

Great Western

Well Name: **Taoka KF 01-032HN**

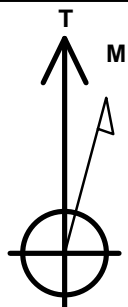
Surface Location: Taoka East Pad Sec.1-T1N-R65W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4955.9

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|---|-------|------------|------------|-----------|-------------|------|
| 0.0 | 0.0 | 1271005.74 | 3250187.21 | 40.073839 | -104.605981 | |
| RKB - 16.5' WELL @ 4972.4ft (RKB - 16.5') | | | | | | |

WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|------------------------------|--------|--------|---------|-------|
| SHL 224'FSL & 928'FEL | 1.0 | 0.0 | 0.0 | Point |
| BHL 470'FNL & 2318'FEL | 6962.4 | 4492.9 | -1392.6 | Point |
| Entry Pt. 460'FSL & 2330'FEL | 6962.4 | 234.7 | -1402.4 | Point |



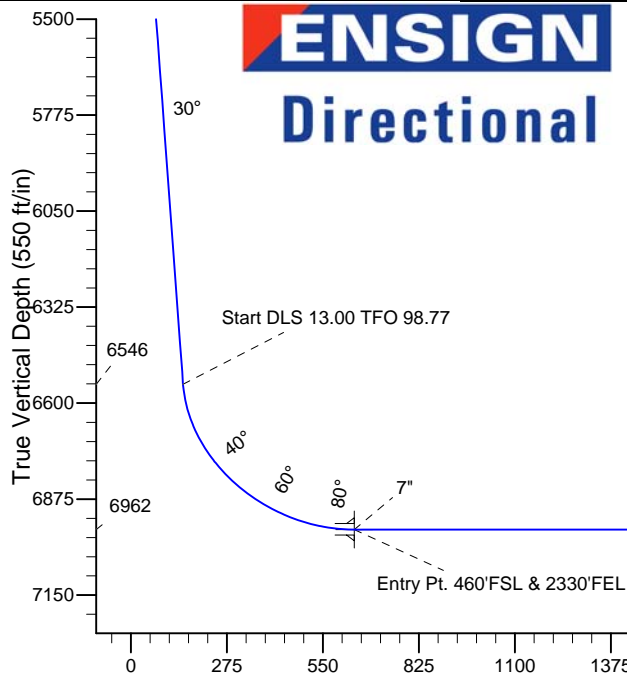
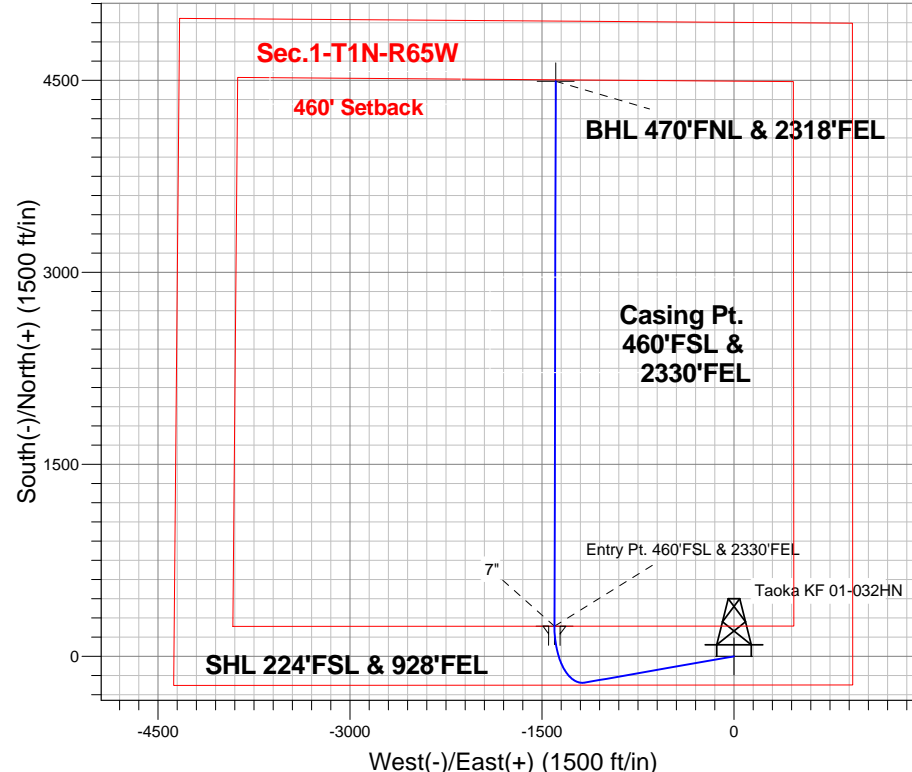
Azimuths to True North
Magnetic North: 8.42°

Magnetic Field
Strength: 52719.9snT
Dip Angle: 66.73°
Date: 11/18/2013
Model: IGRF2010

Taoka East Pad Sec.1-T1N-R65W
Taoka KF 01-032HN
Plan #1 (11-18-13)
7:54, November 20 2013

ANNOTATIONS

| TVD | MD | Annotation |
|--------|---------|---------------------------|
| 4000.0 | 4000.0 | KOP - Start Build 3.00 |
| 6546.3 | 6841.6 | Start DLS 13.00 TFO 98.77 |
| 6962.4 | 11831.1 | TD at 11831.1 |



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 | 4000.0 | 0.00 | 0.00 | 4000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 5007.3 | 30.22 | 260.02 | 4961.2 | -45.0 | -255.6 | 3.00 | 260.02 | 32.7 | |
| 4 | 6841.6 | 30.22 | 260.02 | 6546.2 | -204.9 | -1164.8 | 0.00 | 0.00 | 149.1 | |
| 5 | 7572.9 | 90.00 | 0.14 | 6962.4 | 234.7 | -1402.4 | 13.00 | 98.77 | 639.3 | Entry Pt. 460'FSL & 2330'FEL |
| 6 | 7573.8 | 90.00 | 0.13 | 6962.4 | 235.5 | -1402.4 | 1.00 | -90.00 | 640.2 | |
| 7 | 11831.1 | 90.00 | 0.13 | 6962.4 | 4492.9 | -1392.6 | 0.00 | 0.00 | 4703.7 | BHL 470'FNL & 2318'FEL |

BHL 470'FNL & 2318'FEL

TD at 11831.1

Vertical Section at 342.78° (550 ft/in)



Great Western

SEC.1-T1N-R65W

Taoka East Pad Sec.1-T1N-R65W

Taoka KF 01-032HN

Wellbore #1

Plan: Plan #1 (11-18-13)

Standard Planning Report

20 November, 2013

| 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 | |
| 4,000.0 | 0.00 | 0.00 | 4,000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,007.3 | 30.22 | 260.02 | 4,961.2 | -45.0 | -255.6 | 3.00 | 3.00 | 0.00 | 260.02 | |
| 6,841.6 | 30.22 | 260.02 | 6,546.2 | -204.9 | -1,164.8 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,572.9 | 90.00 | 0.14 | 6,962.4 | 234.7 | -1,402.4 | 13.00 | 8.17 | 13.69 | 98.77 | Entry Pt. 460'FSL & |
| 7,573.8 | 90.00 | 0.13 | 6,962.4 | 235.5 | -1,402.4 | 1.00 | 0.00 | -1.00 | -90.00 | |
| 11,831.1 | 90.00 | 0.13 | 6,962.4 | 4,492.9 | -1,392.6 | 0.00 | 0.00 | 0.00 | 0.00 | BHL 470'FNL & 231' |

| | | | |
|------------------|-------------------------------|-------------------------------------|-------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Taoka KF 01-032HN |
| Company: | Great Western | TVD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Project: | SEC.1-T1N-R65W | MD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Site: | Taoka East Pad Sec.1-T1N-R65W | North Reference: | True |
| Well: | Taoka KF 01-032HN | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (11-18-13) | | |

| 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 |
| 1.0 | 0.00 | 0.00 | 1.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| SHL 224'FSL & 928'FEL | | | | | | | | | |
| 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 |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 0.00 | 0.00 | 2,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 0.00 | 0.00 | 2,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 0.00 | 0.00 | 2,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 0.00 | 0.00 | 3,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 0.00 | 0.00 | 3,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 0.00 | 0.00 | 3,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 0.00 | 0.00 | 3,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 0.00 | 0.00 | 3,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 0.00 | 0.00 | 3,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 0.00 | 0.00 | 3,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 0.00 | 0.00 | 3,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 0.00 | 0.00 | 3,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 0.00 | 0.00 | 3,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 0.00 | 0.00 | 4,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| KOP - Start Build 3.00 | | | | | | | | | |
| 4,100.0 | 3.00 | 260.02 | 4,100.0 | -0.5 | -2.6 | 0.3 | 3.00 | 3.00 | 0.00 |
| 4,200.0 | 6.00 | 260.02 | 4,199.6 | -1.8 | -10.3 | 1.3 | 3.00 | 3.00 | 0.00 |
| 4,300.0 | 9.00 | 260.02 | 4,298.8 | -4.1 | -23.2 | 3.0 | 3.00 | 3.00 | 0.00 |
| 4,400.0 | 12.00 | 260.02 | 4,397.1 | -7.2 | -41.1 | 5.3 | 3.00 | 3.00 | 0.00 |
| 4,500.0 | 15.00 | 260.02 | 4,494.3 | -11.3 | -64.1 | 8.2 | 3.00 | 3.00 | 0.00 |
| 4,600.0 | 18.00 | 260.02 | 4,590.2 | -16.2 | -92.1 | 11.8 | 3.00 | 3.00 | 0.00 |
| 4,700.0 | 21.00 | 260.02 | 4,684.4 | -22.0 | -124.9 | 16.0 | 3.00 | 3.00 | 0.00 |
| 4,800.0 | 24.00 | 260.02 | 4,776.8 | -28.6 | -162.6 | 20.8 | 3.00 | 3.00 | 0.00 |
| 4,900.0 | 27.00 | 260.02 | 4,867.1 | -36.1 | -205.0 | 26.2 | 3.00 | 3.00 | 0.00 |
| 5,000.0 | 30.00 | 260.02 | 4,954.9 | -44.3 | -252.0 | 32.3 | 3.00 | 3.00 | 0.00 |

