7 | 6,714.5 | 6,688.7 | 15.0 | 16.6 | -90.47 | 176.9 | -439.7 | 442.8 | 412.7 | 30.03 | 14.745 | | |
| 6,733.3 | 6,723.0 | 6,747.8 | 6,722.0 | 15.1 | 16.7 | 90.23 | 176.9 | -439.7 | 442.8 | 412.6 | 30.18 | 14.671 | | |
| 6,800.0 | 6,789.6 | 6,814.2 | 6,788.3 | 15.2 | 16.8 | 90.17 | 174.9 | -439.7 | 442.8 | 412.3 | 30.43 | 14.549 | | |
| 6,900.0 | 6,887.8 | 6,913.5 | 6,885.8 | 15.3 | 16.9 | 90.16 | 157.0 | -439.7 | 443.0 | 412.3 | 30.65 | 14.455 | | |
| 7,000.0 | 6,980.7 | 7,012.9 | 6,978.2 | 15.4 | 17.0 | 90.15 | 120.8 | -439.7 | 443.4 | 412.6 | 30.76 | 14.413 | | |
| 7,100.0 | 7,064.9 | 7,112.3 | 7,062.1 | 15.4 | 17.1 | 90.13 | 67.8 | -439.7 | 444.0 | 413.1 | 30.87 | 14.381 | | |
| 7,200.0 | 7,137.3 | 7,211.8 | 7,134.5 | 15.5 | 17.1 | 90.11 | -0.2 | -439.7 | 444.7 | 413.7 | 31.09 | 14.307 | | |
| 7,300.0 | 7,195.3 | 7,311.4 | 7,192.7 | 15.7 | 17.2 | 90.08 | -80.9 | -439.7 | 445.6 | 414.1 | 31.52 | 14.137 | | |
| 7,400.0 | 7,236.7 | 7,411.1 | 7,234.6 | 16.1 | 17.4 | 90.05 | -171.2 | -439.7 | 446.6 | 414.4 | 32.28 | 13.838 | | |
| 7,500.0 | 7,260.0 | 7,510.9 | 7,258.5 | 16.7 | 17.8 | 90.02 | -267.9 | -439.7 | 447.7 | 414.3 | 33.39 | 13.407 | | |
| 7,600.0 | 7,265.0 | 7,610.9 | 7,264.0 | 17.4 | 18.4 | 90.00 | -367.6 | -439.7 | 448.8 | 414.0 | 34.86 | 12.875 | | |
| 7,700.0 | 7,264.5 | 7,710.9 | 7,263.5 | 18.3 | 19.3 | 90.00 | -467.6 | -439.7 | 449.9 | 413.3 | 36.65 | 12.276 | | |
| 7,800.0 | 7,264.0 | 7,810.9 | 7,263.0 | 19.4 | 20.3 | 90.00 | -567.6 | -439.7 | 451.0 | 412.3 | 38.74 | 11.642 | | |
| 7,900.0 | 7,263.5 | 7,910.9 | 7,262.6 | 20.6 | 21.4 | 90.00 | -667.6 | -439.7 | 452.1 | 411.1 | 41.09 | 11.005 | | |
| 8,000.0 | 7,263.1 | 8,010.9 | 7,262.1 | 21.8 | 22.6 | 90.00 | -767.6 | -439.7 | 453.3 | 409.6 | 43.64 | 10.386 | | |
| 8,100.0 | 7,262.6 | 8,110.8 | 7,261.6 | 23.2 | 23.9 | 90.00 | -867.6 | -439.7 | 454.4 | 408.0 | 46.37 | 9.799 | | |
| 8,200.0 | 7,262.1 | 8,210.8 | 7,261.1 | 24.7 | 25.3 | 90.00 | -967.6 | -439.7 | 455.5 | 406.2 | 49.25 | 9.248 | | |
| 8,300.0 | 7,261.7 | 8,310.8 | 7,260.7 | 26.2 | 26.8 | 90.00 | -1,067.6 | -439.7 | 456.6 | 404.3 | 52.25 | 8.738 | | |
| 8,400.0 | 7,261.2 | 8,410.8 | 7,260.2 | 27.7 | 28.3 | 90.00 | -1,167.6 | -439.7 | 457.7 | 402.3 | 55.36 | 8.268 | | |
| 8,500.0 | 7,260.7 | 8,510.8 | 7,259.7 | 29.3 | 29.9 | 90.00 | -1,267.6 | -439.7 | 458.8 | 400.3 | 58.55 | 7.837 | | |
| 8,600.0 | 7,260.2 | 8,610.8 | 7,259.3 | 31.0 | 31.5 | 90.00 | -1,367.6 | -439.7 | 459.9 | 398.1 | 61.81 | 7.441 | | |
| 8,700.0 | 7,259.8 | 8,710.8 | 7,258.8 | 32.6 | 33.1 | 90.00 | -1,467.5 | -439.7 | 461.0 | 395.9 | 65.14 | 7.078 | | |
| 8,800.0 | 7,259.3 | 8,810.8 | 7,258.3 | 34.3 | 34.8 | 90.00 | -1,567.5 | -439.7 | 462.1 | 393.6 | 68.52 | 6.745 | | |
| 8,900.0 | 7,258.8 | 8,910.8 | 7,257.8 | 36.0 | 36.4 | 90.00 | -1,667.5 | -439.7 | 463.2 | 391.3 | 71.94 | 6.439 | | |
| 9,000.0 | 7,258.4 | 9,010.8 | 7,257.4 | 37.8 | 38.2 | 90.00 | -1,767.5 | -439.7 | 464.3 | 388.9 | 75.41 | 6.158 | | |
| 9,100.0 | 7,257.9 | 9,110.8 | 7,256.9 | 39.5 | 39.9 | 90.00 | -1,867.5 | -439.7 | 465.5 | 386.5 | 78.91 | 5.899 | | |
| 9,200.0 | 7,257.4 | 9,210.8 | 7,256.4 | 41.3 | 41.6 | 90.00 | -1,967.5 | -439.7 | 466.6 | 384.1 | 82.43 | 5.660 | | |
| 9,300.0 | 7,256.9 | 9,310.8 | 7,256.0 | 43.1 | 43.4 | 90.00 | -2,067.5 | -439.7 | 467.7 | 381.7 | 85.99 | 5.439 | | |
| 9,400.0 | 7,256.5 | 9,410.8 | 7,255.5 | 44.9 | 45.2 | 90.00 | -2,167.5 | -439.7 | 468.8 | 379.2 | 89.57 | 5.234 | | |
| 9,500.0 | 7,256.0 | 9,510.8 | 7,255.0 | 46.7 | 46.9 | 90.00 | -2,267.5 | -439.7 | 469.9 | 376.7 | 93.17 | 5.044 | | |
| 9,600.0 | 7,255.5 | 9,610.8 | 7,254.5 | 48.5 | 48.7 | 90.00 | -2,367.5 | -439.7 | 471.0 | 374.2 | 96.78 | 4.867 | | |
| 9,700.0 | 7,255.1 | 9,710.7 | 7,254.1 | 50.3 | 50.5 | 90.00 | -2,467.5 | -439.7 | 472.1 | 371.7 | 100.42 | 4.702 | | |
| 9,800.0 | 7,254.6 | 9,810.7 | 7,253.6 | 52.1 | 52.3 | 90.00 | -2,567.5 | -439.7 | 473.2 | 369.2 | 104.06 | 4.547 | | |
| 9,900.0 | 7,254.1 | 9,910.7 | 7,253.1 | 54.0 | 54.2 | 90.00 | -2,667.5 | -439.7 | 474.3 | 366.6 | 107.72 | 4.403 | | |
| 10,000.0 | 7,253.6 | 10,010.7 | 7,252.7 | 55.8 | 56.0 | 90.00 | -2,767.5 | -439.7 | 475.4 | 364.0 | 111.40 | 4.268 | | |
| 10,100.0 | 7,253.2 | 10,110.7 | 7,252.2 | 57.6 | 57.8 | 90.00 | -2,867.4 | -439.7 | 476.5 | 361.5 | 115.08 | 4.141 | | |
| 10,200.0 | 7,252.7 | 10,210.7 | 7,251.7 | 59.5 | 59.6 | 90.00 | -2,967.4 | -439.7 | 477.6 | 358.9 | 118.77 | 4.022 | | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-3N - Wellbore #1 - Plan #1 (8-29-14) | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 10,300.0 | 7,252.2 | 10,310.7 | 7,251.2 | 61.4 | 61.5 | 90.00 | -3,067.4 | -439.7 | 478.8 | 356.3 | 122.47 | 3.909 | |
| 10,400.0 | 7,251.8 | 10,410.7 | 7,250.8 | 63.2 | 63.3 | 90.00 | -3,167.4 | -439.7 | 479.9 | 353.7 | 126.18 | 3.803 | |
| 10,500.0 | 7,251.3 | 10,510.7 | 7,250.3 | 65.1 | 65.2 | 90.00 | -3,267.4 | -439.7 | 481.0 | 351.1 | 129.90 | 3.703 | |
| 10,600.0 | 7,250.8 | 10,610.7 | 7,249.8 | 66.9 | 67.0 | 90.00 | -3,367.4 | -439.7 | 482.1 | 348.5 | 133.62 | 3.608 | |
| 10,700.0 | 7,250.3 | 10,710.7 | 7,249.4 | 68.8 | 68.9 | 90.00 | -3,467.4 | -439.7 | 483.2 | 345.8 | 137.35 | 3.518 | |
| 10,800.0 | 7,249.9 | 10,810.7 | 7,248.9 | 70.7 | 70.7 | 90.00 | -3,567.4 | -439.7 | 484.3 | 343.2 | 141.08 | 3.433 | |
| 10,900.0 | 7,249.4 | 10,910.7 | 7,248.4 | 72.5 | 72.6 | 90.00 | -3,667.4 | -439.7 | 485.4 | 340.6 | 144.82 | 3.352 | |
| 11,000.0 | 7,248.9 | 11,010.7 | 7,247.9 | 74.4 | 74.5 | 90.00 | -3,767.4 | -439.7 | 486.5 | 338.0 | 148.57 | 3.275 | |
| 11,100.0 | 7,248.5 | 11,110.7 | 7,247.5 | 76.3 | 76.3 | 90.00 | -3,867.4 | -439.7 | 487.6 | 335.3 | 152.32 | 3.201 | |
| 11,200.0 | 7,248.0 | 11,210.7 | 7,247.0 | 78.2 | 78.2 | 90.00 | -3,967.4 | -439.7 | 488.7 | 332.7 | 156.07 | 3.132 | |
| 11,300.0 | 7,247.5 | 11,310.6 | 7,246.5 | 80.1 | 80.1 | 90.00 | -4,067.4 | -439.7 | 489.8 | 330.0 | 159.83 | 3.065 | |
| 11,400.0 | 7,247.0 | 11,410.6 | 7,246.1 | 81.9 | 81.9 | 90.00 | -4,167.4 | -439.7 | 491.0 | 327.4 | 163.59 | 3.001 | |
| 11,500.0 | 7,246.6 | 11,510.6 | 7,245.6 | 83.8 | 83.8 | 90.00 | -4,267.3 | -439.7 | 492.1 | 324.7 | 167.35 | 2.940 | |
| 11,600.0 | 7,246.1 | 11,610.6 | 7,245.1 | 85.7 | 85.7 | 90.00 | -4,367.3 | -439.7 | 493.2 | 322.1 | 171.12 | 2.882 | |
| 11,700.0 | 7,245.6 | 11,710.6 | 7,244.6 | 87.6 | 87.6 | 90.00 | -4,467.3 | -439.7 | 494.3 | 319.4 | 174.89 | 2.826 | |
| 11,800.0 | 7,245.2 | 11,810.6 | 7,244.2 | 89.5 | 89.5 | 90.00 | -4,567.3 | -439.7 | 495.4 | 316.7 | 178.66 | 2.773 | |
| 11,834.5 | 7,245.0 | 11,845.1 | 7,244.0 | 90.1 | 90.1 | 90.00 | -4,601.8 | -439.7 | 495.8 | 315.8 | 179.96 | 2.755 SF | |

| Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14) | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|----------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -90.00 | 0.0 | -30.8 | 30.8 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 0.1 | -90.00 | 0.0 | -30.8 | 30.8 | 30.6 | 0.22 | 137.741 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -90.00 | 0.0 | -30.8 | 30.8 | 30.1 | 0.67 | 45.837 | | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.6 | 0.6 | -90.00 | 0.0 | -30.8 | 30.8 | 29.7 | 1.12 | 27.466 | | |
| 400.0 | 400.0 | 399.0 | 399.0 | 0.8 | 0.8 | -90.00 | 0.0 | -30.8 | 30.8 | 29.2 | 1.57 | 19.607 | | |
| 500.0 | 500.0 | 499.0 | 499.0 | 1.0 | 1.0 | -90.00 | 0.0 | -30.8 | 30.8 | 28.8 | 2.02 | 15.245 | | |
| 600.0 | 600.0 | 599.0 | 599.0 | 1.2 | 1.2 | -90.00 | 0.0 | -30.8 | 30.8 | 28.3 | 2.47 | 12.471 | | |
| 700.0 | 700.0 | 699.0 | 699.0 | 1.5 | 1.5 | -90.00 | 0.0 | -30.8 | 30.8 | 27.9 | 2.92 | 10.551 | | |
| 800.0 | 800.0 | 799.0 | 799.0 | 1.7 | 1.7 | -90.00 | 0.0 | -30.8 | 30.8 | 27.4 | 3.37 | 9.143 | | |
| 900.0 | 900.0 | 899.0 | 899.0 | 1.9 | 1.9 | -90.00 | 0.0 | -30.8 | 30.8 | 27.0 | 3.82 | 8.067 | | |
| 1,000.0 | 1,000.0 | 999.0 | 999.0 | 2.1 | 2.1 | -90.00 | 0.0 | -30.8 | 30.8 | 26.5 | 4.27 | 7.217 | | |
| 1,100.0 | 1,100.0 | 1,099.0 | 1,099.0 | 2.4 | 2.4 | -90.00 | 0.0 | -30.8 | 30.8 | 26.1 | 4.72 | 6.529 | | |
| 1,200.0 | 1,200.0 | 1,199.0 | 1,199.0 | 2.6 | 2.6 | -90.00 | 0.0 | -30.8 | 30.8 | 25.6 | 5.17 | 5.961 | | |
| 1,300.0 | 1,300.0 | 1,299.0 | 1,299.0 | 2.8 | 2.8 | -90.00 | 0.0 | -30.8 | 30.8 | 25.2 | 5.62 | 5.484 | | |
| 1,400.0 | 1,400.0 | 1,399.0 | 1,399.0 | 3.0 | 3.0 | -90.00 | 0.0 | -30.8 | 30.8 | 24.7 | 6.07 | 5.078 | CC, ES | |
| 1,500.0 | 1,500.0 | 1,498.1 | 1,498.1 | 3.3 | 3.3 | -88.22 | 1.0 | -32.2 | 32.2 | 25.7 | 6.51 | 4.945 | | |
| 1,600.0 | 1,600.0 | 1,597.0 | 1,596.8 | 3.5 | 3.5 | -83.66 | 4.0 | -36.2 | 36.5 | 29.6 | 6.95 | 5.259 | | |
| 1,700.0 | 1,700.0 | 1,695.4 | 1,694.9 | 3.7 | 3.7 | -78.12 | 9.1 | -43.0 | 44.2 | 36.8 | 7.39 | 5.980 | | |
| 1,800.0 | 1,800.0 | 1,793.8 | 1,792.6 | 3.9 | 3.9 | -73.07 | 15.9 | -52.3 | 55.0 | 47.2 | 7.83 | 7.029 | | |
| 1,900.0 | 1,900.0 | 1,893.1 | 1,891.1 | 4.2 | 4.2 | -69.53 | 23.2 | -62.1 | 66.8 | 58.5 | 8.27 | 8.071 | | |
| 2,000.0 | 2,000.0 | 1,992.3 | 1,989.6 | 4.4 | 4.4 | -67.05 | 30.5 | -71.9 | 78.7 | 69.9 | 8.72 | 9.025 | | |
| 2,100.0 | 2,100.0 | 2,091.5 | 2,088.1 | 4.6 | 4.7 | -65.23 | 37.7 | -81.7 | 90.7 | 81.5 | 9.16 | 9.896 | | |
| 2,200.0 | 2,200.0 | 2,190.8 | 2,186.6 | 4.8 | 5.0 | -63.83 | 45.0 | -91.5 | 102.8 | 93.1 | 9.61 | 10.693 | | |
| 2,300.0 | 2,300.0 | 2,290.0 | 2,285.0 | 5.1 | 5.2 | -62.73 | 52.3 | -101.3 | 114.9 | 104.8 | 10.06 | 11.421 | | |
| 2,400.0 | 2,400.0 | 2,389.3 | 2,383.5 | 5.3 | 5.5 | -61.83 | 59.5 | -111.2 | 127.0 | 116.5 | 10.51 | 12.090 | | |
| 2,500.0 | 2,500.0 | 2,488.5 | 2,482.0 | 5.5 | 5.8 | -61.10 | 66.8 | -121.0 | 139.2 | 128.3 | 10.96 | 12.704 | | |
| 2,600.0 | 2,600.0 | 2,587.8 | 2,580.6 | 5.7 | 6.1 | -61.82 | 74.1 | -130.8 | 150.6 | 139.2 | 11.41 | 13.199 | | |
| 2,700.0 | 2,699.8 | 2,687.3 | 2,679.3 | 6.0 | 6.4 | -62.72 | 81.3 | -140.6 | 160.4 | 148.5 | 11.86 | 13.519 | | |
| 2,800.0 | 2,799.5 | 2,786.8 | 2,778.1 | 6.2 | 6.7 | -64.59 | 88.6 | -150.5 | 168.7 | 156.4 | 12.32 | 13.695 | | |
| 2,900.0 | 2,898.7 | 2,886.2 | 2,876.7 | 6.4 | 7.0 | -67.28 | 95.9 | -160.3 | 175.9 | 163.2 | 12.78 | 13.763 | | |
| 3,000.0 | 2,998.0 | 2,985.5 | 2,975.3 | 6.6 | 7.3 | -69.98 | 103.2 | -170.1 | 183.4 | 170.1 | 13.27 | 13.825 | | |
| 3,100.0 | 3,097.2 | 3,084.9 | 3,073.9 | 6.9 | 7.6 | -72.47 | 110.5 | -179.9 | 191.2 | 177.5 | 13.76 | 13.899 | | |
| 3,200.0 | 3,196.4 | 3,184.3 | 3,172.5 | 7.1 | 7.9 | -74.76 | 117.7 | -189.8 | 199.4 | 185.1 | 14.26 | 13.980 | | |
| 3,300.0 | 3,295.7 | 3,283.6 | 3,271.1 | 7.4 | 8.2 | -76.87 | 125.0 | -199.6 | 207.8 | 193.0 | 14.77 | 14.066 | | |
| 3,400.0 | 3,394.9 | 3,383.0 | 3,369.7 | 7.6 | 8.5 | -78.81 | 132.3 | -209.4 | 216.5 | 201.2 | 15.30 | 14.156 | | |
| 3,500.0 | 3,494.1 | 3,482.4 | 3,468.3 | 7.9 | 8.8 | -80.60 | 139.6 | -219.2 | 225.5 | 209.6 | 15.83 | 14.246 | | |
| 3,600.0 | 3,593.3 | 3,581.7 | 3,566.9 | 8.2 | 9.1 | -82.25 | 146.8 | -229.0 | 234.6 | 218.2 | 16.36 | 14.336 | | |
| 3,700.0 | 3,692.6 | 3,681.1 | 3,665.5 | 8.4 | 9.4 | -83.78 | 154.1 | -238.9 | 243.9 | 227.0 | 16.91 | 14.426 | | |
| 3,800.0 | 3,791.8 | 3,780.4 | 3,764.1 | 8.7 | 9.7 | -85.19 | 161.4 | -248.7 | 253.4 | 235.9 | 17.46 | 14.515 | | |
| 3,900.0 | 3,891.0 | 3,881.1 | 3,864.0 | 9.0 | 10.0 | -86.53 | 168.7 | -258.6 | 263.0 | 245.0 | 18.01 | 14.600 | | |
| 4,000.0 | 3,990.3 | 3,989.0 | 3,971.4 | 9.3 | 10.3 | -88.14 | 175.1 | -267.1 | 270.7 | 252.2 | 18.53 | 14.607 | | |
| 4,100.0 | 4,089.9 | 4,097.2 | 4,079.4 | 9.5 | 10.5 | -89.52 | 179.0 | -272.4 | 275.6 | 256.6 | 18.98 | 14.520 | | |
| 4,200.0 | 4,189.7 | 4,205.6 | 4,187.7 | 9.7 | 10.7 | -90.51 | 180.5 | -274.5 | 277.4 | 258.1 | 19.39 | 14.311 | | |
| 4,300.0 | 4,289.7 | 4,306.5 | 4,288.7 | 9.8 | 10.8 | -90.95 | 180.5 | -274.5 | 277.5 | 257.7 | 19.76 | 14.042 | | |
| 4,400.0 | 4,389.7 | 4,406.5 | 4,388.7 | 10.0 | 11.0 | -90.00 | 180.5 | -274.5 | 277.5 | 257.4 | 20.14 | 13.779 | | |
| 4,500.0 | 4,489.7 | 4,506.5 | 4,488.7 | 10.2 | 11.2 | -90.00 | 180.5 | -274.5 | 277.5 | 256.9 | 20.56 | 13.499 | | |
| 4,600.0 | 4,589.7 | 4,606.5 | 4,588.7 | 10.5 | 11.4 | -90.00 | 180.5 | -274.5 | 277.5 | 256.5 | 20.97 | 13.230 | | |
| 4,700.0 | 4,689.7 | 4,706.5 | 4,688.7 | 10.7 | 11.6 | -90.00 | 180.5 | -274.5 | 277.5 | 256.1 | 21.39 | 12.971 | | |
| 4,800.0 | 4,789.7 | 4,806.5 | 4,788.7 | 10.9 | 11.8 | -90.00 | 180.5 | -274.5 | 277.5 | 255.7 | 21.81 | 12.721 | | |
| 4,900.0 | 4,889.7 | 4,906.5 | 4,888.7 | 11.1 | 12.0 | -90.00 | 180.5 | -274.5 | 277.5 | 255.3 | 22.24 | 12.479 | | |
| 5,000.0 | 4,989.7 | 5,006.5 | 4,988.7 | 11.3 | 12.2 | -90.00 | 180.5 | -274.5 | 277.5 | 254.8 | 22.66 | 12.247 | | |
| 5,100.0 | 5,089.7 | 5,106.5 | 5,088.7 | 11.5 | 12.4 | -90.00 | 180.5 | -274.5 | 277.5 | 254.4 | 23.08 | 12.022 | | |

COMPASS 2003.21 Build 46

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 5,200.0 | 5,189.7 | 5,206.5 | 5,188.7 | 11.7 | 12.6 | -90.00 | 180.5 | -274.5 | 277.5 | 254.0 | 23.51 | 11.805 | |
| 5,300.0 | 5,289.7 | 5,306.5 | 5,288.7 | 12.0 | 12.8 | -90.00 | 180.5 | -274.5 | 277.5 | 253.6 | 23.93 | 11.595 | |
| 5,400.0 | 5,389.7 | 5,406.5 | 5,388.7 | 12.2 | 13.0 | -90.00 | 180.5 | -274.5 | 277.5 | 253.1 | 24.36 | 11.392 | |
| 5,500.0 | 5,489.7 | 5,506.5 | 5,488.7 | 12.4 | 13.2 | -90.00 | 180.5 | -274.5 | 277.5 | 252.7 | 24.79 | 11.195 | |
| 5,600.0 | 5,589.7 | 5,606.5 | 5,588.7 | 12.6 | 13.4 | -90.00 | 180.5 | -274.5 | 277.5 | 252.3 | 25.21 | 11.005 | |
| 5,700.0 | 5,689.7 | 5,706.5 | 5,688.7 | 12.8 | 13.6 | -90.00 | 180.5 | -274.5 | 277.5 | 251.8 | 25.64 | 10.821 | |
| 5,800.0 | 5,789.7 | 5,806.5 | 5,788.7 | 13.0 | 13.8 | -90.00 | 180.5 | -274.5 | 277.5 | 251.4 | 26.07 | 10.643 | |
| 5,900.0 | 5,889.7 | 5,906.5 | 5,888.7 | 13.3 | 14.0 | -90.00 | 180.5 | -274.5 | 277.5 | 251.0 | 26.50 | 10.470 | |
| 6,000.0 | 5,989.7 | 6,006.5 | 5,988.7 | 13.5 | 14.2 | -90.00 | 180.5 | -274.5 | 277.5 | 250.6 | 26.93 | 10.303 | |
| 6,100.0 | 6,089.7 | 6,106.5 | 6,088.7 | 13.7 | 14.4 | -90.00 | 180.5 | -274.5 | 277.5 | 250.1 | 27.37 | 10.140 | |
| 6,200.0 | 6,189.7 | 6,206.5 | 6,188.7 | 13.9 | 14.6 | -90.00 | 180.5 | -274.5 | 277.5 | 249.7 | 27.80 | 9.983 | |
| 6,300.0 | 6,289.7 | 6,306.5 | 6,288.7 | 14.1 | 14.8 | -90.00 | 180.5 | -274.5 | 277.5 | 249.3 | 28.23 | 9.830 | |
| 6,400.0 | 6,389.7 | 6,406.5 | 6,388.7 | 14.3 | 15.0 | -90.00 | 180.5 | -274.5 | 277.5 | 248.8 | 28.66 | 9.681 | |
| 6,500.0 | 6,489.7 | 6,506.5 | 6,488.7 | 14.6 | 15.2 | -90.00 | 180.5 | -274.5 | 277.5 | 248.4 | 29.10 | 9.537 | |
| 6,600.0 | 6,589.7 | 6,606.5 | 6,588.7 | 14.8 | 15.5 | -90.00 | 180.5 | -274.5 | 277.5 | 248.0 | 29.53 | 9.397 | |
| 6,700.0 | 6,689.7 | 6,706.5 | 6,688.7 | 15.0 | 15.7 | -90.00 | 180.5 | -274.5 | 277.5 | 247.5 | 29.97 | 9.260 | |
| 6,733.3 | 6,723.0 | 6,739.8 | 6,722.0 | 15.1 | 15.7 | 90.73 | 180.5 | -274.5 | 277.5 | 247.4 | 30.11 | 9.216 | |
| 6,800.0 | 6,789.6 | 6,806.5 | 6,788.6 | 15.2 | 15.9 | 90.63 | 178.5 | -274.5 | 277.5 | 247.1 | 30.37 | 9.138 | |
| 6,900.0 | 6,887.8 | 6,906.5 | 6,886.8 | 15.3 | 16.0 | 90.61 | 160.3 | -274.5 | 277.7 | 247.1 | 30.58 | 9.082 | |
| 7,000.0 | 6,980.7 | 7,006.5 | 6,979.7 | 15.4 | 16.0 | 90.57 | 123.7 | -274.5 | 278.1 | 247.4 | 30.69 | 9.061 | |
| 7,100.0 | 7,064.9 | 7,106.5 | 7,063.9 | 15.4 | 16.1 | 90.50 | 70.1 | -274.5 | 278.7 | 247.9 | 30.80 | 9.050 | |
| 7,200.0 | 7,137.3 | 7,206.5 | 7,136.3 | 15.5 | 16.2 | 90.42 | 1.3 | -274.5 | 279.5 | 248.5 | 31.01 | 9.013 | |
| 7,300.0 | 7,195.3 | 7,306.5 | 7,194.3 | 15.7 | 16.2 | 90.32 | -79.9 | -274.5 | 280.4 | 248.9 | 31.45 | 8.916 | |
| 7,400.0 | 7,236.7 | 7,406.5 | 7,235.7 | 16.1 | 16.5 | 90.21 | -170.8 | -274.5 | 281.4 | 249.2 | 32.20 | 8.738 | |
| 7,500.0 | 7,260.0 | 7,506.5 | 7,259.0 | 16.7 | 17.0 | 90.09 | -267.9 | -274.5 | 282.5 | 249.1 | 33.33 | 8.476 | |
| 7,600.0 | 7,265.0 | 7,606.5 | 7,263.9 | 17.4 | 17.7 | 90.00 | -367.6 | -274.5 | 283.6 | 248.8 | 34.80 | 8.149 | |
| 7,700.0 | 7,264.5 | 7,706.5 | 7,263.5 | 18.3 | 18.6 | 90.00 | -467.6 | -274.5 | 284.7 | 248.1 | 36.60 | 7.779 | |
| 7,800.0 | 7,264.0 | 7,806.5 | 7,263.0 | 19.4 | 19.6 | 90.00 | -567.6 | -274.5 | 285.8 | 247.1 | 38.69 | 7.386 | |
| 7,900.0 | 7,263.5 | 7,906.4 | 7,262.5 | 20.6 | 20.8 | 90.00 | -667.6 | -274.5 | 286.9 | 245.9 | 41.04 | 6.990 | |
| 8,000.0 | 7,263.1 | 8,006.4 | 7,262.1 | 21.8 | 22.0 | 90.00 | -767.6 | -274.5 | 288.0 | 244.4 | 43.60 | 6.606 | |
| 8,100.0 | 7,262.6 | 8,106.4 | 7,261.6 | 23.2 | 23.4 | 90.00 | -867.6 | -274.5 | 289.1 | 242.8 | 46.34 | 6.239 | |
| 8,200.0 | 7,262.1 | 8,206.4 | 7,261.1 | 24.7 | 24.8 | 90.00 | -967.6 | -274.5 | 290.2 | 241.0 | 49.22 | 5.896 | |
| 8,300.0 | 7,261.7 | 8,306.4 | 7,260.7 | 26.2 | 26.3 | 90.00 | -1,067.6 | -274.5 | 291.3 | 239.1 | 52.22 | 5.578 | |
| 8,400.0 | 7,261.2 | 8,406.4 | 7,260.2 | 27.7 | 27.9 | 90.00 | -1,167.6 | -274.5 | 292.4 | 237.1 | 55.33 | 5.285 | |
| 8,500.0 | 7,260.7 | 8,506.4 | 7,259.7 | 29.3 | 29.4 | 90.00 | -1,267.6 | -274.5 | 293.5 | 235.0 | 58.53 | 5.016 | |
| 8,600.0 | 7,260.2 | 8,606.4 | 7,259.2 | 31.0 | 31.1 | 90.00 | -1,367.6 | -274.5 | 294.7 | 232.9 | 61.79 | 4.768 | |
| 8,700.0 | 7,259.8 | 8,706.4 | 7,258.8 | 32.6 | 32.7 | 90.00 | -1,467.5 | -274.5 | 295.8 | 230.6 | 65.12 | 4.542 | |
| 8,800.0 | 7,259.3 | 8,806.4 | 7,258.3 | 34.3 | 34.4 | 90.00 | -1,567.5 | -274.5 | 296.9 | 228.4 | 68.51 | 4.334 | |
| 8,900.0 | 7,258.8 | 8,906.4 | 7,257.8 | 36.0 | 36.1 | 90.00 | -1,667.5 | -274.5 | 298.0 | 226.0 | 71.93 | 4.142 | |
| 9,000.0 | 7,258.4 | 9,006.4 | 7,257.4 | 37.8 | 37.8 | 90.00 | -1,767.5 | -274.5 | 299.1 | 223.7 | 75.40 | 3.967 | |
| 9,100.0 | 7,257.9 | 9,106.4 | 7,256.9 | 39.5 | 39.6 | 90.00 | -1,867.5 | -274.5 | 300.2 | 221.3 | 78.90 | 3.805 | |
| 9,200.0 | 7,257.4 | 9,206.4 | 7,256.4 | 41.3 | 41.3 | 90.00 | -1,967.5 | -274.5 | 301.3 | 218.9 | 82.43 | 3.655 | |
| 9,300.0 | 7,256.9 | 9,306.4 | 7,255.9 | 43.1 | 43.1 | 90.00 | -2,067.5 | -274.5 | 302.4 | 216.4 | 85.99 | 3.517 | |
| 9,400.0 | 7,256.5 | 9,406.4 | 7,255.5 | 44.9 | 44.9 | 90.00 | -2,167.5 | -274.5 | 303.5 | 214.0 | 89.57 | 3.389 | |
| 9,500.0 | 7,256.0 | 9,506.3 | 7,255.0 | 46.7 | 46.7 | 90.00 | -2,267.5 | -274.5 | 304.6 | 211.5 | 93.17 | 3.270 | |
| 9,600.0 | 7,255.5 | 9,606.3 | 7,254.5 | 48.5 | 48.5 | 90.00 | -2,367.5 | -274.5 | 305.7 | 209.0 | 96.78 | 3.159 | |
| 9,700.0 | 7,255.1 | 9,706.3 | 7,254.1 | 50.3 | 50.3 | 90.00 | -2,467.5 | -274.5 | 306.9 | 206.4 | 100.42 | 3.056 | |
| 9,800.0 | 7,254.6 | 9,806.3 | 7,253.6 | 52.1 | 52.1 | 90.00 | -2,567.5 | -274.5 | 308.0 | 203.9 | 104.07 | 2.959 | |
| 9,900.0 | 7,254.1 | 9,906.3 | 7,253.1 | 54.0 | 53.9 | 90.00 | -2,667.5 | -274.5 | 309.1 | 201.3 | 107.73 | 2.869 | |
| 10,000.0 | 7,253.6 | 10,006.3 | 7,252.6 | 55.8 | 55.8 | 90.00 | -2,767.5 | -274.5 | 310.2 | 198.8 | 111.40 | 2.784 | |
| 10,100.0 | 7,253.2 | 10,106.3 | 7,252.2 | 57.6 | 57.6 | 90.00 | -2,867.4 | -274.5 | 311.3 | 196.2 | 115.08 | 2.705 | |
| 10,200.0 | 7,252.7 | 10,206.3 | 7,251.7 | 59.5 | 59.4 | 90.00 | -2,967.4 | -274.5 | 312.4 | 193.6 | 118.78 | 2.630 | |

