

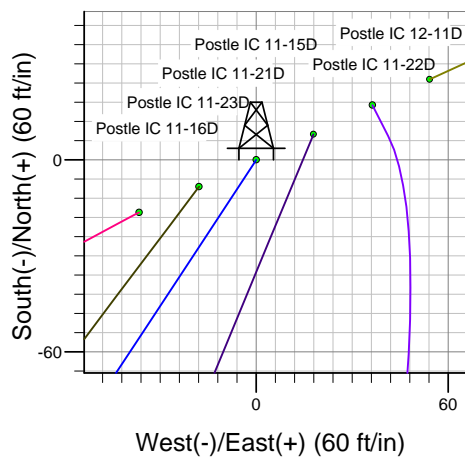
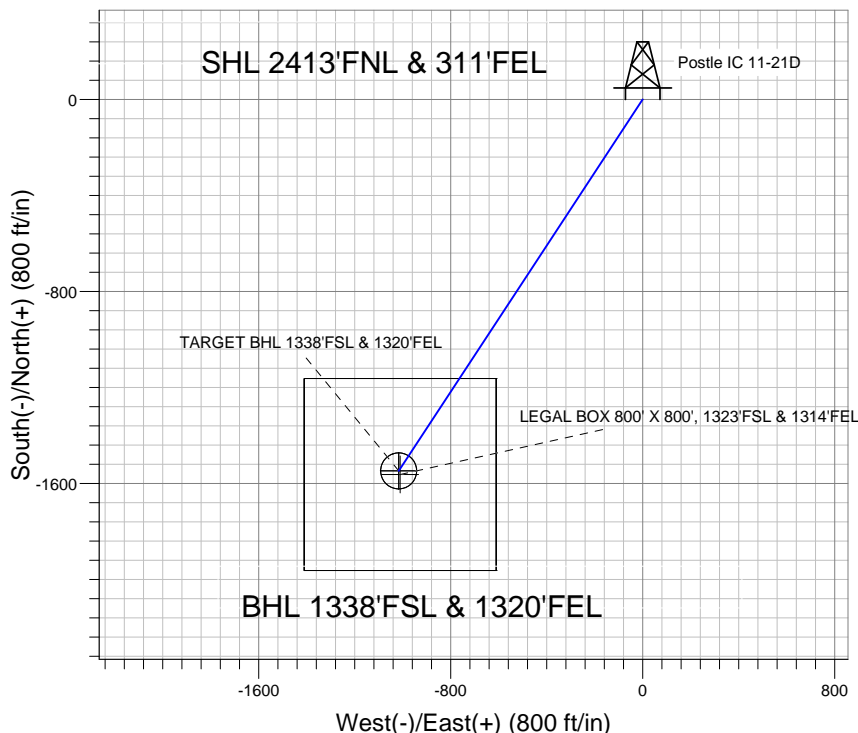
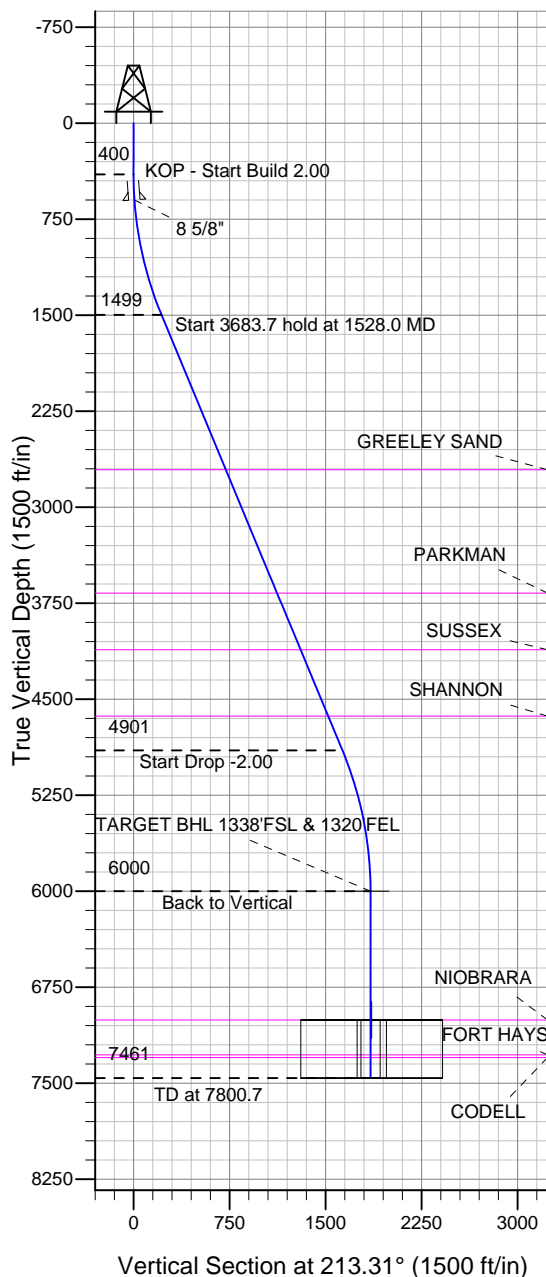
Well Name: Postle IC 11-21D

Surface Location: Postle IC 11-16D Pad Sec.11-T3N-R68W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

Ground Elevation: 4950.0

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|---|-------|------------|------------|-----------|-------------|------|
| 0.0 | 0.0 | 1331241.68 | 3150199.90 | 40.241406 | -104.961958 | |
| Original Well Elev WELL @ 4964.0ft (Original Well Elev) | | | | | | |

Great Western



Postle IC 11-16D Pad Sec.11-T3N-R68W
Postle IC 11-21D
Plan #1 (9-18-12)
11:25, September 20 2012



Azimuths to True North
Magnetic North: 8.79°
Magnetic Field
Strength: 52892.9snT
Dip Angle: 66.85°
Date: 9/18/2012
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
|--|--------|---------|---------|-----------|-------------|----------------------------------|
| TARGET BHL 1338'FSL & 1320'FEL | 6000.0 | -1547.5 | -1016.8 | 40.237158 | -104.965600 | Point |
| LEGAL BOX 800' X 800', 1323'FSL & 1314'FEL | 7007.0 | -1562.5 | -1010.8 | 40.237117 | -104.965578 | Rectangle (Sides: L800.0 W800.0) |
| TARGET CIRCLE 1338'FSL & 1320'FEL | 7007.0 | -1547.5 | -1016.8 | 40.237158 | -104.965600 | Circle (Radius: 75.0) |

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 | 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1528.0 | 22.56 | 213.31 | 1499.1 | -183.2 | -120.4 | 2.00 | 213.31 | 219.2 | |
| 4 | 5211.7 | 22.56 | 213.31 | 4900.9 | -1364.3 | -896.4 | 0.00 | 0.00 | 1632.5 | |
| 5 | 6339.7 | 0.00 | 0.00 | 6000.0 | -1547.5 | -1016.8 | 2.00 | 180.00 | 1851.7 | TARGET BHL 1338'FSL & 1320'FEL |
| 6 | 7800.7 | 0.00 | 0.00 | 7461.0 | -1547.5 | -1016.8 | 0.00 | 0.00 | 1851.7 | |



Great Western

SEC.11-T3N-R68W

Postle IC 11-16D Pad Sec.11-T3N-R68W

Postle IC 11-21D

Wellbore #1

Plan: Plan #1 (9-18-12)

Standard Planning Report

20 September, 2012

| 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 | |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,528.0 | 22.56 | 213.31 | 1,499.1 | -183.2 | -120.4 | 2.00 | 2.00 | 0.00 | 213.31 | |
| 5,211.7 | 22.56 | 213.31 | 4,900.9 | -1,364.3 | -896.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,339.7 | 0.00 | 0.00 | 6,000.0 | -1,547.5 | -1,016.8 | 2.00 | -2.00 | 0.00 | 180.00 | TARGET BHL 1338 |
| 7,800.7 | 0.00 | 0.00 | 7,461.0 | -1,547.5 | -1,016.8 | 0.00 | 0.00 | 0.00 | 0.00 | |

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Postle IC 11-21D |
| Company: | Great Western | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Project: | SEC.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | North Reference: | True |
| Well: | Postle IC 11-21D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (9-18-12) | | |