| | | | |
|------------------|-------------------------------|-------------------------------------|-------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Taoka KF 01-032HN |
| Company: | Great Western | TVD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Project: | SEC.1-T1N-R65W | MD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Site: | Taoka East Pad Sec.1-T1N-R65W | North Reference: | True |
| Well: | Taoka KF 01-032HN | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (11-18-13) | | |

| 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) |
| 5,007.3 | 30.22 | 260.02 | 4,961.2 | -45.0 | -255.6 | 32.7 | 3.00 | 3.00 | 0.00 |
| 5,100.0 | 30.22 | 260.02 | 5,041.3 | -53.1 | -301.6 | 38.6 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 30.22 | 260.02 | 5,127.8 | -61.8 | -351.1 | 45.0 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 30.22 | 260.02 | 5,214.2 | -70.5 | -400.7 | 51.3 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 30.22 | 260.02 | 5,300.6 | -79.2 | -450.3 | 57.6 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 30.22 | 260.02 | 5,387.0 | -87.9 | -499.8 | 64.0 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 30.22 | 260.02 | 5,473.4 | -96.7 | -549.4 | 70.3 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 30.22 | 260.02 | 5,559.8 | -105.4 | -599.0 | 76.7 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 30.22 | 260.02 | 5,646.2 | -114.1 | -648.5 | 83.0 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 30.22 | 260.02 | 5,732.6 | -122.8 | -698.1 | 89.4 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 30.22 | 260.02 | 5,819.0 | -131.5 | -747.7 | 95.7 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 30.22 | 260.02 | 5,905.5 | -140.3 | -797.2 | 102.1 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 30.22 | 260.02 | 5,991.9 | -149.0 | -846.8 | 108.4 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 30.22 | 260.02 | 6,078.3 | -157.7 | -896.4 | 114.8 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 30.22 | 260.02 | 6,164.7 | -166.4 | -946.0 | 121.1 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 30.22 | 260.02 | 6,251.1 | -175.1 | -995.5 | 127.4 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 30.22 | 260.02 | 6,337.5 | -183.9 | -1,045.1 | 133.8 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 30.22 | 260.02 | 6,423.9 | -192.6 | -1,094.7 | 140.1 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 30.22 | 260.02 | 6,510.3 | -201.3 | -1,144.2 | 146.5 | 0.00 | 0.00 | 0.00 |
| 6,841.6 | 30.22 | 260.02 | 6,546.3 | -204.9 | -1,164.8 | 149.1 | 0.00 | 0.00 | 0.00 |
| Start DLS 13.00 TFO 98.77 | | | | | | | | | |
| 6,900.0 | 29.93 | 275.21 | 6,596.9 | -206.2 | -1,193.9 | 156.5 | 13.01 | -0.50 | 26.00 |
| 7,000.0 | 33.29 | 299.32 | 6,682.4 | -190.4 | -1,242.9 | 186.1 | 13.00 | 3.37 | 24.12 |
| 7,100.0 | 40.34 | 317.67 | 6,762.6 | -152.9 | -1,288.8 | 235.6 | 13.00 | 7.05 | 18.35 |
| 7,200.0 | 49.50 | 330.81 | 6,833.5 | -95.5 | -1,329.3 | 302.3 | 13.00 | 9.16 | 13.14 |
| 7,300.0 | 59.77 | 340.62 | 6,891.4 | -21.2 | -1,362.3 | 383.1 | 13.00 | 10.27 | 9.81 |
| 7,400.0 | 70.63 | 348.51 | 6,933.4 | 66.1 | -1,386.1 | 473.5 | 13.00 | 10.86 | 7.89 |
| 7,500.0 | 81.79 | 355.39 | 6,957.2 | 162.1 | -1,399.6 | 569.2 | 13.00 | 11.16 | 6.88 |
| 7,572.9 | 90.00 | 0.14 | 6,962.4 | 234.7 | -1,402.4 | 639.3 | 13.00 | 11.26 | 6.51 |
| 7" - Entry Pt. 460'FSL & 2330'FEL | | | | | | | | | |
| 7,573.8 | 90.00 | 0.13 | 6,962.4 | 235.5 | -1,402.4 | 640.2 | 0.94 | 0.12 | -0.93 |
| 7,600.0 | 90.00 | 0.13 | 6,962.4 | 261.8 | -1,402.3 | 665.2 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.00 | 0.13 | 6,962.4 | 361.8 | -1,402.1 | 760.7 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.00 | 0.13 | 6,962.4 | 461.8 | -1,401.9 | 856.1 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.00 | 0.13 | 6,962.4 | 561.8 | -1,401.6 | 951.6 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.00 | 0.13 | 6,962.4 | 661.8 | -1,401.4 | 1,047.0 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.00 | 0.13 | 6,962.4 | 761.8 | -1,401.2 | 1,142.4 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.00 | 0.13 | 6,962.4 | 861.8 | -1,400.9 | 1,237.9 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.00 | 0.13 | 6,962.4 | 961.8 | -1,400.7 | 1,333.3 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 0.13 | 6,962.4 | 1,061.8 | -1,400.5 | 1,428.8 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 0.13 | 6,962.4 | 1,161.8 | -1,400.2 | 1,524.2 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.00 | 0.13 | 6,962.4 | 1,261.8 | -1,400.0 | 1,619.7 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.00 | 0.13 | 6,962.4 | 1,361.8 | -1,399.8 | 1,715.1 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 0.13 | 6,962.4 | 1,461.8 | -1,399.6 | 1,810.6 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 0.13 | 6,962.4 | 1,561.8 | -1,399.3 | 1,906.0 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 0.13 | 6,962.4 | 1,661.8 | -1,399.1 | 2,001.5 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.00 | 0.13 | 6,962.4 | 1,761.8 | -1,398.9 | 2,096.9 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.00 | 0.13 | 6,962.4 | 1,861.8 | -1,398.6 | 2,192.4 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.00 | 0.13 | 6,962.4 | 1,961.8 | -1,398.4 | 2,287.8 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 0.13 | 6,962.4 | 2,061.8 | -1,398.2 | 2,383.3 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.00 | 0.13 | 6,962.4 | 2,161.8 | -1,398.0 | 2,478.7 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 0.13 | 6,962.4 | 2,261.8 | -1,397.7 | 2,574.2 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.00 | 0.13 | 6,962.4 | 2,361.8 | -1,397.5 | 2,669.6 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.00 | 0.13 | 6,962.4 | 2,461.8 | -1,397.3 | 2,765.1 | 0.00 | 0.00 | 0.00 |

| Plan Annotations | | | | | |
|------------------|---------------------------|---------------------------|-------------------|----------|---------------------------|
| | Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | | +N/-S | +E/-W | |
| | | | (ft) | (ft) | |
| | 4,000.0 | 4,000.0 | 0.0 | 0.0 | KOP - Start Build 3.00 |
| | 6,841.6 | 6,546.3 | -204.9 | -1,164.8 | Start DLS 13.00 TFO 98.77 |
| | 11,831.1 | 6,962.4 | 4,492.9 | -1,392.6 | TD at 11831.1 |



Great Western

SEC.1-T1N-R65W

Taoka East Pad Sec.1-T1N-R65W

Taoka KF 01-032HN

Wellbore #1

Plan #1 (11-18-13)

Anticollision Report

20 November, 2013

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Taoka KF 01-032HN |
| Project: | SEC.1-T1N-R65W | TVD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Reference Site: | Taoka East Pad Sec.1-T1N-R65W | MD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Taoka KF 01-032HN | 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 (11-18-13) | Offset TVD Reference: | Offset Datum |