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

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-4N - Wellbore #1 - Plan #1 (8-29-14) | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 10,300.0 | 7,252.2 | 10,306.3 | 7,251.2 | 61.4 | 61.3 | 90.00 | -3,067.4 | -274.5 | 313.5 | 191.0 | 122.48 | 2.560 | |
| 10,400.0 | 7,251.8 | 10,406.3 | 7,250.8 | 63.2 | 63.1 | 90.00 | -3,167.4 | -274.5 | 314.6 | 188.4 | 126.19 | 2.493 | |
| 10,500.0 | 7,251.3 | 10,506.3 | 7,250.3 | 65.1 | 65.0 | 90.00 | -3,267.4 | -274.5 | 315.7 | 185.8 | 129.91 | 2.430 | |
| 10,600.0 | 7,250.8 | 10,606.3 | 7,249.8 | 66.9 | 66.8 | 90.00 | -3,367.4 | -274.5 | 316.8 | 183.2 | 133.63 | 2.371 | |
| 10,700.0 | 7,250.3 | 10,706.3 | 7,249.3 | 68.8 | 68.7 | 90.00 | -3,467.4 | -274.5 | 317.9 | 180.6 | 137.36 | 2.315 | |
| 10,800.0 | 7,249.9 | 10,806.3 | 7,248.9 | 70.7 | 70.6 | 90.00 | -3,567.4 | -274.5 | 319.0 | 178.0 | 141.09 | 2.261 | |
| 10,900.0 | 7,249.4 | 10,906.3 | 7,248.4 | 72.5 | 72.4 | 90.00 | -3,667.4 | -274.5 | 320.2 | 175.3 | 144.83 | 2.210 | |
| 11,000.0 | 7,248.9 | 11,006.3 | 7,247.9 | 74.4 | 74.3 | 90.00 | -3,767.4 | -274.5 | 321.3 | 172.7 | 148.58 | 2.162 | |
| 11,100.0 | 7,248.5 | 11,106.3 | 7,247.5 | 76.3 | 76.2 | 90.00 | -3,867.4 | -274.5 | 322.4 | 170.0 | 152.33 | 2.116 | |
| 11,200.0 | 7,248.0 | 11,206.2 | 7,247.0 | 78.2 | 78.0 | 90.00 | -3,967.4 | -274.5 | 323.5 | 167.4 | 156.08 | 2.072 | |
| 11,300.0 | 7,247.5 | 11,306.2 | 7,246.5 | 80.1 | 79.9 | 90.00 | -4,067.4 | -274.5 | 324.6 | 164.8 | 159.84 | 2.031 | |
| 11,400.0 | 7,247.0 | 11,406.2 | 7,246.0 | 81.9 | 81.8 | 90.00 | -4,167.4 | -274.5 | 325.7 | 162.1 | 163.60 | 1.991 | |
| 11,500.0 | 7,246.6 | 11,506.2 | 7,245.6 | 83.8 | 83.7 | 90.00 | -4,267.3 | -274.5 | 326.8 | 159.4 | 167.37 | 1.953 | |
| 11,600.0 | 7,246.1 | 11,606.2 | 7,245.1 | 85.7 | 85.6 | 90.00 | -4,367.3 | -274.5 | 327.9 | 156.8 | 171.13 | 1.916 | |
| 11,700.0 | 7,245.6 | 11,706.2 | 7,244.6 | 87.6 | 87.4 | 90.00 | -4,467.3 | -274.5 | 329.0 | 154.1 | 174.91 | 1.881 | |
| 11,800.0 | 7,245.2 | 11,806.2 | 7,244.2 | 89.5 | 89.3 | 90.00 | -4,567.3 | -274.5 | 330.1 | 151.5 | 178.68 | 1.848 | |
| 11,834.5 | 7,245.0 | 11,839.8 | 7,244.0 | 90.1 | 90.0 | 90.00 | -4,601.0 | -274.5 | 330.5 | 150.6 | 179.96 | 1.837 SF | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -90.00 | 0.0 | -16.8 | 16.8 | 16.8 | 0.00 | N/A | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -90.00 | 0.0 | -16.8 | 16.8 | 16.6 | 0.22 | 74.756 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -90.00 | 0.0 | -16.8 | 16.8 | 16.1 | 0.67 | 24.919 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | -90.00 | 0.0 | -16.8 | 16.8 | 15.7 | 1.12 | 14.951 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | -90.00 | 0.0 | -16.8 | 16.8 | 15.2 | 1.57 | 10.679 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -90.00 | 0.0 | -16.8 | 16.8 | 14.8 | 2.02 | 8.306 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.2 | 1.2 | -90.00 | 0.0 | -16.8 | 16.8 | 14.3 | 2.47 | 6.796 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.5 | 1.5 | -90.00 | 0.0 | -16.8 | 16.8 | 13.9 | 2.92 | 5.750 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.7 | 1.7 | -90.00 | 0.0 | -16.8 | 16.8 | 13.4 | 3.37 | 4.984 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 1.9 | 1.9 | -90.00 | 0.0 | -16.8 | 16.8 | 13.0 | 3.82 | 4.397 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 2.1 | 2.1 | -90.00 | 0.0 | -16.8 | 16.8 | 12.5 | 4.27 | 3.935 | |
| 1,100.0 | 1,100.0 | 1,100.0 | 1,100.0 | 2.4 | 2.4 | -90.00 | 0.0 | -16.8 | 16.8 | 12.1 | 4.72 | 3.560 | |
| 1,200.0 | 1,200.0 | 1,200.0 | 1,200.0 | 2.6 | 2.6 | -90.00 | 0.0 | -16.8 | 16.8 | 11.6 | 5.17 | 3.250 | |
| 1,300.0 | 1,300.0 | 1,300.0 | 1,300.0 | 2.8 | 2.8 | -90.00 | 0.0 | -16.8 | 16.8 | 11.2 | 5.62 | 2.990 | |
| 1,400.0 | 1,400.0 | 1,400.0 | 1,400.0 | 3.0 | 3.0 | -90.00 | 0.0 | -16.8 | 16.8 | 10.7 | 6.07 | 2.769 | |
| 1,500.0 | 1,500.0 | 1,500.0 | 1,500.0 | 3.3 | 3.3 | -90.00 | 0.0 | -16.8 | 16.8 | 10.3 | 6.52 | 2.578 | |
| 1,600.0 | 1,600.0 | 1,600.0 | 1,600.0 | 3.5 | 3.5 | -90.00 | 0.0 | -16.8 | 16.8 | 9.8 | 6.97 | 2.411 CC, ES | |
| 1,700.0 | 1,700.0 | 1,699.8 | 1,699.8 | 3.7 | 3.7 | -86.19 | 1.2 | -17.4 | 17.4 | 10.0 | 7.41 | 2.352 | |
| 1,800.0 | 1,800.0 | 1,799.4 | 1,799.3 | 3.9 | 3.9 | -76.42 | 4.6 | -19.2 | 19.7 | 11.9 | 7.86 | 2.511 | |
| 1,900.0 | 1,900.0 | 1,898.8 | 1,898.5 | 4.2 | 4.2 | -64.83 | 10.4 | -22.1 | 24.5 | 16.2 | 8.31 | 2.949 | |
| 2,000.0 | 2,000.0 | 1,997.8 | 1,997.0 | 4.4 | 4.4 | -54.93 | 18.4 | -26.2 | 32.2 | 23.4 | 8.75 | 3.677 | |
| 2,100.0 | 2,100.0 | 2,096.8 | 2,095.5 | 4.6 | 4.6 | -47.87 | 28.3 | -31.3 | 42.4 | 33.2 | 9.20 | 4.613 | |
| 2,200.0 | 2,200.0 | 2,196.1 | 2,194.1 | 4.8 | 4.9 | -43.51 | 38.4 | -36.5 | 53.3 | 43.7 | 9.65 | 5.524 | |
| 2,300.0 | 2,300.0 | 2,295.5 | 2,292.8 | 5.1 | 5.1 | -40.64 | 48.5 | -41.7 | 64.4 | 54.3 | 10.10 | 6.373 | |
| 2,400.0 | 2,400.0 | 2,394.8 | 2,391.5 | 5.3 | 5.4 | -38.61 | 58.6 | -46.8 | 75.5 | 65.0 | 10.55 | 7.160 | |
| 2,500.0 | 2,500.0 | 2,494.2 | 2,490.2 | 5.5 | 5.6 | -37.11 | 68.8 | -52.0 | 86.8 | 75.8 | 11.00 | 7.888 | |
| 2,600.0 | 2,600.0 | 2,593.7 | 2,589.1 | 5.7 | 5.9 | -37.40 | 78.9 | -57.2 | 96.7 | 85.2 | 11.45 | 8.443 | |
| 2,700.0 | 2,699.8 | 2,693.4 | 2,688.2 | 6.0 | 6.2 | -38.04 | 89.0 | -62.4 | 103.8 | 91.9 | 11.90 | 8.728 | |
| 2,800.0 | 2,799.5 | 2,793.2 | 2,787.3 | 6.2 | 6.4 | -39.77 | 99.2 | -67.6 | 108.3 | 95.9 | 12.34 | 8.777 | |
| 2,900.0 | 2,898.7 | 2,893.1 | 2,886.5 | 6.4 | 6.7 | -42.48 | 109.4 | -72.8 | 110.5 | 97.7 | 12.79 | 8.639 | |
| 3,000.0 | 2,998.0 | 2,992.9 | 2,985.7 | 6.6 | 7.0 | -45.30 | 119.5 | -78.0 | 112.6 | 99.3 | 13.27 | 8.485 | |
| 3,100.0 | 3,097.2 | 3,092.7 | 3,084.9 | 6.9 | 7.3 | -48.00 | 129.7 | -83.2 | 114.9 | 101.1 | 13.75 | 8.356 | |
| 3,200.0 | 3,196.4 | 3,192.6 | 3,184.0 | 7.1 | 7.6 | -50.60 | 139.8 | -88.4 | 117.5 | 103.2 | 14.24 | 8.247 | |
| 3,300.0 | 3,295.7 | 3,292.4 | 3,283.2 | 7.4 | 7.9 | -53.08 | 150.0 | -93.6 | 120.3 | 105.5 | 14.75 | 8.155 | |
| 3,400.0 | 3,394.9 | 3,392.8 | 3,383.0 | 7.6 | 8.1 | -55.46 | 160.2 | -98.8 | 123.2 | 108.0 | 15.25 | 8.078 | |
| 3,500.0 | 3,494.1 | 3,495.5 | 3,485.2 | 7.9 | 8.4 | -58.21 | 168.9 | -103.3 | 124.8 | 109.1 | 15.74 | 7.933 | |
| 3,600.0 | 3,593.3 | 3,598.1 | 3,587.6 | 8.2 | 8.6 | -61.57 | 175.2 | -106.5 | 124.5 | 108.2 | 16.23 | 7.669 | |
| 3,700.0 | 3,692.6 | 3,700.4 | 3,689.8 | 8.4 | 8.8 | -65.69 | 179.1 | -108.5 | 122.4 | 105.6 | 16.74 | 7.311 | |
| 3,800.0 | 3,791.8 | 3,802.3 | 3,791.6 | 8.7 | 8.9 | -70.79 | 180.5 | -109.2 | 118.9 | 101.7 | 17.26 | 6.891 | |
| 3,900.0 | 3,891.0 | 3,901.7 | 3,891.0 | 9.0 | 9.1 | -76.59 | 180.5 | -109.2 | 115.4 | 97.6 | 17.80 | 6.483 | |
| 4,000.0 | 3,990.3 | 4,001.0 | 3,990.3 | 9.3 | 9.3 | -82.47 | 180.5 | -109.2 | 113.2 | 94.9 | 18.35 | 6.170 | |
| 4,100.0 | 4,089.9 | 4,100.5 | 4,089.9 | 9.5 | 9.5 | -87.02 | 180.5 | -109.2 | 112.4 | 93.6 | 18.82 | 5.972 | |
| 4,200.0 | 4,189.7 | 4,200.4 | 4,189.7 | 9.7 | 9.7 | -89.87 | 180.5 | -109.2 | 112.2 | 93.0 | 19.25 | 5.830 | |
| 4,206.9 | 4,196.6 | 4,207.3 | 4,196.6 | 9.7 | 9.8 | -90.00 | 180.5 | -109.2 | 112.2 | 92.9 | 19.28 | 5.822 | |
| 4,300.0 | 4,289.7 | 4,300.3 | 4,289.7 | 9.8 | 9.9 | -90.94 | 180.5 | -109.2 | 112.2 | 92.6 | 19.64 | 5.713 | |
| 4,400.0 | 4,389.7 | 4,400.3 | 4,389.7 | 10.0 | 10.2 | -90.00 | 180.5 | -109.2 | 112.2 | 92.2 | 20.04 | 5.602 | |
| 4,500.0 | 4,489.7 | 4,500.3 | 4,489.7 | 10.2 | 10.4 | -90.00 | 180.5 | -109.2 | 112.2 | 91.8 | 20.46 | 5.486 | |
| 4,600.0 | 4,589.7 | 4,600.3 | 4,589.7 | 10.5 | 10.6 | -90.00 | 180.5 | -109.2 | 112.2 | 91.4 | 20.88 | 5.375 | |
| 4,700.0 | 4,689.7 | 4,700.3 | 4,689.7 | 10.7 | 10.8 | -90.00 | 180.5 | -109.2 | 112.2 | 90.9 | 21.31 | 5.268 | |
| 4,800.0 | 4,789.7 | 4,800.3 | 4,789.7 | 10.9 | 11.0 | -90.00 | 180.5 | -109.2 | 112.2 | 90.5 | 21.73 | 5.165 | |
| 4,900.0 | 4,889.7 | 4,900.3 | 4,889.7 | 11.1 | 11.2 | -90.00 | 180.5 | -109.2 | 112.2 | 90.1 | 22.16 | 5.065 | |
| 5,000.0 | 4,989.7 | 5,000.3 | 4,989.7 | 11.3 | 11.4 | -90.00 | 180.5 | -109.2 | 112.2 | 89.7 | 22.58 | 4.970 | |