| 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 |
| 40.0 | 0.00 | 0.00 | 40.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 80.0 | 0.00 | 0.00 | 80.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 120.0 | 0.00 | 0.00 | 120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 160.0 | 0.00 | 0.00 | 160.0 | 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 |
| 240.0 | 0.00 | 0.00 | 240.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 280.0 | 0.00 | 0.00 | 280.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 320.0 | 0.00 | 0.00 | 320.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 360.0 | 0.00 | 0.00 | 360.0 | 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 |
| KOP - Start Build 2.00 | | | | | | | | | |
| 440.0 | 0.80 | 213.31 | 440.0 | -0.2 | -0.2 | 0.3 | 2.00 | 2.00 | 0.00 |
| 480.0 | 1.60 | 213.31 | 480.0 | -0.9 | -0.6 | 1.1 | 2.00 | 2.00 | 0.00 |
| 520.0 | 2.40 | 213.31 | 520.0 | -2.1 | -1.4 | 2.5 | 2.00 | 2.00 | 0.00 |
| 560.0 | 3.20 | 213.31 | 559.9 | -3.7 | -2.5 | 4.5 | 2.00 | 2.00 | 0.00 |
| 600.0 | 4.00 | 213.31 | 599.8 | -5.8 | -3.8 | 7.0 | 2.00 | 2.00 | 0.00 |
| 600.2 | 4.00 | 213.31 | 600.0 | -5.8 | -3.8 | 7.0 | 0.00 | 0.00 | 0.00 |
| 8 5/8" | | | | | | | | | |
| 640.0 | 4.80 | 213.31 | 639.7 | -8.4 | -5.5 | 10.0 | 2.01 | 2.01 | 0.00 |
| 680.0 | 5.60 | 213.31 | 679.6 | -11.4 | -7.5 | 13.7 | 2.00 | 2.00 | 0.00 |
| 720.0 | 6.40 | 213.31 | 719.3 | -14.9 | -9.8 | 17.9 | 2.00 | 2.00 | 0.00 |
| 760.0 | 7.20 | 213.31 | 759.1 | -18.9 | -12.4 | 22.6 | 2.00 | 2.00 | 0.00 |
| 800.0 | 8.00 | 213.31 | 798.7 | -23.3 | -15.3 | 27.9 | 2.00 | 2.00 | 0.00 |
| 840.0 | 8.80 | 213.31 | 838.3 | -28.2 | -18.5 | 33.7 | 2.00 | 2.00 | 0.00 |
| 880.0 | 9.60 | 213.31 | 877.8 | -33.5 | -22.0 | 40.1 | 2.00 | 2.00 | 0.00 |
| 920.0 | 10.40 | 213.31 | 917.1 | -39.3 | -25.8 | 47.1 | 2.00 | 2.00 | 0.00 |
| 960.0 | 11.20 | 213.31 | 956.4 | -45.6 | -30.0 | 54.6 | 2.00 | 2.00 | 0.00 |
| 1,000.0 | 12.00 | 213.31 | 995.6 | -52.3 | -34.4 | 62.6 | 2.00 | 2.00 | 0.00 |
| 1,040.0 | 12.80 | 213.31 | 1,034.7 | -59.5 | -39.1 | 71.2 | 2.00 | 2.00 | 0.00 |
| 1,080.0 | 13.60 | 213.31 | 1,073.6 | -67.1 | -44.1 | 80.3 | 2.00 | 2.00 | 0.00 |
| 1,120.0 | 14.40 | 213.31 | 1,112.4 | -75.2 | -49.4 | 90.0 | 2.00 | 2.00 | 0.00 |
| 1,160.0 | 15.20 | 213.31 | 1,151.1 | -83.8 | -55.0 | 100.2 | 2.00 | 2.00 | 0.00 |
| 1,200.0 | 16.00 | 213.31 | 1,189.6 | -92.7 | -60.9 | 111.0 | 2.00 | 2.00 | 0.00 |
| 1,240.0 | 16.80 | 213.31 | 1,228.0 | -102.2 | -67.1 | 122.3 | 2.00 | 2.00 | 0.00 |
| 1,280.0 | 17.60 | 213.31 | 1,266.2 | -112.1 | -73.6 | 134.1 | 2.00 | 2.00 | 0.00 |
| 1,320.0 | 18.40 | 213.31 | 1,304.3 | -122.4 | -80.4 | 146.5 | 2.00 | 2.00 | 0.00 |
| 1,360.0 | 19.20 | 213.31 | 1,342.1 | -133.2 | -87.5 | 159.3 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 20.00 | 213.31 | 1,379.8 | -144.4 | -94.9 | 172.8 | 2.00 | 2.00 | 0.00 |
| 1,440.0 | 20.80 | 213.31 | 1,417.3 | -156.0 | -102.5 | 186.7 | 2.00 | 2.00 | 0.00 |
| 1,480.0 | 21.60 | 213.31 | 1,454.6 | -168.1 | -110.5 | 201.2 | 2.00 | 2.00 | 0.00 |
| 1,520.0 | 22.40 | 213.31 | 1,491.7 | -180.7 | -118.7 | 216.2 | 2.00 | 2.00 | 0.00 |
| 1,528.0 | 22.56 | 213.31 | 1,499.1 | -183.2 | -120.4 | 219.2 | 2.00 | 2.00 | 0.00 |
| Start 3683.7 hold at 1528.0 MD | | | | | | | | | |
| 1,560.0 | 22.56 | 213.31 | 1,528.6 | -193.5 | -127.1 | 231.5 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 22.56 | 213.31 | 1,565.6 | -206.3 | -135.5 | 246.8 | 0.00 | 0.00 | 0.00 |
| 1,640.0 | 22.56 | 213.31 | 1,602.5 | -219.1 | -144.0 | 262.2 | 0.00 | 0.00 | 0.00 |
| 1,680.0 | 22.56 | 213.31 | 1,639.4 | -231.9 | -152.4 | 277.5 | 0.00 | 0.00 | 0.00 |
| 1,720.0 | 22.56 | 213.31 | 1,676.4 | -244.8 | -160.8 | 292.9 | 0.00 | 0.00 | 0.00 |
| 1,760.0 | 22.56 | 213.31 | 1,713.3 | -257.6 | -169.3 | 308.2 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 22.56 | 213.31 | 1,750.3 | -270.4 | -177.7 | 323.6 | 0.00 | 0.00 | 0.00 |
| 1,840.0 | 22.56 | 213.31 | 1,787.2 | -283.2 | -186.1 | 338.9 | 0.00 | 0.00 | 0.00 |
| 1,880.0 | 22.56 | 213.31 | 1,824.1 | -296.1 | -194.5 | 354.3 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Postle IC 11-21D |
| Company: | Great Western | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Project: | SEC.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | North Reference: | True |
| Well: | Postle IC 11-21D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (9-18-12) | | |

| 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) |
| 1,920.0 | 22.56 | 213.31 | 1,861.1 | -308.9 | -203.0 | 369.6 | 0.00 | 0.00 | 0.00 |
| 1,960.0 | 22.56 | 213.31 | 1,898.0 | -321.7 | -211.4 | 385.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 22.56 | 213.31 | 1,935.0 | -334.5 | -219.8 | 400.3 | 0.00 | 0.00 | 0.00 |
| 2,040.0 | 22.56 | 213.31 | 1,971.9 | -347.4 | -228.2 | 415.6 | 0.00 | 0.00 | 0.00 |
| 2,080.0 | 22.56 | 213.31 | 2,008.8 | -360.2 | -236.7 | 431.0 | 0.00 | 0.00 | 0.00 |
| 2,120.0 | 22.56 | 213.31 | 2,045.8 | -373.0 | -245.1 | 446.3 | 0.00 | 0.00 | 0.00 |
| 2,160.0 | 22.56 | 213.31 | 2,082.7 | -385.8 | -253.5 | 461.7 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 22.56 | 213.31 | 2,119.7 | -398.7 | -262.0 | 477.0 | 0.00 | 0.00 | 0.00 |
| 2,240.0 | 22.56 | 213.31 | 2,156.6 | -411.5 | -270.4 | 492.4 | 0.00 | 0.00 | 0.00 |
| 2,280.0 | 22.56 | 213.31 | 2,193.5 | -424.3 | -278.8 | 507.7 | 0.00 | 0.00 | 0.00 |
| 2,320.0 | 22.56 | 213.31 | 2,230.5 | -437.1 | -287.2 | 523.1 | 0.00 | 0.00 | 0.00 |
| 2,360.0 | 22.56 | 213.31 | 2,267.4 | -450.0 | -295.7 | 538.4 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 22.56 | 213.31 | 2,304.4 | -462.8 | -304.1 | 553.8 | 0.00 | 0.00 | 0.00 |
| 2,440.0 | 22.56 | 213.31 | 2,341.3 | -475.6 | -312.5 | 569.1 | 0.00 | 0.00 | 0.00 |
| 2,480.0 | 22.56 | 213.31 | 2,378.2 | -488.4 | -320.9 | 584.5 | 0.00 | 0.00 | 0.00 |
| 2,520.0 | 22.56 | 213.31 | 2,415.2 | -501.3 | -329.4 | 599.8 | 0.00 | 0.00 | 0.00 |
| 2,560.0 | 22.56 | 213.31 | 2,452.1 | -514.1 | -337.8 | 615.1 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 22.56 | 213.31 | 2,489.0 | -526.9 | -346.2 | 630.5 | 0.00 | 0.00 | 0.00 |
| 2,640.0 | 22.56 | 213.31 | 2,526.0 | -539.7 | -354.6 | 645.8 | 0.00 | 0.00 | 0.00 |
| 2,680.0 | 22.56 | 213.31 | 2,562.9 | -552.6 | -363.1 | 661.2 | 0.00 | 0.00 | 0.00 |
| 2,720.0 | 22.56 | 213.31 | 2,599.9 | -565.4 | -371.5 | 676.5 | 0.00 | 0.00 | 0.00 |
| 2,760.0 | 22.56 | 213.31 | 2,636.8 | -578.2 | -379.9 | 691.9 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 22.56 | 213.31 | 2,673.7 | -591.0 | -388.4 | 707.2 | 0.00 | 0.00 | 0.00 |
| 2,837.1 | 22.56 | 213.31 | 2,708.0 | -602.9 | -396.2 | 721.4 | 0.00 | 0.00 | 0.00 |
| GREELEY SAND | | | | | | | | | |
| 2,840.0 | 22.56 | 213.31 | 2,710.7 | -603.9 | -396.8 | 722.6 | 0.00 | 0.00 | 0.00 |
| 2,880.0 | 22.56 | 213.31 | 2,747.6 | -616.7 | -405.2 | 737.9 | 0.00 | 0.00 | 0.00 |
| 2,920.0 | 22.56 | 213.31 | 2,784.6 | -629.5 | -413.6 | 753.3 | 0.00 | 0.00 | 0.00 |
| 2,960.0 | 22.56 | 213.31 | 2,821.5 | -642.3 | -422.1 | 768.6 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 22.56 | 213.31 | 2,858.4 | -655.2 | -430.5 | 783.9 | 0.00 | 0.00 | 0.00 |
| 3,040.0 | 22.56 | 213.31 | 2,895.4 | -668.0 | -438.9 | 799.3 | 0.00 | 0.00 | 0.00 |
| 3,080.0 | 22.56 | 213.31 | 2,932.3 | -680.8 | -447.3 | 814.6 | 0.00 | 0.00 | 0.00 |
| 3,120.0 | 22.56 | 213.31 | 2,969.3 | -693.6 | -455.8 | 830.0 | 0.00 | 0.00 | 0.00 |
| 3,160.0 | 22.56 | 213.31 | 3,006.2 | -706.5 | -464.2 | 845.3 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 22.56 | 213.31 | 3,043.1 | -719.3 | -472.6 | 860.7 | 0.00 | 0.00 | 0.00 |
| 3,240.0 | 22.56 | 213.31 | 3,080.1 | -732.1 | -481.1 | 876.0 | 0.00 | 0.00 | 0.00 |
| 3,280.0 | 22.56 | 213.31 | 3,117.0 | -744.9 | -489.5 | 891.4 | 0.00 | 0.00 | 0.00 |
| 3,320.0 | 22.56 | 213.31 | 3,154.0 | -757.8 | -497.9 | 906.7 | 0.00 | 0.00 | 0.00 |
| 3,360.0 | 22.56 | 213.31 | 3,190.9 | -770.6 | -506.3 | 922.1 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 22.56 | 213.31 | 3,227.8 | -783.4 | -514.8 | 937.4 | 0.00 | 0.00 | 0.00 |
| 3,440.0 | 22.56 | 213.31 | 3,264.8 | -796.2 | -523.2 | 952.8 | 0.00 | 0.00 | 0.00 |
| 3,480.0 | 22.56 | 213.31 | 3,301.7 | -809.1 | -531.6 | 968.1 | 0.00 | 0.00 | 0.00 |
| 3,520.0 | 22.56 | 213.31 | 3,338.7 | -821.9 | -540.0 | 983.4 | 0.00 | 0.00 | 0.00 |
| 3,560.0 | 22.56 | 213.31 | 3,375.6 | -834.7 | -548.5 | 998.8 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 22.56 | 213.31 | 3,412.5 | -847.5 | -556.9 | 1,014.1 | 0.00 | 0.00 | 0.00 |
| 3,640.0 | 22.56 | 213.31 | 3,449.5 | -860.4 | -565.3 | 1,029.5 | 0.00 | 0.00 | 0.00 |
| 3,680.0 | 22.56 | 213.31 | 3,486.4 | -873.2 | -573.7 | 1,044.8 | 0.00 | 0.00 | 0.00 |
| 3,720.0 | 22.56 | 213.31 | 3,523.3 | -886.0 | -582.2 | 1,060.2 | 0.00 | 0.00 | 0.00 |
| 3,760.0 | 22.56 | 213.31 | 3,560.3 | -898.9 | -590.6 | 1,075.5 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 22.56 | 213.31 | 3,597.2 | -911.7 | -599.0 | 1,090.9 | 0.00 | 0.00 | 0.00 |
| 3,840.0 | 22.56 | 213.31 | 3,634.2 | -924.5 | -607.5 | 1,106.2 | 0.00 | 0.00 | 0.00 |
| 3,880.0 | 22.56 | 213.31 | 3,671.1 | -937.3 | -615.9 | 1,121.6 | 0.00 | 0.00 | 0.00 |
| 3,881.0 | 22.56 | 213.31 | 3,672.0 | -937.6 | -616.1 | 1,121.9 | 0.00 | 0.00 | 0.00 |
| PARKMAN | | | | | | | | | |

