

# PETROLEUM DEVELOPMENT CORP Weld County CO

Well Name: **Maxey 24Q-302**

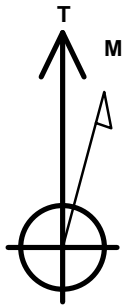
Surface Location: Maxey 24Q-HZ Pad Sec.24-T5N-R65W  
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
 Ground Elevation: 4635.0

| +N/-S | +E/-W | Northing   | Easting    | Latitude  | Longitude   | Slot |
|-------|-------|------------|------------|-----------|-------------|------|
| 0.0   | 0.0   | 1381916.22 | 3247807.14 | 40.378350 | -104.610510 |      |

RKB - 15' WELL @ 4650.0ft (RKB - 15')

## WELLBORE TARGET DETAILS

| Name                         | TVD    | +N/-S  | +E/-W  | Shape |
|------------------------------|--------|--------|--------|-------|
| BHL 78'FSL, 2081'FWL, SEC.19 | 6770.0 | -287.4 | 4471.3 | Point |



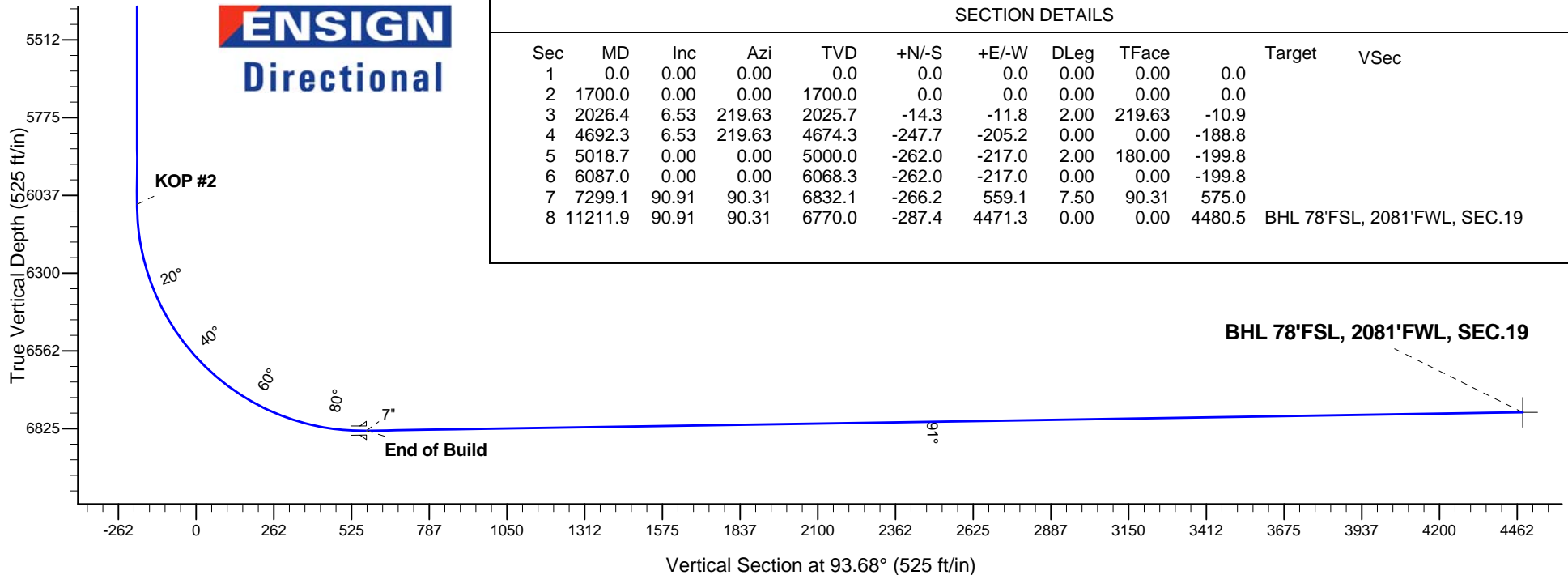
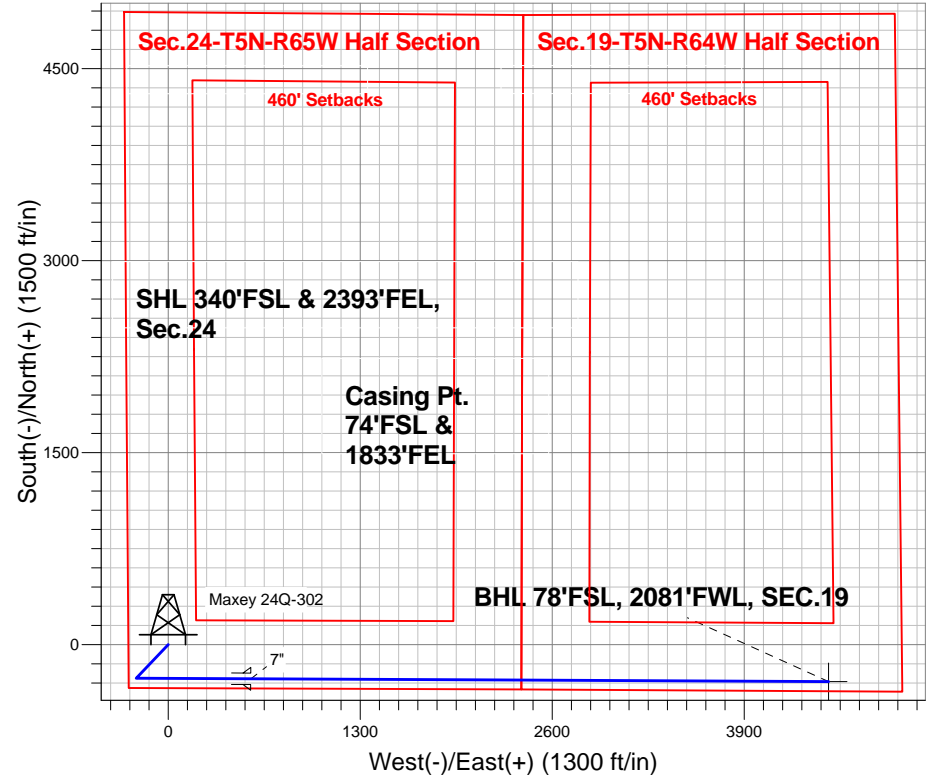
Azimuths to True North  
 Magnetic North: 8.49°

Magnetic Field  
 Strength: 52911.1snT  
 Dip Angle: 66.98°  
 Date: 8/9/2013  
 Model: IGRF2010