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

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14) | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|----------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,100.0 | 5,089.7 | 5,100.3 | 5,089.7 | 11.5 | 11.6 | -90.00 | 180.5 | -109.2 | 112.2 | 89.2 | 23.01 | 4.877 | | |
| 5,200.0 | 5,189.7 | 5,200.3 | 5,189.7 | 11.7 | 11.8 | -90.00 | 180.5 | -109.2 | 112.2 | 88.8 | 23.44 | 4.788 | | |
| 5,300.0 | 5,289.7 | 5,300.3 | 5,289.7 | 12.0 | 12.0 | -90.00 | 180.5 | -109.2 | 112.2 | 88.4 | 23.87 | 4.702 | | |
| 5,400.0 | 5,389.7 | 5,400.3 | 5,389.7 | 12.2 | 12.3 | -90.00 | 180.5 | -109.2 | 112.2 | 87.9 | 24.30 | 4.619 | | |
| 5,500.0 | 5,489.7 | 5,500.3 | 5,489.7 | 12.4 | 12.5 | -90.00 | 180.5 | -109.2 | 112.2 | 87.5 | 24.73 | 4.538 | | |
| 5,600.0 | 5,589.7 | 5,600.3 | 5,589.7 | 12.6 | 12.7 | -90.00 | 180.5 | -109.2 | 112.2 | 87.1 | 25.16 | 4.460 | | |
| 5,700.0 | 5,689.7 | 5,700.3 | 5,689.7 | 12.8 | 12.9 | -90.00 | 180.5 | -109.2 | 112.2 | 86.6 | 25.60 | 4.385 | | |
| 5,800.0 | 5,789.7 | 5,800.3 | 5,789.7 | 13.0 | 13.1 | -90.00 | 180.5 | -109.2 | 112.2 | 86.2 | 26.03 | 4.312 | | |
| 5,900.0 | 5,889.7 | 5,900.3 | 5,889.7 | 13.3 | 13.3 | -90.00 | 180.5 | -109.2 | 112.2 | 85.8 | 26.46 | 4.241 | | |
| 6,000.0 | 5,989.7 | 6,000.3 | 5,989.7 | 13.5 | 13.5 | -90.00 | 180.5 | -109.2 | 112.2 | 85.3 | 26.90 | 4.173 | | |
| 6,100.0 | 6,089.7 | 6,100.3 | 6,089.7 | 13.7 | 13.8 | -90.00 | 180.5 | -109.2 | 112.2 | 84.9 | 27.33 | 4.107 | | |
| 6,200.0 | 6,189.7 | 6,200.3 | 6,189.7 | 13.9 | 14.0 | -90.00 | 180.5 | -109.2 | 112.2 | 84.5 | 27.77 | 4.042 | | |
| 6,300.0 | 6,289.7 | 6,300.3 | 6,289.7 | 14.1 | 14.2 | -90.00 | 180.5 | -109.2 | 112.2 | 84.0 | 28.20 | 3.980 | | |
| 6,400.0 | 6,389.7 | 6,400.3 | 6,389.7 | 14.3 | 14.4 | -90.00 | 180.5 | -109.2 | 112.2 | 83.6 | 28.64 | 3.919 | | |
| 6,500.0 | 6,489.7 | 6,500.3 | 6,489.7 | 14.6 | 14.6 | -90.00 | 180.5 | -109.2 | 112.2 | 83.2 | 29.07 | 3.860 | | |
| 6,600.0 | 6,589.7 | 6,600.3 | 6,589.7 | 14.8 | 14.8 | -90.00 | 180.5 | -109.2 | 112.2 | 82.7 | 29.51 | 3.803 | | |
| 6,700.0 | 6,689.7 | 6,700.3 | 6,689.7 | 15.0 | 15.1 | -90.00 | 180.5 | -109.2 | 112.2 | 82.3 | 29.95 | 3.748 | | |
| 6,745.8 | 6,735.4 | 6,746.1 | 6,735.4 | 15.1 | 15.2 | 91.10 | 180.5 | -109.2 | 112.2 | 82.1 | 30.14 | 3.724 | | |
| 6,800.0 | 6,789.6 | 6,800.3 | 6,789.6 | 15.2 | 15.3 | 91.64 | 180.5 | -109.2 | 112.3 | 81.9 | 30.36 | 3.698 | | |
| 6,900.0 | 6,887.8 | 6,898.5 | 6,887.8 | 15.3 | 15.5 | 100.40 | 180.5 | -109.2 | 114.3 | 83.7 | 30.58 | 3.736 | | |
| 7,000.0 | 6,980.7 | 6,995.1 | 6,984.4 | 15.4 | 15.7 | 115.01 | 179.4 | -109.2 | 125.9 | 95.6 | 30.29 | 4.156 | | |
| 7,100.0 | 7,064.9 | 7,102.8 | 7,090.4 | 15.4 | 15.8 | 128.21 | 161.2 | -109.2 | 147.8 | 118.7 | 29.03 | 5.089 | | |
| 7,200.0 | 7,137.3 | 7,221.9 | 7,200.4 | 15.5 | 15.9 | 137.64 | 116.4 | -109.2 | 173.9 | 146.9 | 27.05 | 6.431 | | |
| 7,300.0 | 7,195.3 | 7,354.2 | 7,307.1 | 15.7 | 16.0 | 144.04 | 38.8 | -109.2 | 199.6 | 174.8 | 24.82 | 8.044 | | |
| 7,400.0 | 7,236.7 | 7,500.6 | 7,398.3 | 16.1 | 16.1 | 148.03 | -75.2 | -109.2 | 220.8 | 197.8 | 22.98 | 9.605 | | |
| 7,500.0 | 7,260.0 | 7,659.2 | 7,457.2 | 16.7 | 16.8 | 149.97 | -221.8 | -109.2 | 234.0 | 211.7 | 22.26 | 10.512 | | |
| 7,600.0 | 7,265.0 | 7,806.8 | 7,470.8 | 17.4 | 17.8 | 150.11 | -368.3 | -109.2 | 237.4 | 214.4 | 23.00 | 10.324 | | |
| 7,700.0 | 7,264.5 | 7,906.8 | 7,470.4 | 18.3 | 18.7 | 149.89 | -468.3 | -109.2 | 238.1 | 214.0 | 24.08 | 9.886 | | |
| 7,800.0 | 7,264.0 | 8,006.8 | 7,470.1 | 19.4 | 19.7 | 149.68 | -568.3 | -109.2 | 238.7 | 213.4 | 25.34 | 9.419 | | |
| 7,900.0 | 7,263.5 | 8,106.8 | 7,469.7 | 20.6 | 20.9 | 149.46 | -668.3 | -109.2 | 239.4 | 212.6 | 26.77 | 8.944 | | |
| 8,000.0 | 7,263.1 | 8,206.8 | 7,469.4 | 21.8 | 22.1 | 149.25 | -768.3 | -109.2 | 240.1 | 211.7 | 28.33 | 8.475 | | |
| 8,100.0 | 7,262.6 | 8,306.8 | 7,469.0 | 23.2 | 23.5 | 149.04 | -868.3 | -109.2 | 240.7 | 210.7 | 30.01 | 8.022 | | |
| 8,200.0 | 7,262.1 | 8,406.8 | 7,468.7 | 24.7 | 24.9 | 148.83 | -968.3 | -109.2 | 241.4 | 209.6 | 31.80 | 7.592 | | |
| 8,300.0 | 7,261.7 | 8,506.8 | 7,468.3 | 26.2 | 26.4 | 148.62 | -1,068.3 | -109.2 | 242.1 | 208.4 | 33.68 | 7.188 | | |
| 8,400.0 | 7,261.2 | 8,606.8 | 7,468.0 | 27.7 | 27.9 | 148.41 | -1,168.3 | -109.2 | 242.8 | 207.1 | 35.64 | 6.812 | | |
| 8,500.0 | 7,260.7 | 8,706.8 | 7,467.6 | 29.3 | 29.5 | 148.20 | -1,268.3 | -109.2 | 243.5 | 205.8 | 37.68 | 6.462 | | |
| 8,600.0 | 7,260.2 | 8,806.8 | 7,467.3 | 31.0 | 31.1 | 147.99 | -1,368.3 | -109.2 | 244.2 | 204.4 | 39.77 | 6.139 | | |
| 8,700.0 | 7,259.8 | 8,906.8 | 7,466.9 | 32.6 | 32.8 | 147.79 | -1,468.3 | -109.2 | 244.9 | 202.9 | 41.93 | 5.840 | | |
| 8,800.0 | 7,259.3 | 9,006.8 | 7,466.6 | 34.3 | 34.5 | 147.59 | -1,568.3 | -109.2 | 245.5 | 201.4 | 44.13 | 5.564 | | |
| 8,900.0 | 7,258.8 | 9,106.7 | 7,466.2 | 36.0 | 36.2 | 147.38 | -1,668.3 | -109.2 | 246.2 | 199.9 | 46.39 | 5.309 | | |
| 9,000.0 | 7,258.4 | 9,206.7 | 7,465.9 | 37.8 | 37.9 | 147.18 | -1,768.2 | -109.2 | 246.9 | 198.3 | 48.68 | 5.073 | | |
| 9,100.0 | 7,257.9 | 9,306.7 | 7,465.5 | 39.5 | 39.6 | 146.98 | -1,868.2 | -109.2 | 247.7 | 196.6 | 51.01 | 4.855 | | |
| 9,200.0 | 7,257.4 | 9,406.7 | 7,465.2 | 41.3 | 41.4 | 146.78 | -1,968.2 | -109.2 | 248.4 | 195.0 | 53.38 | 4.652 | | |
| 9,300.0 | 7,256.9 | 9,506.7 | 7,464.8 | 43.1 | 43.1 | 146.58 | -2,068.2 | -109.2 | 249.1 | 193.3 | 55.79 | 4.465 | | |
| 9,400.0 | 7,256.5 | 9,606.7 | 7,464.5 | 44.9 | 44.9 | 146.39 | -2,168.2 | -109.2 | 249.8 | 191.6 | 58.22 | 4.290 | | |
| 9,500.0 | 7,256.0 | 9,706.7 | 7,464.1 | 46.7 | 46.7 | 146.19 | -2,268.2 | -109.2 | 250.5 | 189.8 | 60.68 | 4.128 | | |
| 9,600.0 | 7,255.5 | 9,806.7 | 7,463.8 | 48.5 | 48.5 | 146.00 | -2,368.2 | -109.2 | 251.2 | 188.0 | 63.18 | 3.977 | | |
| 9,700.0 | 7,255.1 | 9,906.7 | 7,463.4 | 50.3 | 50.3 | 145.80 | -2,468.2 | -109.2 | 251.9 | 186.3 | 65.69 | 3.835 | | |
| 9,800.0 | 7,254.6 | 10,006.7 | 7,463.1 | 52.1 | 52.1 | 145.61 | -2,568.2 | -109.2 | 252.7 | 184.4 | 68.23 | 3.703 | | |
| 9,900.0 | 7,254.1 | 10,106.7 | 7,462.7 | 54.0 | 54.0 | 145.42 | -2,668.2 | -109.2 | 253.4 | 182.6 | 70.80 | 3.579 | | |
| 10,000.0 | 7,253.6 | 10,206.7 | 7,462.4 | 55.8 | 55.8 | 145.23 | -2,768.2 | -109.2 | 254.1 | 180.7 | 73.39 | 3.463 | | |
| 10,100.0 | 7,253.2 | 10,306.7 | 7,462.0 | 57.6 | 57.6 | 145.04 | -2,868.2 | -109.2 | 254.9 | 178.9 | 76.00 | 3.354 | | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-5C - Wellbore #1 - Plan #1 (9-2-14) | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 10,200.0 | 7,252.7 | 10,406.7 | 7,461.7 | 59.5 | 59.5 | 144.85 | -2,968.2 | -109.2 | 255.6 | 177.0 | 78.63 | 3.251 | |
| 10,300.0 | 7,252.2 | 10,506.7 | 7,461.4 | 61.4 | 61.3 | 144.67 | -3,068.2 | -109.2 | 256.3 | 175.1 | 81.28 | 3.154 | |
| 10,400.0 | 7,251.8 | 10,606.7 | 7,461.0 | 63.2 | 63.2 | 144.48 | -3,168.2 | -109.2 | 257.1 | 173.1 | 83.95 | 3.062 | |
| 10,500.0 | 7,251.3 | 10,706.6 | 7,460.7 | 65.1 | 65.0 | 144.30 | -3,268.1 | -109.2 | 257.8 | 171.2 | 86.64 | 2.976 | |
| 10,600.0 | 7,250.8 | 10,806.6 | 7,460.3 | 66.9 | 66.9 | 144.11 | -3,368.1 | -109.2 | 258.6 | 169.2 | 89.35 | 2.894 | |
| 10,700.0 | 7,250.3 | 10,906.6 | 7,460.0 | 68.8 | 68.7 | 143.93 | -3,468.1 | -109.2 | 259.3 | 167.3 | 92.07 | 2.817 | |
| 10,800.0 | 7,249.9 | 11,006.6 | 7,459.6 | 70.7 | 70.6 | 143.75 | -3,568.1 | -109.2 | 260.1 | 165.3 | 94.82 | 2.743 | |
| 10,900.0 | 7,249.4 | 11,106.6 | 7,459.3 | 72.5 | 72.5 | 143.57 | -3,668.1 | -109.2 | 260.8 | 163.3 | 97.58 | 2.673 | |
| 11,000.0 | 7,248.9 | 11,206.6 | 7,458.9 | 74.4 | 74.3 | 143.39 | -3,768.1 | -109.2 | 261.6 | 161.2 | 100.35 | 2.607 | |
| 11,100.0 | 7,248.5 | 11,306.6 | 7,458.6 | 76.3 | 76.2 | 143.21 | -3,868.1 | -109.2 | 262.4 | 159.2 | 103.14 | 2.544 | |
| 11,200.0 | 7,248.0 | 11,406.6 | 7,458.2 | 78.2 | 78.1 | 143.03 | -3,968.1 | -109.2 | 263.1 | 157.2 | 105.95 | 2.483 | |
| 11,300.0 | 7,247.5 | 11,506.6 | 7,457.9 | 80.1 | 80.0 | 142.86 | -4,068.1 | -109.2 | 263.9 | 155.1 | 108.77 | 2.426 | |
| 11,400.0 | 7,247.0 | 11,606.6 | 7,457.5 | 81.9 | 81.8 | 142.68 | -4,168.1 | -109.2 | 264.7 | 153.0 | 111.61 | 2.371 | |
| 11,500.0 | 7,246.6 | 11,706.6 | 7,457.2 | 83.8 | 83.7 | 142.51 | -4,268.1 | -109.2 | 265.4 | 151.0 | 114.46 | 2.319 | |
| 11,600.0 | 7,246.1 | 11,806.6 | 7,456.8 | 85.7 | 85.6 | 142.33 | -4,368.1 | -109.2 | 266.2 | 148.9 | 117.33 | 2.269 | |
| 11,700.0 | 7,245.6 | 11,906.6 | 7,456.5 | 87.6 | 87.5 | 142.16 | -4,468.1 | -109.2 | 267.0 | 146.8 | 120.21 | 2.221 | |
| 11,800.0 | 7,245.2 | 12,006.6 | 7,456.1 | 89.5 | 89.4 | 141.99 | -4,568.1 | -109.2 | 267.7 | 144.6 | 123.10 | 2.175 | |
| 11,834.5 | 7,245.0 | 12,039.5 | 7,456.0 | 90.1 | 90.0 | 141.93 | -4,601.0 | -109.2 | 268.0 | 143.9 | 124.08 | 2.160 SF | |