| Offset Design Taoka East Pad Sec.1-T1N-R65W - Taoka KF 01-033HC - Wellbore #1 - Plan #1 (11-18-13) | | | | | | | | | | | | | 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 | | |
| 2,400.0 | 2,400.0 | 2,400.0 | 2,400.0 | 5.3 | 5.3 | 90.02 | 0.0 | 30.5 | 30.5 | 19.9 | 10.56 | 2.888 | | |
| 2,500.0 | 2,500.0 | 2,500.0 | 2,500.0 | 5.5 | 5.5 | 90.02 | 0.0 | 30.5 | 30.5 | 19.5 | 11.01 | 2.770 | | |
| 2,600.0 | 2,600.0 | 2,600.0 | 2,600.0 | 5.7 | 5.7 | 90.02 | 0.0 | 30.5 | 30.5 | 19.0 | 11.46 | 2.661 | | |
| 2,700.0 | 2,700.0 | 2,700.0 | 2,700.0 | 6.0 | 6.0 | 90.02 | 0.0 | 30.5 | 30.5 | 18.6 | 11.91 | 2.561 | | |
| 2,800.0 | 2,800.0 | 2,800.0 | 2,800.0 | 6.2 | 6.2 | 90.02 | 0.0 | 30.5 | 30.5 | 18.1 | 12.36 | 2.468 | | |
| 2,900.0 | 2,900.0 | 2,900.0 | 2,900.0 | 6.4 | 6.4 | 90.02 | 0.0 | 30.5 | 30.5 | 17.7 | 12.81 | 2.381 | | |
| 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 6.6 | 6.6 | 90.02 | 0.0 | 30.5 | 30.5 | 17.2 | 13.26 | 2.300 | | |
| 3,100.0 | 3,100.0 | 3,100.0 | 3,100.0 | 6.9 | 6.9 | 90.02 | 0.0 | 30.5 | 30.5 | 16.8 | 13.71 | 2.225 | | |
| 3,200.0 | 3,200.0 | 3,200.0 | 3,200.0 | 7.1 | 7.1 | 90.02 | 0.0 | 30.5 | 30.5 | 16.3 | 14.16 | 2.154 | | |
| 3,300.0 | 3,300.0 | 3,300.0 | 3,300.0 | 7.3 | 7.3 | 90.02 | 0.0 | 30.5 | 30.5 | 15.9 | 14.61 | 2.088 | | |
| 3,400.0 | 3,400.0 | 3,400.0 | 3,400.0 | 7.5 | 7.5 | 90.02 | 0.0 | 30.5 | 30.5 | 15.4 | 15.06 | 2.026 | | |
| 3,500.0 | 3,500.0 | 3,500.0 | 3,500.0 | 7.8 | 7.8 | 90.02 | 0.0 | 30.5 | 30.5 | 15.0 | 15.51 | 1.967 | | |
| 3,600.0 | 3,600.0 | 3,600.0 | 3,600.0 | 8.0 | 8.0 | 90.02 | 0.0 | 30.5 | 30.5 | 14.5 | 15.96 | 1.912 | | |
| 3,700.0 | 3,700.0 | 3,700.0 | 3,700.0 | 8.2 | 8.2 | 90.02 | 0.0 | 30.5 | 30.5 | 14.1 | 16.41 | 1.859 | | |
| 3,800.0 | 3,800.0 | 3,800.0 | 3,800.0 | 8.4 | 8.4 | 90.02 | 0.0 | 30.5 | 30.5 | 13.6 | 16.86 | 1.810 | | |
| 3,900.0 | 3,900.0 | 3,900.0 | 3,900.0 | 8.7 | 8.7 | 90.02 | 0.0 | 30.5 | 30.5 | 13.2 | 17.31 | 1.763 | | |
| 4,000.0 | 4,000.0 | 4,000.0 | 4,000.0 | 8.9 | 8.9 | 90.02 | 0.0 | 30.5 | 30.5 | 12.7 | 17.76 | 1.718 CC, ES, SF | | |
| 4,100.0 | 4,100.0 | 4,100.0 | 4,100.0 | 9.1 | 9.1 | -170.77 | 0.0 | 30.5 | 33.1 | 14.9 | 18.17 | 1.821 | | |
| 4,200.0 | 4,199.6 | 4,199.6 | 4,199.6 | 9.3 | 9.3 | -172.51 | 0.0 | 30.5 | 40.8 | 22.3 | 18.52 | 2.206 | | |
| 4,300.0 | 4,298.8 | 4,298.8 | 4,298.8 | 9.5 | 9.5 | -174.28 | 0.0 | 30.5 | 53.8 | 35.0 | 18.83 | 2.859 | | |
| 4,400.0 | 4,397.1 | 4,397.1 | 4,397.1 | 9.7 | 9.8 | -175.68 | 0.0 | 30.5 | 72.0 | 52.9 | 19.08 | 3.771 | | |
| 4,500.0 | 4,494.3 | 4,494.3 | 4,494.3 | 10.0 | 10.0 | -176.70 | 0.0 | 30.5 | 95.3 | 76.0 | 19.30 | 4.937 | | |
| 4,600.0 | 4,590.2 | 4,590.2 | 4,590.2 | 10.3 | 10.2 | -177.42 | 0.0 | 30.5 | 123.6 | 104.2 | 19.46 | 6.353 | | |
| 4,700.0 | 4,684.4 | 4,684.4 | 4,684.4 | 10.6 | 10.4 | -177.93 | 0.0 | 30.5 | 157.0 | 137.4 | 19.58 | 8.019 | | |
| 4,800.0 | 4,776.8 | 4,779.8 | 4,779.8 | 11.0 | 10.6 | -178.30 | -0.1 | 30.3 | 195.0 | 175.4 | 19.65 | 9.925 | | |
| 4,900.0 | 4,867.1 | 4,883.5 | 4,883.4 | 11.5 | 10.8 | -178.52 | -1.1 | 26.0 | 234.2 | 214.5 | 19.67 | 11.905 | | |
| 5,000.0 | 4,954.9 | 4,989.6 | 4,989.0 | 12.1 | 11.0 | -178.61 | -3.4 | 15.9 | 273.1 | 253.5 | 19.66 | 13.892 | | |
| 5,100.0 | 5,041.3 | 5,099.5 | 5,097.5 | 12.8 | 11.3 | -178.62 | -7.2 | -0.6 | 309.6 | 289.5 | 20.06 | 15.431 | | |
| 5,200.0 | 5,127.8 | 5,214.0 | 5,209.5 | 13.5 | 11.5 | -178.54 | -12.7 | -24.1 | 340.6 | 320.1 | 20.53 | 16.589 | | |
| 5,300.0 | 5,214.2 | 5,332.7 | 5,323.7 | 14.3 | 11.9 | -178.38 | -20.0 | -55.4 | 365.7 | 344.7 | 21.02 | 17.400 | | |
| 5,400.0 | 5,300.6 | 5,454.8 | 5,438.9 | 15.1 | 12.2 | -178.15 | -29.1 | -94.7 | 384.8 | 363.2 | 21.54 | 17.862 | | |
| 5,500.0 | 5,387.0 | 5,579.4 | 5,553.6 | 16.0 | 12.7 | -177.85 | -40.1 | -142.2 | 397.4 | 375.3 | 22.09 | 17.993 | | |
| 5,600.0 | 5,473.4 | 5,705.6 | 5,666.2 | 16.9 | 13.3 | -177.45 | -53.0 | -197.5 | 403.6 | 380.9 | 22.67 | 17.806 | | |
| 5,700.0 | 5,559.8 | 5,821.8 | 5,766.6 | 17.8 | 14.0 | -177.00 | -66.2 | -254.5 | 403.7 | 380.4 | 23.25 | 17.361 | | |
| 5,800.0 | 5,646.2 | 5,921.7 | 5,852.3 | 18.8 | 14.7 | -176.60 | -77.8 | -304.6 | 402.6 | 378.8 | 23.82 | 16.898 | | |
| 5,900.0 | 5,732.6 | 6,021.7 | 5,938.0 | 19.7 | 15.5 | -176.19 | -89.5 | -354.7 | 401.5 | 377.1 | 24.42 | 16.443 | | |
| 6,000.0 | 5,819.0 | 6,121.6 | 6,023.7 | 20.7 | 16.3 | -175.79 | -101.1 | -404.8 | 400.4 | 375.4 | 25.04 | 15.995 | | |
| 6,100.0 | 5,905.5 | 6,221.6 | 6,109.4 | 21.7 | 17.1 | -175.37 | -112.7 | -454.9 | 399.4 | 373.7 | 25.68 | 15.556 | | |
| 6,200.0 | 5,991.9 | 6,321.5 | 6,195.1 | 22.7 | 18.0 | -174.96 | -124.4 | -505.1 | 398.4 | 372.0 | 26.34 | 15.126 | | |
| 6,300.0 | 6,078.3 | 6,421.5 | 6,280.8 | 23.7 | 18.8 | -174.55 | -136.0 | -555.2 | 397.4 | 370.3 | 27.02 | 14.705 | | |
| 6,400.0 | 6,164.7 | 6,521.4 | 6,366.5 | 24.8 | 19.8 | -174.13 | -147.7 | -605.3 | 396.4 | 368.7 | 27.73 | 14.295 | | |
| 6,500.0 | 6,251.1 | 6,621.4 | 6,452.2 | 25.8 | 20.7 | -173.71 | -159.3 | -655.4 | 395.4 | 367.0 | 28.46 | 13.895 | | |
| 6,600.0 | 6,337.5 | 6,721.3 | 6,537.9 | 26.8 | 21.7 | -173.29 | -170.9 | -705.5 | 394.5 | 365.3 | 29.21 | 13.505 | | |
| 6,700.0 | 6,423.9 | 6,821.3 | 6,623.6 | 27.9 | 22.7 | -172.87 | -182.6 | -755.6 | 393.6 | 363.6 | 29.99 | 13.125 | | |
| 6,800.0 | 6,510.3 | 6,921.2 | 6,709.2 | 29.0 | 23.7 | -172.44 | -194.2 | -805.7 | 392.7 | 361.9 | 30.78 | 12.756 | | |
| 6,900.0 | 6,596.9 | 7,020.9 | 6,794.7 | 29.9 | 24.6 | 175.39 | -205.4 | -855.7 | 391.8 | 360.1 | 31.69 | 12.362 | | |
| 7,000.0 | 6,682.4 | 7,121.2 | 6,881.0 | 30.8 | 25.5 | 156.59 | -201.3 | -906.2 | 391.1 | 358.5 | 32.55 | 12.013 | | |
| 7,100.0 | 6,762.6 | 7,224.3 | 6,966.6 | 31.6 | 26.3 | 143.60 | -173.7 | -956.1 | 390.8 | 357.7 | 33.08 | 11.814 | | |
| 7,140.2 | 6,792.5 | 7,266.6 | 6,999.7 | 31.8 | 26.6 | 139.97 | -155.9 | -975.5 | 390.7 | 357.5 | 33.18 | 11.775 | | |
| 7,200.0 | 6,833.5 | 7,330.3 | 7,046.4 | 32.2 | 27.0 | 135.87 | -122.2 | -1,002.7 | 390.8 | 357.5 | 33.26 | 11.749 | | |
| 7,300.0 | 6,891.4 | 7,438.9 | 7,114.8 | 32.7 | 27.6 | 131.53 | -48.2 | -1,042.5 | 391.0 | 357.7 | 33.29 | 11.747 | | |
| 7,400.0 | 6,933.4 | 7,549.9 | 7,166.4 | 33.1 | 28.1 | 129.22 | 45.0 | -1,072.5 | 391.3 | 357.8 | 33.50 | 11.682 | | |