## ANNOTATIONS

| TVD    | MD     | Annotation   |
|--------|--------|--------------|
| 1700.0 | 1700.0 | KOP #1       |
| 6068.3 | 6087.0 | KOP #2       |
| 6832.1 | 7299.1 | End of Build |

Maxey 24Q-HZ Pad Sec.24-T5N-R65W  
 Maxey 24Q-302  
 Plan #2 (8-9-13)  
 9:42, August 12 2013





# **PETROLEUM DEVELOPMENT CORP Weld County CO**

**SEC.24-T5N-R65W**

**Maxey 24Q-HZ Pad Sec.24-T5N-R65W**

**Maxey 24Q-302**

**Wellbore #1**

**Plan: Plan #2 (8-9-13)**

## **Standard Planning Report**

**12 August, 2013**

|                  |                                           |                                     |                             |
|------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | Landmark                                  | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Company:</b>  | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Project:</b>  | SEC.24-T5N-R65W                           | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site:</b>     | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>North Reference:</b>             | True                        |
| <b>Well:</b>     | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | Wellbore #1                               |                                     |                             |
| <b>Design:</b>   | Plan #2 (8-9-13)                          |                                     |                             |

|                    |                                        |                      |                             |
|--------------------|----------------------------------------|----------------------|-----------------------------|
| <b>Project</b>     | SEC.24-T5N-R65W, Weld County, Colorado |                      |                             |
| <b>Map System:</b> | US State Plane 1983                    | <b>System Datum:</b> | Mean Sea Level              |
| <b>Geo Datum:</b>  | North American Datum 1983              |                      | Using Well Reference Point  |
| <b>Map Zone:</b>   | Colorado Northern Zone                 |                      | Using geodetic scale factor |

| Site                         |  |  |          |  |  | Maxey 24Q-HZ Pad Sec.24-T5N-R65W |  |  |                 |  |  |                          |  |  |             |  |  |
|------------------------------|--|--|----------|--|--|----------------------------------|--|--|-----------------|--|--|--------------------------|--|--|-------------|--|--|
| <b>Site Position:</b>        |  |  |          |  |  | <b>Northing:</b>                 |  |  | 1,381,915.64 ft |  |  | <b>Latitude:</b>         |  |  | 40.378350   |  |  |
| <b>From:</b>                 |  |  | Lat/Long |  |  | <b>Easting:</b>                  |  |  | 3,247,745.85 ft |  |  | <b>Longitude:</b>        |  |  | -104.610730 |  |  |
| <b>Position Uncertainty:</b> |  |  | 0.0 ft   |  |  | <b>Slot Radius:</b>              |  |  | "               |  |  | <b>Grid Convergence:</b> |  |  | 0.57 °      |  |  |

|                      |               |         |                     |                 |               |             |
|----------------------|---------------|---------|---------------------|-----------------|---------------|-------------|
| Well                 | Maxey 24Q-302 |         |                     |                 |               |             |
| Well Position        | +N-S          | 0.0 ft  | Northing:           | 1,381,916.22 ft | Latitude:     | 40.378350   |
|                      | +E-W          | 61.3 ft | Easting:            | 3,247,807.14 ft | Longitude:    | -104.610510 |
| Position Uncertainty |               | 0.0 ft  | Wellhead Elevation: | ft              | Ground Level: | 4,635.0 ft  |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010          | 8/9/2013           | 8.49                   | 66.98                | 52,911                     |

|                          |                              |                   |                      |                      |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #2 (8-9-13)             |                   |                      |                      |
| <b>Audit Notes:</b>      |                              |                   |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                | PROTOTYPE         | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |
|                          | 0.0                          | 0.0               | 0.0                  | 93.68                |

| <b>Plan Sections</b> |                 |             |                     |            |            |                       |                      |                     |         |                    |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|--------------------|
| 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    |                    |
| 1,700.0              | 0.00            | 0.00        | 1,700.0             | 0.0        | 0.0        | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 2,026.4              | 6.53            | 219.63      | 2,025.7             | -14.3      | -11.8      | 2.00                  | 2.00                 | 0.00                | 219.63  |                    |
| 4,692.3              | 6.53            | 219.63      | 4,674.3             | -247.7     | -205.2     | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 5,018.7              | 0.00            | 0.00        | 5,000.0             | -262.0     | -217.0     | 2.00                  | -2.00                | 0.00                | 180.00  |                    |
| 6,087.0              | 0.00            | 0.00        | 6,068.3             | -262.0     | -217.0     | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 7,299.1              | 90.91           | 90.31       | 6,832.1             | -266.2     | 559.1      | 7.50                  | 7.50                 | 0.00                | 90.31   |                    |
| 11,211.9             | 90.91           | 90.31       | 6,770.0             | -287.4     | 4,471.3    | 0.00                  | 0.00                 | 0.00                | 0.00    | BHL 78'FSL, 2081'f |

|                  |                                           |                                     |                             |
|------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | Landmark                                  | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Company:</b>  | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Project:</b>  | SEC.24-T5N-R65W                           | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site:</b>     | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>North Reference:</b>             | True                        |
| <b>Well:</b>     | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | Wellbore #1                               |                                     |                             |
| <b>Design:</b>   | Plan #2 (8-9-13)                          |                                     |                             |