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Postle IC 11-21D |
| Company: | Great Western | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Project: | SEC.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | North Reference: | True |
| Well: | Postle IC 11-21D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (9-18-12) | | |

| 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) |
| 3,920.0 | 22.56 | 213.31 | 3,708.0 | -950.2 | -624.3 | 1,136.9 | 0.00 | 0.00 | 0.00 |
| 3,960.0 | 22.56 | 213.31 | 3,745.0 | -963.0 | -632.7 | 1,152.2 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 22.56 | 213.31 | 3,781.9 | -975.8 | -641.2 | 1,167.6 | 0.00 | 0.00 | 0.00 |
| 4,040.0 | 22.56 | 213.31 | 3,818.9 | -988.6 | -649.6 | 1,182.9 | 0.00 | 0.00 | 0.00 |
| 4,080.0 | 22.56 | 213.31 | 3,855.8 | -1,001.5 | -658.0 | 1,198.3 | 0.00 | 0.00 | 0.00 |
| 4,120.0 | 22.56 | 213.31 | 3,892.7 | -1,014.3 | -666.4 | 1,213.6 | 0.00 | 0.00 | 0.00 |
| 4,160.0 | 22.56 | 213.31 | 3,929.7 | -1,027.1 | -674.9 | 1,229.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 22.56 | 213.31 | 3,966.6 | -1,039.9 | -683.3 | 1,244.3 | 0.00 | 0.00 | 0.00 |
| 4,240.0 | 22.56 | 213.31 | 4,003.6 | -1,052.8 | -691.7 | 1,259.7 | 0.00 | 0.00 | 0.00 |
| 4,280.0 | 22.56 | 213.31 | 4,040.5 | -1,065.6 | -700.1 | 1,275.0 | 0.00 | 0.00 | 0.00 |
| 4,320.0 | 22.56 | 213.31 | 4,077.4 | -1,078.4 | -708.6 | 1,290.4 | 0.00 | 0.00 | 0.00 |
| 4,360.0 | 22.56 | 213.31 | 4,114.4 | -1,091.2 | -717.0 | 1,305.7 | 0.00 | 0.00 | 0.00 |
| 4,360.7 | 22.56 | 213.31 | 4,115.0 | -1,091.4 | -717.1 | 1,306.0 | 0.00 | 0.00 | 0.00 |
| SUSSEX | | | | | | | | | |
| 4,400.0 | 22.56 | 213.31 | 4,151.3 | -1,104.1 | -725.4 | 1,321.1 | 0.00 | 0.00 | 0.00 |
| 4,440.0 | 22.56 | 213.31 | 4,188.3 | -1,116.9 | -733.9 | 1,336.4 | 0.00 | 0.00 | 0.00 |
| 4,480.0 | 22.56 | 213.31 | 4,225.2 | -1,129.7 | -742.3 | 1,351.7 | 0.00 | 0.00 | 0.00 |
| 4,520.0 | 22.56 | 213.31 | 4,262.1 | -1,142.5 | -750.7 | 1,367.1 | 0.00 | 0.00 | 0.00 |
| 4,560.0 | 22.56 | 213.31 | 4,299.1 | -1,155.4 | -759.1 | 1,382.4 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 22.56 | 213.31 | 4,336.0 | -1,168.2 | -767.6 | 1,397.8 | 0.00 | 0.00 | 0.00 |
| 4,640.0 | 22.56 | 213.31 | 4,372.9 | -1,181.0 | -776.0 | 1,413.1 | 0.00 | 0.00 | 0.00 |
| 4,680.0 | 22.56 | 213.31 | 4,409.9 | -1,193.8 | -784.4 | 1,428.5 | 0.00 | 0.00 | 0.00 |
| 4,720.0 | 22.56 | 213.31 | 4,446.8 | -1,206.7 | -792.8 | 1,443.8 | 0.00 | 0.00 | 0.00 |
| 4,760.0 | 22.56 | 213.31 | 4,483.8 | -1,219.5 | -801.3 | 1,459.2 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 22.56 | 213.31 | 4,520.7 | -1,232.3 | -809.7 | 1,474.5 | 0.00 | 0.00 | 0.00 |
| 4,840.0 | 22.56 | 213.31 | 4,557.6 | -1,245.1 | -818.1 | 1,489.9 | 0.00 | 0.00 | 0.00 |
| 4,880.0 | 22.56 | 213.31 | 4,594.6 | -1,258.0 | -826.6 | 1,505.2 | 0.00 | 0.00 | 0.00 |
| 4,920.0 | 22.56 | 213.31 | 4,631.5 | -1,270.8 | -835.0 | 1,520.5 | 0.00 | 0.00 | 0.00 |
| 4,921.6 | 22.56 | 213.31 | 4,633.0 | -1,271.3 | -835.3 | 1,521.2 | 0.00 | 0.00 | 0.00 |
| SHANNON | | | | | | | | | |
| 4,960.0 | 22.56 | 213.31 | 4,668.5 | -1,283.6 | -843.4 | 1,535.9 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 22.56 | 213.31 | 4,705.4 | -1,296.4 | -851.8 | 1,551.2 | 0.00 | 0.00 | 0.00 |
| 5,040.0 | 22.56 | 213.31 | 4,742.3 | -1,309.3 | -860.3 | 1,566.6 | 0.00 | 0.00 | 0.00 |
| 5,080.0 | 22.56 | 213.31 | 4,779.3 | -1,322.1 | -868.7 | 1,581.9 | 0.00 | 0.00 | 0.00 |
| 5,120.0 | 22.56 | 213.31 | 4,816.2 | -1,334.9 | -877.1 | 1,597.3 | 0.00 | 0.00 | 0.00 |
| 5,160.0 | 22.56 | 213.31 | 4,853.2 | -1,347.7 | -885.5 | 1,612.6 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 22.56 | 213.31 | 4,890.1 | -1,360.6 | -894.0 | 1,628.0 | 0.00 | 0.00 | 0.00 |
| 5,211.7 | 22.56 | 213.31 | 4,900.9 | -1,364.3 | -896.4 | 1,632.5 | 0.00 | 0.00 | 0.00 |
| Start Drop -2.00 | | | | | | | | | |
| 5,240.0 | 21.99 | 213.31 | 4,927.1 | -1,373.3 | -902.3 | 1,643.2 | 2.00 | -2.00 | 0.00 |
| 5,280.0 | 21.19 | 213.31 | 4,964.3 | -1,385.6 | -910.4 | 1,657.9 | 2.00 | -2.00 | 0.00 |
| 5,320.0 | 20.39 | 213.31 | 5,001.7 | -1,397.4 | -918.2 | 1,672.1 | 2.00 | -2.00 | 0.00 |
| 5,360.0 | 19.59 | 213.31 | 5,039.3 | -1,408.9 | -925.7 | 1,685.8 | 2.00 | -2.00 | 0.00 |
| 5,400.0 | 18.79 | 213.31 | 5,077.0 | -1,419.9 | -932.9 | 1,698.9 | 2.00 | -2.00 | 0.00 |
| 5,440.0 | 17.99 | 213.31 | 5,115.0 | -1,430.4 | -939.9 | 1,711.6 | 2.00 | -2.00 | 0.00 |
| 5,480.0 | 17.19 | 213.31 | 5,153.1 | -1,440.5 | -946.5 | 1,723.6 | 2.00 | -2.00 | 0.00 |
| 5,520.0 | 16.39 | 213.31 | 5,191.4 | -1,450.2 | -952.9 | 1,735.2 | 2.00 | -2.00 | 0.00 |
| 5,560.0 | 15.59 | 213.31 | 5,229.9 | -1,459.4 | -958.9 | 1,746.2 | 2.00 | -2.00 | 0.00 |
| 5,600.0 | 14.79 | 213.31 | 5,268.5 | -1,468.1 | -964.7 | 1,756.7 | 2.00 | -2.00 | 0.00 |
| 5,640.0 | 13.99 | 213.31 | 5,307.2 | -1,476.5 | -970.1 | 1,766.7 | 2.00 | -2.00 | 0.00 |
| 5,680.0 | 13.19 | 213.31 | 5,346.1 | -1,484.3 | -975.3 | 1,776.1 | 2.00 | -2.00 | 0.00 |
| 5,720.0 | 12.39 | 213.31 | 5,385.1 | -1,491.7 | -980.2 | 1,784.9 | 2.00 | -2.00 | 0.00 |
| 5,760.0 | 11.59 | 213.31 | 5,424.2 | -1,498.7 | -984.7 | 1,793.2 | 2.00 | -2.00 | 0.00 |