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

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Taoka KF 01-032HN |
| Project: | SEC.1-T1N-R65W | TVD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Reference Site: | Taoka East Pad Sec.1-T1N-R65W | MD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Taoka KF 01-032HN | 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 (11-18-13) | Offset TVD Reference: | Offset Datum |

| Offset Design Taoka East Pad Sec.1-T1N-R65W - Taoka KF 01-033HC - Wellbore #1 - Plan #1 (11-18-13) | | | | | | | | | | | | Offset Site Error: | 0.0ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0ft |
| 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 |
| 7,500.0 | 6,957.2 | 7,662.5 | 7,196.6 | 33.4 | 28.4 | 128.17 | 151.8 | -1,089.9 | 391.6 | 357.3 | 34.25 | 11.433 | |
| 7,600.0 | 6,962.4 | 7,772.4 | 7,203.4 | 33.6 | 28.6 | 127.98 | 261.2 | -1,093.6 | 391.6 | 356.1 | 35.54 | 11.019 | |
| 7,700.0 | 6,962.4 | 7,872.4 | 7,203.4 | 33.8 | 28.9 | 127.98 | 361.2 | -1,093.4 | 391.6 | 354.7 | 36.88 | 10.618 | |
| 7,800.0 | 6,962.4 | 7,972.4 | 7,203.4 | 34.1 | 29.3 | 127.99 | 461.2 | -1,093.3 | 391.5 | 353.1 | 38.44 | 10.187 | |
| 7,900.0 | 6,962.4 | 8,072.4 | 7,203.4 | 34.5 | 29.8 | 127.99 | 561.2 | -1,093.1 | 391.5 | 351.3 | 40.18 | 9.743 | |
| 8,000.0 | 6,962.4 | 8,172.4 | 7,203.4 | 35.0 | 30.4 | 128.00 | 661.2 | -1,092.9 | 391.5 | 349.4 | 42.09 | 9.301 | |
| 8,100.0 | 6,962.4 | 8,272.4 | 7,203.4 | 35.6 | 31.1 | 128.00 | 761.2 | -1,092.7 | 391.5 | 347.3 | 44.14 | 8.868 | |
| 8,200.0 | 6,962.4 | 8,372.4 | 7,203.4 | 36.2 | 31.9 | 128.00 | 861.2 | -1,092.5 | 391.4 | 345.1 | 46.32 | 8.451 | |
| 8,300.0 | 6,962.4 | 8,472.4 | 7,203.4 | 37.0 | 32.8 | 128.01 | 961.2 | -1,092.3 | 391.4 | 342.8 | 48.60 | 8.053 | |
| 8,400.0 | 6,962.4 | 8,572.4 | 7,203.4 | 37.8 | 33.9 | 128.01 | 1,061.2 | -1,092.1 | 391.4 | 340.4 | 50.98 | 7.677 | |
| 8,500.0 | 6,962.4 | 8,672.4 | 7,203.4 | 38.8 | 35.0 | 128.01 | 1,161.2 | -1,091.9 | 391.3 | 337.9 | 53.43 | 7.324 | |
| 8,600.0 | 6,962.4 | 8,772.4 | 7,203.4 | 39.8 | 36.1 | 128.02 | 1,261.2 | -1,091.8 | 391.3 | 335.3 | 55.95 | 6.993 | |
| 8,700.0 | 6,962.4 | 8,872.4 | 7,203.4 | 40.9 | 37.4 | 128.02 | 1,361.2 | -1,091.6 | 391.3 | 332.7 | 58.54 | 6.684 | |
| 8,800.0 | 6,962.4 | 8,972.4 | 7,203.4 | 42.0 | 38.7 | 128.03 | 1,461.2 | -1,091.4 | 391.2 | 330.1 | 61.17 | 6.395 | |
| 8,900.0 | 6,962.4 | 9,072.4 | 7,203.4 | 43.3 | 40.1 | 128.03 | 1,561.2 | -1,091.2 | 391.2 | 327.3 | 63.86 | 6.126 | |
| 9,000.0 | 6,962.4 | 9,172.4 | 7,203.4 | 44.5 | 41.5 | 128.03 | 1,661.2 | -1,091.0 | 391.2 | 324.6 | 66.58 | 5.875 | |
| 9,100.0 | 6,962.4 | 9,272.4 | 7,203.4 | 45.9 | 43.0 | 128.04 | 1,761.2 | -1,090.8 | 391.1 | 321.8 | 69.34 | 5.641 | |
| 9,200.0 | 6,962.4 | 9,372.4 | 7,203.4 | 47.2 | 44.5 | 128.04 | 1,861.2 | -1,090.6 | 391.1 | 319.0 | 72.13 | 5.422 | |
| 9,300.0 | 6,962.4 | 9,472.4 | 7,203.4 | 48.7 | 46.0 | 128.04 | 1,961.2 | -1,090.4 | 391.1 | 316.1 | 74.95 | 5.218 | |
| 9,400.0 | 6,962.4 | 9,572.4 | 7,203.4 | 50.1 | 47.6 | 128.05 | 2,061.2 | -1,090.2 | 391.0 | 313.2 | 77.79 | 5.027 | |
| 9,500.0 | 6,962.4 | 9,672.4 | 7,203.4 | 51.6 | 49.2 | 128.05 | 2,161.2 | -1,090.1 | 391.0 | 310.3 | 80.66 | 4.848 | |
| 9,600.0 | 6,962.4 | 9,772.4 | 7,203.4 | 53.1 | 50.8 | 128.05 | 2,261.2 | -1,089.9 | 391.0 | 307.4 | 83.55 | 4.680 | |
| 9,700.0 | 6,962.4 | 9,872.4 | 7,203.4 | 54.7 | 52.4 | 128.06 | 2,361.2 | -1,089.7 | 390.9 | 304.5 | 86.45 | 4.522 | |
| 9,800.0 | 6,962.4 | 9,972.4 | 7,203.4 | 56.3 | 54.1 | 128.06 | 2,461.2 | -1,089.5 | 390.9 | 301.5 | 89.37 | 4.374 | |
| 9,900.0 | 6,962.4 | 10,072.4 | 7,203.4 | 57.9 | 55.8 | 128.07 | 2,561.2 | -1,089.3 | 390.9 | 298.6 | 92.31 | 4.235 | |
| 10,000.0 | 6,962.4 | 10,172.4 | 7,203.4 | 59.5 | 57.4 | 128.07 | 2,661.2 | -1,089.1 | 390.8 | 295.6 | 95.25 | 4.103 | |
| 10,100.0 | 6,962.4 | 10,272.4 | 7,203.4 | 61.1 | 59.2 | 128.07 | 2,761.2 | -1,088.9 | 390.8 | 292.6 | 98.21 | 3.979 | |
| 10,200.0 | 6,962.4 | 10,372.4 | 7,203.4 | 62.8 | 60.9 | 128.08 | 2,861.2 | -1,088.7 | 390.8 | 289.6 | 101.18 | 3.862 | |
| 10,300.0 | 6,962.4 | 10,472.4 | 7,203.4 | 64.5 | 62.6 | 128.08 | 2,961.2 | -1,088.5 | 390.8 | 286.6 | 104.17 | 3.751 | |
| 10,400.0 | 6,962.4 | 10,572.4 | 7,203.4 | 66.2 | 64.4 | 128.08 | 3,061.2 | -1,088.4 | 390.7 | 283.6 | 107.16 | 3.646 | |
| 10,500.0 | 6,962.4 | 10,672.4 | 7,203.4 | 67.9 | 66.1 | 128.09 | 3,161.2 | -1,088.2 | 390.7 | 280.5 | 110.15 | 3.547 | |
| 10,600.0 | 6,962.4 | 10,772.4 | 7,203.4 | 69.6 | 67.9 | 128.09 | 3,261.2 | -1,088.0 | 390.7 | 277.5 | 113.16 | 3.452 | |
| 10,700.0 | 6,962.4 | 10,872.4 | 7,203.4 | 71.3 | 69.6 | 128.09 | 3,361.2 | -1,087.8 | 390.6 | 274.5 | 116.17 | 3.362 | |
| 10,800.0 | 6,962.4 | 10,972.4 | 7,203.4 | 73.0 | 71.4 | 128.10 | 3,461.2 | -1,087.6 | 390.6 | 271.4 | 119.19 | 3.277 | |
| 10,900.0 | 6,962.4 | 11,072.4 | 7,203.4 | 74.8 | 73.2 | 128.10 | 3,561.2 | -1,087.4 | 390.6 | 268.3 | 122.22 | 3.196 | |
| 11,000.0 | 6,962.4 | 11,172.4 | 7,203.4 | 76.5 | 75.0 | 128.11 | 3,661.2 | -1,087.2 | 390.5 | 265.3 | 125.25 | 3.118 | |
| 11,100.0 | 6,962.4 | 11,272.4 | 7,203.4 | 78.3 | 76.8 | 128.11 | 3,761.2 | -1,087.0 | 390.5 | 262.2 | 128.29 | 3.044 | |
| 11,200.0 | 6,962.4 | 11,372.4 | 7,203.4 | 80.1 | 78.6 | 128.11 | 3,861.2 | -1,086.8 | 390.5 | 259.1 | 131.33 | 2.973 | |
| 11,300.0 | 6,962.4 | 11,472.4 | 7,203.4 | 81.8 | 80.4 | 128.12 | 3,961.2 | -1,086.7 | 390.4 | 256.1 | 134.37 | 2.906 | |
| 11,400.0 | 6,962.4 | 11,572.4 | 7,203.4 | 83.6 | 82.2 | 128.12 | 4,061.2 | -1,086.5 | 390.4 | 253.0 | 137.42 | 2.841 | |
| 11,500.0 | 6,962.4 | 11,672.4 | 7,203.4 | 85.4 | 84.0 | 128.12 | 4,161.2 | -1,086.3 | 390.4 | 249.9 | 140.47 | 2.779 | |
| 11,600.0 | 6,962.4 | 11,772.4 | 7,203.4 | 87.2 | 85.9 | 128.13 | 4,261.2 | -1,086.1 | 390.3 | 246.8 | 143.53 | 2.720 | |
| 11,700.0 | 6,962.4 | 11,872.4 | 7,203.4 | 89.0 | 87.7 | 128.13 | 4,361.2 | -1,085.9 | 390.3 | 243.7 | 146.59 | 2.663 | |
| 11,800.0 | 6,962.4 | 11,972.4 | 7,203.4 | 90.8 | 89.5 | 128.13 | 4,461.2 | -1,085.7 | 390.3 | 240.6 | 149.65 | 2.608 | |
| 11,826.8 | 6,962.4 | 11,999.2 | 7,203.4 | 91.3 | 90.0 | 128.14 | 4,488.0 | -1,085.7 | 390.3 | 239.8 | 150.48 | 2.594 | |
| 11,831.1 | 6,962.4 | 12,002.3 | 7,203.4 | 91.4 | 90.1 | 128.14 | 4,491.0 | -1,085.7 | 390.3 | 239.7 | 150.59 | 2.592 | |