| 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                |
| 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                |
| <b>KOP #1</b>       |                 |             |                     |           |           |                       |                       |                      |                     |
| 1,800.0             | 2.00            | 219.63      | 1,800.0             | -1.3      | -1.1      | -1.0                  | 2.00                  | 2.00                 | 0.00                |
| 1,900.0             | 4.00            | 219.63      | 1,899.8             | -5.4      | -4.5      | -4.1                  | 2.00                  | 2.00                 | 0.00                |
| 2,000.0             | 6.00            | 219.63      | 1,999.5             | -12.1     | -10.0     | -9.2                  | 2.00                  | 2.00                 | 0.00                |
| 2,026.4             | 6.53            | 219.63      | 2,025.7             | -14.3     | -11.8     | -10.9                 | 2.00                  | 2.00                 | 0.00                |
| 2,100.0             | 6.53            | 219.63      | 2,098.8             | -20.7     | -17.2     | -15.8                 | 0.00                  | 0.00                 | 0.00                |
| 2,200.0             | 6.53            | 219.63      | 2,198.2             | -29.5     | -24.4     | -22.5                 | 0.00                  | 0.00                 | 0.00                |
| 2,300.0             | 6.53            | 219.63      | 2,297.5             | -38.3     | -31.7     | -29.2                 | 0.00                  | 0.00                 | 0.00                |
| 2,400.0             | 6.53            | 219.63      | 2,396.9             | -47.0     | -38.9     | -35.8                 | 0.00                  | 0.00                 | 0.00                |
| 2,500.0             | 6.53            | 219.63      | 2,496.2             | -55.8     | -46.2     | -42.5                 | 0.00                  | 0.00                 | 0.00                |
| 2,600.0             | 6.53            | 219.63      | 2,595.6             | -64.5     | -53.4     | -49.2                 | 0.00                  | 0.00                 | 0.00                |
| 2,700.0             | 6.53            | 219.63      | 2,694.9             | -73.3     | -60.7     | -55.9                 | 0.00                  | 0.00                 | 0.00                |
| 2,800.0             | 6.53            | 219.63      | 2,794.3             | -82.0     | -67.9     | -62.5                 | 0.00                  | 0.00                 | 0.00                |
| 2,900.0             | 6.53            | 219.63      | 2,893.6             | -90.8     | -75.2     | -69.2                 | 0.00                  | 0.00                 | 0.00                |
| 3,000.0             | 6.53            | 219.63      | 2,993.0             | -99.5     | -82.4     | -75.9                 | 0.00                  | 0.00                 | 0.00                |
| 3,100.0             | 6.53            | 219.63      | 3,092.3             | -108.3    | -89.7     | -82.6                 | 0.00                  | 0.00                 | 0.00                |
| 3,200.0             | 6.53            | 219.63      | 3,191.7             | -117.0    | -96.9     | -89.2                 | 0.00                  | 0.00                 | 0.00                |
| 3,300.0             | 6.53            | 219.63      | 3,291.0             | -125.8    | -104.2    | -95.9                 | 0.00                  | 0.00                 | 0.00                |
| 3,400.0             | 6.53            | 219.63      | 3,390.4             | -134.6    | -111.4    | -102.6                | 0.00                  | 0.00                 | 0.00                |
| 3,500.0             | 6.53            | 219.63      | 3,489.7             | -143.3    | -118.7    | -109.3                | 0.00                  | 0.00                 | 0.00                |
| 3,600.0             | 6.53            | 219.63      | 3,589.1             | -152.1    | -125.9    | -115.9                | 0.00                  | 0.00                 | 0.00                |
| 3,700.0             | 6.53            | 219.63      | 3,688.4             | -160.8    | -133.2    | -122.6                | 0.00                  | 0.00                 | 0.00                |
| 3,800.0             | 6.53            | 219.63      | 3,787.8             | -169.6    | -140.5    | -129.3                | 0.00                  | 0.00                 | 0.00                |
| 3,900.0             | 6.53            | 219.63      | 3,887.1             | -178.3    | -147.7    | -136.0                | 0.00                  | 0.00                 | 0.00                |
| 4,000.0             | 6.53            | 219.63      | 3,986.5             | -187.1    | -155.0    | -142.6                | 0.00                  | 0.00                 | 0.00                |
| 4,100.0             | 6.53            | 219.63      | 4,085.9             | -195.8    | -162.2    | -149.3                | 0.00                  | 0.00                 | 0.00                |
| 4,200.0             | 6.53            | 219.63      | 4,185.2             | -204.6    | -169.5    | -156.0                | 0.00                  | 0.00                 | 0.00                |
| 4,300.0             | 6.53            | 219.63      | 4,284.6             | -213.4    | -176.7    | -162.7                | 0.00                  | 0.00                 | 0.00                |
| 4,400.0             | 6.53            | 219.63      | 4,383.9             | -222.1    | -184.0    | -169.3                | 0.00                  | 0.00                 | 0.00                |
| 4,500.0             | 6.53            | 219.63      | 4,483.3             | -230.9    | -191.2    | -176.0                | 0.00                  | 0.00                 | 0.00                |
| 4,600.0             | 6.53            | 219.63      | 4,582.6             | -239.6    | -198.5    | -182.7                | 0.00                  | 0.00                 | 0.00                |
| 4,692.3             | 6.53            | 219.63      | 4,674.3             | -247.7    | -205.2    | -188.8                | 0.00                  | 0.00                 | 0.00                |
| 4,700.0             | 6.37            | 219.63      | 4,682.0             | -248.4    | -205.7    | -189.4                | 2.00                  | -2.00                | 0.00                |
| 4,800.0             | 4.37            | 219.63      | 4,781.5             | -255.6    | -211.7    | -194.9                | 2.00                  | -2.00                | 0.00                |
| 4,900.0             | 2.37            | 219.63      | 4,881.3             | -260.1    | -215.4    | -198.3                | 2.00                  | -2.00                | 0.00                |

|                  |                                           |                                     |                             |
|------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | Landmark                                  | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Company:</b>  | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Project:</b>  | SEC.24-T5N-R65W                           | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site:</b>     | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>North Reference:</b>             | True                        |
| <b>Well:</b>     | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | Wellbore #1                               |                                     |                             |
| <b>Design:</b>   | Plan #2 (8-9-13)                          |                                     |                             |