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Postle IC 11-21D |
| Company: | Great Western | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Project: | SEC.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | North Reference: | True |
| Well: | Postle IC 11-21D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (9-18-12) | | |

| 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) |
| 5,800.0 | 10.79 | 213.31 | 5,463.5 | -1,505.2 | -989.0 | 1,801.0 | 2.00 | -2.00 | 0.00 |
| 5,840.0 | 9.99 | 213.31 | 5,502.8 | -1,511.2 | -992.9 | 1,808.2 | 2.00 | -2.00 | 0.00 |
| 5,880.0 | 9.19 | 213.31 | 5,542.2 | -1,516.8 | -996.6 | 1,814.9 | 2.00 | -2.00 | 0.00 |
| 5,920.0 | 8.39 | 213.31 | 5,581.8 | -1,521.9 | -1,000.0 | 1,821.0 | 2.00 | -2.00 | 0.00 |
| 5,960.0 | 7.59 | 213.31 | 5,621.4 | -1,526.5 | -1,003.0 | 1,826.6 | 2.00 | -2.00 | 0.00 |
| 6,000.0 | 6.79 | 213.31 | 5,661.1 | -1,530.7 | -1,005.8 | 1,831.6 | 2.00 | -2.00 | 0.00 |
| 6,040.0 | 5.99 | 213.31 | 5,700.8 | -1,534.4 | -1,008.2 | 1,836.0 | 2.00 | -2.00 | 0.00 |
| 6,080.0 | 5.19 | 213.31 | 5,740.6 | -1,537.7 | -1,010.4 | 1,839.9 | 2.00 | -2.00 | 0.00 |
| 6,120.0 | 4.39 | 213.31 | 5,780.5 | -1,540.5 | -1,012.2 | 1,843.3 | 2.00 | -2.00 | 0.00 |
| 6,160.0 | 3.59 | 213.31 | 5,820.4 | -1,542.8 | -1,013.7 | 1,846.0 | 2.00 | -2.00 | 0.00 |
| 6,200.0 | 2.79 | 213.31 | 5,860.3 | -1,544.7 | -1,014.9 | 1,848.3 | 2.00 | -2.00 | 0.00 |
| 6,240.0 | 1.99 | 213.31 | 5,900.3 | -1,546.1 | -1,015.9 | 1,850.0 | 2.00 | -2.00 | 0.00 |
| 6,280.0 | 1.19 | 213.31 | 5,940.3 | -1,547.0 | -1,016.5 | 1,851.1 | 2.00 | -2.00 | 0.00 |
| 6,320.0 | 0.39 | 213.31 | 5,980.3 | -1,547.5 | -1,016.8 | 1,851.6 | 2.00 | -2.00 | 0.00 |
| 6,339.7 | 0.00 | 0.00 | 6,000.0 | -1,547.5 | -1,016.8 | 1,851.7 | 2.00 | -2.00 | 0.00 |
| Back to Vertical - TARGET BHL 1338'FSL & 1320'FEL | | | | | | | | | |
| 6,360.0 | 0.00 | 0.00 | 6,020.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 0.00 | 0.00 | 6,060.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,440.0 | 0.00 | 0.00 | 6,100.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,480.0 | 0.00 | 0.00 | 6,140.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,520.0 | 0.00 | 0.00 | 6,180.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,560.0 | 0.00 | 0.00 | 6,220.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 0.00 | 0.00 | 6,260.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,640.0 | 0.00 | 0.00 | 6,300.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,680.0 | 0.00 | 0.00 | 6,340.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,720.0 | 0.00 | 0.00 | 6,380.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,760.0 | 0.00 | 0.00 | 6,420.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 0.00 | 0.00 | 6,460.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,840.0 | 0.00 | 0.00 | 6,500.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,880.0 | 0.00 | 0.00 | 6,540.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,920.0 | 0.00 | 0.00 | 6,580.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 6,960.0 | 0.00 | 0.00 | 6,620.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 0.00 | 0.00 | 6,660.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,040.0 | 0.00 | 0.00 | 6,700.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,080.0 | 0.00 | 0.00 | 6,740.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,120.0 | 0.00 | 0.00 | 6,780.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,160.0 | 0.00 | 0.00 | 6,820.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 0.00 | 0.00 | 6,860.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,240.0 | 0.00 | 0.00 | 6,900.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,280.0 | 0.00 | 0.00 | 6,940.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,320.0 | 0.00 | 0.00 | 6,980.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,346.7 | 0.00 | 0.00 | 7,007.0 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| NIOBRARA - LEGAL BOX 800' X 800', 1323'FSL & 1314'FEL - TARGET CIRCLE 1338'FSL & 1320'FEL | | | | | | | | | |
| 7,360.0 | 0.00 | 0.00 | 7,020.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 0.00 | 0.00 | 7,060.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,440.0 | 0.00 | 0.00 | 7,100.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,480.0 | 0.00 | 0.00 | 7,140.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,520.0 | 0.00 | 0.00 | 7,180.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,560.0 | 0.00 | 0.00 | 7,220.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 0.00 | 0.00 | 7,260.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| 7,618.7 | 0.00 | 0.00 | 7,279.0 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |
| FORT HAYS | | | | | | | | | |
| 7,640.0 | 0.00 | 0.00 | 7,300.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Postle IC 11-21D |
| Company: | Great Western | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Project: | SEC.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | North Reference: | True |
| Well: | Postle IC 11-21D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (9-18-12) | | |

| 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) | |
| 7,640.7 | 0.00 | 0.00 | 7,301.0 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 | |
| CODELL | | | | | | | | | | |
| 7,680.0 | 0.00 | 0.00 | 7,340.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 | |
| 7,720.0 | 0.00 | 0.00 | 7,380.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 | |
| 7,760.0 | 0.00 | 0.00 | 7,420.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 | |
| 7,800.0 | 0.00 | 0.00 | 7,460.3 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 | |
| 7,800.7 | 0.00 | 0.00 | 7,461.0 | -1,547.5 | -1,016.8 | 1,851.7 | 0.00 | 0.00 | 0.00 | |
| TD at 7800.7 | | | | | | | | | | |

| Targets | | | | | | | | | | |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude | |
| - hit/miss target | | | | | | | | | | |
| - Shape | | | | | | | | | | |
| LEGAL BOX 800' X 800' | 0.00 | 0.00 | 7,007.0 | -1,562.5 | -1,010.8 | 1,329,673.15 | 3,149,198.64 | 40.237117 | -104.965578 | |
| - plan misses target center by 16.1ft at 7346.7ft MD (7007.0 TVD, -1547.5 N, -1016.8 E) | | | | | | | | | | |
| - Rectangle (sides W800.0 H800.0 D454.0) | | | | | | | | | | |
| TARGET BHL 1338'F: | 0.00 | 0.00 | 6,000.0 | -1,547.5 | -1,016.8 | 1,329,688.09 | 3,149,192.54 | 40.237158 | -104.965600 | |
| - plan hits target center | | | | | | | | | | |
| - Point | | | | | | | | | | |
| TARGET CIRCLE 1338'F: | 0.00 | 0.00 | 7,007.0 | -1,547.5 | -1,016.8 | 1,329,688.09 | 3,149,192.54 | 40.237158 | -104.965600 | |
| - plan hits target center | | | | | | | | | | |
| - Circle (radius 75.0) | | | | | | | | | | |

| Casing Points | | | | | | |
|---------------------|---------------------|--------|---------------------|-------------------|--|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") | | |
| 600.2 | 600.0 | 8 5/8" | 8-5/8 | 12-1/4 | | |

| Formations | | | | | | |
|---------------------|---------------------|--------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 2,837.1 | 2,708.0 | GREELEY SAND | | 0.00 | | |
| 3,881.0 | 3,672.0 | PARKMAN | | 0.00 | | |
| 4,360.7 | 4,115.0 | SUSSEX | | 0.00 | | |
| 4,921.6 | 4,633.0 | SHANNON | | 0.00 | | |
| 7,346.7 | 7,007.0 | NIOBRARA | | 0.00 | | |
| 7,618.7 | 7,279.0 | FORT HAYS | | 0.00 | | |
| 7,640.7 | 7,301.0 | CODELL | | 0.00 | | |

| | | | |
|------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Postle IC 11-21D |
| Company: | Great Western | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Project: | SEC.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | North Reference: | True |
| Well: | Postle IC 11-21D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (9-18-12) | | |

| Plan Annotations | | | | |
|---------------------|---------------------|-------------------|------------|--------------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 400.0 | 400.0 | 0.0 | 0.0 | KOP - Start Build 2.00 |
| 1,528.0 | 1,499.1 | -183.2 | -120.4 | Start 3683.7 hold at 1528.0 MD |
| 5,211.7 | 4,900.9 | -1,364.3 | -896.4 | Start Drop -2.00 |
| 6,339.7 | 6,000.0 | -1,547.5 | -1,016.8 | Back to Vertical |
| 7,800.7 | 7,461.0 | -1,547.5 | -1,016.8 | TD at 7800.7 |