| Taoka East Pad Sec.1-T1N-R65W - Taoka KF 01-034HN - Wellbore #1 - Plan #1 (11-18-13) | | | | | | | | | | | | 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 | 60.7 | 60.7 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 90.02 | 0.0 | 60.7 | 60.7 | 60.5 | 0.22 | 270.192 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.02 | 0.0 | 60.7 | 60.7 | 60.1 | 0.67 | 90.064 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | 90.02 | 0.0 | 60.7 | 60.7 | 59.6 | 1.12 | 54.038 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 90.02 | 0.0 | 60.7 | 60.7 | 59.2 | 1.57 | 38.599 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | 90.02 | 0.0 | 60.7 | 60.7 | 58.7 | 2.02 | 30.021 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.2 | 1.2 | 90.02 | 0.0 | 60.7 | 60.7 | 58.3 | 2.47 | 24.563 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.5 | 1.5 | 90.02 | 0.0 | 60.7 | 60.7 | 57.8 | 2.92 | 20.784 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.7 | 1.7 | 90.02 | 0.0 | 60.7 | 60.7 | 57.4 | 3.37 | 18.013 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 1.9 | 1.9 | 90.02 | 0.0 | 60.7 | 60.7 | 56.9 | 3.82 | 15.894 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 2.1 | 2.1 | 90.02 | 0.0 | 60.7 | 60.7 | 56.5 | 4.27 | 14.221 | |
| 1,100.0 | 1,100.0 | 1,100.0 | 1,100.0 | 2.4 | 2.4 | 90.02 | 0.0 | 60.7 | 60.7 | 56.0 | 4.72 | 12.866 | |
| 1,200.0 | 1,200.0 | 1,200.0 | 1,200.0 | 2.6 | 2.6 | 90.02 | 0.0 | 60.7 | 60.7 | 55.6 | 5.17 | 11.747 | |
| 1,300.0 | 1,300.0 | 1,300.0 | 1,300.0 | 2.8 | 2.8 | 90.02 | 0.0 | 60.7 | 60.7 | 55.1 | 5.62 | 10.808 | |
| 1,400.0 | 1,400.0 | 1,400.0 | 1,400.0 | 3.0 | 3.0 | 90.02 | 0.0 | 60.7 | 60.7 | 54.7 | 6.07 | 10.007 | |
| 1,500.0 | 1,500.0 | 1,500.0 | 1,500.0 | 3.3 | 3.3 | 90.02 | 0.0 | 60.7 | 60.7 | 54.2 | 6.52 | 9.317 | |
| 1,600.0 | 1,600.0 | 1,600.0 | 1,600.0 | 3.5 | 3.5 | 90.02 | 0.0 | 60.7 | 60.7 | 53.8 | 6.97 | 8.716 | |
| 1,700.0 | 1,700.0 | 1,700.0 | 1,700.0 | 3.7 | 3.7 | 90.02 | 0.0 | 60.7 | 60.7 | 53.3 | 7.42 | 8.188 | |
| 1,800.0 | 1,800.0 | 1,800.0 | 1,800.0 | 3.9 | 3.9 | 90.02 | 0.0 | 60.7 | 60.7 | 52.9 | 7.87 | 7.720 | |
| 1,900.0 | 1,900.0 | 1,900.0 | 1,900.0 | 4.2 | 4.2 | 90.02 | 0.0 | 60.7 | 60.7 | 52.4 | 8.32 | 7.302 | |
| 2,000.0 | 2,000.0 | 2,000.0 | 2,000.0 | 4.4 | 4.4 | 90.02 | 0.0 | 60.7 | 60.7 | 52.0 | 8.77 | 6.928 | |
| 2,100.0 | 2,100.0 | 2,100.0 | 2,100.0 | 4.6 | 4.6 | 90.02 | 0.0 | 60.7 | 60.7 | 51.5 | 9.22 | 6.590 | |
| 2,200.0 | 2,200.0 | 2,200.0 | 2,200.0 | 4.8 | 4.8 | 90.02 | 0.0 | 60.7 | 60.7 | 51.1 | 9.66 | 6.284 | |
| 2,300.0 | 2,300.0 | 2,300.0 | 2,300.0 | 5.1 | 5.1 | 90.02 | 0.0 | 60.7 | 60.7 | 50.6 | 10.11 | 6.004 | |
| 2,400.0 | 2,400.0 | 2,400.0 | 2,400.0 | 5.3 | 5.3 | 90.02 | 0.0 | 60.7 | 60.7 | 50.2 | 10.56 | 5.749 | |
| 2,500.0 | 2,500.0 | 2,500.0 | 2,500.0 | 5.5 | 5.5 | 90.02 | 0.0 | 60.7 | 60.7 | 49.7 | 11.01 | 5.514 | |
| 2,600.0 | 2,600.0 | 2,600.0 | 2,600.0 | 5.7 | 5.7 | 90.02 | 0.0 | 60.7 | 60.7 | 49.3 | 11.46 | 5.298 | |
| 2,700.0 | 2,700.0 | 2,700.0 | 2,700.0 | 6.0 | 6.0 | 90.02 | 0.0 | 60.7 | 60.7 | 48.8 | 11.91 | 5.098 | |
| 2,800.0 | 2,800.0 | 2,800.0 | 2,800.0 | 6.2 | 6.2 | 90.02 | 0.0 | 60.7 | 60.7 | 48.4 | 12.36 | 4.913 | |
| 2,900.0 | 2,900.0 | 2,900.0 | 2,900.0 | 6.4 | 6.4 | 90.02 | 0.0 | 60.7 | 60.7 | 47.9 | 12.81 | 4.740 | |
| 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 6.6 | 6.6 | 90.02 | 0.0 | 60.7 | 60.7 | 47.5 | 13.26 | 4.580 | |
| 3,100.0 | 3,100.0 | 3,100.0 | 3,100.0 | 6.9 | 6.9 | 90.02 | 0.0 | 60.7 | 60.7 | 47.0 | 13.71 | 4.429 | |
| 3,200.0 | 3,200.0 | 3,200.0 | 3,200.0 | 7.1 | 7.1 | 90.02 | 0.0 | 60.7 | 60.7 | 46.6 | 14.16 | 4.289 | |
| 3,300.0 | 3,300.0 | 3,300.0 | 3,300.0 | 7.3 | 7.3 | 90.02 | 0.0 | 60.7 | 60.7 | 46.1 | 14.61 | 4.157 | |
| 3,400.0 | 3,400.0 | 3,400.0 | 3,400.0 | 7.5 | 7.5 | 90.02 | 0.0 | 60.7 | 60.7 | 45.7 | 15.06 | 4.033 | |
| 3,500.0 | 3,500.0 | 3,500.0 | 3,500.0 | 7.8 | 7.8 | 90.02 | 0.0 | 60.7 | 60.7 | 45.2 | 15.51 | 3.916 | |
| 3,600.0 | 3,600.0 | 3,600.0 | 3,600.0 | 8.0 | 8.0 | 90.02 | 0.0 | 60.7 | 60.7 | 44.8 | 15.96 | 3.806 | |
| 3,700.0 | 3,700.0 | 3,700.0 | 3,700.0 | 8.2 | 8.2 | 90.02 | 0.0 | 60.7 | 60.7 | 44.3 | 16.41 | 3.701 | |
| 3,800.0 | 3,800.0 | 3,800.0 | 3,800.0 | 8.4 | 8.4 | 90.02 | 0.0 | 60.7 | 60.7 | 43.9 | 16.86 | 3.603 | |
| 3,900.0 | 3,900.0 | 3,900.0 | 3,900.0 | 8.7 | 8.7 | 90.02 | 0.0 | 60.7 | 60.7 | 43.4 | 17.31 | 3.509 | |
| 4,000.0 | 4,000.0 | 4,000.0 | 4,000.0 | 8.9 | 8.9 | 90.02 | 0.0 | 60.7 | 60.7 | 43.0 | 17.76 | 3.420 CC, ES, SF | |
| 4,100.0 | 4,100.0 | 4,100.0 | 4,100.0 | 9.1 | 9.1 | -170.40 | 0.0 | 60.7 | 63.3 | 45.1 | 18.17 | 3.485 | |
| 4,200.0 | 4,199.6 | 4,199.6 | 4,199.6 | 9.3 | 9.3 | -171.42 | 0.0 | 60.7 | 71.1 | 52.5 | 18.52 | 3.837 | |
| 4,300.0 | 4,298.8 | 4,298.8 | 4,298.8 | 9.5 | 9.5 | -172.70 | 0.0 | 60.7 | 84.0 | 65.2 | 18.83 | 4.461 | |
| 4,400.0 | 4,397.1 | 4,397.1 | 4,397.1 | 9.7 | 9.8 | -173.94 | 0.0 | 60.7 | 102.1 | 83.0 | 19.09 | 5.349 | |
| 4,500.0 | 4,494.3 | 4,494.3 | 4,494.3 | 10.0 | 10.0 | -175.00 | 0.0 | 60.7 | 125.3 | 106.0 | 19.30 | 6.494 | |
| 4,600.0 | 4,590.2 | 4,590.2 | 4,590.2 | 10.3 | 10.2 | -175.86 | 0.0 | 60.7 | 153.6 | 134.2 | 19.46 | 7.894 | |
| 4,700.0 | 4,684.4 | 4,684.4 | 4,684.4 | 10.6 | 10.4 | -176.54 | 0.0 | 60.7 | 187.0 | 167.4 | 19.58 | 9.548 | |
| 4,800.0 | 4,776.8 | 4,776.8 | 4,776.8 | 11.0 | 10.6 | -177.06 | 0.0 | 60.7 | 225.2 | 205.5 | 19.65 | 11.458 | |
| 4,900.0 | 4,867.1 | 4,867.1 | 4,867.1 | 11.5 | 10.8 | -177.47 | 0.0 | 60.7 | 268.2 | 248.5 | 19.68 | 13.626 | |
| 5,000.0 | 4,954.9 | 4,961.7 | 4,961.7 | 12.1 | 11.0 | -177.80 | -0.2 | 60.3 | 315.5 | 295.8 | 19.67 | 16.035 | |
| 5,100.0 | 5,041.3 | 5,069.3 | 5,069.1 | 12.8 | 11.2 | -177.99 | -1.9 | 55.2 | 361.5 | 341.4 | 20.07 | 18.011 | |