| 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) |
| 5,000.0                  | 0.37            | 219.63      | 4,981.3             | -262.0     | -217.0     | -199.7                | 2.00                  | -2.00                | 0.00                |
| 5,018.7                  | 0.00            | 0.00        | 5,000.0             | -262.0     | -217.0     | -199.8                | 2.00                  | -2.00                | 0.00                |
| 5,100.0                  | 0.00            | 0.00        | 5,081.3             | -262.0     | -217.0     | -199.8                | 0.00                  | 0.00                 | 0.00                |
| 5,200.0                  | 0.00            | 0.00        | 5,181.3             | -262.0     | -217.0     | -199.8                | 0.00                  | 0.00                 | 0.00                |
| 5,300.0                  | 0.00            | 0.00        | 5,281.3             | -262.0     | -217.0     | -199.8                | 0.00                  | 0.00                 | 0.00                |
| 5,400.0                  | 0.00            | 0.00        | 5,381.3             | -262.0     | -217.0     | -199.8                | 0.00                  | 0.00                 | 0.00                |
| 5,500.0                  | 0.00            | 0.00        | 5,481.3             | -262.0     | -217.0     | -199.8                | 0.00                  | 0.00                 | 0.00                |
| 5,600.0                  | 0.00            | 0.00        | 5,581.3             | -262.0     | -217.0     | -199.8                | 0.00                  | 0.00                 | 0.00                |
| 5,700.0                  | 0.00            | 0.00        | 5,681.3             | -262.0     | -217.0     | -199.8                | 0.00                  | 0.00                 | 0.00                |
| 5,800.0                  | 0.00            | 0.00        | 5,781.3             | -262.0     | -217.0     | -199.8                | 0.00                  | 0.00                 | 0.00                |
| 5,900.0                  | 0.00            | 0.00        | 5,881.3             | -262.0     | -217.0     | -199.8                | 0.00                  | 0.00                 | 0.00                |
| 6,000.0                  | 0.00            | 0.00        | 5,981.3             | -262.0     | -217.0     | -199.8                | 0.00                  | 0.00                 | 0.00                |
| 6,087.0                  | 0.00            | 0.00        | 6,068.3             | -262.0     | -217.0     | -199.8                | 0.00                  | 0.00                 | 0.00                |
| <b>KOP #2</b>            |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,100.0                  | 0.98            | 90.31       | 6,081.3             | -262.0     | -216.9     | -199.6                | 7.51                  | 7.51                 | 0.00                |
| 6,200.0                  | 8.48            | 90.31       | 6,180.9             | -262.0     | -208.7     | -191.4                | 7.50                  | 7.50                 | 0.00                |
| 6,300.0                  | 15.98           | 90.31       | 6,278.6             | -262.2     | -187.5     | -170.3                | 7.50                  | 7.50                 | 0.00                |
| 6,400.0                  | 23.48           | 90.31       | 6,372.6             | -262.3     | -153.8     | -136.6                | 7.50                  | 7.50                 | 0.00                |
| 6,500.0                  | 30.98           | 90.31       | 6,461.5             | -262.6     | -108.0     | -91.0                 | 7.50                  | 7.50                 | 0.00                |
| 6,600.0                  | 38.48           | 90.31       | 6,543.6             | -262.9     | -51.1      | -34.2                 | 7.50                  | 7.50                 | 0.00                |
| 6,700.0                  | 45.98           | 90.31       | 6,617.6             | -263.3     | 16.0       | 32.9                  | 7.50                  | 7.50                 | 0.00                |
| 6,800.0                  | 53.48           | 90.31       | 6,682.2             | -263.7     | 92.3       | 109.0                 | 7.50                  | 7.50                 | 0.00                |
| 6,900.0                  | 60.98           | 90.31       | 6,736.3             | -264.1     | 176.3      | 192.9                 | 7.50                  | 7.50                 | 0.00                |
| 7,000.0                  | 68.48           | 90.31       | 6,779.0             | -264.6     | 266.7      | 283.1                 | 7.50                  | 7.50                 | 0.00                |
| 7,100.0                  | 75.98           | 90.31       | 6,809.5             | -265.1     | 361.8      | 378.1                 | 7.50                  | 7.50                 | 0.00                |
| 7,200.0                  | 83.48           | 90.31       | 6,827.3             | -265.7     | 460.1      | 476.2                 | 7.50                  | 7.50                 | 0.00                |
| 7,299.1                  | 90.91           | 90.31       | 6,832.1             | -266.2     | 559.0      | 575.0                 | 7.50                  | 7.50                 | 0.00                |
| <b>End of Build - 7"</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,300.0                  | 90.91           | 90.31       | 6,832.1             | -266.2     | 559.9      | 575.9                 | 0.17                  | 0.17                 | 0.00                |
| 7,400.0                  | 90.91           | 90.31       | 6,830.5             | -266.7     | 659.9      | 675.7                 | 0.00                  | 0.00                 | 0.00                |
| 7,500.0                  | 90.91           | 90.31       | 6,829.0             | -267.3     | 759.9      | 775.5                 | 0.00                  | 0.00                 | 0.00                |
| 7,600.0                  | 90.91           | 90.31       | 6,827.4             | -267.8     | 859.9      | 875.3                 | 0.00                  | 0.00                 | 0.00                |
| 7,700.0                  | 90.91           | 90.31       | 6,825.8             | -268.4     | 959.9      | 975.1                 | 0.00                  | 0.00                 | 0.00                |
| 7,800.0                  | 90.91           | 90.31       | 6,824.2             | -268.9     | 1,059.9    | 1,074.9               | 0.00                  | 0.00                 | 0.00                |
| 7,900.0                  | 90.91           | 90.31       | 6,822.6             | -269.4     | 1,159.9    | 1,174.8               | 0.00                  | 0.00                 | 0.00                |
| 8,000.0                  | 90.91           | 90.31       | 6,821.0             | -270.0     | 1,259.8    | 1,274.6               | 0.00                  | 0.00                 | 0.00                |
| 8,100.0                  | 90.91           | 90.31       | 6,819.4             | -270.5     | 1,359.8    | 1,374.4               | 0.00                  | 0.00                 | 0.00                |
| 8,200.0                  | 90.91           | 90.31       | 6,817.8             | -271.1     | 1,459.8    | 1,474.2               | 0.00                  | 0.00                 | 0.00                |
| 8,300.0                  | 90.91           | 90.31       | 6,816.2             | -271.6     | 1,559.8    | 1,574.0               | 0.00                  | 0.00                 | 0.00                |
| 8,400.0                  | 90.91           | 90.31       | 6,814.7             | -272.1     | 1,659.8    | 1,673.8               | 0.00                  | 0.00                 | 0.00                |
| 8,500.0                  | 90.91           | 90.31       | 6,813.1             | -272.7     | 1,759.8    | 1,773.6               | 0.00                  | 0.00                 | 0.00                |
| 8,600.0                  | 90.91           | 90.31       | 6,811.5             | -273.2     | 1,859.8    | 1,873.5               | 0.00                  | 0.00                 | 0.00                |
| 8,700.0                  | 90.91           | 90.31       | 6,809.9             | -273.8     | 1,959.7    | 1,973.3               | 0.00                  | 0.00                 | 0.00                |
| 8,800.0                  | 90.91           | 90.31       | 6,808.3             | -274.3     | 2,059.7    | 2,073.1               | 0.00                  | 0.00                 | 0.00                |
| 8,900.0                  | 90.91           | 90.31       | 6,806.7             | -274.9     | 2,159.7    | 2,172.9               | 0.00                  | 0.00                 | 0.00                |
| 9,000.0                  | 90.91           | 90.31       | 6,805.1             | -275.4     | 2,259.7    | 2,272.7               | 0.00                  | 0.00                 | 0.00                |
| 9,100.0                  | 90.91           | 90.31       | 6,803.5             | -275.9     | 2,359.7    | 2,372.5               | 0.00                  | 0.00                 | 0.00                |
| 9,200.0                  | 90.91           | 90.31       | 6,802.0             | -276.5     | 2,459.7    | 2,472.3               | 0.00                  | 0.00                 | 0.00                |
| 9,300.0                  | 90.91           | 90.31       | 6,800.4             | -277.0     | 2,559.7    | 2,572.2               | 0.00                  | 0.00                 | 0.00                |
| 9,400.0                  | 90.91           | 90.31       | 6,798.8             | -277.6     | 2,659.7    | 2,672.0               | 0.00                  | 0.00                 | 0.00                |
| 9,500.0                  | 90.91           | 90.31       | 6,797.2             | -278.1     | 2,759.6    | 2,771.8               | 0.00                  | 0.00                 | 0.00                |
| 9,600.0                  | 90.91           | 90.31       | 6,795.6             | -278.6     | 2,859.6    | 2,871.6               | 0.00                  | 0.00                 | 0.00                |
| 9,700.0                  | 90.91           | 90.31       | 6,794.0             | -279.2     | 2,959.6    | 2,971.4               | 0.00                  | 0.00                 | 0.00                |

|                  |                                           |                                     |                             |
|------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | Landmark                                  | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Company:</b>  | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Project:</b>  | SEC.24-T5N-R65W                           | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site:</b>     | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>North Reference:</b>             | True                        |
| <b>Well:</b>     | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | Wellbore #1                               |                                     |                             |
| <b>Design:</b>   | Plan #2 (8-9-13)                          |                                     |                             |