Great Western

SEC.11-T3N-R68W

Postle IC 11-16D Pad Sec.11-T3N-R68W

Postle IC 11-21D

Wellbore #1

Plan #1 (9-18-12)

Anticollision Report

20 September, 2012

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Postle IC 11-21D |
| Project: | SEC.11-T3N-R68W | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Reference Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Postle IC 11-21D | 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 (9-18-12) | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | Plan #1 (9-18-12) | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | Stations | Error Model: | ISCWSA |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 10,000.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| | | | | |
|----------------------------|-----------------------|---------------------------------|------------------|--------------------|
| Survey Tool Program | Date 9/18/2012 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| 0.0 | 7,800.7 | Plan #1 (9-18-12) (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 | | | | | | |
| Postle IC 11-16D Pad Sec.11-T3N-R68W | | | | | | |
| Postle IC 11-15D - Wellbore #1 - Plan #1 (9-18-12) | 400.0 | 400.0 | 19.6 | 18.0 | 12.446 | CC, ES |
| Postle IC 11-15D - Wellbore #1 - Plan #1 (9-18-12) | 500.0 | 500.0 | 21.1 | 19.1 | 10.533 | SF |
| Postle IC 11-23D - Wellbore #1 - Plan #1 (9-18-12) | 300.0 | 300.0 | 19.7 | 18.6 | 17.563 | CC, ES |
| Postle IC 11-23D - Wellbore #1 - Plan #1 (9-18-12) | 1,600.0 | 1,582.3 | 64.4 | 56.0 | 7.607 | SF |

| Offset Design Postle IC 11-16D Pad Sec.11-T3N-R68W - Postle IC 11-15D - Wellbore #1 - Plan #1 (9-18-12) | | | | | | | | | | | | 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 | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 65.84 | 8.0 | 17.9 | 19.6 | 19.6 | 0.00 | N/A | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 65.84 | 8.0 | 17.9 | 19.6 | 19.4 | 0.22 | 87.123 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 65.84 | 8.0 | 17.9 | 19.6 | 18.9 | 0.67 | 29.041 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | 65.84 | 8.0 | 17.9 | 19.6 | 18.5 | 1.12 | 17.425 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 65.84 | 8.0 | 17.9 | 19.6 | 18.0 | 1.57 | 12.446 CC, ES | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -150.00 | 8.0 | 17.9 | 21.1 | 19.1 | 2.00 | 10.533 SF | |
| 600.0 | 599.8 | 599.8 | 599.8 | 1.2 | 1.2 | -155.80 | 8.0 | 17.9 | 25.7 | 23.3 | 2.42 | 10.637 | |
| 700.0 | 699.5 | 699.5 | 699.5 | 1.4 | 1.5 | -161.80 | 8.0 | 17.9 | 33.9 | 31.0 | 2.85 | 11.882 | |
| 800.0 | 798.7 | 798.7 | 798.7 | 1.7 | 1.7 | -166.53 | 8.0 | 17.9 | 45.6 | 42.3 | 3.29 | 13.868 | |
| 900.0 | 897.5 | 899.4 | 899.4 | 2.0 | 1.9 | -169.36 | 6.4 | 17.2 | 59.4 | 55.7 | 3.70 | 16.031 | |
| 1,000.0 | 995.6 | 1,000.6 | 1,000.4 | 2.3 | 2.1 | -170.61 | 1.5 | 15.2 | 73.3 | 69.2 | 4.10 | 17.888 | |
| 1,100.0 | 1,093.1 | 1,102.3 | 1,101.7 | 2.8 | 2.3 | -171.02 | -6.7 | 11.8 | 87.4 | 82.9 | 4.52 | 19.362 | |
| 1,200.0 | 1,189.6 | 1,204.5 | 1,203.1 | 3.2 | 2.5 | -170.92 | -18.3 | 7.0 | 101.6 | 96.7 | 4.95 | 20.514 | |
| 1,300.0 | 1,285.3 | 1,307.1 | 1,304.4 | 3.8 | 2.8 | -170.51 | -33.3 | 0.7 | 115.9 | 110.5 | 5.42 | 21.386 | |
| 1,400.0 | 1,379.8 | 1,410.2 | 1,405.6 | 4.4 | 3.1 | -169.88 | -51.8 | -6.9 | 130.3 | 124.4 | 5.92 | 22.016 | |
| 1,500.0 | 1,473.2 | 1,510.3 | 1,503.3 | 5.1 | 3.5 | -169.24 | -72.2 | -15.4 | 145.5 | 139.1 | 6.45 | 22.580 | |
| 1,528.0 | 1,499.1 | 1,537.9 | 1,530.2 | 5.3 | 3.6 | -169.12 | -77.8 | -17.7 | 150.4 | 143.8 | 6.60 | 22.786 | |
| 1,600.0 | 1,565.6 | 1,608.8 | 1,599.3 | 5.8 | 3.9 | -168.91 | -92.3 | -23.7 | 163.2 | 156.1 | 7.03 | 23.219 | |
| 1,700.0 | 1,657.9 | 1,707.2 | 1,695.2 | 6.5 | 4.3 | -168.67 | -112.5 | -32.1 | 180.9 | 173.3 | 7.64 | 23.687 | |
| 1,800.0 | 1,750.3 | 1,805.6 | 1,791.2 | 7.3 | 4.7 | -168.47 | -132.7 | -40.4 | 198.7 | 190.4 | 8.26 | 24.051 | |
| 1,900.0 | 1,842.6 | 1,904.0 | 1,887.1 | 8.0 | 5.1 | -168.31 | -152.9 | -48.8 | 216.5 | 207.6 | 8.90 | 24.331 | |
| 2,000.0 | 1,935.0 | 2,002.4 | 1,983.1 | 8.8 | 5.5 | -168.17 | -173.0 | -57.2 | 234.2 | 224.7 | 9.54 | 24.550 | |
| 2,100.0 | 2,027.3 | 2,100.8 | 2,079.0 | 9.6 | 6.0 | -168.05 | -193.2 | -65.5 | 252.0 | 241.8 | 10.19 | 24.725 | |

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 Postle IC 11-21D |
| Project: | SEC.11-T3N-R68W | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Reference Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Postle IC 11-21D | 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 (9-18-12) | Offset TVD Reference: | Offset Datum |