COMPASS 2003.21 Build 46

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Taoka KF 01-032HN |
| Project: | SEC.1-T1N-R65W | TVD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Reference Site: | Taoka East Pad Sec.1-T1N-R65W | MD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Taoka KF 01-032HN | 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 (11-18-13) | 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 | 5,127.8 | 5,182.9 | 5,182.1 | 13.5 | 11.5 | -177.96 | -5.8 | 43.6 | 402.4 | 381.8 | 20.52 | 19.609 | | |
| 5,300.0 | 5,214.2 | 5,302.3 | 5,299.7 | 14.3 | 11.7 | -177.76 | -12.1 | 24.6 | 437.7 | 416.7 | 21.00 | 20.845 | | |
| 5,400.0 | 5,300.6 | 5,426.9 | 5,420.9 | 15.1 | 12.0 | -177.40 | -21.3 | -2.7 | 467.1 | 445.6 | 21.51 | 21.718 | | |
| 5,500.0 | 5,387.0 | 5,555.9 | 5,544.2 | 16.0 | 12.4 | -176.88 | -33.3 | -38.7 | 490.2 | 468.2 | 22.05 | 22.236 | | |
| 5,600.0 | 5,473.4 | 5,688.3 | 5,667.8 | 16.9 | 12.8 | -176.21 | -48.4 | -83.8 | 506.8 | 484.2 | 22.62 | 22.401 | | |
| 5,700.0 | 5,559.8 | 5,823.0 | 5,789.7 | 17.8 | 13.4 | -175.37 | -66.6 | -138.0 | 516.6 | 493.4 | 23.25 | 22.222 | | |
| 5,800.0 | 5,646.2 | 5,950.3 | 5,901.1 | 18.8 | 14.1 | -174.39 | -86.1 | -196.4 | 519.8 | 495.9 | 23.91 | 21.746 | | |
| 5,900.0 | 5,732.6 | 6,050.0 | 5,987.3 | 19.7 | 14.7 | -173.58 | -102.0 | -243.9 | 521.1 | 496.6 | 24.53 | 21.241 | | |
| 6,000.0 | 5,819.0 | 6,149.8 | 6,073.5 | 20.7 | 15.4 | -172.78 | -118.0 | -291.5 | 522.5 | 497.3 | 25.20 | 20.735 | | |
| 6,100.0 | 5,905.5 | 6,249.5 | 6,159.6 | 21.7 | 16.1 | -171.98 | -133.9 | -339.1 | 524.0 | 498.0 | 25.90 | 20.228 | | |
| 6,200.0 | 5,991.9 | 6,349.2 | 6,245.8 | 22.7 | 16.9 | -171.18 | -149.8 | -386.7 | 525.5 | 498.9 | 26.65 | 19.721 | | |
| 6,300.0 | 6,078.3 | 6,448.9 | 6,332.0 | 23.7 | 17.7 | -170.39 | -165.8 | -434.3 | 527.2 | 499.8 | 27.44 | 19.215 | | |
| 6,400.0 | 6,164.7 | 6,548.6 | 6,418.2 | 24.8 | 18.5 | -169.60 | -181.7 | -481.9 | 529.0 | 500.7 | 28.27 | 18.713 | | |
| 6,500.0 | 6,251.1 | 6,648.4 | 6,504.3 | 25.8 | 19.4 | -168.82 | -197.7 | -529.5 | 530.9 | 501.7 | 29.14 | 18.216 | | |
| 6,600.0 | 6,337.5 | 6,753.0 | 6,595.5 | 26.8 | 20.2 | -169.05 | -204.7 | -579.8 | 532.4 | 502.6 | 29.84 | 17.841 | | |
| 6,700.0 | 6,423.9 | 6,851.9 | 6,680.8 | 27.9 | 20.9 | -171.67 | -188.8 | -626.9 | 533.7 | 503.7 | 30.01 | 17.783 | | |
| 6,800.0 | 6,510.3 | 6,936.6 | 6,749.8 | 29.0 | 21.4 | -175.66 | -158.2 | -665.0 | 537.5 | 507.4 | 30.04 | 17.893 | | |
| 6,900.0 | 6,596.9 | 7,007.1 | 6,802.5 | 29.9 | 21.8 | 166.20 | -121.6 | -694.0 | 547.1 | 516.5 | 30.52 | 17.927 | | |
| 7,000.0 | 6,682.4 | 7,075.0 | 6,847.9 | 30.8 | 22.1 | 140.25 | -77.7 | -719.0 | 560.8 | 528.9 | 31.85 | 17.608 | | |
| 7,100.0 | 6,762.6 | 7,136.6 | 6,883.5 | 31.6 | 22.4 | 120.88 | -31.5 | -738.6 | 576.2 | 542.8 | 33.43 | 17.234 | | |
| 7,200.0 | 6,833.5 | 7,200.0 | 6,913.8 | 32.2 | 22.6 | 107.54 | 21.5 | -755.3 | 591.3 | 556.6 | 34.68 | 17.047 | | |
| 7,300.0 | 6,891.4 | 7,259.4 | 6,935.9 | 32.7 | 22.8 | 98.82 | 75.3 | -767.5 | 604.2 | 569.0 | 35.19 | 17.170 | | |
| 7,400.0 | 6,933.4 | 7,319.5 | 6,951.7 | 33.1 | 23.0 | 93.37 | 132.6 | -776.1 | 613.9 | 578.8 | 35.10 | 17.490 | | |
| 7,500.0 | 6,957.2 | 7,375.0 | 6,960.1 | 33.4 | 23.2 | 90.59 | 187.2 | -780.7 | 619.4 | 584.6 | 34.77 | 17.816 | | |
| 7,600.0 | 6,962.4 | 7,449.0 | 6,962.4 | 33.6 | 23.4 | 90.00 | 261.1 | -781.9 | 620.4 | 585.4 | 35.00 | 17.724 | | |
| 7,700.0 | 6,962.4 | 7,549.0 | 6,962.4 | 33.8 | 23.7 | 90.00 | 361.1 | -781.8 | 620.3 | 583.9 | 36.36 | 17.061 | | |
| 7,800.0 | 6,962.4 | 7,649.0 | 6,962.4 | 34.1 | 24.3 | 90.00 | 461.1 | -781.7 | 620.2 | 582.2 | 38.04 | 16.305 | | |
| 7,900.0 | 6,962.4 | 7,749.0 | 6,962.4 | 34.5 | 24.9 | 90.00 | 561.0 | -781.6 | 620.1 | 580.1 | 40.02 | 15.496 | | |
| 8,000.0 | 6,962.4 | 7,849.0 | 6,962.4 | 35.0 | 25.7 | 90.00 | 661.0 | -781.4 | 620.0 | 577.7 | 42.25 | 14.674 | | |
| 8,100.0 | 6,962.4 | 7,949.0 | 6,962.4 | 35.6 | 26.7 | 90.00 | 761.0 | -781.3 | 619.8 | 575.1 | 44.70 | 13.867 | | |
| 8,200.0 | 6,962.4 | 8,049.0 | 6,962.4 | 36.2 | 27.7 | 90.00 | 861.0 | -781.2 | 619.7 | 572.4 | 47.33 | 13.093 | | |
| 8,300.0 | 6,962.4 | 8,149.0 | 6,962.4 | 37.0 | 28.8 | 90.00 | 961.0 | -781.1 | 619.6 | 569.5 | 50.12 | 12.362 | | |
| 8,400.0 | 6,962.4 | 8,249.0 | 6,962.4 | 37.8 | 30.1 | 90.00 | 1,061.0 | -781.0 | 619.5 | 566.5 | 53.04 | 11.679 | | |
| 8,500.0 | 6,962.4 | 8,349.0 | 6,962.4 | 38.8 | 31.4 | 90.00 | 1,161.0 | -780.9 | 619.4 | 563.3 | 56.07 | 11.046 | | |
| 8,600.0 | 6,962.4 | 8,449.0 | 6,962.4 | 39.8 | 32.8 | 90.00 | 1,261.0 | -780.7 | 619.3 | 560.1 | 59.19 | 10.462 | | |
| 8,700.0 | 6,962.4 | 8,549.0 | 6,962.4 | 40.9 | 34.2 | 90.00 | 1,361.0 | -780.6 | 619.2 | 556.8 | 62.40 | 9.923 | | |
| 8,800.0 | 6,962.4 | 8,649.0 | 6,962.4 | 42.0 | 35.7 | 90.00 | 1,461.0 | -780.5 | 619.0 | 553.4 | 65.67 | 9.427 | | |
| 8,900.0 | 6,962.4 | 8,749.0 | 6,962.4 | 43.3 | 37.2 | 90.00 | 1,561.0 | -780.4 | 618.9 | 549.9 | 68.99 | 8.971 | | |
| 9,000.0 | 6,962.4 | 8,849.0 | 6,962.4 | 44.5 | 38.8 | 90.00 | 1,661.0 | -780.3 | 618.8 | 546.5 | 72.37 | 8.551 | | |
| 9,100.0 | 6,962.4 | 8,949.0 | 6,962.4 | 45.9 | 40.4 | 90.00 | 1,761.0 | -780.2 | 618.7 | 542.9 | 75.79 | 8.163 | | |
| 9,200.0 | 6,962.4 | 9,049.0 | 6,962.4 | 47.2 | 42.0 | 90.00 | 1,861.0 | -780.1 | 618.6 | 539.3 | 79.25 | 7.806 | | |
| 9,300.0 | 6,962.4 | 9,149.0 | 6,962.4 | 48.7 | 43.6 | 90.00 | 1,961.0 | -779.9 | 618.5 | 535.7 | 82.74 | 7.475 | | |
| 9,400.0 | 6,962.4 | 9,249.0 | 6,962.4 | 50.1 | 45.3 | 90.00 | 2,061.0 | -779.8 | 618.4 | 532.1 | 86.26 | 7.169 | | |
| 9,500.0 | 6,962.4 | 9,349.0 | 6,962.4 | 51.6 | 47.0 | 90.00 | 2,161.0 | -779.7 | 618.3 | 528.4 | 89.80 | 6.884 | | |
| 9,600.0 | 6,962.4 | 9,449.0 | 6,962.4 | 53.1 | 48.7 | 90.00 | 2,261.0 | -779.6 | 618.1 | 524.8 | 93.37 | 6.620 | | |
| 9,700.0 | 6,962.4 | 9,549.0 | 6,962.4 | 54.7 | 50.4 | 90.00 | 2,361.0 | -779.5 | 618.0 | 521.1 | 96.96 | 6.374 | | |
| 9,800.0 | 6,962.4 | 9,649.0 | 6,962.4 | 56.3 | 52.1 | 90.00 | 2,461.0 | -779.4 | 617.9 | 517.3 | 100.57 | 6.144 | | |
| 9,900.0 | 6,962.4 | 9,749.0 | 6,962.4 | 57.9 | 53.9 | 90.00 | 2,561.0 | -779.2 | 617.8 | 513.6 | 104.19 | 5.930 | | |
| 10,000.0 | 6,962.4 | 9,849.0 | 6,962.4 | 59.5 | 55.7 | 90.00 | 2,661.0 | -779.1 | 617.7 | 509.9 | 107.83 | 5.728 | | |
| 10,100.0 | 6,962.4 | 9,949.0 | 6,962.4 | 61.1 | 57.4 | 90.00 | 2,761.0 | -779.0 | 617.6 | 506.1 | 111.48 | 5.540 | | |
| 10,200.0 | 6,962.4 | 10,049.0 | 6,962.4 | 62.8 | 59.2 | 90.00 | 2,861.0 | -778.9 | 617.5 | 502.3 | 115.14 | 5.363 | | |
| 10,300.0 | 6,962.4 | 10,149.0 | 6,962.4 | 64.5 | 61.0 | 90.00 | 2,961.0 | -778.8 | 617.3 | 498.5 | 118.81 | 5.196 | | |