#### 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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 9,800.0             | 90.91           | 90.31       | 6,792.4             | -279.7     | 3,059.6    | 3,071.2               | 0.00                  | 0.00                 | 0.00                |
| 9,900.0             | 90.91           | 90.31       | 6,790.8             | -280.3     | 3,159.6    | 3,171.0               | 0.00                  | 0.00                 | 0.00                |
| 10,000.0            | 90.91           | 90.31       | 6,789.2             | -280.8     | 3,259.6    | 3,270.9               | 0.00                  | 0.00                 | 0.00                |
| 10,100.0            | 90.91           | 90.31       | 6,787.7             | -281.3     | 3,359.6    | 3,370.7               | 0.00                  | 0.00                 | 0.00                |
| 10,200.0            | 90.91           | 90.31       | 6,786.1             | -281.9     | 3,459.5    | 3,470.5               | 0.00                  | 0.00                 | 0.00                |
| 10,300.0            | 90.91           | 90.31       | 6,784.5             | -282.4     | 3,559.5    | 3,570.3               | 0.00                  | 0.00                 | 0.00                |
| 10,400.0            | 90.91           | 90.31       | 6,782.9             | -283.0     | 3,659.5    | 3,670.1               | 0.00                  | 0.00                 | 0.00                |
| 10,500.0            | 90.91           | 90.31       | 6,781.3             | -283.5     | 3,759.5    | 3,769.9               | 0.00                  | 0.00                 | 0.00                |
| 10,600.0            | 90.91           | 90.31       | 6,779.7             | -284.0     | 3,859.5    | 3,869.8               | 0.00                  | 0.00                 | 0.00                |
| 10,700.0            | 90.91           | 90.31       | 6,778.1             | -284.6     | 3,959.5    | 3,969.6               | 0.00                  | 0.00                 | 0.00                |
| 10,800.0            | 90.91           | 90.31       | 6,776.5             | -285.1     | 4,059.5    | 4,069.4               | 0.00                  | 0.00                 | 0.00                |
| 10,900.0            | 90.91           | 90.31       | 6,775.0             | -285.7     | 4,159.4    | 4,169.2               | 0.00                  | 0.00                 | 0.00                |
| 11,000.0            | 90.91           | 90.31       | 6,773.4             | -286.2     | 4,259.4    | 4,269.0               | 0.00                  | 0.00                 | 0.00                |
| 11,100.0            | 90.91           | 90.31       | 6,771.8             | -286.7     | 4,359.4    | 4,368.8               | 0.00                  | 0.00                 | 0.00                |
| 11,200.0            | 90.91           | 90.31       | 6,770.2             | -287.3     | 4,459.4    | 4,468.6               | 0.00                  | 0.00                 | 0.00                |
| 11,211.9            | 90.91           | 90.31       | 6,770.0             | -287.4     | 4,471.3    | 4,480.5               | 0.00                  | 0.00                 | 0.00                |

BHL 78'FSL, 2081'FWL, SEC.19

#### Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---------------------|---------------------|------|---------------------|-------------------|
| 7,299.1             | 6,832.1             | 7"   | 7                   | 7-1/2             |

#### Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates +N/-S (ft) | +E/-W (ft) | Comment      |
|---------------------|---------------------|------------------------------|------------|--------------|
| 1,700.0             | 1,700.0             | 0.0                          | 0.0        | KOP #1       |
| 6,087.0             | 6,068.3             | -262.0                       | -217.0     | KOP #2       |
| 7,299.1             | 6,832.1             | -266.2                       | 559.0      | End of Build |



# **PETROLEUM DEVELOPMENT CORP Weld County CO**

**SEC.24-T5N-R65W**

**Maxey 24Q-HZ Pad Sec.24-T5N-R65W**

**Maxey 24Q-302**

**Wellbore #1**

**Plan #2 (8-9-13)**

## **Anticollision Report**

**12 August, 2013**



|                           |                                           |                                     |                             |
|---------------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Project:</b>           | SEC.24-T5N-R65W                           | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Reference Site:</b>    | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site Error:</b>        | 0.0ft                                     | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0ft                                     | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                               | <b>Database:</b>                    | Landmark                    |
| <b>Reference Design:</b>  | Plan #2 (8-9-13)                          | <b>Offset TVD Reference:</b>        | Offset Datum                |

|                                     |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| <b>Reference</b>                    | Plan #2 (8-9-13)                                                    |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |
| <b>Interpolation Method:</b>        | MD Interval 100.0ft                                                 |
| <b>Depth Range:</b>                 | Unlimited                                                           |
| <b>Results Limited by:</b>          | Maximum center-center distance of 1,000.0ft                         |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          |
| <b>Error Model:</b>                 | ISCWSA                                                              |
| <b>Scan Method:</b>                 | Closest Approach 3D                                                 |
| <b>Error Surface:</b>               | Elliptical Conic                                                    |

| Survey Tool Program |            | Date                           | 8/9/2013  |                |  |
|---------------------|------------|--------------------------------|-----------|----------------|--|
| From<br>(ft)        | To<br>(ft) | Survey (Wellbore)              | Tool Name | Description    |  |
| 0.0                 | 11,211.9   | Plan #2 (8-9-13) (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                |                               |                            |                               |                                |                   |         |
| Maxey 24Q-HZ Pad Sec.24-T5N-R65W               |                               |                            |                               |                                |                   |         |
| Maxey 24P-232 - Wellbore #1 - Plan #2 (8-9-13) | 200.0                         | 200.0                      | 91.9                          | 91.3                           | 136.352           | CC      |
| Maxey 24P-232 - Wellbore #1 - Plan #2 (8-9-13) | 300.0                         | 299.4                      | 92.3                          | 91.1                           | 82.162            | ES      |
| Maxey 24P-232 - Wellbore #1 - Plan #2 (8-9-13) | 1,700.0                       | 1,680.7                    | 234.4                         | 225.8                          | 27.290            | SF      |
| Maxey 24P-332 - Wellbore #1 - Plan #2 (8-9-13) | 1,000.0                       | 1,000.0                    | 61.3                          | 57.0                           | 14.353            | CC, ES  |
| Maxey 24P-332 - Wellbore #1 - Plan #2 (8-9-13) | 11,211.9                      | 11,223.7                   | 659.4                         | 403.2                          | 2.574             | SF      |
| Maxey 24Q-112 - Wellbore #1 - Plan #2 (8-9-13) | 1,500.0                       | 1,500.0                    | 30.6                          | 24.1                           | 4.702             | CC, ES  |
| Maxey 24Q-112 - Wellbore #1 - Plan #2 (8-9-13) | 11,211.9                      | 11,005.2                   | 372.6                         | 142.8                          | 1.621             | SF      |