| Offset Design Postle IC 11-16D Pad Sec.11-T3N-R68W - Postle IC 11-15D - Wellbore #1 - Plan #1 (9-18-12) | | | | | | | | | | | | | 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 | | |
| 2,200.0 | 2,119.7 | 2,199.2 | 2,175.0 | 10.3 | 6.4 | -167.95 | -213.4 | -73.9 | 269.8 | 258.9 | 10.85 | 24.866 | | |
| 2,300.0 | 2,212.0 | 2,297.6 | 2,270.9 | 11.1 | 6.9 | -167.86 | -233.5 | -82.2 | 287.5 | 276.0 | 11.51 | 24.979 | | |
| 2,400.0 | 2,304.4 | 2,396.0 | 2,366.9 | 11.9 | 7.3 | -167.78 | -253.7 | -90.6 | 305.3 | 293.1 | 12.18 | 25.072 | | |
| 2,500.0 | 2,396.7 | 2,494.4 | 2,462.9 | 12.6 | 7.8 | -167.70 | -273.9 | -98.9 | 323.1 | 310.2 | 12.85 | 25.149 | | |
| 2,600.0 | 2,489.0 | 2,592.9 | 2,558.8 | 13.4 | 8.2 | -167.64 | -294.1 | -107.3 | 340.8 | 327.3 | 13.52 | 25.212 | | |
| 2,700.0 | 2,581.4 | 2,691.3 | 2,654.8 | 14.2 | 8.7 | -167.58 | -314.2 | -115.7 | 358.6 | 344.4 | 14.19 | 25.264 | | |
| 2,800.0 | 2,673.7 | 2,789.7 | 2,750.7 | 14.9 | 9.2 | -167.53 | -334.4 | -124.0 | 376.4 | 361.5 | 14.87 | 25.308 | | |
| 2,900.0 | 2,766.1 | 2,888.1 | 2,846.7 | 15.7 | 9.6 | -167.48 | -354.6 | -132.4 | 394.2 | 378.6 | 15.55 | 25.345 | | |
| 3,000.0 | 2,858.4 | 2,986.5 | 2,942.6 | 16.5 | 10.1 | -167.44 | -374.7 | -140.7 | 411.9 | 395.7 | 16.23 | 25.376 | | |
| 3,100.0 | 2,950.8 | 3,084.9 | 3,038.6 | 17.3 | 10.5 | -167.40 | -394.9 | -149.1 | 429.7 | 412.8 | 16.92 | 25.403 | | |
| 3,200.0 | 3,043.1 | 3,183.3 | 3,134.5 | 18.0 | 11.0 | -167.36 | -415.1 | -157.5 | 447.5 | 429.9 | 17.60 | 25.425 | | |
| 3,300.0 | 3,135.5 | 3,281.7 | 3,230.5 | 18.8 | 11.5 | -167.33 | -435.2 | -165.8 | 465.3 | 447.0 | 18.29 | 25.444 | | |
| 3,400.0 | 3,227.8 | 3,380.1 | 3,326.4 | 19.6 | 11.9 | -167.30 | -455.4 | -174.2 | 483.0 | 464.1 | 18.97 | 25.460 | | |
| 3,500.0 | 3,320.2 | 3,478.5 | 3,422.4 | 20.4 | 12.4 | -167.27 | -475.6 | -182.5 | 500.8 | 481.1 | 19.66 | 25.474 | | |
| 3,600.0 | 3,412.5 | 3,576.9 | 3,518.4 | 21.1 | 12.9 | -167.24 | -495.8 | -190.9 | 518.6 | 498.2 | 20.35 | 25.486 | | |
| 3,700.0 | 3,504.9 | 3,675.3 | 3,614.3 | 21.9 | 13.3 | -167.22 | -515.9 | -199.2 | 536.3 | 515.3 | 21.04 | 25.496 | | |
| 3,800.0 | 3,597.2 | 3,773.7 | 3,710.3 | 22.7 | 13.8 | -167.19 | -536.1 | -207.6 | 554.1 | 532.4 | 21.73 | 25.505 | | |
| 3,900.0 | 3,689.6 | 3,872.2 | 3,806.2 | 23.5 | 14.3 | -167.17 | -556.3 | -216.0 | 571.9 | 549.5 | 22.42 | 25.512 | | |
| 4,000.0 | 3,781.9 | 3,970.6 | 3,902.2 | 24.2 | 14.8 | -167.15 | -576.4 | -224.3 | 589.7 | 566.6 | 23.11 | 25.518 | | |
| 4,100.0 | 3,874.3 | 4,069.0 | 3,998.1 | 25.0 | 15.2 | -167.13 | -596.6 | -232.7 | 607.4 | 583.6 | 23.80 | 25.524 | | |
| 4,200.0 | 3,966.6 | 4,167.4 | 4,094.1 | 25.8 | 15.7 | -167.11 | -616.8 | -241.0 | 625.2 | 600.7 | 24.49 | 25.528 | | |
| 4,300.0 | 4,059.0 | 4,265.8 | 4,190.0 | 26.6 | 16.2 | -167.09 | -636.9 | -249.4 | 643.0 | 617.8 | 25.18 | 25.532 | | |
| 4,400.0 | 4,151.3 | 4,364.2 | 4,286.0 | 27.3 | 16.6 | -167.08 | -657.1 | -257.8 | 660.8 | 634.9 | 25.88 | 25.535 | | |
| 4,500.0 | 4,243.7 | 4,462.6 | 4,382.0 | 28.1 | 17.1 | -167.06 | -677.3 | -266.1 | 678.5 | 652.0 | 26.57 | 25.537 | | |
| 4,600.0 | 4,336.0 | 4,561.0 | 4,477.9 | 28.9 | 17.6 | -167.05 | -697.5 | -274.5 | 696.3 | 669.1 | 27.26 | 25.539 | | |
| 4,700.0 | 4,428.4 | 4,659.4 | 4,573.9 | 29.7 | 18.0 | -167.03 | -717.6 | -282.8 | 714.1 | 686.1 | 27.96 | 25.541 | | |
| 4,800.0 | 4,520.7 | 4,757.8 | 4,669.8 | 30.5 | 18.5 | -167.02 | -737.8 | -291.2 | 731.9 | 703.2 | 28.65 | 25.542 | | |
| 4,900.0 | 4,613.1 | 4,856.2 | 4,765.8 | 31.2 | 19.0 | -167.01 | -758.0 | -299.5 | 749.6 | 720.3 | 29.35 | 25.543 | | |
| 5,000.0 | 4,705.4 | 4,954.6 | 4,861.7 | 32.0 | 19.5 | -166.99 | -778.1 | -307.9 | 767.4 | 737.4 | 30.04 | 25.544 | | |
| 5,100.0 | 4,797.7 | 5,053.0 | 4,957.7 | 32.8 | 19.9 | -166.98 | -798.3 | -316.3 | 785.2 | 754.5 | 30.74 | 25.544 | | |
| 5,200.0 | 4,890.1 | 5,151.4 | 5,053.6 | 33.6 | 20.4 | -166.97 | -818.5 | -324.6 | 803.0 | 771.5 | 31.43 | 25.545 | | |
| 5,211.7 | 4,900.9 | 5,162.5 | 5,064.4 | 33.7 | 20.5 | -166.97 | -820.7 | -325.6 | 805.0 | 773.5 | 31.51 | 25.546 | | |
| 5,300.0 | 4,983.0 | 5,231.9 | 5,132.2 | 34.2 | 20.7 | -167.04 | -834.2 | -331.1 | 820.4 | 788.3 | 32.06 | 25.587 | | |
| 5,400.0 | 5,077.0 | 5,300.0 | 5,199.2 | 34.7 | 20.9 | -167.12 | -845.9 | -336.0 | 837.0 | 804.5 | 32.57 | 25.697 | | |
| 5,500.0 | 5,172.3 | 5,387.5 | 5,285.5 | 35.2 | 21.2 | -167.22 | -858.9 | -341.4 | 852.6 | 819.6 | 33.06 | 25.788 | | |
| 5,600.0 | 5,268.5 | 5,465.0 | 5,362.4 | 35.6 | 21.3 | -167.33 | -868.3 | -345.2 | 867.4 | 833.9 | 33.47 | 25.916 | | |
| 5,700.0 | 5,365.6 | 5,542.4 | 5,439.3 | 36.0 | 21.5 | -167.45 | -875.7 | -348.3 | 881.2 | 847.4 | 33.81 | 26.062 | | |
| 5,800.0 | 5,463.5 | 5,619.5 | 5,516.2 | 36.3 | 21.6 | -167.58 | -881.2 | -350.6 | 894.2 | 860.1 | 34.10 | 26.225 | | |
| 5,900.0 | 5,562.0 | 5,700.0 | 5,596.6 | 36.6 | 21.8 | -167.71 | -885.0 | -352.2 | 906.2 | 871.9 | 34.32 | 26.405 | | |
| 6,000.0 | 5,661.1 | 5,773.4 | 5,669.9 | 36.9 | 21.9 | -167.85 | -886.6 | -352.8 | 917.2 | 882.8 | 34.48 | 26.604 | | |
| 6,100.0 | 5,760.6 | 5,864.0 | 5,760.6 | 37.0 | 22.0 | -168.01 | -886.7 | -352.9 | 926.9 | 892.3 | 34.60 | 26.787 | | |
| 6,200.0 | 5,860.3 | 5,963.8 | 5,860.3 | 37.2 | 22.1 | -168.12 | -886.7 | -352.9 | 933.4 | 898.7 | 34.70 | 26.902 | | |
| 6,300.0 | 5,960.3 | 6,063.7 | 5,960.3 | 37.3 | 22.2 | -168.17 | -886.7 | -352.9 | 936.5 | 901.7 | 34.76 | 26.944 | | |
| 6,339.7 | 6,000.0 | 6,103.4 | 6,000.0 | 37.3 | 22.2 | 45.13 | -886.7 | -352.9 | 936.7 | 902.0 | 34.78 | 26.936 | | |
| 6,400.0 | 6,060.3 | 6,163.7 | 6,060.3 | 37.4 | 22.3 | 45.13 | -886.7 | -352.9 | 936.7 | 901.8 | 34.95 | 26.805 | | |
| 6,500.0 | 6,160.3 | 6,263.7 | 6,160.3 | 37.4 | 22.4 | 45.13 | -886.7 | -352.9 | 936.7 | 901.5 | 35.22 | 26.597 | | |
| 6,600.0 | 6,260.3 | 6,363.7 | 6,260.3 | 37.5 | 22.5 | 45.13 | -886.7 | -352.9 | 936.7 | 901.2 | 35.50 | 26.389 | | |
| 6,700.0 | 6,360.3 | 6,463.7 | 6,360.3 | 37.6 | 22.6 | 45.13 | -886.7 | -352.9 | 936.7 | 901.0 | 35.78 | 26.181 | | |
| 6,800.0 | 6,460.3 | 6,563.7 | 6,460.3 | 37.6 | 22.7 | 45.13 | -886.7 | -352.9 | 936.7 | 900.7 | 36.06 | 25.975 | | |
| 6,900.0 | 6,560.3 | 6,663.7 | 6,560.3 | 37.7 | 22.9 | 45.13 | -886.7 | -352.9 | 936.7 | 900.4 | 36.35 | 25.769 | | |
| 7,000.0 | 6,660.3 | 6,763.7 | 6,660.3 | 37.8 | 23.0 | 45.13 | -886.7 | -352.9 | 936.7 | 900.1 | 36.64 | 25.565 | | |
| 7,100.0 | 6,760.3 | 6,863.7 | 6,760.3 | 37.8 | 23.1 | 45.13 | -886.7 | -352.9 | 936.7 | 899.8 | 36.94 | 25.361 | | |

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 Postle IC 11-21D |
| Project: | SEC.11-T3N-R68W | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Reference Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Postle IC 11-21D | 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 (9-18-12) | Offset TVD Reference: | Offset Datum |

| Offset Design Postle IC 11-16D Pad Sec.11-T3N-R68W - Postle IC 11-15D - Wellbore #1 - Plan #1 (9-18-12) | | | | | | | | | | | | 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 |
| 7,200.0 | 6,860.3 | 6,963.7 | 6,860.3 | 37.9 | 23.2 | 45.13 | -886.7 | -352.9 | 936.7 | 899.5 | 37.23 | 25.159 | |
| 7,300.0 | 6,960.3 | 7,063.7 | 6,960.3 | 38.0 | 23.3 | 45.13 | -886.7 | -352.9 | 936.7 | 899.2 | 37.53 | 24.958 | |
| 7,400.0 | 7,060.3 | 7,163.7 | 7,060.3 | 38.1 | 23.4 | 45.13 | -886.7 | -352.9 | 936.7 | 898.9 | 37.84 | 24.758 | |
| 7,500.0 | 7,160.3 | 7,263.7 | 7,160.3 | 38.1 | 23.6 | 45.13 | -886.7 | -352.9 | 936.7 | 898.6 | 38.14 | 24.559 | |
| 7,600.0 | 7,260.3 | 7,363.7 | 7,260.3 | 38.2 | 23.7 | 45.13 | -886.7 | -352.9 | 936.7 | 898.3 | 38.45 | 24.362 | |
| 7,700.0 | 7,360.3 | 7,463.7 | 7,360.3 | 38.3 | 23.8 | 45.13 | -886.7 | -352.9 | 936.7 | 898.0 | 38.76 | 24.166 | |
| 7,766.1 | 7,426.4 | 7,529.8 | 7,426.4 | 38.3 | 23.9 | 45.13 | -886.7 | -352.9 | 936.7 | 897.8 | 38.97 | 24.038 | |
| 7,800.7 | 7,461.0 | 7,561.4 | 7,458.0 | 38.4 | 23.9 | 45.13 | -886.7 | -352.9 | 936.7 | 897.7 | 39.07 | 23.974 | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Postle IC 11-21D |
| Project: | SEC.11-T3N-R68W | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Reference Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Postle IC 11-21D | 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 (9-18-12) | Offset TVD Reference: | Offset Datum |