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

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0ft |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 5,000.0 | 4,989.7 | 5,006.5 | 4,990.7 | 11.3 | 11.9 | 90.00 | 180.5 | 221.3 | 218.3 | 195.6 | 22.65 | 9.635 | |
| 5,100.0 | 5,089.7 | 5,106.5 | 5,090.7 | 11.5 | 12.1 | 90.00 | 180.5 | 221.3 | 218.3 | 195.2 | 23.08 | 9.458 | |
| 5,200.0 | 5,189.7 | 5,206.5 | 5,190.7 | 11.7 | 12.3 | 90.00 | 180.5 | 221.3 | 218.3 | 194.8 | 23.50 | 9.286 | |
| 5,300.0 | 5,289.7 | 5,306.5 | 5,290.7 | 12.0 | 12.5 | 90.00 | 180.5 | 221.3 | 218.3 | 194.3 | 23.93 | 9.121 | |
| 5,400.0 | 5,389.7 | 5,406.5 | 5,390.7 | 12.2 | 12.7 | 90.00 | 180.5 | 221.3 | 218.3 | 193.9 | 24.36 | 8.961 | |
| 5,500.0 | 5,489.7 | 5,506.5 | 5,490.7 | 12.4 | 12.9 | 90.00 | 180.5 | 221.3 | 218.3 | 193.5 | 24.79 | 8.806 | |
| 5,600.0 | 5,589.7 | 5,606.5 | 5,590.7 | 12.6 | 13.2 | 90.00 | 180.5 | 221.3 | 218.3 | 193.1 | 25.22 | 8.656 | |
| 5,700.0 | 5,689.7 | 5,706.5 | 5,690.7 | 12.8 | 13.4 | 90.00 | 180.5 | 221.3 | 218.3 | 192.6 | 25.64 | 8.511 | |
| 5,800.0 | 5,789.7 | 5,806.5 | 5,790.7 | 13.0 | 13.6 | 90.00 | 180.5 | 221.3 | 218.3 | 192.2 | 26.08 | 8.371 | |
| 5,900.0 | 5,889.7 | 5,906.5 | 5,890.7 | 13.3 | 13.8 | 90.00 | 180.5 | 221.3 | 218.3 | 191.8 | 26.51 | 8.235 | |
| 6,000.0 | 5,989.7 | 6,006.5 | 5,990.7 | 13.5 | 14.0 | 90.00 | 180.5 | 221.3 | 218.3 | 191.3 | 26.94 | 8.103 | |
| 6,100.0 | 6,089.7 | 6,106.5 | 6,090.7 | 13.7 | 14.2 | 90.00 | 180.5 | 221.3 | 218.3 | 190.9 | 27.37 | 7.975 | |
| 6,200.0 | 6,189.7 | 6,206.5 | 6,190.7 | 13.9 | 14.4 | 90.00 | 180.5 | 221.3 | 218.3 | 190.5 | 27.80 | 7.851 | |
| 6,300.0 | 6,289.7 | 6,306.5 | 6,290.7 | 14.1 | 14.6 | 90.00 | 180.5 | 221.3 | 218.3 | 190.0 | 28.24 | 7.731 | |
| 6,400.0 | 6,389.7 | 6,406.5 | 6,390.7 | 14.3 | 14.8 | 90.00 | 180.5 | 221.3 | 218.3 | 189.6 | 28.67 | 7.614 | |
| 6,500.0 | 6,489.7 | 6,506.5 | 6,490.7 | 14.6 | 15.0 | 90.00 | 180.5 | 221.3 | 218.3 | 189.2 | 29.10 | 7.500 | |
| 6,600.0 | 6,589.7 | 6,606.5 | 6,590.7 | 14.8 | 15.2 | 90.00 | 180.5 | 221.3 | 218.3 | 188.7 | 29.54 | 7.390 | |
| 6,700.0 | 6,689.7 | 6,706.5 | 6,690.7 | 15.0 | 15.4 | 90.00 | 180.5 | 221.3 | 218.3 | 188.3 | 29.97 | 7.283 | |
| 6,800.0 | 6,789.7 | 6,806.5 | 6,790.6 | 15.2 | 15.6 | -89.37 | 178.5 | 221.3 | 218.3 | 187.9 | 30.36 | 7.189 | |
| 6,900.0 | 6,889.7 | 6,906.5 | 6,888.8 | 15.3 | 15.8 | -89.39 | 160.3 | 221.3 | 218.1 | 187.5 | 30.57 | 7.133 | |
| 7,000.0 | 6,989.7 | 7,006.5 | 6,981.7 | 15.4 | 15.8 | -89.43 | 123.7 | 221.3 | 217.6 | 187.0 | 30.69 | 7.093 | |
| 7,100.0 | 7,089.7 | 7,106.5 | 7,065.9 | 15.4 | 15.9 | -89.49 | 70.1 | 221.3 | 217.0 | 186.3 | 30.79 | 7.049 | |
| 7,200.0 | 7,189.7 | 7,206.5 | 7,138.3 | 15.5 | 16.0 | -89.58 | 1.3 | 221.3 | 216.3 | 185.3 | 31.01 | 6.976 | |
| 7,300.0 | 7,289.7 | 7,306.5 | 7,196.3 | 15.7 | 16.1 | -89.68 | -79.9 | 221.3 | 215.4 | 183.9 | 31.45 | 6.849 | |
| 7,400.0 | 7,389.7 | 7,406.5 | 7,237.7 | 16.1 | 16.3 | -89.79 | -170.8 | 221.3 | 214.4 | 182.2 | 32.21 | 6.656 | |
| 7,500.0 | 7,489.7 | 7,506.5 | 7,261.0 | 16.7 | 16.9 | -89.91 | -267.9 | 221.3 | 213.3 | 180.0 | 33.34 | 6.398 | |
| 7,600.0 | 7,589.7 | 7,606.5 | 7,265.9 | 17.4 | 17.6 | -90.00 | -367.6 | 221.3 | 212.2 | 177.4 | 34.81 | 6.095 | |
| 7,700.0 | 7,689.7 | 7,706.5 | 7,265.5 | 18.3 | 18.5 | -90.00 | -467.6 | 221.3 | 211.1 | 174.5 | 36.62 | 5.764 | |
| 7,800.0 | 7,789.7 | 7,806.5 | 7,265.0 | 19.4 | 19.5 | -90.00 | -567.6 | 221.3 | 210.0 | 171.3 | 38.72 | 5.423 | |
| 7,900.0 | 7,889.7 | 7,906.5 | 7,264.5 | 20.6 | 20.7 | -90.00 | -667.6 | 221.3 | 208.9 | 167.8 | 41.08 | 5.085 | |
| 8,000.0 | 7,989.7 | 8,006.5 | 7,264.0 | 21.8 | 22.0 | -90.00 | -767.6 | 221.3 | 207.8 | 164.1 | 43.64 | 4.761 | |
| 8,100.0 | 8,089.7 | 8,106.4 | 7,263.6 | 23.2 | 23.3 | -90.00 | -867.6 | 221.3 | 206.7 | 160.3 | 46.38 | 4.456 | |
| 8,200.0 | 8,189.7 | 8,206.4 | 7,263.1 | 24.7 | 24.8 | -90.00 | -967.6 | 221.3 | 205.5 | 156.3 | 49.27 | 4.172 | |
| 8,300.0 | 8,289.7 | 8,306.4 | 7,262.6 | 26.2 | 26.2 | -90.00 | -1,067.6 | 221.3 | 204.4 | 152.2 | 52.27 | 3.911 | |
| 8,400.0 | 8,389.7 | 8,406.4 | 7,262.2 | 27.7 | 27.8 | -90.00 | -1,167.6 | 221.3 | 203.3 | 147.9 | 55.39 | 3.671 | |
| 8,500.0 | 8,489.7 | 8,506.4 | 7,261.7 | 29.3 | 29.4 | -90.00 | -1,267.6 | 221.3 | 202.2 | 143.6 | 58.58 | 3.452 | |
| 8,600.0 | 8,589.7 | 8,606.4 | 7,261.2 | 31.0 | 31.0 | -90.00 | -1,367.6 | 221.3 | 201.1 | 139.3 | 61.85 | 3.252 | |
| 8,700.0 | 8,689.7 | 8,706.4 | 7,260.7 | 32.6 | 32.7 | -90.00 | -1,467.5 | 221.3 | 200.0 | 134.8 | 65.18 | 3.068 | |
| 8,800.0 | 8,789.7 | 8,806.4 | 7,260.3 | 34.3 | 34.3 | -90.00 | -1,567.5 | 221.3 | 198.9 | 130.3 | 68.56 | 2.901 | |
| 8,900.0 | 8,889.7 | 8,906.4 | 7,259.8 | 36.0 | 36.0 | -90.00 | -1,667.5 | 221.3 | 197.8 | 125.8 | 71.99 | 2.747 | |
| 9,000.0 | 8,989.7 | 9,006.4 | 7,259.3 | 37.8 | 37.8 | -90.00 | -1,767.5 | 221.3 | 196.7 | 121.2 | 75.46 | 2.606 | |
| 9,100.0 | 9,089.7 | 9,106.4 | 7,258.9 | 39.5 | 39.5 | -90.00 | -1,867.5 | 221.3 | 195.6 | 116.6 | 78.96 | 2.477 | |
| 9,200.0 | 9,189.7 | 9,206.4 | 7,258.4 | 41.3 | 41.3 | -90.00 | -1,967.5 | 221.3 | 194.5 | 112.0 | 82.49 | 2.357 | |
| 9,300.0 | 9,289.7 | 9,306.4 | 7,257.9 | 43.1 | 43.0 | -90.00 | -2,067.5 | 221.3 | 193.3 | 107.3 | 86.05 | 2.247 | |
| 9,400.0 | 9,389.7 | 9,406.4 | 7,257.5 | 44.9 | 44.8 | -90.00 | -2,167.5 | 221.3 | 192.2 | 102.6 | 89.63 | 2.145 | |
| 9,500.0 | 9,489.7 | 9,506.4 | 7,257.0 | 46.7 | 46.6 | -90.00 | -2,267.5 | 221.3 | 191.1 | 97.9 | 93.23 | 2.050 | |
| 9,600.0 | 9,589.7 | 9,606.4 | 7,256.5 | 48.5 | 48.4 | -90.00 | -2,367.5 | 221.3 | 190.0 | 93.2 | 96.85 | 1.962 | |
| 9,700.0 | 9,689.7 | 9,706.3 | 7,256.0 | 50.3 | 50.2 | -90.00 | -2,467.5 | 221.3 | 188.9 | 88.4 | 100.48 | 1.880 | |
| 9,800.0 | 9,789.7 | 9,806.3 | 7,255.6 | 52.1 | 52.1 | -90.00 | -2,567.5 | 221.3 | 187.8 | 83.7 | 104.13 | 1.803 | |
| 9,900.0 | 9,889.7 | 9,906.3 | 7,255.1 | 54.0 | 53.9 | -90.00 | -2,667.5 | 221.3 | 186.7 | 78.9 | 107.79 | 1.732 | |
| 10,000.0 | 9,989.7 | 10,006.3 | 7,254.6 | 55.8 | 55.7 | -90.00 | -2,767.5 | 221.3 | 185.6 | 74.1 | 111.47 | 1.665 | |
| 10,100.0 | 10,089.7 | 10,106.3 | 7,254.2 | 57.6 | 57.6 | -90.00 | -2,867.4 | 221.3 | 184.5 | 69.3 | 115.15 | 1.602 | |

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

| Offset Design | | | | | | | | | | | | | Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-7N - Wellbore #1 - Plan #1 (9-2-14) | | Offset Site Error: | | 0.0 ft |
|-----------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-----------------------|---------------------------------------------------------------------------------------------|---------|--------------------|--|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | | 0.0 ft | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | | | | |
| 10,200.0 | 7,252.7 | 10,206.3 | 7,253.7 | 59.5 | 59.4 | -90.00 | -2,967.4 | 221.3 | 183.4 | 64.5 | 118.85 | 1.543 | | | | | |
| 10,300.0 | 7,252.2 | 10,306.3 | 7,253.2 | 61.4 | 61.2 | -90.00 | -3,067.4 | 221.3 | 182.3 | 59.7 | 122.55 | 1.487 Level 3 | | | | | |
| 10,400.0 | 7,251.8 | 10,406.3 | 7,252.7 | 63.2 | 63.1 | -90.00 | -3,167.4 | 221.3 | 181.2 | 54.9 | 126.26 | 1.435 Level 3 | | | | | |
| 10,500.0 | 7,251.3 | 10,506.3 | 7,252.3 | 65.1 | 65.0 | -90.00 | -3,267.4 | 221.3 | 180.0 | 50.1 | 129.97 | 1.385 Level 3 | | | | | |
| 10,600.0 | 7,250.8 | 10,606.3 | 7,251.8 | 66.9 | 66.8 | -90.00 | -3,367.4 | 221.3 | 178.9 | 45.2 | 133.70 | 1.338 Level 3 | | | | | |
| 10,700.0 | 7,250.3 | 10,706.3 | 7,251.3 | 68.8 | 68.7 | -90.00 | -3,467.4 | 221.3 | 177.8 | 40.4 | 137.43 | 1.294 Level 3 | | | | | |