| <b>Offset Design</b>   | Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24P-232 - Wellbore #1 - Plan #2 (8-9-13) |                     |                     |                |             |                       |                                   |                                   |                      |                       |                         |                   | <b>Offset Site Error:</b> | 0.0ft |
|------------------------|-----------------------------------------------------------------------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|-------------------|---------------------------|-------|
| <b>Survey Program:</b> | 0-MWD                                                                             |                     |                     |                |             |                       |                                   |                                   |                      |                       |                         |                   | <b>Offset Well Error:</b> | 0.0ft |
| 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) | 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         | -90.00                | 0.0                               | -91.9                             | 91.9                 |                       |                         |                   |                           |       |
| 100.0                  | 100.0                                                                             | 100.0               | 100.0               | 0.1            | 0.1         | -90.00                | 0.0                               | -91.9                             | 91.9                 | 91.7                  | 0.22                    | 409.055           |                           |       |
| 200.0                  | 200.0                                                                             | 200.0               | 200.0               | 0.3            | 0.3         | -90.00                | 0.0                               | -91.9                             | 91.9                 | 91.3                  | 0.67                    | 136.352           | CC                        |       |
| 300.0                  | 300.0                                                                             | 299.4               | 299.4               | 0.6            | 0.6         | -88.95                | 1.7                               | -92.3                             | 92.3                 | 91.1                  | 1.12                    | 82.162            | ES                        |       |
| 400.0                  | 400.0                                                                             | 398.5               | 398.4               | 0.8            | 0.8         | -85.85                | 6.8                               | -93.2                             | 93.4                 | 91.9                  | 1.58                    | 59.200            |                           |       |
| 500.0                  | 500.0                                                                             | 497.2               | 496.7               | 1.0            | 1.0         | -80.91                | 15.1                              | -94.7                             | 96.0                 | 93.9                  | 2.05                    | 46.841            |                           |       |
| 600.0                  | 600.0                                                                             | 595.2               | 593.9               | 1.2            | 1.3         | -74.55                | 26.8                              | -96.8                             | 100.6                | 98.1                  | 2.55                    | 39.507            |                           |       |
| 700.0                  | 700.0                                                                             | 693.1               | 690.7               | 1.5            | 1.6         | -67.43                | 41.3                              | -99.5                             | 108.1                | 105.0                 | 3.08                    | 35.067            |                           |       |
| 800.0                  | 800.0                                                                             | 791.8               | 788.2               | 1.7            | 2.0         | -61.03                | 56.6                              | -102.2                            | 117.5                | 113.8                 | 3.64                    | 32.255            |                           |       |
| 900.0                  | 900.0                                                                             | 890.6               | 885.8               | 1.9            | 2.3         | -55.62                | 71.8                              | -105.0                            | 128.0                | 123.8                 | 4.20                    | 30.457            |                           |       |
| 1,000.0                | 1,000.0                                                                           | 989.4               | 983.3               | 2.1            | 2.6         | -51.06                | 87.1                              | -107.8                            | 139.6                | 134.8                 | 4.77                    | 29.293            |                           |       |
| 1,100.0                | 1,100.0                                                                           | 1,088.1             | 1,080.8             | 2.4            | 3.0         | -47.21                | 102.4                             | -110.6                            | 151.9                | 146.6                 | 5.32                    | 28.535            |                           |       |
| 1,200.0                | 1,200.0                                                                           | 1,186.9             | 1,178.4             | 2.6            | 3.3         | -43.95                | 117.6                             | -113.4                            | 164.8                | 158.9                 | 5.88                    | 28.040            |                           |       |
| 1,300.0                | 1,300.0                                                                           | 1,285.6             | 1,275.9             | 2.8            | 3.7         | -41.16                | 132.9                             | -116.1                            | 178.1                | 171.7                 | 6.42                    | 27.719            |                           |       |
| 1,400.0                | 1,400.0                                                                           | 1,384.4             | 1,373.5             | 3.0            | 4.1         | -38.76                | 148.1                             | -118.9                            | 191.8                | 184.8                 | 6.97                    | 27.515            |                           |       |
| 1,500.0                | 1,500.0                                                                           | 1,483.2             | 1,471.0             | 3.3            | 4.4         | -36.68                | 163.4                             | -121.7                            | 205.8                | 198.2                 | 7.51                    | 27.390            |                           |       |
| 1,600.0                | 1,600.0                                                                           | 1,581.9             | 1,568.5             | 3.5            | 4.8         | -34.87                | 178.6                             | -124.5                            | 220.0                | 211.9                 | 8.05                    | 27.321            |                           |       |
| 1,700.0                | 1,700.0                                                                           | 1,680.7             | 1,666.1             | 3.7            | 5.1         | -33.28                | 193.9                             | -127.2                            | 234.4                | 225.8                 | 8.59                    | 27.290            | SF                        |       |
| 1,800.0                | 1,800.0                                                                           | 1,779.3             | 1,763.4             | 3.9            | 5.5         | -108.59               | 209.1                             | -130.0                            | 249.5                | 241.2                 | 8.24                    | 30.284            |                           |       |
| 1,900.0                | 1,899.8                                                                           | 1,877.3             | 1,860.3             | 4.1            | 5.8         | -110.56               | 224.2                             | -132.8                            | 266.0                | 257.4                 | 8.63                    | 30.806            |                           |       |