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

| Taoka East Pad Sec.1-T1N-R65W - Taoka KF 01-034HN - Wellbore #1 - Plan #1 (11-18-13) | | | | | | | | | | | 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 |
| 10,400.0 | 6,962.4 | 10,249.0 | 6,962.4 | 66.2 | 62.8 | 90.00 | 3,061.0 | -778.7 | 617.2 | 494.7 | 122.49 | 5.039 | |
| 10,500.0 | 6,962.4 | 10,349.0 | 6,962.4 | 67.9 | 64.6 | 90.00 | 3,161.0 | -778.6 | 617.1 | 490.9 | 126.18 | 4.891 | |
| 10,600.0 | 6,962.4 | 10,449.0 | 6,962.4 | 69.6 | 66.4 | 90.00 | 3,261.0 | -778.4 | 617.0 | 487.1 | 129.88 | 4.750 | |
| 10,700.0 | 6,962.4 | 10,549.0 | 6,962.4 | 71.3 | 68.2 | 90.00 | 3,361.0 | -778.3 | 616.9 | 483.3 | 133.59 | 4.618 | |
| 10,800.0 | 6,962.4 | 10,649.0 | 6,962.4 | 73.0 | 70.0 | 90.00 | 3,461.0 | -778.2 | 616.8 | 479.5 | 137.30 | 4.492 | |
| 10,900.0 | 6,962.4 | 10,749.0 | 6,962.4 | 74.8 | 71.9 | 90.00 | 3,561.0 | -778.1 | 616.7 | 475.6 | 141.02 | 4.373 | |
| 11,000.0 | 6,962.4 | 10,849.0 | 6,962.4 | 76.5 | 73.7 | 90.00 | 3,661.0 | -778.0 | 616.5 | 471.8 | 144.75 | 4.259 | |
| 11,100.0 | 6,962.4 | 10,949.0 | 6,962.4 | 78.3 | 75.5 | 90.00 | 3,761.0 | -777.9 | 616.4 | 468.0 | 148.48 | 4.152 | |
| 11,200.0 | 6,962.4 | 11,049.0 | 6,962.4 | 80.1 | 77.4 | 90.00 | 3,861.0 | -777.7 | 616.3 | 464.1 | 152.22 | 4.049 | |
| 11,300.0 | 6,962.4 | 11,149.0 | 6,962.4 | 81.8 | 79.2 | 90.00 | 3,961.0 | -777.6 | 616.2 | 460.2 | 155.96 | 3.951 | |
| 11,400.0 | 6,962.4 | 11,249.0 | 6,962.4 | 83.6 | 81.0 | 90.00 | 4,061.0 | -777.5 | 616.1 | 456.4 | 159.70 | 3.858 | |
| 11,500.0 | 6,962.4 | 11,349.0 | 6,962.4 | 85.4 | 82.9 | 90.00 | 4,161.0 | -777.4 | 616.0 | 452.5 | 163.45 | 3.769 | |
| 11,600.0 | 6,962.4 | 11,449.0 | 6,962.4 | 87.2 | 84.7 | 90.00 | 4,261.0 | -777.3 | 615.9 | 448.7 | 167.20 | 3.683 | |
| 11,700.0 | 6,962.4 | 11,549.0 | 6,962.4 | 89.0 | 86.6 | 90.00 | 4,361.0 | -777.2 | 615.7 | 444.8 | 170.96 | 3.602 | |
| 11,800.0 | 6,962.4 | 11,649.0 | 6,962.4 | 90.8 | 88.5 | 90.00 | 4,461.0 | -777.1 | 615.6 | 440.9 | 174.72 | 3.524 | |
| 11,828.3 | 6,962.4 | 11,677.1 | 6,962.4 | 91.3 | 89.0 | 90.00 | 4,489.2 | -777.0 | 615.6 | 439.8 | 175.78 | 3.502 | |
| 11,831.1 | 6,962.4 | 11,677.1 | 6,962.4 | 91.4 | 89.0 | 90.00 | 4,489.2 | -777.0 | 615.6 | 439.8 | 175.83 | 3.501 | |

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Taoka KF 01-032HN |
| Project: | SEC.1-T1N-R65W | TVD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Reference Site: | Taoka East Pad Sec.1-T1N-R65W | MD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Taoka KF 01-032HN | 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 (11-18-13) | Offset TVD Reference: | Offset Datum |