| 10,800.0 | 7,249.9 | 10,806.3 | 7,250.9 | 70.7 | 70.5 | -90.00 | -3,567.4 | 221.3 | 176.7 | 35.6 | 141.16 | 1.252 Level 3 | | | | | |
| 10,900.0 | 7,249.4 | 10,906.3 | 7,250.4 | 72.5 | 72.4 | -90.00 | -3,667.4 | 221.3 | 175.6 | 30.7 | 144.90 | 1.212 Level 2 | | | | | |
| 11,000.0 | 7,248.9 | 11,006.3 | 7,249.9 | 74.4 | 74.3 | -90.00 | -3,767.4 | 221.3 | 174.5 | 25.8 | 148.65 | 1.174 Level 2 | | | | | |
| 11,100.0 | 7,248.5 | 11,106.3 | 7,249.4 | 76.3 | 76.1 | -90.00 | -3,867.4 | 221.3 | 173.4 | 21.0 | 152.40 | 1.138 Level 2 | | | | | |
| 11,200.0 | 7,248.0 | 11,206.3 | 7,249.0 | 78.2 | 78.0 | -90.00 | -3,967.4 | 221.3 | 172.3 | 16.1 | 156.15 | 1.103 Level 2 | | | | | |
| 11,300.0 | 7,247.5 | 11,306.2 | 7,248.5 | 80.1 | 79.9 | -90.00 | -4,067.4 | 221.3 | 171.2 | 11.3 | 159.91 | 1.070 Level 2 | | | | | |
| 11,400.0 | 7,247.0 | 11,406.2 | 7,248.0 | 81.9 | 81.8 | -90.00 | -4,167.4 | 221.3 | 170.1 | 6.4 | 163.67 | 1.039 Level 2 | | | | | |
| 11,500.0 | 7,246.6 | 11,506.2 | 7,247.6 | 83.8 | 83.6 | -90.00 | -4,267.3 | 221.3 | 169.0 | 1.5 | 167.44 | 1.009 Level 2 | | | | | |
| 11,600.0 | 7,246.1 | 11,606.2 | 7,247.1 | 85.7 | 85.5 | -90.00 | -4,367.3 | 221.3 | 167.8 | -3.4 | 171.21 | 0.980 Level 1 | | | | | |
| 11,700.0 | 7,245.6 | 11,706.2 | 7,246.6 | 87.6 | 87.4 | -90.00 | -4,467.3 | 221.3 | 166.7 | -8.2 | 174.98 | 0.953 Level 1 | | | | | |
| 11,800.0 | 7,245.2 | 11,806.2 | 7,246.1 | 89.5 | 89.3 | -90.00 | -4,567.3 | 221.3 | 165.6 | -13.1 | 178.73 | 0.927 Level 1 | | | | | |
| 11,831.8 | 7,245.0 | 11,836.2 | 7,246.0 | 90.1 | 89.7 | -90.00 | -4,597.3 | 221.3 | 165.3 | -14.5 | 179.78 | 0.919 Level 1 | | | | | |
| 11,834.5 | 7,245.0 | 11,836.2 | 7,246.0 | 90.1 | 89.7 | -90.00 | -4,597.3 | 221.3 | 165.3 | -14.5 | 179.83 | 0.919 Level 1, ES, SF | | | | | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 90.01 | 0.0 | 28.0 | 28.0 | 28.0 | 0.00 | N/A | | |
| 100.0 | 100.0 | 101.0 | 101.0 | 0.1 | 0.1 | 90.01 | 0.0 | 28.0 | 28.0 | 27.8 | 0.23 | 123.360 | | |
| 200.0 | 200.0 | 201.0 | 201.0 | 0.3 | 0.3 | 90.01 | 0.0 | 28.0 | 28.0 | 27.3 | 0.68 | 41.393 | | |
| 300.0 | 300.0 | 301.0 | 301.0 | 0.6 | 0.6 | 90.01 | 0.0 | 28.0 | 28.0 | 26.9 | 1.13 | 24.869 | | |
| 400.0 | 400.0 | 401.0 | 401.0 | 0.8 | 0.8 | 90.01 | 0.0 | 28.0 | 28.0 | 26.4 | 1.58 | 17.774 | | |
| 500.0 | 500.0 | 501.0 | 501.0 | 1.0 | 1.0 | 90.01 | 0.0 | 28.0 | 28.0 | 26.0 | 2.03 | 13.828 | | |
| 600.0 | 600.0 | 601.0 | 601.0 | 1.2 | 1.2 | 90.01 | 0.0 | 28.0 | 28.0 | 25.5 | 2.47 | 11.316 | | |
| 700.0 | 700.0 | 701.0 | 701.0 | 1.5 | 1.5 | 90.01 | 0.0 | 28.0 | 28.0 | 25.1 | 2.92 | 9.577 | | |
| 800.0 | 800.0 | 801.0 | 801.0 | 1.7 | 1.7 | 90.01 | 0.0 | 28.0 | 28.0 | 24.6 | 3.37 | 8.301 | | |
| 900.0 | 900.0 | 901.0 | 901.0 | 1.9 | 1.9 | 90.01 | 0.0 | 28.0 | 28.0 | 24.2 | 3.82 | 7.325 | | |
| 1,000.0 | 1,000.0 | 1,001.0 | 1,001.0 | 2.1 | 2.1 | 90.01 | 0.0 | 28.0 | 28.0 | 23.7 | 4.27 | 6.554 | | |
| 1,100.0 | 1,100.0 | 1,101.0 | 1,101.0 | 2.4 | 2.4 | 90.01 | 0.0 | 28.0 | 28.0 | 23.3 | 4.72 | 5.930 | | |
| 1,166.3 | 1,166.3 | 1,167.3 | 1,167.3 | 2.5 | 2.5 | 90.01 | 0.0 | 28.0 | 28.0 | 23.0 | 5.02 | 5.578 CC | | |
| 1,200.0 | 1,200.0 | 1,201.0 | 1,201.0 | 2.6 | 2.6 | 90.01 | 0.0 | 28.0 | 28.0 | 22.8 | 5.17 | 5.415 ES | | |
| 1,300.0 | 1,300.0 | 1,300.0 | 1,300.0 | 2.8 | 2.8 | 88.46 | 0.8 | 29.6 | 29.6 | 24.0 | 5.61 | 5.272 | | |
| 1,400.0 | 1,400.0 | 1,398.9 | 1,398.8 | 3.0 | 3.0 | 84.73 | 3.2 | 34.1 | 34.4 | 28.3 | 6.05 | 5.683 | | |
| 1,500.0 | 1,500.0 | 1,497.3 | 1,496.8 | 3.3 | 3.2 | 80.42 | 7.0 | 41.7 | 42.5 | 36.0 | 6.49 | 6.556 | | |
| 1,600.0 | 1,600.0 | 1,595.5 | 1,594.3 | 3.5 | 3.5 | 76.63 | 12.4 | 52.1 | 54.0 | 47.1 | 6.93 | 7.794 | | |
| 1,700.0 | 1,700.0 | 1,694.7 | 1,692.7 | 3.7 | 3.7 | 74.00 | 18.2 | 63.4 | 66.5 | 59.1 | 7.37 | 9.019 | | |
| 1,800.0 | 1,800.0 | 1,793.9 | 1,791.0 | 3.9 | 4.0 | 72.21 | 24.0 | 74.6 | 79.0 | 71.2 | 7.81 | 10.116 | | |
| 1,900.0 | 1,900.0 | 1,893.1 | 1,889.4 | 4.2 | 4.3 | 70.90 | 29.7 | 85.9 | 91.6 | 83.4 | 8.26 | 11.099 | | |
| 2,000.0 | 2,000.0 | 1,992.3 | 1,987.8 | 4.4 | 4.5 | 69.92 | 35.5 | 97.2 | 104.3 | 95.6 | 8.70 | 11.982 | | |
| 2,100.0 | 2,100.0 | 2,091.5 | 2,086.2 | 4.6 | 4.8 | 69.14 | 41.3 | 108.4 | 117.0 | 107.8 | 9.15 | 12.779 | | |
| 2,200.0 | 2,200.0 | 2,190.6 | 2,184.5 | 4.8 | 5.1 | 68.52 | 47.1 | 119.7 | 129.7 | 120.0 | 9.60 | 13.502 | | |
| 2,300.0 | 2,300.0 | 2,289.8 | 2,282.9 | 5.1 | 5.4 | 68.01 | 52.9 | 130.9 | 142.4 | 132.3 | 10.05 | 14.160 | | |
| 2,400.0 | 2,400.0 | 2,389.0 | 2,381.3 | 5.3 | 5.7 | 67.58 | 58.7 | 142.2 | 155.1 | 144.6 | 10.51 | 14.760 | | |
| 2,500.0 | 2,500.0 | 2,488.2 | 2,479.7 | 5.5 | 6.0 | 67.22 | 64.4 | 153.4 | 167.8 | 156.8 | 10.96 | 15.310 | | |
| 2,600.0 | 2,600.0 | 2,587.5 | 2,578.1 | 5.7 | 6.3 | 66.24 | 70.2 | 164.7 | 179.8 | 168.4 | 11.41 | 15.753 | | |
| 2,700.0 | 2,699.8 | 2,686.8 | 2,676.7 | 6.0 | 6.6 | 67.19 | 76.0 | 176.0 | 190.5 | 178.6 | 11.87 | 16.048 | | |
| 2,800.0 | 2,799.5 | 2,786.1 | 2,775.2 | 6.2 | 6.9 | 68.96 | 81.8 | 187.3 | 200.0 | 187.6 | 12.33 | 16.220 | | |
| 2,900.0 | 2,898.7 | 2,885.3 | 2,873.5 | 6.4 | 7.2 | 71.46 | 87.6 | 198.5 | 208.6 | 195.8 | 12.80 | 16.304 | | |
| 3,000.0 | 2,998.0 | 2,984.5 | 2,971.9 | 6.6 | 7.5 | 73.97 | 93.4 | 209.8 | 217.5 | 204.2 | 13.28 | 16.383 | | |
| 3,100.0 | 3,097.2 | 3,083.7 | 3,070.3 | 6.9 | 7.8 | 76.29 | 99.2 | 221.0 | 226.8 | 213.0 | 13.77 | 16.472 | | |
| 3,200.0 | 3,196.4 | 3,182.8 | 3,168.6 | 7.1 | 8.1 | 78.42 | 104.9 | 232.3 | 236.4 | 222.2 | 14.27 | 16.566 | | |
| 3,300.0 | 3,295.7 | 3,282.0 | 3,267.0 | 7.4 | 8.5 | 80.38 | 110.7 | 243.5 | 246.4 | 231.6 | 14.78 | 16.663 | | |
| 3,400.0 | 3,394.9 | 3,381.1 | 3,365.3 | 7.6 | 8.8 | 82.19 | 116.5 | 254.8 | 256.6 | 241.2 | 15.31 | 16.762 | | |
| 3,500.0 | 3,494.1 | 3,480.3 | 3,463.7 | 7.9 | 9.1 | 83.86 | 122.3 | 266.0 | 267.0 | 251.2 | 15.84 | 16.860 | | |
| 3,600.0 | 3,593.3 | 3,579.5 | 3,562.0 | 8.2 | 9.4 | 85.41 | 128.1 | 277.3 | 277.6 | 261.3 | 16.37 | 16.958 | | |
| 3,700.0 | 3,692.6 | 3,678.6 | 3,660.4 | 8.4 | 9.7 | 86.84 | 133.9 | 288.6 | 288.5 | 271.5 | 16.91 | 17.054 | | |
| 3,800.0 | 3,791.8 | 3,777.8 | 3,758.7 | 8.7 | 10.0 | 88.17 | 139.6 | 299.8 | 299.4 | 282.0 | 17.46 | 17.148 | | |
| 3,900.0 | 3,891.0 | 3,877.0 | 3,857.1 | 9.0 | 10.3 | 89.40 | 145.4 | 311.1 | 310.6 | 292.6 | 18.02 | 17.240 | | |
| 4,000.0 | 3,990.3 | 3,976.1 | 3,955.4 | 9.3 | 10.7 | 90.59 | 151.2 | 322.3 | 321.9 | 303.3 | 18.56 | 17.342 | | |
| 4,100.0 | 4,089.9 | 4,075.5 | 4,053.9 | 9.5 | 11.0 | 91.31 | 157.0 | 333.6 | 333.2 | 314.1 | 19.04 | 17.496 | | |
| 4,200.0 | 4,189.7 | 4,174.8 | 4,152.5 | 9.7 | 11.3 | 91.41 | 162.8 | 344.9 | 344.4 | 324.9 | 19.49 | 17.666 | | |
| 4,300.0 | 4,289.7 | 4,274.1 | 4,251.0 | 9.8 | 11.6 | 90.95 | 168.6 | 356.1 | 355.6 | 335.7 | 19.91 | 17.855 | | |
| 4,400.0 | 4,389.7 | 4,375.2 | 4,351.2 | 10.0 | 11.9 | 90.95 | 174.5 | 367.6 | 366.8 | 346.4 | 20.35 | 18.025 | | |
| 4,500.0 | 4,489.7 | 4,487.6 | 4,463.0 | 10.2 | 12.2 | 90.12 | 179.7 | 377.8 | 375.8 | 355.0 | 20.77 | 18.097 | | |
| 4,600.0 | 4,589.7 | 4,600.7 | 4,575.9 | 10.5 | 12.4 | 89.63 | 183.0 | 384.1 | 381.4 | 360.3 | 21.18 | 18.011 | | |
| 4,700.0 | 4,689.7 | 4,714.2 | 4,689.4 | 10.7 | 12.6 | 89.45 | 184.2 | 386.5 | 383.5 | 361.9 | 21.58 | 17.769 | | |
| 4,800.0 | 4,789.7 | 4,815.5 | 4,790.7 | 10.9 | 12.8 | 89.45 | 184.2 | 386.5 | 383.5 | 361.6 | 21.99 | 17.444 | | |
| 4,900.0 | 4,889.7 | 4,915.5 | 4,890.7 | 11.1 | 13.0 | 89.45 | 184.2 | 386.5 | 383.5 | 361.1 | 22.40 | 17.122 | | |
| 5,000.0 | 4,989.7 | 5,015.5 | 4,990.7 | 11.3 | 13.1 | 89.45 | 184.2 | 386.5 | 383.5 | 360.7 | 22.82 | 16.810 | | |