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



|                           |                                           |                                     |                             |
|---------------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Project:</b>           | SEC.24-T5N-R65W                           | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Reference Site:</b>    | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site Error:</b>        | 0.0ft                                     | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0ft                                     | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                               | <b>Database:</b>                    | Landmark                    |
| <b>Reference Design:</b>  | Plan #2 (8-9-13)                          | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24P-232 - Wellbore #1 - Plan #2 (8-9-13) |                |                |                |                 |        |                   |                        |            |                 |                  |                    | 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                                                                                  | Vertical Depth | Measured Depth | Vertical Depth | Reference       | Offset | Highside Toolface | Offset Wellbore Centre |            | Between Centres | Between Ellipses | Minimum Separation | Separation Factor         |         |
| (ft)                                                                                            | (ft)           | (ft)           | (ft)           | (ft)            | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft) | (ft)            | (ft)             | (ft)               |                           |         |
| 2,000.0                                                                                         | 1,999.5        | 1,974.8        | 1,956.6        | 4.3             | 6.2    | 112.88            | 239.3                  | -135.5     | 284.2           | 275.2            | 9.03               | 31.485                    |         |
| 2,100.0                                                                                         | 2,098.8        | 2,071.8        | 2,052.4        | 4.5             | 6.5    | 115.55            | 254.3                  | -138.2     | 304.0           | 294.6            | 9.43               | 32.255                    |         |
| 2,200.0                                                                                         | 2,198.2        | 2,168.8        | 2,148.1        | 4.7             | 6.9    | 118.00            | 269.2                  | -141.0     | 324.5           | 314.7            | 9.84               | 32.978                    |         |
| 2,300.0                                                                                         | 2,297.5        | 2,265.8        | 2,243.9        | 4.9             | 7.3    | 120.16            | 284.2                  | -143.7     | 345.6           | 335.3            | 10.27              | 33.647                    |         |
| 2,400.0                                                                                         | 2,396.9        | 2,362.8        | 2,339.7        | 5.2             | 7.6    | 122.08            | 299.2                  | -146.4     | 367.0           | 356.3            | 10.71              | 34.267                    |         |
| 2,500.0                                                                                         | 2,496.2        | 2,459.7        | 2,435.4        | 5.4             | 8.0    | 123.78            | 314.2                  | -149.1     | 388.8           | 377.6            | 11.16              | 34.840                    |         |
| 2,600.0                                                                                         | 2,595.6        | 2,556.7        | 2,531.2        | 5.7             | 8.3    | 125.31            | 329.1                  | -151.9     | 410.9           | 399.2            | 11.62              | 35.371                    |         |
| 2,700.0                                                                                         | 2,694.9        | 2,653.7        | 2,627.0        | 5.9             | 8.7    | 126.68            | 344.1                  | -154.6     | 433.2           | 421.1            | 12.08              | 35.863                    |         |
| 2,800.0                                                                                         | 2,794.3        | 2,750.6        | 2,722.8        | 6.2             | 9.0    | 127.91            | 359.1                  | -157.3     | 455.7           | 443.2            | 12.55              | 36.319                    |         |
| 2,900.0                                                                                         | 2,893.6        | 2,847.6        | 2,818.5        | 6.4             | 9.4    | 129.03            | 374.1                  | -160.0     | 478.5           | 465.4            | 13.02              | 36.744                    |         |
| 3,000.0                                                                                         | 2,993.0        | 2,944.6        | 2,914.3        | 6.7             | 9.7    | 130.05            | 389.0                  | -162.8     | 501.4           | 487.9            | 13.50              | 37.139                    |         |
| 3,100.0                                                                                         | 3,092.3        | 3,041.6        | 3,010.1        | 7.0             | 10.1   | 130.98            | 404.0                  | -165.5     | 524.4           | 510.4            | 13.98              | 37.508                    |         |
| 3,200.0                                                                                         | 3,191.7        | 3,138.5        | 3,105.8        | 7.3             | 10.4   | 131.83            | 419.0                  | -168.2     | 547.5           | 533.1            | 14.46              | 37.853                    |         |
| 3,300.0                                                                                         | 3,291.0        | 3,235.5        | 3,201.6        | 7.6             | 10.8   | 132.62            | 434.0                  | -171.0     | 570.8           | 555.8            | 14.95              | 38.176                    |         |
| 3,400.0                                                                                         | 3,390.4        | 3,332.5        | 3,297.4        | 7.8             | 11.1   | 133.34            | 448.9                  | -173.7     | 594.1           | 578.7            | 15.44              | 38.479                    |         |
| 3,500.0                                                                                         | 3,489.7        | 3,429.5        | 3,393.1        | 8.1             | 11.5   | 134.01            | 463.9                  | -176.4     | 617.6           | 601.6            | 15.93              | 38.763                    |         |
| 3,600.0                                                                                         | 3,589.1        | 3,526.4        | 3,488.9        | 8.4             | 11.9   | 134.63            | 478.9                  | -179.1     | 641.1           | 624.7            | 16.42              | 39.031                    |         |
| 3,700.0                                                                                         | 3,688.4        | 3,623.4        | 3,584.7        | 8.7             | 12.2   | 135.20            | 493.9                  | -181.9     | 664.7           | 647.7            | 16.92              | 39.284                    |         |
| 3,800.0                                                                                         | 3,787.8        | 3,720.4        | 3,680.5        | 9.0             | 12.6   | 135.74            | 508.8                  | -184.6     | 688.3           | 670.9            | 17.41              | 39.522                    |         |
| 3,900.0                                                                                         | 3,887.1        | 3,817.3        | 3,776.2        | 9.3             | 12.9   | 136.24            | 523.8                  | -187.3     | 712.0           | 694.1            | 17.91              | 39.748                    |         |
| 4,000.0                                                                                         | 3,986.5        | 3,914.3        | 3,872.0        | 9.6             | 13.3   | 136.71            | 538.8                  | -190.0     | 735.7           | 717.3            | 18.41              | 39.961                    |         |
| 4,100.0                                                                                         | 4,085.9        | 4,011.3        | 3,967.8        | 9.9             | 13.6   | 137.15            | 553.8                  | -192.8     | 759.5           | 740.6            | 18.91              | 40.164                    |         |
| 4,200.0                                                                                         | 4,185.2        | 4,108.3        | 4,063.5        | 10.2            | 14.0   | 137.56            | 568.8                  | -195.5     | 783.3           | 763.9            | 19.41              | 40.356                    |         |
| 4,300.0                                                                                         | 4,284.6        | 4,205.2        | 4,159.3        | 10.5            | 14.3   | 137.95            | 583.7                  | -198.2     | 807.1           | 787.2            | 19.91              | 40.538                    |         |
| 4,400.0                                                                                         | 4,383.9        | 4,302.2        | 4,255.1        | 10.8            | 14.7   | 138.31            | 598.7                  | -200.9     | 831.0           | 810.6            | 20.41              | 40.712                    |         |
| 4,500.0                                                                                         | 4,483.3        | 4,399.2        | 4,350.8        | 11.1            | 15.0   | 138.66            | 613.7                  | -203.7     | 854.9           | 834.0            | 20.92              | 40.877                    |         |
| 4,600.0                                                                                         | 4,582.6        | 4,496.1        | 4,446.6        | 11.4            | 15.4   | 138.99            | 628.7                  | -206.4     | 878.9           | 857.5            | 21.42              | 41.035                    |         |
| 4,700.0                                                                                         | 4,682.0        | 4,593.1        | 4,542.4        | 11.7            | 15.8   | 139.32            | 643.6                  | -209.1     | 902.9           | 880.9            | 21.93              | 41.178                    |         |
| 4,800.0                                                                                         | 4,781.5        | 4,690.5        | 4,638.6        | 11.9            | 16.1   | 139.83            | 658.7                  | -211.9     | 925.4           | 902.9            | 22.45              | 41.218                    |         |
| 4,900.0                                                                                         | 4,881.3        | 4,788.5        | 4,735.3        | 12.1            | 16.5   | 140.16            | 673.8                  | -214.6     | 945.3           | 922.3            | 22.95              | 41.182                    |         |
| 5,000.0                                                                                         | 4,981.3        | 4,887.0        | 4,832.6        | 12.3            | 16.8   | 140.30            | 689.0                  | -217.4     | 962.5           | 939.1            | 23.43              | 41.080                    |         |
| 5,100.0                                                                                         | 5,081.3        | 4,985.7        | 4,930.1        | 12.5            | 17.2   | -0.19             | 704.3                  | -220.2     | 978.0           | 949.1            | 28.88              | 33.863                    |         |
| 5,200.0                                                                                         | 5,181.3        | 5,084.5        | 5,027.7        | 12.7            | 17.5   | -0.35             | 719.5                  | -222.9     | 993.5           | 964.1            | 29.42              | 33.767                    |         |