| Offset Design Postle IC 11-16D Pad Sec.11-T3N-R68W - Postle IC 11-23D - Wellbore #1 - Plan #1 (9-18-12) | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | Offset | Semi Major Axis | | Distance | | Minimum | | Separation | | 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 | -115.15 | -8.4 | -17.9 | 19.7 | 19.7 | 0.00 | N/A | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -115.15 | -8.4 | -17.9 | 19.7 | 19.5 | 0.22 | 87.815 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -115.15 | -8.4 | -17.9 | 19.7 | 19.1 | 0.67 | 29.272 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | -115.15 | -8.4 | -17.9 | 19.7 | 18.6 | 1.12 | 17.563 CC, ES | | |
| 400.0 | 400.0 | 399.4 | 399.3 | 0.8 | 0.8 | -117.31 | -9.8 | -18.9 | 21.3 | 19.7 | 1.55 | 13.724 | | |
| 500.0 | 500.0 | 498.6 | 498.4 | 1.0 | 1.0 | 26.12 | -13.9 | -22.0 | 24.5 | 22.5 | 1.95 | 12.581 | | |
| 600.0 | 599.8 | 597.7 | 597.1 | 1.2 | 1.2 | 24.07 | -20.7 | -27.2 | 27.8 | 25.5 | 2.35 | 11.854 | | |
| 700.0 | 699.5 | 696.6 | 695.4 | 1.4 | 1.5 | 22.87 | -30.3 | -34.4 | 31.2 | 28.5 | 2.77 | 11.261 | | |
| 800.0 | 798.7 | 795.5 | 793.0 | 1.7 | 1.8 | 22.27 | -42.5 | -43.6 | 34.7 | 31.5 | 3.22 | 10.758 | | |
| 900.0 | 897.5 | 894.3 | 890.0 | 2.0 | 2.2 | 22.11 | -57.4 | -54.9 | 38.2 | 34.5 | 3.70 | 10.309 | | |
| 1,000.0 | 995.6 | 992.9 | 986.2 | 2.3 | 2.6 | 22.27 | -74.9 | -68.1 | 41.7 | 37.5 | 4.22 | 9.891 | | |
| 1,100.0 | 1,093.1 | 1,091.4 | 1,081.4 | 2.8 | 3.1 | 22.69 | -95.1 | -83.3 | 45.3 | 40.5 | 4.77 | 9.489 | | |
| 1,200.0 | 1,189.6 | 1,189.8 | 1,175.6 | 3.2 | 3.6 | 23.31 | -117.8 | -100.5 | 48.9 | 43.5 | 5.38 | 9.091 | | |
| 1,300.0 | 1,285.3 | 1,288.1 | 1,268.6 | 3.8 | 4.2 | 24.07 | -143.0 | -119.6 | 52.5 | 46.5 | 6.04 | 8.694 | | |
| 1,400.0 | 1,379.8 | 1,386.3 | 1,360.5 | 4.4 | 4.9 | 24.96 | -170.8 | -140.5 | 56.2 | 49.4 | 6.77 | 8.296 | | |
| 1,500.0 | 1,473.2 | 1,484.4 | 1,450.9 | 5.1 | 5.6 | 25.93 | -201.0 | -163.4 | 59.9 | 52.3 | 7.58 | 7.903 | | |
| 1,528.0 | 1,499.1 | 1,511.8 | 1,476.0 | 5.3 | 5.8 | 26.22 | -209.9 | -170.1 | 60.9 | 53.1 | 7.82 | 7.789 | | |
| 1,600.0 | 1,565.6 | 1,582.3 | 1,539.9 | 5.8 | 6.4 | 26.65 | -233.6 | -188.0 | 64.4 | 56.0 | 8.47 | 7.607 SF | | |
| 1,700.0 | 1,657.9 | 1,679.9 | 1,627.2 | 6.5 | 7.3 | 26.25 | -268.5 | -214.4 | 72.0 | 62.7 | 9.33 | 7.718 | | |
| 1,800.0 | 1,750.3 | 1,778.0 | 1,713.5 | 7.3 | 8.2 | 25.12 | -305.7 | -242.5 | 82.4 | 72.3 | 10.13 | 8.135 | | |
| 1,900.0 | 1,842.6 | 1,877.4 | 1,800.6 | 8.0 | 9.1 | 24.10 | -343.8 | -271.3 | 93.4 | 82.5 | 10.94 | 8.540 | | |
| 2,000.0 | 1,935.0 | 1,976.8 | 1,887.8 | 8.8 | 10.0 | 23.30 | -381.9 | -300.0 | 104.4 | 92.7 | 11.75 | 8.885 | | |
| 2,100.0 | 2,027.3 | 2,076.2 | 1,974.9 | 9.6 | 11.0 | 22.66 | -420.0 | -328.8 | 115.4 | 102.9 | 12.57 | 9.182 | | |
| 2,200.0 | 2,119.7 | 2,175.5 | 2,062.1 | 10.3 | 11.9 | 22.12 | -458.1 | -357.6 | 126.4 | 113.1 | 13.39 | 9.440 | | |
| 2,300.0 | 2,212.0 | 2,274.9 | 2,149.3 | 11.1 | 12.9 | 21.67 | -496.2 | -386.4 | 137.5 | 123.3 | 14.22 | 9.666 | | |
| 2,400.0 | 2,304.4 | 2,374.3 | 2,236.4 | 11.9 | 13.9 | 21.29 | -534.3 | -415.2 | 148.5 | 133.5 | 15.06 | 9.865 | | |
| 2,500.0 | 2,396.7 | 2,473.7 | 2,323.6 | 12.6 | 14.8 | 20.96 | -572.4 | -443.9 | 159.6 | 143.7 | 15.89 | 10.042 | | |
| 2,600.0 | 2,489.0 | 2,573.1 | 2,410.8 | 13.4 | 15.8 | 20.67 | -610.5 | -472.7 | 170.6 | 153.9 | 16.73 | 10.200 | | |
| 2,700.0 | 2,581.4 | 2,672.5 | 2,497.9 | 14.2 | 16.7 | 20.42 | -648.5 | -501.5 | 181.7 | 164.1 | 17.57 | 10.341 | | |
| 2,800.0 | 2,673.7 | 2,771.8 | 2,585.1 | 14.9 | 17.7 | 20.20 | -686.6 | -530.3 | 192.7 | 174.3 | 18.41 | 10.469 | | |
| 2,900.0 | 2,766.1 | 2,871.2 | 2,672.3 | 15.7 | 18.7 | 20.00 | -724.7 | -559.1 | 203.8 | 184.5 | 19.25 | 10.585 | | |
| 3,000.0 | 2,858.4 | 2,970.6 | 2,759.4 | 16.5 | 19.6 | 19.82 | -762.8 | -587.9 | 214.8 | 194.8 | 20.10 | 10.691 | | |
| 3,100.0 | 2,950.8 | 3,070.0 | 2,846.6 | 17.3 | 20.6 | 19.66 | -800.9 | -616.6 | 225.9 | 205.0 | 20.94 | 10.787 | | |
| 3,200.0 | 3,043.1 | 3,169.4 | 2,933.8 | 18.0 | 21.5 | 19.51 | -839.0 | -645.4 | 237.0 | 215.2 | 21.79 | 10.876 | | |
| 3,300.0 | 3,135.5 | 3,268.8 | 3,020.9 | 18.8 | 22.5 | 19.38 | -877.1 | -674.2 | 248.0 | 225.4 | 22.64 | 10.957 | | |
| 3,400.0 | 3,227.8 | 3,368.2 | 3,108.1 | 19.6 | 23.5 | 19.26 | -915.2 | -703.0 | 259.1 | 235.6 | 23.49 | 11.033 | | |
| 3,500.0 | 3,320.2 | 3,467.5 | 3,195.2 | 20.4 | 24.4 | 19.15 | -953.3 | -731.8 | 270.2 | 245.8 | 24.34 | 11.102 | | |
| 3,600.0 | 3,412.5 | 3,566.9 | 3,282.4 | 21.1 | 25.4 | 19.04 | -991.4 | -760.5 | 281.2 | 256.1 | 25.19 | 11.167 | | |
| 3,700.0 | 3,504.9 | 3,666.3 | 3,369.6 | 21.9 | 26.4 | 18.95 | -1,029.5 | -789.3 | 292.3 | 266.3 | 26.04 | 11.227 | | |
| 3,800.0 | 3,597.2 | 3,765.7 | 3,456.7 | 22.7 | 27.3 | 18.86 | -1,067.6 | -818.1 | 303.4 | 276.5 | 26.89 | 11.284 | | |
| 3,900.0 | 3,689.6 | 3,865.1 | 3,543.9 | 23.5 | 28.3 | 18.78 | -1,105.7 | -846.9 | 314.5 | 286.7 | 27.74 | 11.336 | | |
| 4,000.0 | 3,781.9 | 3,964.5 | 3,631.1 | 24.2 | 29.3 | 18.70 | -1,143.8 | -875.7 | 325.5 | 296.9 | 28.59 | 11.386 | | |
| 4,100.0 | 3,874.3 | 4,063.8 | 3,718.2 | 25.0 | 30.2 | 18.63 | -1,181.9 | -904.5 | 336.6 | 307.2 | 29.44 | 11.432 | | |
| 4,200.0 | 3,966.6 | 4,163.2 | 3,805.4 | 25.8 | 31.2 | 18.56 | -1,220.0 | -933.2 | 347.7 | 317.4 | 30.30 | 11.476 | | |
| 4,300.0 | 4,059.0 | 4,262.6 | 3,892.6 | 26.6 | 32.2 | 18.50 | -1,258.1 | -962.0 | 358.8 | 327.6 | 31.15 | 11.517 | | |
| 4,400.0 | 4,151.3 | 4,362.0 | 3,979.7 | 27.3 | 33.1 | 18.44 | -1,296.2 | -990.8 | 369.8 | 337.8 | 32.00 | 11.556 | | |
| 4,500.0 | 4,243.7 | 4,461.4 | 4,066.9 | 28.1 | 34.1 | 18.39 | -1,334.3 | -1,019.6 | 380.9 | 348.0 | 32.86 | 11.592 | | |
| 4,600.0 | 4,336.0 | 4,560.8 | 4,154.0 | 28.9 | 35.1 | 18.34 | -1,372.4 | -1,048.4 | 392.0 | 358.3 | 33.71 | 11.627 | | |
| 4,700.0 | 4,428.4 | 4,660.1 | 4,241.2 | 29.7 | 36.0 | 18.29 | -1,410.5 | -1,077.1 | 403.1 | 368.5 | 34.57 | 11.660 | | |
| 4,800.0 | 4,520.7 | 4,759.5 | 4,328.4 | 30.5 | 37.0 | 18.24 | -1,448.6 | -1,105.9 | 414.1 | 378.7 | 35.42 | 11.691 | | |
| 4,900.0 | 4,613.1 | 4,858.9 | 4,415.5 | 31.2 | 38.0 | 18.19 | -1,486.6 | -1,134.7 | 425.2 | 388.9 | 36.28 | 11.721 | | |
| 5,000.0 | 4,705.4 | 4,958.3 | 4,502.7 | 32.0 | 39.0 | 18.15 | -1,524.7 | -1,163.5 | 436.3 | 399.1 | 37.13 | 11.750 | | |