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

| Offset Design | | | | | | | | | | | Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14) | | | Offset Site Error: | 0.0 ft |
|-----------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|--------------------|---------------------------------------------------------------------------------------------|---------|--|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | Offset Well Error: | | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | Warning | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | | |
| 5,100.0 | 5,089.7 | 5,115.5 | 5,090.7 | 11.5 | 13.3 | 89.45 | 184.2 | 386.5 | 383.5 | 360.3 | 23.23 | 16.509 | | | |
| 5,200.0 | 5,189.7 | 5,215.5 | 5,190.7 | 11.7 | 13.5 | 89.45 | 184.2 | 386.5 | 383.5 | 359.9 | 23.65 | 16.217 | | | |
| 5,300.0 | 5,289.7 | 5,315.5 | 5,290.7 | 12.0 | 13.7 | 89.45 | 184.2 | 386.5 | 383.5 | 359.5 | 24.07 | 15.935 | | | |
| 5,400.0 | 5,389.7 | 5,415.5 | 5,390.7 | 12.2 | 13.9 | 89.45 | 184.2 | 386.5 | 383.5 | 359.1 | 24.49 | 15.661 | | | |
| 5,500.0 | 5,489.7 | 5,515.5 | 5,490.7 | 12.4 | 14.1 | 89.45 | 184.2 | 386.5 | 383.5 | 358.6 | 24.91 | 15.397 | | | |
| 5,600.0 | 5,589.7 | 5,615.5 | 5,590.7 | 12.6 | 14.2 | 89.45 | 184.2 | 386.5 | 383.5 | 358.2 | 25.33 | 15.140 | | | |
| 5,700.0 | 5,689.7 | 5,715.5 | 5,690.7 | 12.8 | 14.4 | 89.45 | 184.2 | 386.5 | 383.5 | 357.8 | 25.76 | 14.892 | | | |
| 5,800.0 | 5,789.7 | 5,815.5 | 5,790.7 | 13.0 | 14.6 | 89.45 | 184.2 | 386.5 | 383.5 | 357.4 | 26.18 | 14.650 | | | |
| 5,900.0 | 5,889.7 | 5,915.5 | 5,890.7 | 13.3 | 14.8 | 89.45 | 184.2 | 386.5 | 383.5 | 356.9 | 26.60 | 14.417 | | | |
| 6,000.0 | 5,989.7 | 6,015.5 | 5,990.7 | 13.5 | 15.0 | 89.45 | 184.2 | 386.5 | 383.5 | 356.5 | 27.03 | 14.190 | | | |
| 6,100.0 | 6,089.7 | 6,115.5 | 6,090.7 | 13.7 | 15.2 | 89.45 | 184.2 | 386.5 | 383.5 | 356.1 | 27.46 | 13.969 | | | |
| 6,200.0 | 6,189.7 | 6,215.5 | 6,190.7 | 13.9 | 15.4 | 89.45 | 184.2 | 386.5 | 383.5 | 355.7 | 27.88 | 13.755 | | | |
| 6,300.0 | 6,289.7 | 6,315.5 | 6,290.7 | 14.1 | 15.6 | 89.45 | 184.2 | 386.5 | 383.5 | 355.2 | 28.31 | 13.548 | | | |
| 6,400.0 | 6,389.7 | 6,415.5 | 6,390.7 | 14.3 | 15.8 | 89.45 | 184.2 | 386.5 | 383.5 | 354.8 | 28.74 | 13.346 | | | |
| 6,500.0 | 6,489.7 | 6,515.5 | 6,490.7 | 14.6 | 16.0 | 89.45 | 184.2 | 386.5 | 383.5 | 354.4 | 29.17 | 13.149 | | | |
| 6,600.0 | 6,589.7 | 6,615.5 | 6,590.7 | 14.8 | 16.2 | 89.45 | 184.2 | 386.5 | 383.5 | 353.9 | 29.60 | 12.959 | | | |
| 6,700.0 | 6,689.7 | 6,715.5 | 6,690.7 | 15.0 | 16.4 | 89.45 | 184.2 | 386.5 | 383.5 | 353.5 | 30.03 | 12.773 | | | |
| 6,800.0 | 6,789.6 | 6,815.8 | 6,790.9 | 15.2 | 16.5 | -89.93 | 182.2 | 386.5 | 383.5 | 353.1 | 30.41 | 12.613 | | | |
| 6,900.0 | 6,887.8 | 6,916.5 | 6,889.8 | 15.3 | 16.7 | -89.95 | 163.9 | 386.5 | 383.3 | 352.7 | 30.62 | 12.519 | | | |
| 7,000.0 | 6,980.7 | 7,017.3 | 6,983.3 | 15.4 | 16.7 | -89.98 | 127.0 | 386.5 | 382.9 | 352.2 | 30.74 | 12.458 | | | |
| 7,100.0 | 7,064.9 | 7,117.9 | 7,068.0 | 15.4 | 16.8 | -90.00 | 72.7 | 386.5 | 382.3 | 351.5 | 30.85 | 12.394 | | | |
| 7,200.0 | 7,137.3 | 7,218.5 | 7,140.6 | 15.5 | 16.8 | -90.03 | 3.3 | 386.5 | 381.6 | 350.5 | 31.07 | 12.282 | | | |
| 7,300.0 | 7,195.3 | 7,319.1 | 7,198.4 | 15.7 | 16.9 | -90.05 | -78.7 | 386.5 | 380.6 | 349.1 | 31.51 | 12.080 | | | |
| 7,400.0 | 7,236.7 | 7,419.5 | 7,239.5 | 16.1 | 17.2 | -90.08 | -170.2 | 386.5 | 379.6 | 347.4 | 32.28 | 11.762 | | | |
| 7,500.0 | 7,260.0 | 7,519.8 | 7,262.2 | 16.7 | 17.6 | -90.10 | -267.7 | 386.5 | 378.6 | 345.2 | 33.41 | 11.332 | | | |
| 7,600.0 | 7,265.0 | 7,619.9 | 7,266.7 | 17.4 | 18.3 | -90.11 | -367.6 | 386.5 | 377.5 | 342.6 | 34.89 | 10.818 | | | |
| 7,700.0 | 7,264.5 | 7,719.9 | 7,266.2 | 18.3 | 19.1 | -90.11 | -467.6 | 386.5 | 376.3 | 339.6 | 36.70 | 10.255 | | | |
| 7,800.0 | 7,264.0 | 7,819.9 | 7,265.7 | 19.4 | 20.1 | -90.11 | -567.6 | 386.5 | 375.2 | 336.4 | 38.80 | 9.671 | | | |
| 7,900.0 | 7,263.5 | 7,919.9 | 7,265.2 | 20.6 | 21.2 | -90.11 | -667.6 | 386.5 | 374.1 | 333.0 | 41.15 | 9.092 | | | |
| 8,000.0 | 7,263.1 | 8,019.9 | 7,264.7 | 21.8 | 22.5 | -90.10 | -767.6 | 386.5 | 373.0 | 329.3 | 43.71 | 8.533 | | | |
| 8,100.0 | 7,262.6 | 8,119.9 | 7,264.2 | 23.2 | 23.8 | -90.10 | -867.6 | 386.5 | 371.9 | 325.5 | 46.45 | 8.006 | | | |
| 8,200.0 | 7,262.1 | 8,219.9 | 7,263.7 | 24.7 | 25.2 | -90.10 | -967.6 | 386.5 | 370.8 | 321.5 | 49.34 | 7.516 | | | |
| 8,300.0 | 7,261.7 | 8,319.9 | 7,263.2 | 26.2 | 26.7 | -90.10 | -1,067.6 | 386.5 | 369.7 | 317.3 | 52.34 | 7.063 | | | |
| 8,400.0 | 7,261.2 | 8,419.9 | 7,262.8 | 27.7 | 28.2 | -90.09 | -1,167.6 | 386.5 | 368.6 | 313.1 | 55.45 | 6.647 | | | |
| 8,500.0 | 7,260.7 | 8,519.8 | 7,262.3 | 29.3 | 29.8 | -90.09 | -1,267.6 | 386.5 | 367.5 | 308.8 | 58.65 | 6.266 | | | |
| 8,600.0 | 7,260.2 | 8,619.8 | 7,261.8 | 31.0 | 31.4 | -90.09 | -1,367.6 | 386.5 | 366.4 | 304.4 | 61.91 | 5.917 | | | |
| 8,700.0 | 7,259.8 | 8,719.8 | 7,261.3 | 32.6 | 33.0 | -90.09 | -1,467.5 | 386.5 | 365.3 | 300.0 | 65.24 | 5.598 | | | |
| 8,800.0 | 7,259.3 | 8,819.8 | 7,260.8 | 34.3 | 34.7 | -90.08 | -1,567.5 | 386.5 | 364.1 | 295.5 | 68.63 | 5.306 | | | |
| 8,900.0 | 7,258.8 | 8,919.8 | 7,260.3 | 36.0 | 36.4 | -90.08 | -1,667.5 | 386.5 | 363.0 | 291.0 | 72.05 | 5.038 | | | |
| 9,000.0 | 7,258.4 | 9,019.8 | 7,259.8 | 37.8 | 38.1 | -90.08 | -1,767.5 | 386.5 | 361.9 | 286.4 | 75.52 | 4.792 | | | |
| 9,100.0 | 7,257.9 | 9,119.8 | 7,259.3 | 39.5 | 39.8 | -90.08 | -1,867.5 | 386.5 | 360.8 | 281.8 | 79.02 | 4.566 | | | |
| 9,200.0 | 7,257.4 | 9,219.8 | 7,258.9 | 41.3 | 41.6 | -90.07 | -1,967.5 | 386.5 | 359.7 | 277.2 | 82.55 | 4.357 | | | |
| 9,300.0 | 7,256.9 | 9,319.8 | 7,258.4 | 43.1 | 43.3 | -90.07 | -2,067.5 | 386.5 | 358.6 | 272.5 | 86.11 | 4.165 | | | |
| 9,400.0 | 7,256.5 | 9,419.8 | 7,257.9 | 44.9 | 45.1 | -90.07 | -2,167.5 | 386.5 | 357.5 | 267.8 | 89.69 | 3.986 | | | |
| 9,500.0 | 7,256.0 | 9,519.8 | 7,257.4 | 46.7 | 46.9 | -90.07 | -2,267.5 | 386.5 | 356.4 | 263.1 | 93.29 | 3.820 | | | |
| 9,600.0 | 7,255.5 | 9,619.8 | 7,256.9 | 48.5 | 48.7 | -90.06 | -2,367.5 | 386.5 | 355.3 | 258.4 | 96.90 | 3.666 | | | |
| 9,700.0 | 7,255.1 | 9,719.8 | 7,256.4 | 50.3 | 50.5 | -90.06 | -2,467.5 | 386.5 | 354.2 | 253.6 | 100.54 | 3.523 | | | |
| 9,800.0 | 7,254.6 | 9,819.8 | 7,255.9 | 52.1 | 52.3 | -90.06 | -2,567.5 | 386.5 | 353.1 | 248.9 | 104.19 | 3.389 | | | |
| 9,900.0 | 7,254.1 | 9,919.8 | 7,255.4 | 54.0 | 54.1 | -90.05 | -2,667.5 | 386.5 | 351.9 | 244.1 | 107.85 | 3.263 | | | |
| 10,000.0 | 7,253.6 | 10,019.8 | 7,254.9 | 55.8 | 55.9 | -90.05 | -2,767.5 | 386.5 | 350.8 | 239.3 | 111.52 | 3.146 | | | |
| 10,100.0 | 7,253.2 | 10,119.7 | 7,254.5 | 57.6 | 57.8 | -90.05 | -2,867.4 | 386.5 | 349.7 | 234.5 | 115.20 | 3.036 | | | |
| 10,200.0 | 7,252.7 | 10,219.7 | 7,254.0 | 59.5 | 59.6 | -90.05 | -2,967.4 | 386.5 | 348.6 | 229.7 | 118.90 | 2.932 | | | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-8N - Wellbore #1 - Plan #1 (9-2-14) | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|-----------------------------------------|---------------|-------------------------|--------------------------|----------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 10,300.0 | 7,252.2 | 10,319.7 | 7,253.5 | 61.4 | 61.4 | -90.04 | -3,067.4 | 386.5 | 347.5 | 224.9 | 122.60 | 2.835 | |
| 10,400.0 | 7,251.8 | 10,419.7 | 7,253.0 | 63.2 | 63.3 | -90.04 | -3,167.4 | 386.5 | 346.4 | 220.1 | 126.31 | 2.743 | |
| 10,500.0 | 7,251.3 | 10,519.7 | 7,252.5 | 65.1 | 65.1 | -90.04 | -3,267.4 | 386.5 | 345.3 | 215.3 | 130.03 | 2.656 | |
| 10,600.0 | 7,250.8 | 10,619.7 | 7,252.0 | 66.9 | 67.0 | -90.04 | -3,367.4 | 386.5 | 344.2 | 210.4 | 133.75 | 2.573 | |
| 10,700.0 | 7,250.3 | 10,719.7 | 7,251.5 | 68.8 | 68.8 | -90.03 | -3,467.4 | 386.5 | 343.1 | 205.6 | 137.48 | 2.496 | |
| 10,800.0 | 7,249.9 | 10,819.7 | 7,251.0 | 70.7 | 70.7 | -90.03 | -3,567.4 | 386.5 | 342.0 | 200.8 | 141.21 | 2.422 | |
| 10,900.0 | 7,249.4 | 10,919.7 | 7,250.5 | 72.5 | 72.6 | -90.03 | -3,667.4 | 386.5 | 340.9 | 195.9 | 144.95 | 2.352 | |
| 11,000.0 | 7,248.9 | 11,019.7 | 7,250.1 | 74.4 | 74.4 | -90.02 | -3,767.4 | 386.5 | 339.8 | 191.1 | 148.70 | 2.285 | |
| 11,100.0 | 7,248.5 | 11,119.7 | 7,249.6 | 76.3 | 76.3 | -90.02 | -3,867.4 | 386.5 | 338.6 | 186.2 | 152.45 | 2.221 | |
| 11,200.0 | 7,248.0 | 11,121.7 | 7,249.1 | 78.2 | 78.2 | -90.02 | -3,967.4 | 386.5 | 337.5 | 181.3 | 156.20 | 2.161 | |
| 11,300.0 | 7,247.5 | 11,131.7 | 7,248.6 | 80.1 | 80.0 | -90.02 | -4,067.4 | 386.5 | 336.4 | 176.5 | 159.96 | 2.103 | |
| 11,400.0 | 7,247.0 | 11,141.7 | 7,248.1 | 81.9 | 81.9 | -90.01 | -4,167.4 | 386.5 | 335.3 | 171.6 | 163.72 | 2.048 | |
| 11,500.0 | 7,246.6 | 11,151.7 | 7,247.6 | 83.8 | 83.8 | -90.01 | -4,267.3 | 386.5 | 334.2 | 166.7 | 167.49 | 1.995 | |
| 11,600.0 | 7,246.1 | 11,161.7 | 7,247.1 | 85.7 | 85.7 | -90.01 | -4,367.3 | 386.5 | 333.1 | 161.8 | 171.25 | 1.945 | |
| 11,700.0 | 7,245.6 | 11,171.7 | 7,246.6 | 87.6 | 87.6 | -90.00 | -4,467.3 | 386.5 | 332.0 | 157.0 | 175.02 | 1.897 | |
| 11,800.0 | 7,245.2 | 11,181.6 | 7,246.1 | 89.5 | 89.4 | -90.00 | -4,567.3 | 386.5 | 330.9 | 152.2 | 178.73 | 1.851 | |
| 11,833.7 | 7,245.0 | 11,849.6 | 7,246.0 | 90.1 | 89.8 | -90.00 | -4,597.3 | 386.5 | 330.5 | 150.7 | 179.82 | 1.838 | |
| 11,834.5 | 7,245.0 | 11,849.6 | 7,246.0 | 90.1 | 89.8 | -90.00 | -4,597.3 | 386.5 | 330.5 | 150.7 | 179.83 | 1.838 SF | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 90.00 | 0.0 | 44.8 | 44.8 | 44.8 | 0.00 | N/A | |
| 100.0 | 100.0 | 102.0 | 102.0 | 0.1 | 0.1 | 90.00 | 0.0 | 44.8 | 44.8 | 44.6 | 0.23 | 195.442 | |
| 200.0 | 200.0 | 202.0 | 202.0 | 0.3 | 0.3 | 90.00 | 0.0 | 44.8 | 44.8 | 44.1 | 0.68 | 66.010 | |
| 300.0 | 300.0 | 302.0 | 302.0 | 0.6 | 0.6 | 90.00 | 0.0 | 44.8 | 44.8 | 43.7 | 1.13 | 39.711 | |
| 400.0 | 400.0 | 402.0 | 402.0 | 0.8 | 0.8 | 90.00 | 0.0 | 44.8 | 44.8 | 43.2 | 1.58 | 28.397 | |
| 500.0 | 500.0 | 502.0 | 502.0 | 1.0 | 1.0 | 90.00 | 0.0 | 44.8 | 44.8 | 42.8 | 2.03 | 22.101 | |
| 600.0 | 600.0 | 602.0 | 602.0 | 1.2 | 1.2 | 90.00 | 0.0 | 44.8 | 44.8 | 42.3 | 2.48 | 18.090 | |
| 700.0 | 700.0 | 702.0 | 702.0 | 1.5 | 1.5 | 90.00 | 0.0 | 44.8 | 44.8 | 41.9 | 2.93 | 15.311 | |
| 800.0 | 800.0 | 802.0 | 802.0 | 1.7 | 1.7 | 90.00 | 0.0 | 44.8 | 44.8 | 41.4 | 3.38 | 13.272 | |
| 900.0 | 900.0 | 902.0 | 902.0 | 1.9 | 1.9 | 90.00 | 0.0 | 44.8 | 44.8 | 41.0 | 3.83 | 11.713 | |
| 966.0 | 966.0 | 968.0 | 968.0 | 2.1 | 2.1 | 90.00 | 0.0 | 44.8 | 44.8 | 40.7 | 4.12 | 10.870 CC | |
| 1,000.0 | 1,000.0 | 1,002.0 | 1,002.0 | 2.1 | 2.1 | 90.00 | 0.0 | 44.8 | 44.8 | 40.5 | 4.27 | 10.482 ES | |
| 1,100.0 | 1,100.0 | 1,100.0 | 1,100.0 | 2.4 | 2.4 | 89.26 | 0.6 | 46.4 | 46.5 | 41.8 | 4.71 | 9.869 | |
| 1,200.0 | 1,200.0 | 1,198.8 | 1,198.6 | 2.6 | 2.6 | 87.37 | 2.4 | 51.3 | 51.5 | 46.3 | 5.14 | 10.001 | |
| 1,300.0 | 1,300.0 | 1,296.6 | 1,296.0 | 2.8 | 2.8 | 84.95 | 5.2 | 59.2 | 59.8 | 54.2 | 5.58 | 10.706 | |
| 1,400.0 | 1,400.0 | 1,393.7 | 1,392.4 | 3.0 | 3.0 | 82.51 | 9.2 | 70.2 | 71.4 | 65.4 | 6.02 | 11.866 | |
| 1,500.0 | 1,500.0 | 1,491.7 | 1,489.4 | 3.3 | 3.3 | 80.41 | 14.1 | 83.7 | 85.9 | 79.4 | 6.46 | 13.282 | |
| 1,600.0 | 1,600.0 | 1,590.6 | 1,587.1 | 3.5 | 3.6 | 78.88 | 19.2 | 97.6 | 100.6 | 93.7 | 6.91 | 14.564 | |
| 1,700.0 | 1,700.0 | 1,689.4 | 1,684.9 | 3.7 | 3.9 | 77.74 | 24.2 | 111.5 | 115.4 | 108.0 | 7.35 | 15.692 | |
| 1,800.0 | 1,800.0 | 1,788.3 | 1,782.7 | 3.9 | 4.2 | 76.86 | 29.3 | 125.4 | 130.2 | 122.4 | 7.80 | 16.690 | |
| 1,900.0 | 1,900.0 | 1,887.2 | 1,880.4 | 4.2 | 4.5 | 76.16 | 34.3 | 139.3 | 145.1 | 136.8 | 8.25 | 17.578 | |
| 2,000.0 | 2,000.0 | 1,986.1 | 1,978.2 | 4.4 | 4.8 | 75.58 | 39.4 | 153.2 | 159.9 | 151.2 | 8.71 | 18.372 | |
| 2,100.0 | 2,100.0 | 2,084.9 | 2,076.0 | 4.6 | 5.1 | 75.11 | 44.4 | 167.1 | 174.8 | 165.7 | 9.16 | 19.086 | |
| 2,200.0 | 2,200.0 | 2,183.8 | 2,173.7 | 4.8 | 5.4 | 74.71 | 49.5 | 180.9 | 189.7 | 180.1 | 9.61 | 19.730 | |
| 2,300.0 | 2,300.0 | 2,282.7 | 2,271.5 | 5.1 | 5.8 | 74.37 | 54.5 | 194.8 | 204.6 | 194.5 | 10.07 | 20.314 | |
| 2,400.0 | 2,400.0 | 2,381.6 | 2,369.3 | 5.3 | 6.1 | 74.07 | 59.6 | 208.7 | 219.5 | 209.0 | 10.53 | 20.847 | |
| 2,500.0 | 2,500.0 | 2,480.5 | 2,467.1 | 5.5 | 6.4 | 73.82 | 64.6 | 222.6 | 234.4 | 223.4 | 10.99 | 21.333 | |
| 2,600.0 | 2,600.0 | 2,579.4 | 2,564.9 | 5.7 | 6.8 | 72.75 | 69.6 | 236.5 | 248.8 | 237.4 | 11.45 | 21.731 | |
| 2,700.0 | 2,699.8 | 2,678.4 | 2,662.8 | 6.0 | 7.1 | 73.37 | 74.7 | 250.4 | 262.2 | 250.3 | 11.91 | 22.015 | |
| 2,800.0 | 2,799.5 | 2,777.4 | 2,760.6 | 6.2 | 7.5 | 74.62 | 79.7 | 264.3 | 274.7 | 262.4 | 12.37 | 22.202 | |
| 2,900.0 | 2,898.7 | 2,876.2 | 2,858.3 | 6.4 | 7.8 | 76.46 | 84.8 | 278.2 | 286.7 | 273.9 | 12.85 | 22.315 | |
| 3,000.0 | 2,998.0 | 2,975.0 | 2,956.0 | 6.6 | 8.1 | 78.38 | 89.8 | 292.0 | 298.9 | 285.5 | 13.33 | 22.415 | |
| 3,100.0 | 3,097.2 | 3,073.7 | 3,053.7 | 6.9 | 8.5 | 80.15 | 94.9 | 305.9 | 311.3 | 297.5 | 13.83 | 22.513 | |
| 3,200.0 | 3,196.4 | 3,172.5 | 3,151.3 | 7.1 | 8.8 | 81.78 | 99.9 | 319.8 | 324.1 | 309.7 | 14.34 | 22.606 | |
| 3,300.0 | 3,295.7 | 3,271.3 | 3,249.0 | 7.4 | 9.2 | 83.29 | 104.9 | 333.7 | 337.1 | 322.2 | 14.85 | 22.696 | |
| 3,400.0 | 3,394.9 | 3,370.1 | 3,346.7 | 7.6 | 9.5 | 84.68 | 110.0 | 347.5 | 350.3 | 334.9 | 15.38 | 22.781 | |
| 3,500.0 | 3,494.1 | 3,468.8 | 3,444.3 | 7.9 | 9.9 | 85.98 | 115.0 | 361.4 | 363.6 | 347.7 | 15.91 | 22.861 | |
| 3,600.0 | 3,593.3 | 3,567.6 | 3,542.0 | 8.2 | 10.2 | 87.18 | 120.1 | 375.3 | 377.2 | 360.8 | 16.44 | 22.938 | |
| 3,700.0 | 3,692.6 | 3,666.4 | 3,639.7 | 8.4 | 10.6 | 88.30 | 125.1 | 389.1 | 390.9 | 373.9 | 16.99 | 23.010 | |
| 3,800.0 | 3,791.8 | 3,765.2 | 3,737.3 | 8.7 | 10.9 | 89.35 | 130.1 | 403.0 | 404.8 | 387.2 | 17.54 | 23.078 | |
| 3,900.0 | 3,891.0 | 3,863.9 | 3,835.0 | 9.0 | 11.3 | 90.32 | 135.2 | 416.9 | 418.7 | 400.6 | 18.09 | 23.142 | |
| 4,000.0 | 3,990.3 | 3,962.7 | 3,932.7 | 9.3 | 11.6 | 91.31 | 140.2 | 430.8 | 432.8 | 414.2 | 18.64 | 23.217 | |
| 4,100.0 | 4,089.9 | 4,061.7 | 4,030.5 | 9.5 | 12.0 | 92.02 | 145.3 | 444.7 | 446.9 | 427.7 | 19.13 | 23.359 | |
| 4,200.0 | 4,189.7 | 4,160.7 | 4,128.4 | 9.7 | 12.3 | 92.26 | 150.3 | 458.6 | 460.8 | 441.2 | 19.59 | 23.521 | |
| 4,300.0 | 4,289.7 | 4,259.7 | 4,226.3 | 9.8 | 12.7 | 92.08 | 155.4 | 472.5 | 474.7 | 454.6 | 20.02 | 23.708 | |
| 4,400.0 | 4,389.7 | 4,358.5 | 4,324.1 | 10.0 | 13.0 | 92.38 | 160.4 | 486.3 | 488.5 | 468.0 | 20.47 | 23.868 | |
| 4,500.0 | 4,489.7 | 4,457.4 | 4,421.8 | 10.2 | 13.4 | 91.73 | 165.5 | 500.2 | 502.3 | 481.4 | 20.91 | 24.024 | |
| 4,600.0 | 4,589.7 | 4,556.3 | 4,519.6 | 10.5 | 13.7 | 91.12 | 170.5 | 514.1 | 516.3 | 494.9 | 21.35 | 24.176 | |
| 4,700.0 | 4,689.7 | 4,664.8 | 4,627.0 | 10.7 | 14.1 | 90.50 | 175.9 | 528.9 | 529.8 | 508.0 | 21.81 | 24.295 | |
| 4,800.0 | 4,789.7 | 4,785.4 | 4,746.8 | 10.9 | 14.4 | 90.01 | 180.4 | 541.2 | 540.1 | 517.9 | 22.25 | 24.273 | |
| 4,900.0 | 4,889.7 | 4,906.8 | 4,868.0 | 11.1 | 14.6 | 89.72 | 183.2 | 548.9 | 546.4 | 523.8 | 22.68 | 24.093 | |
| 5,000.0 | 4,989.7 | 5,028.8 | 4,989.8 | 11.3 | 14.8 | 89.61 | 184.2 | 551.8 | 548.8 | 525.7 | 23.10 | 23.754 | |