| Offset Design Taoka East Pad Sec.1-T1N-R65W - Taoka KF 01-036HN - Wellbore #1 - Plan #1 (11-18-13) | | | | | | | | | | | | | 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 | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.02 | 0.0 | 90.4 | 90.4 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 90.02 | 0.0 | 90.4 | 90.4 | 90.2 | 0.22 | 402.175 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.02 | 0.0 | 90.4 | 90.4 | 89.7 | 0.67 | 134.058 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | 90.02 | 0.0 | 90.4 | 90.4 | 89.3 | 1.12 | 80.435 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 90.02 | 0.0 | 90.4 | 90.4 | 88.8 | 1.57 | 57.454 | | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | 90.02 | 0.0 | 90.4 | 90.4 | 88.4 | 2.02 | 44.686 | | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.2 | 1.2 | 90.02 | 0.0 | 90.4 | 90.4 | 87.9 | 2.47 | 36.561 | | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.5 | 1.5 | 90.02 | 0.0 | 90.4 | 90.4 | 87.5 | 2.92 | 30.937 | | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.7 | 1.7 | 90.02 | 0.0 | 90.4 | 90.4 | 87.0 | 3.37 | 26.812 | | |
| 900.0 | 900.0 | 900.0 | 900.0 | 1.9 | 1.9 | 90.02 | 0.0 | 90.4 | 90.4 | 86.6 | 3.82 | 23.657 | | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 2.1 | 2.1 | 90.02 | 0.0 | 90.4 | 90.4 | 86.1 | 4.27 | 21.167 | | |
| 1,100.0 | 1,100.0 | 1,100.0 | 1,100.0 | 2.4 | 2.4 | 90.02 | 0.0 | 90.4 | 90.4 | 85.7 | 4.72 | 19.151 | | |
| 1,200.0 | 1,200.0 | 1,200.0 | 1,200.0 | 2.6 | 2.6 | 90.02 | 0.0 | 90.4 | 90.4 | 85.2 | 5.17 | 17.486 | | |
| 1,300.0 | 1,300.0 | 1,300.0 | 1,300.0 | 2.8 | 2.8 | 90.02 | 0.0 | 90.4 | 90.4 | 84.8 | 5.62 | 16.087 | | |
| 1,400.0 | 1,400.0 | 1,400.0 | 1,400.0 | 3.0 | 3.0 | 90.02 | 0.0 | 90.4 | 90.4 | 84.3 | 6.07 | 14.895 | | |
| 1,500.0 | 1,500.0 | 1,500.0 | 1,500.0 | 3.3 | 3.3 | 90.02 | 0.0 | 90.4 | 90.4 | 83.9 | 6.52 | 13.868 | | |
| 1,600.0 | 1,600.0 | 1,600.0 | 1,600.0 | 3.5 | 3.5 | 90.02 | 0.0 | 90.4 | 90.4 | 83.4 | 6.97 | 12.973 | | |
| 1,700.0 | 1,700.0 | 1,700.0 | 1,700.0 | 3.7 | 3.7 | 90.02 | 0.0 | 90.4 | 90.4 | 83.0 | 7.42 | 12.187 | | |
| 1,800.0 | 1,800.0 | 1,800.0 | 1,800.0 | 3.9 | 3.9 | 90.02 | 0.0 | 90.4 | 90.4 | 82.5 | 7.87 | 11.491 | | |
| 1,900.0 | 1,900.0 | 1,900.0 | 1,900.0 | 4.2 | 4.2 | 90.02 | 0.0 | 90.4 | 90.4 | 82.1 | 8.32 | 10.870 | | |
| 2,000.0 | 2,000.0 | 2,000.0 | 2,000.0 | 4.4 | 4.4 | 90.02 | 0.0 | 90.4 | 90.4 | 81.6 | 8.77 | 10.312 | | |
| 2,100.0 | 2,100.0 | 2,100.0 | 2,100.0 | 4.6 | 4.6 | 90.02 | 0.0 | 90.4 | 90.4 | 81.2 | 9.22 | 9.809 | | |
| 2,200.0 | 2,200.0 | 2,200.0 | 2,200.0 | 4.8 | 4.8 | 90.02 | 0.0 | 90.4 | 90.4 | 80.7 | 9.66 | 9.353 | | |
| 2,300.0 | 2,300.0 | 2,300.0 | 2,300.0 | 5.1 | 5.1 | 90.02 | 0.0 | 90.4 | 90.4 | 80.3 | 10.11 | 8.937 | | |
| 2,400.0 | 2,400.0 | 2,400.0 | 2,400.0 | 5.3 | 5.3 | 90.02 | 0.0 | 90.4 | 90.4 | 79.8 | 10.56 | 8.557 | | |
| 2,500.0 | 2,500.0 | 2,500.0 | 2,500.0 | 5.5 | 5.5 | 90.02 | 0.0 | 90.4 | 90.4 | 79.4 | 11.01 | 8.208 | | |
| 2,600.0 | 2,600.0 | 2,600.0 | 2,600.0 | 5.7 | 5.7 | 90.02 | 0.0 | 90.4 | 90.4 | 78.9 | 11.46 | 7.886 | | |
| 2,700.0 | 2,700.0 | 2,700.0 | 2,700.0 | 6.0 | 6.0 | 90.02 | 0.0 | 90.4 | 90.4 | 78.5 | 11.91 | 7.588 | | |
| 2,800.0 | 2,800.0 | 2,800.0 | 2,800.0 | 6.2 | 6.2 | 90.02 | 0.0 | 90.4 | 90.4 | 78.0 | 12.36 | 7.312 | | |
| 2,900.0 | 2,900.0 | 2,900.0 | 2,900.0 | 6.4 | 6.4 | 90.02 | 0.0 | 90.4 | 90.4 | 77.6 | 12.81 | 7.056 | | |
| 3,000.0 | 3,000.0 | 3,000.0 | 3,000.0 | 6.6 | 6.6 | 90.02 | 0.0 | 90.4 | 90.4 | 77.1 | 13.26 | 6.817 | | |
| 3,100.0 | 3,100.0 | 3,100.0 | 3,100.0 | 6.9 | 6.9 | 90.02 | 0.0 | 90.4 | 90.4 | 76.7 | 13.71 | 6.593 | | |
| 3,200.0 | 3,200.0 | 3,200.0 | 3,200.0 | 7.1 | 7.1 | 90.02 | 0.0 | 90.4 | 90.4 | 76.2 | 14.16 | 6.384 | | |
| 3,300.0 | 3,300.0 | 3,300.0 | 3,300.0 | 7.3 | 7.3 | 90.02 | 0.0 | 90.4 | 90.4 | 75.8 | 14.61 | 6.187 | | |
| 3,400.0 | 3,400.0 | 3,400.0 | 3,400.0 | 7.5 | 7.5 | 90.02 | 0.0 | 90.4 | 90.4 | 75.3 | 15.06 | 6.003 | | |
| 3,500.0 | 3,500.0 | 3,500.0 | 3,500.0 | 7.8 | 7.8 | 90.02 | 0.0 | 90.4 | 90.4 | 74.9 | 15.51 | 5.829 | | |
| 3,600.0 | 3,600.0 | 3,600.0 | 3,600.0 | 8.0 | 8.0 | 90.02 | 0.0 | 90.4 | 90.4 | 74.4 | 15.96 | 5.664 | | |
| 3,700.0 | 3,700.0 | 3,700.0 | 3,700.0 | 8.2 | 8.2 | 90.02 | 0.0 | 90.4 | 90.4 | 74.0 | 16.41 | 5.509 | | |
| 3,800.0 | 3,800.0 | 3,800.0 | 3,800.0 | 8.4 | 8.4 | 90.02 | 0.0 | 90.4 | 90.4 | 73.5 | 16.86 | 5.362 | | |
| 3,900.0 | 3,900.0 | 3,900.0 | 3,900.0 | 8.7 | 8.7 | 90.02 | 0.0 | 90.4 | 90.4 | 73.1 | 17.31 | 5.223 | | |
| 4,000.0 | 4,000.0 | 4,000.0 | 4,000.0 | 8.9 | 8.9 | 90.02 | 0.0 | 90.4 | 90.4 | 72.6 | 17.76 | 5.091 CC, ES, SF | | |
| 4,100.0 | 4,100.0 | 4,100.0 | 4,100.0 | 9.1 | 9.1 | -170.26 | 0.0 | 90.4 | 93.0 | 74.8 | 18.17 | 5.117 | | |
| 4,200.0 | 4,199.6 | 4,199.6 | 4,199.6 | 9.3 | 9.3 | -170.98 | 0.0 | 90.4 | 100.7 | 82.2 | 18.52 | 5.438 | | |
| 4,300.0 | 4,298.8 | 4,298.8 | 4,298.8 | 9.5 | 9.5 | -171.96 | 0.0 | 90.4 | 113.6 | 94.8 | 18.83 | 6.035 | | |
| 4,400.0 | 4,397.1 | 4,397.1 | 4,397.1 | 9.7 | 9.8 | -173.00 | 0.0 | 90.4 | 131.7 | 112.6 | 19.09 | 6.899 | | |
| 4,500.0 | 4,494.3 | 4,494.3 | 4,494.3 | 10.0 | 10.0 | -173.98 | 0.0 | 90.4 | 154.9 | 135.6 | 19.30 | 8.025 | | |
| 4,600.0 | 4,590.2 | 4,590.2 | 4,590.2 | 10.3 | 10.2 | -174.83 | 0.0 | 90.4 | 183.2 | 163.7 | 19.47 | 9.410 | | |
| 4,700.0 | 4,684.4 | 4,684.4 | 4,684.4 | 10.6 | 10.4 | -175.55 | 0.0 | 90.4 | 216.4 | 196.9 | 19.58 | 11.052 | | |
| 4,800.0 | 4,776.8 | 4,776.8 | 4,776.8 | 11.0 | 10.6 | -176.13 | 0.0 | 90.4 | 254.6 | 235.0 | 19.66 | 12.954 | | |
| 4,900.0 | 4,867.1 | 4,867.1 | 4,867.1 | 11.5 | 10.8 | -176.61 | 0.0 | 90.4 | 297.6 | 277.9 | 19.68 | 15.118 | | |
| 5,000.0 | 4,954.9 | 4,954.9 | 4,954.9 | 12.1 | 11.0 | -176.99 | 0.0 | 90.4 | 345.3 | 325.6 | 19.67 | 17.549 | | |
| 5,100.0 | 5,041.3 | 5,041.3 | 5,041.3 | 12.8 | 11.2 | -177.37 | 0.0 | 90.4 | 395.5 | 375.5 | 20.06 | 19.717 | | |

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

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Taoka KF 01-032HN |
| Project: | SEC.1-T1N-R65W | TVD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Reference Site: | Taoka East Pad Sec.1-T1N-R65W | MD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Taoka KF 01-032HN | 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 (11-18-13) | Offset TVD Reference: | Offset Datum |

| Offset Design Taoka East Pad Sec.1-T1N-R65W - Taoka KF 01-036HN - Wellbore #1 - Plan #1 (11-18-13) | | | | | | | | | | | | 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 |
| 5,200.0 | 5,127.8 | 5,127.8 | 5,127.8 | 13.5 | 11.4 | -177.66 | 0.0 | 90.4 | 445.8 | 425.3 | 20.49 | 21.756 | |
| 5,300.0 | 5,214.2 | 5,214.2 | 5,214.2 | 14.3 | 11.6 | -177.90 | 0.0 | 90.4 | 496.1 | 475.2 | 20.93 | 23.698 | |
| 5,400.0 | 5,300.6 | 5,300.6 | 5,300.6 | 15.1 | 11.8 | -178.09 | 0.0 | 90.4 | 546.4 | 525.0 | 21.39 | 25.548 | |
| 5,500.0 | 5,387.0 | 5,387.0 | 5,387.0 | 16.0 | 12.0 | -178.26 | 0.0 | 90.4 | 596.7 | 574.9 | 21.85 | 27.310 | |
| 5,600.0 | 5,473.4 | 5,473.4 | 5,473.4 | 16.9 | 12.2 | -178.39 | 0.0 | 90.4 | 647.1 | 624.7 | 22.32 | 28.987 | |
| 5,700.0 | 5,559.8 | 5,559.8 | 5,559.8 | 17.8 | 12.4 | -178.51 | 0.0 | 90.4 | 697.4 | 674.6 | 22.80 | 30.584 | |
| 5,800.0 | 5,646.2 | 5,646.2 | 5,646.2 | 18.8 | 12.6 | -178.61 | 0.0 | 90.4 | 747.7 | 724.4 | 23.29 | 32.105 | |
| 5,900.0 | 5,732.6 | 5,774.7 | 5,774.5 | 19.7 | 12.8 | -178.39 | -4.8 | 87.8 | 795.8 | 772.0 | 23.82 | 33.409 | |
| 6,000.0 | 5,819.0 | 5,911.6 | 5,910.1 | 20.7 | 13.1 | -177.43 | -20.9 | 79.0 | 839.0 | 814.6 | 24.37 | 34.421 | |
| 6,100.0 | 5,905.5 | 6,053.0 | 6,047.7 | 21.7 | 13.3 | -175.82 | -49.5 | 63.4 | 877.0 | 852.1 | 24.99 | 35.096 | |
| 6,200.0 | 5,991.9 | 6,196.2 | 6,183.1 | 22.7 | 13.6 | -173.63 | -90.4 | 41.1 | 910.2 | 884.4 | 25.71 | 35.399 | |
| 6,300.0 | 6,078.3 | 6,338.6 | 6,312.4 | 23.7 | 14.1 | -170.94 | -142.5 | 12.6 | 938.8 | 912.2 | 26.62 | 35.270 | |
| 6,400.0 | 6,164.7 | 6,447.3 | 6,409.1 | 24.8 | 14.5 | -168.88 | -184.7 | -13.0 | 964.6 | 937.1 | 27.54 | 35.031 | |
| 6,500.0 | 6,251.1 | 6,549.3 | 6,505.6 | 25.8 | 14.8 | -168.31 | -203.8 | -38.9 | 990.3 | 962.0 | 28.30 | 35.000 | |

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|---------------------------|-------------------------------|-------------------------------------|-------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Taoka KF 01-032HN |
| Project: | SEC.1-T1N-R65W | TVD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Reference Site: | Taoka East Pad Sec.1-T1N-R65W | MD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Taoka KF 01-032HN | 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 (11-18-13) | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 4972.4ft (RKB - 16.5')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Taoka KF 01-032HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.58°



| | | | |
|---------------------------|-------------------------------|-------------------------------------|-------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Taoka KF 01-032HN |
| Project: | SEC.1-T1N-R65W | TVD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Reference Site: | Taoka East Pad Sec.1-T1N-R65W | MD Reference: | WELL @ 4972.4ft (RKB - 16.5') |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Taoka KF 01-032HN | 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 (11-18-13) | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 4972.4ft (RKB - 16.5')
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Taoka KF 01-032HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.58°