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 Postle IC 11-21D |
| Project: | SEC.11-T3N-R68W | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Reference Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Postle IC 11-21D | 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 (9-18-12) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Postle IC 11-16D Pad Sec.11-T3N-R68W - Postle IC 11-23D - Wellbore #1 - Plan #1 (9-18-12) | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 0-MWD | | | | | | | | | | | | | |
| 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 | 4,797.7 | 5,057.7 | 4,589.9 | 32.8 | 39.9 | 18.11 | -1,562.8 | -1,192.3 | 447.4 | 409.4 | 37.99 | 11.777 | |
| 5,200.0 | 4,890.1 | 5,157.1 | 4,677.0 | 33.6 | 40.9 | 18.07 | -1,600.9 | -1,221.0 | 458.4 | 419.6 | 38.84 | 11.802 | |
| 5,211.7 | 4,900.9 | 5,168.7 | 4,687.3 | 33.7 | 41.0 | 18.07 | -1,605.4 | -1,224.4 | 459.7 | 420.8 | 38.94 | 11.805 | |
| 5,300.0 | 4,983.0 | 5,256.3 | 4,764.1 | 34.2 | 41.9 | 18.06 | -1,639.0 | -1,249.8 | 470.8 | 431.2 | 39.63 | 11.879 | |
| 5,400.0 | 5,077.0 | 5,355.0 | 4,850.7 | 34.7 | 42.8 | 17.94 | -1,676.8 | -1,278.4 | 486.4 | 446.1 | 40.27 | 12.079 | |
| 5,500.0 | 5,172.3 | 5,453.2 | 4,936.8 | 35.2 | 43.8 | 17.74 | -1,714.4 | -1,306.8 | 505.3 | 464.5 | 40.80 | 12.385 | |
| 5,600.0 | 5,268.5 | 5,550.6 | 5,022.2 | 35.6 | 44.7 | 17.47 | -1,751.8 | -1,335.0 | 527.5 | 486.3 | 41.23 | 12.795 | |
| 5,700.0 | 5,365.6 | 5,647.2 | 5,106.9 | 36.0 | 45.7 | 17.13 | -1,788.8 | -1,363.0 | 553.0 | 511.4 | 41.56 | 13.307 | |
| 5,800.0 | 5,463.5 | 5,742.9 | 5,190.8 | 36.3 | 46.6 | 16.76 | -1,825.5 | -1,390.7 | 581.7 | 539.9 | 41.79 | 13.918 | |
| 5,900.0 | 5,562.0 | 5,837.5 | 5,273.8 | 36.6 | 47.5 | 16.36 | -1,861.7 | -1,418.1 | 613.6 | 571.7 | 41.94 | 14.629 | |
| 6,000.0 | 5,661.1 | 5,930.8 | 5,355.7 | 36.9 | 48.4 | 15.95 | -1,897.5 | -1,445.1 | 648.8 | 606.7 | 42.02 | 15.440 | |
| 6,100.0 | 5,760.6 | 6,027.4 | 5,440.4 | 37.0 | 49.3 | 15.50 | -1,934.5 | -1,473.1 | 687.0 | 645.0 | 42.01 | 16.354 | |
| 6,200.0 | 5,860.3 | 6,148.6 | 5,548.3 | 37.2 | 50.3 | 14.92 | -1,978.6 | -1,506.4 | 726.1 | 684.1 | 41.92 | 17.321 | |
| 6,300.0 | 5,960.3 | 6,272.5 | 5,660.8 | 37.3 | 51.0 | 14.39 | -2,019.8 | -1,537.5 | 764.4 | 722.6 | 41.76 | 18.305 | |
| 6,339.7 | 6,000.0 | 6,322.4 | 5,706.8 | 37.3 | 51.3 | -132.50 | -2,035.4 | -1,549.3 | 779.4 | 737.7 | 41.68 | 18.697 | |
| 6,400.0 | 6,060.3 | 6,399.4 | 5,778.3 | 37.4 | 51.8 | -132.89 | -2,058.0 | -1,566.4 | 801.3 | 759.6 | 41.78 | 19.178 | |
| 6,500.0 | 6,160.3 | 6,530.6 | 5,901.9 | 37.4 | 52.5 | -133.44 | -2,093.1 | -1,592.9 | 834.4 | 792.4 | 41.99 | 19.872 | |
| 6,600.0 | 6,260.3 | 6,655.9 | 6,031.3 | 37.5 | 53.1 | -133.89 | -2,124.5 | -1,616.6 | 863.2 | 820.9 | 42.25 | 20.432 | |
| 6,700.0 | 6,360.3 | 6,804.8 | 6,166.0 | 37.6 | 53.6 | -134.24 | -2,151.7 | -1,637.1 | 887.4 | 844.9 | 42.54 | 20.861 | |
| 6,800.0 | 6,460.3 | 6,946.9 | 6,305.3 | 37.6 | 54.1 | -134.51 | -2,174.0 | -1,654.0 | 906.9 | 864.1 | 42.84 | 21.168 | |
| 6,900.0 | 6,560.3 | 7,091.4 | 6,448.3 | 37.7 | 54.4 | -134.71 | -2,191.0 | -1,666.9 | 921.5 | 878.4 | 43.16 | 21.354 | |
| 7,000.0 | 6,660.3 | 7,237.8 | 6,594.0 | 37.8 | 54.7 | -134.84 | -2,202.4 | -1,675.5 | 931.2 | 887.7 | 43.46 | 21.424 | |
| 7,100.0 | 6,760.3 | 7,385.3 | 6,741.3 | 37.8 | 54.9 | -134.89 | -2,207.8 | -1,679.6 | 935.8 | 892.0 | 43.76 | 21.382 | |
| 7,200.0 | 6,860.3 | 7,504.3 | 6,860.3 | 37.9 | 54.9 | -134.90 | -2,208.3 | -1,679.9 | 936.2 | 892.1 | 44.03 | 21.260 | |
| 7,300.0 | 6,960.3 | 7,604.3 | 6,960.3 | 38.0 | 55.0 | -134.90 | -2,208.3 | -1,679.9 | 936.2 | 891.9 | 44.28 | 21.143 | |
| 7,400.0 | 7,060.3 | 7,704.3 | 7,060.3 | 38.1 | 55.0 | -134.90 | -2,208.3 | -1,679.9 | 936.2 | 891.6 | 44.52 | 21.027 | |
| 7,500.0 | 7,160.3 | 7,804.3 | 7,160.3 | 38.1 | 55.1 | -134.90 | -2,208.3 | -1,679.9 | 936.2 | 891.4 | 44.77 | 20.910 | |
| 7,600.0 | 7,260.3 | 7,904.3 | 7,260.3 | 38.2 | 55.1 | -134.90 | -2,208.3 | -1,679.9 | 936.2 | 891.1 | 45.02 | 20.793 | |
| 7,700.0 | 7,360.3 | 8,004.3 | 7,360.3 | 38.3 | 55.2 | -134.90 | -2,208.3 | -1,679.9 | 936.2 | 890.9 | 45.28 | 20.675 | |
| 7,800.7 | 7,461.0 | 8,105.1 | 7,461.0 | 38.4 | 55.2 | -134.90 | -2,208.3 | -1,679.9 | 936.2 | 890.6 | 45.54 | 20.557 | |

| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Postle IC 11-21D |
| Project: | SEC.11-T3N-R68W | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Reference Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Postle IC 11-21D | 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 (9-18-12) | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 4964.0ft (Original Well Elev) Coordinates are relative to: Postle IC 11-21D
 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: 0.35°



| | | | |
|---------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Postle IC 11-21D |
| Project: | SEC.11-T3N-R68W | TVD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Reference Site: | Postle IC 11-16D Pad Sec.11-T3N-R68W | MD Reference: | WELL @ 4964.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Postle IC 11-21D | 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 (9-18-12) | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 4964.0ft (Original Well Elev) Coordinates are relative to: Postle IC 11-21D
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: 0.35°