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

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 5,100.0 | 5,089.7 | 5,130.6 | 5,091.7 | 11.5 | 15.0 | 89.61 | 184.2 | 551.8 | 548.8 | 525.3 | 23.51 | 23.348 | |
| 5,200.0 | 5,189.7 | 5,230.6 | 5,191.7 | 11.7 | 15.1 | 89.61 | 184.2 | 551.8 | 548.8 | 524.9 | 23.91 | 22.948 | |
| 5,300.0 | 5,289.7 | 5,330.6 | 5,291.7 | 12.0 | 15.3 | 89.61 | 184.2 | 551.8 | 548.8 | 524.5 | 24.33 | 22.561 | |
| 5,400.0 | 5,389.7 | 5,430.6 | 5,391.7 | 12.2 | 15.4 | 89.61 | 184.2 | 551.8 | 548.8 | 524.1 | 24.74 | 22.185 | |
| 5,500.0 | 5,489.7 | 5,530.6 | 5,491.7 | 12.4 | 15.6 | 89.61 | 184.2 | 551.8 | 548.8 | 523.6 | 25.15 | 21.820 | |
| 5,600.0 | 5,589.7 | 5,630.6 | 5,591.7 | 12.6 | 15.8 | 89.61 | 184.2 | 551.8 | 548.8 | 523.2 | 25.57 | 21.466 | |
| 5,700.0 | 5,689.7 | 5,730.6 | 5,691.7 | 12.8 | 15.9 | 89.61 | 184.2 | 551.8 | 548.8 | 522.8 | 25.98 | 21.123 | |
| 5,800.0 | 5,789.7 | 5,830.6 | 5,791.7 | 13.0 | 16.1 | 89.61 | 184.2 | 551.8 | 548.8 | 522.4 | 26.40 | 20.789 | |
| 5,900.0 | 5,889.7 | 5,930.6 | 5,891.7 | 13.3 | 16.3 | 89.61 | 184.2 | 551.8 | 548.8 | 522.0 | 26.82 | 20.465 | |
| 6,000.0 | 5,989.7 | 6,030.6 | 5,991.7 | 13.5 | 16.5 | 89.61 | 184.2 | 551.8 | 548.8 | 521.6 | 27.23 | 20.151 | |
| 6,100.0 | 6,089.7 | 6,130.6 | 6,091.7 | 13.7 | 16.6 | 89.61 | 184.2 | 551.8 | 548.8 | 521.1 | 27.65 | 19.845 | |
| 6,200.0 | 6,189.7 | 6,230.6 | 6,191.7 | 13.9 | 16.8 | 89.61 | 184.2 | 551.8 | 548.8 | 520.7 | 28.08 | 19.547 | |
| 6,300.0 | 6,289.7 | 6,330.6 | 6,291.7 | 14.1 | 17.0 | 89.61 | 184.2 | 551.8 | 548.8 | 520.3 | 28.50 | 19.258 | |
| 6,400.0 | 6,389.7 | 6,430.6 | 6,391.7 | 14.3 | 17.2 | 89.61 | 184.2 | 551.8 | 548.8 | 519.9 | 28.92 | 18.977 | |
| 6,500.0 | 6,489.7 | 6,530.6 | 6,491.7 | 14.6 | 17.3 | 89.61 | 184.2 | 551.8 | 548.8 | 519.5 | 29.34 | 18.703 | |
| 6,600.0 | 6,589.7 | 6,630.6 | 6,591.7 | 14.8 | 17.5 | 89.61 | 184.2 | 551.8 | 548.8 | 519.0 | 29.77 | 18.437 | |
| 6,700.0 | 6,689.7 | 6,730.6 | 6,691.7 | 15.0 | 17.7 | 89.61 | 184.2 | 551.8 | 548.8 | 518.6 | 30.19 | 18.177 | |
| 6,800.0 | 6,789.6 | 6,830.5 | 6,791.6 | 15.2 | 17.9 | -89.96 | 184.2 | 551.8 | 548.8 | 518.2 | 30.57 | 17.950 | |
| 6,804.6 | 6,794.2 | 6,835.1 | 6,796.2 | 15.2 | 17.9 | -90.00 | 184.2 | 551.8 | 548.8 | 518.2 | 30.59 | 17.943 | |
| 6,900.0 | 6,887.8 | 6,928.7 | 6,889.8 | 15.3 | 18.1 | -91.79 | 184.2 | 551.8 | 549.1 | 518.3 | 30.82 | 17.814 | |
| 7,000.0 | 6,980.7 | 7,025.6 | 6,986.6 | 15.4 | 18.2 | -95.13 | 183.0 | 551.8 | 551.4 | 520.4 | 30.95 | 17.816 | |
| 7,100.0 | 7,064.9 | 7,134.3 | 7,093.6 | 15.4 | 18.3 | -98.92 | 164.6 | 551.8 | 556.3 | 525.3 | 30.95 | 17.971 | |
| 7,200.0 | 7,137.3 | 7,254.5 | 7,204.5 | 15.5 | 18.4 | -102.58 | 118.9 | 551.8 | 563.1 | 532.2 | 30.89 | 18.229 | |
| 7,300.0 | 7,195.3 | 7,388.1 | 7,311.8 | 15.7 | 18.5 | -105.92 | 39.9 | 551.8 | 570.5 | 539.7 | 30.85 | 18.494 | |
| 7,400.0 | 7,236.7 | 7,535.9 | 7,402.8 | 16.1 | 18.6 | -108.64 | -75.8 | 551.8 | 576.9 | 545.9 | 31.04 | 18.587 | |
| 7,500.0 | 7,260.0 | 7,695.3 | 7,460.5 | 16.7 | 19.0 | -110.35 | -223.8 | 551.8 | 580.6 | 548.8 | 31.77 | 18.275 | |
| 7,600.0 | 7,265.0 | 7,840.8 | 7,472.8 | 17.4 | 19.7 | -110.77 | -368.3 | 551.8 | 580.4 | 547.3 | 33.16 | 17.505 | |
| 7,700.0 | 7,264.5 | 7,940.8 | 7,472.4 | 18.3 | 20.5 | -110.82 | -468.3 | 551.8 | 579.4 | 544.6 | 34.80 | 16.649 | |
| 7,800.0 | 7,264.0 | 8,040.8 | 7,472.1 | 19.4 | 21.4 | -110.87 | -568.3 | 551.8 | 578.4 | 541.7 | 36.73 | 15.750 | |
| 7,900.0 | 7,263.5 | 8,140.7 | 7,471.7 | 20.6 | 22.4 | -110.92 | -668.3 | 551.8 | 577.4 | 538.6 | 38.89 | 14.848 | |
| 8,000.0 | 7,263.1 | 8,240.7 | 7,471.4 | 21.8 | 23.6 | -110.97 | -768.3 | 551.8 | 576.4 | 535.2 | 41.25 | 13.973 | |
| 8,100.0 | 7,262.6 | 8,340.7 | 7,471.0 | 23.2 | 24.9 | -111.03 | -868.3 | 551.8 | 575.5 | 531.7 | 43.79 | 13.142 | |
| 8,200.0 | 7,262.1 | 8,440.7 | 7,470.7 | 24.7 | 26.2 | -111.08 | -968.3 | 551.8 | 574.5 | 528.0 | 46.46 | 12.364 | |
| 8,300.0 | 7,261.7 | 8,540.7 | 7,470.3 | 26.2 | 27.6 | -111.13 | -1,068.3 | 551.8 | 573.5 | 524.2 | 49.26 | 11.643 | |
| 8,400.0 | 7,261.2 | 8,640.7 | 7,470.0 | 27.7 | 29.1 | -111.18 | -1,168.3 | 551.8 | 572.5 | 520.3 | 52.15 | 10.979 | |
| 8,500.0 | 7,260.7 | 8,740.7 | 7,469.6 | 29.3 | 30.6 | -111.23 | -1,268.3 | 551.8 | 571.5 | 516.4 | 55.12 | 10.369 | |
| 8,600.0 | 7,260.2 | 8,840.7 | 7,469.3 | 31.0 | 32.2 | -111.28 | -1,368.3 | 551.8 | 570.5 | 512.3 | 58.16 | 9.810 | |
| 8,700.0 | 7,259.8 | 8,940.7 | 7,468.9 | 32.6 | 33.8 | -111.33 | -1,468.3 | 551.8 | 569.5 | 508.3 | 61.26 | 9.297 | |
| 8,800.0 | 7,259.3 | 9,040.7 | 7,468.6 | 34.3 | 35.4 | -111.39 | -1,568.3 | 551.8 | 568.5 | 504.1 | 64.41 | 8.827 | |
| 8,900.0 | 7,258.8 | 9,140.7 | 7,468.2 | 36.0 | 37.1 | -111.44 | -1,668.3 | 551.8 | 567.5 | 499.9 | 67.60 | 8.396 | |
| 9,000.0 | 7,258.4 | 9,240.7 | 7,467.9 | 37.8 | 38.7 | -111.49 | -1,768.2 | 551.8 | 566.6 | 495.7 | 70.83 | 7.999 | |
| 9,100.0 | 7,257.9 | 9,340.7 | 7,467.5 | 39.5 | 40.4 | -111.54 | -1,868.2 | 551.8 | 565.6 | 491.5 | 74.08 | 7.634 | |
| 9,200.0 | 7,257.4 | 9,440.7 | 7,467.2 | 41.3 | 42.2 | -111.60 | -1,968.2 | 551.8 | 564.6 | 487.2 | 77.37 | 7.297 | |
| 9,300.0 | 7,256.9 | 9,540.7 | 7,466.8 | 43.1 | 43.9 | -111.65 | -2,068.2 | 551.8 | 563.6 | 482.9 | 80.68 | 6.986 | |
| 9,400.0 | 7,256.5 | 9,640.7 | 7,466.5 | 44.9 | 45.7 | -111.70 | -2,168.2 | 551.8 | 562.6 | 478.6 | 84.01 | 6.697 | |
| 9,500.0 | 7,256.0 | 9,740.6 | 7,466.1 | 46.7 | 47.4 | -111.76 | -2,268.2 | 551.8 | 561.6 | 474.3 | 87.35 | 6.429 | |
| 9,600.0 | 7,255.5 | 9,840.6 | 7,465.8 | 48.5 | 49.2 | -111.81 | -2,368.2 | 551.8 | 560.6 | 469.9 | 90.72 | 6.180 | |
| 9,700.0 | 7,255.1 | 9,940.6 | 7,465.4 | 50.3 | 51.0 | -111.86 | -2,468.2 | 551.8 | 559.7 | 465.6 | 94.09 | 5.948 | |
| 9,800.0 | 7,254.6 | 10,040.6 | 7,465.1 | 52.1 | 52.8 | -111.92 | -2,568.2 | 551.8 | 558.7 | 461.2 | 97.48 | 5.731 | |
| 9,900.0 | 7,254.1 | 10,140.6 | 7,464.7 | 54.0 | 54.6 | -111.97 | -2,668.2 | 551.8 | 557.7 | 456.8 | 100.87 | 5.529 | |
| 10,000.0 | 7,253.6 | 10,240.6 | 7,464.4 | 55.8 | 56.4 | -112.03 | -2,768.2 | 551.8 | 556.7 | 452.4 | 104.28 | 5.339 | |
| 10,100.0 | 7,253.2 | 10,340.6 | 7,464.0 | 57.6 | 58.2 | -112.08 | -2,868.2 | 551.8 | 555.7 | 448.0 | 107.69 | 5.160 | |

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

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Verdad Oil & Gas Corporation | Local Co-ordinate Reference: | Well Young 01N-65W-28-6N |
| Project: | SEC.28-T1N-R65W | TVD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Reference Site: | Young 01N-65W-28 Pad Sec.28-T1N-R65W | MD Reference: | WELL @ 5085.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Young 01N-65W-28-6N | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (9-2-14) | Offset TVD Reference: | Offset Datum |

| Offset Design Young 01N-65W-28 Pad Sec.28-T1N-R65W - Young 01N-65W-28-9C - Wellbore #1 - Plan #1 (9-2-14) | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 10,200.0 | 7,252.7 | 10,440.6 | 7,463.7 | 59.5 | 60.0 | -112.14 | -2,968.2 | 551.8 | 554.7 | 443.6 | 111.11 | 4.993 | |
| 10,300.0 | 7,252.2 | 10,540.6 | 7,463.3 | 61.4 | 61.9 | -112.19 | -3,068.2 | 551.8 | 553.8 | 439.2 | 114.54 | 4.835 | |
| 10,400.0 | 7,251.8 | 10,640.6 | 7,463.0 | 63.2 | 63.7 | -112.25 | -3,168.2 | 551.8 | 552.8 | 434.8 | 117.97 | 4.686 | |
| 10,500.0 | 7,251.3 | 10,740.6 | 7,462.6 | 65.1 | 65.5 | -112.30 | -3,268.1 | 551.8 | 551.8 | 430.4 | 121.41 | 4.545 | |
| 10,600.0 | 7,250.8 | 10,840.6 | 7,462.3 | 66.9 | 67.4 | -112.36 | -3,368.1 | 551.8 | 550.8 | 426.0 | 124.85 | 4.412 | |
| 10,700.0 | 7,250.3 | 10,940.6 | 7,461.9 | 68.8 | 69.2 | -112.41 | -3,468.1 | 551.8 | 549.8 | 421.6 | 128.29 | 4.286 | |
| 10,800.0 | 7,249.9 | 11,040.6 | 7,461.6 | 70.7 | 71.1 | -112.47 | -3,568.1 | 551.8 | 548.9 | 417.1 | 131.74 | 4.166 | |
| 10,900.0 | 7,249.4 | 11,140.6 | 7,461.2 | 72.5 | 72.9 | -112.52 | -3,668.1 | 551.8 | 547.9 | 412.7 | 135.19 | 4.053 | |
| 11,000.0 | 7,248.9 | 11,240.6 | 7,460.9 | 74.4 | 74.8 | -112.58 | -3,768.1 | 551.8 | 546.9 | 408.3 | 138.64 | 3.945 | |
| 11,100.0 | 7,248.5 | 11,340.5 | 7,460.5 | 76.3 | 76.6 | -112.64 | -3,868.1 | 551.8 | 545.9 | 403.8 | 142.09 | 3.842 | |
| 11,200.0 | 7,248.0 | 11,440.5 | 7,460.2 | 78.2 | 78.5 | -112.69 | -3,968.1 | 551.8 | 545.0 | 399.4 | 145.55 | 3.744 | |
| 11,300.0 | 7,247.5 | 11,540.5 | 7,459.8 | 80.1 | 80.4 | -112.75 | -4,068.1 | 551.8 | 544.0 | 395.0 | 149.00 | 3.651 | |
| 11,400.0 | 7,247.0 | 11,640.5 | 7,459.5 | 81.9 | 82.2 | -112.81 | -4,168.1 | 551.8 | 543.0 | 390.6 | 152.46 | 3.562 | |
| 11,500.0 | 7,246.6 | 11,740.5 | 7,459.1 | 83.8 | 84.1 | -112.86 | -4,268.1 | 551.8 | 542.0 | 386.1 | 155.91 | 3.477 | |
| 11,600.0 | 7,246.1 | 11,840.5 | 7,458.8 | 85.7 | 86.0 | -112.92 | -4,368.1 | 551.8 | 541.1 | 381.7 | 159.37 | 3.395 | |
| 11,700.0 | 7,245.6 | 11,940.5 | 7,458.5 | 87.6 | 87.8 | -112.98 | -4,468.1 | 551.8 | 540.1 | 377.3 | 162.82 | 3.317 | |
| 11,800.0 | 7,245.2 | 12,040.5 | 7,458.1 | 89.5 | 89.7 | -113.04 | -4,568.1 | 551.8 | 539.1 | 372.8 | 166.28 | 3.242 | |
| 11,834.5 | 7,245.0 | 12,069.8 | 7,458.0 | 90.1 | 90.3 | -113.06 | -4,597.3 | 551.8 | 538.8 | 371.4 | 167.38 | 3.219 SF | |

Company: Verdad Oil & Gas Corporation
Project: SEC.28-T1N-R65W
Reference Site: Young 01N-65W-28 Pad Sec.28-T1N-R65W
Site Error: 0.0ft
Reference Well: Young 01N-65W-28-6N
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (9-2-14)

Local Co-ordinate Reference: Well Young 01N-65W-28-6N
TVD Reference: WELL @ 5085.0ft (Original Well Elev)
MD Reference: WELL @ 5085.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 5085.0ft (Original Well Elev) Coordinates are relative to: Young 01N-65W-28-6N

Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.54°



Company: Verdad Oil & Gas Corporation
Project: SEC.28-T1N-R65W
Reference Site: Young 01N-65W-28 Pad Sec.28-T1N-R65W
Site Error: 0.0ft
Reference Well: Young 01N-65W-28-6N
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (9-2-14)

Local Co-ordinate Reference: Well Young 01N-65W-28-6N
TVD Reference: WELL @ 5085.0ft (Original Well Elev)
MD Reference: WELL @ 5085.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 5085.0ft (Original Well Elev) Coordinates are relative to: Young 01N-65W-28-6N
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.54°