|                           |                                           |                                     |                             |
|---------------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Project:</b>           | SEC.24-T5N-R65W                           | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Reference Site:</b>    | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site Error:</b>        | 0.0ft                                     | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0ft                                     | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                               | <b>Database:</b>                    | Landmark                    |
| <b>Reference Design:</b>  | Plan #2 (8-9-13)                          | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24P-332 - Wellbore #1 - Plan #2 (8-9-13) |                     |                     |                     |           |        |                      |                       |                                   |                                   |                      |                       |                         | Offset Site Error: | 0.0 ft  |
|-------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------|--------|----------------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD                                                                           |                     |                     |                     |           |        |                      |                       |                                   |                                   |                      |                       |                         | Offset Well Error: | 0.0 ft  |
| Measured Depth (ft)                                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference | Offset | Semi Major Axis (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  | Warning |
| 0.0                                                                                             | 0.0                 | 0.0                 | 0.0                 | 0.0       | 0.0    | -89.98               | -89.98                | 0.0                               | -61.3                             | 61.3                 |                       |                         |                    |         |
| 100.0                                                                                           | 100.0               | 100.0               | 100.0               | 0.1       | 0.1    | -89.98               | -89.98                | 0.0                               | -61.3                             | 61.3                 | 61.1                  | 0.22                    | 272.703            |         |
| 200.0                                                                                           | 200.0               | 200.0               | 200.0               | 0.3       | 0.3    | -89.98               | -89.98                | 0.0                               | -61.3                             | 61.3                 | 60.6                  | 0.67                    | 90.901             |         |
| 300.0                                                                                           | 300.0               | 300.0               | 300.0               | 0.6       | 0.6    | -89.98               | -89.98                | 0.0                               | -61.3                             | 61.3                 | 60.2                  | 1.12                    | 54.541             |         |
| 400.0                                                                                           | 400.0               | 400.0               | 400.0               | 0.8       | 0.8    | -89.98               | -89.98                | 0.0                               | -61.3                             | 61.3                 | 59.7                  | 1.57                    | 38.958             |         |
| 500.0                                                                                           | 500.0               | 500.0               | 500.0               | 1.0       | 1.0    | -89.98               | -89.98                | 0.0                               | -61.3                             | 61.3                 | 59.3                  | 2.02                    | 30.300             |         |
| 600.0                                                                                           | 600.0               | 600.0               | 600.0               | 1.2       | 1.2    | -89.98               | -89.98                | 0.0                               | -61.3                             | 61.3                 | 58.8                  | 2.47                    | 24.791             |         |
| 700.0                                                                                           | 700.0               | 700.0               | 700.0               | 1.5       | 1.5    | -89.98               | -89.98                | 0.0                               | -61.3                             | 61.3                 | 58.4                  | 2.92                    | 20.977             |         |
| 800.0                                                                                           | 800.0               | 800.0               | 800.0               | 1.7       | 1.7    | -89.98               | -89.98                | 0.0                               | -61.3                             | 61.3                 | 57.9                  | 3.37                    | 18.180             |         |
| 900.0                                                                                           | 900.0               | 900.0               | 900.0               | 1.9       | 1.9    | -89.98               | -89.98                | 0.0                               | -61.3                             | 61.3                 | 57.5                  | 3.82                    | 16.041             |         |
| 1,000.0                                                                                         | 1,000.0             | 1,000.0             | 1,000.0             | 2.1       | 2.1    | -89.98               | -89.98                | 0.0                               | -61.3                             | 61.3                 | 57.0                  | 4.27                    | 14.353 CC, ES      |         |
| 1,100.0                                                                                         | 1,100.0             | 1,099.2             | 1,099.1             | 2.4       | 2.4    | -88.51               | -88.51                | 1.6                               | -61.9                             | 62.0                 | 57.3                  | 4.72                    | 13.137             |         |
| 1,200.0                                                                                         | 1,200.0             | 1,198.1             | 1,197.9             | 2.6       | 2.6    | -84.32               | -84.32                | 6.4                               | -63.9                             | 64.2                 | 59.1                  | 5.16                    | 12.439             |         |
| 1,300.0                                                                                         | 1,300.0             | 1,296.6             | 1,296.1             | 2.8       | 2.8    | -78.03               | -78.03                | 14.2                              | -67.1                             | 68.7                 | 63.1                  | 5.61                    | 12.231             |         |
| 1,400.0                                                                                         | 1,400.0             | 1,396.1             | 1,395.0             | 3.0       | 3.0    | -71.60               | -71.60                | 23.6                              | -70.9                             | 74.9                 | 68.8                  | 6.08                    | 12.317             |         |
| 1,500.0                                                                                         | 1,500.0             | 1,495.6             | 1,494.0             | 3.3       | 3.3    | -66.20               | -66.20                | 32.9                              | -74.7                             | 81.9                 | 75.3                  | 6.55                    | 12.499             |         |
| 1,600.0                                                                                         | 1,600.0             | 1,595.1             | 1,593.0             | 3.5       | 3.5    | -61.68               | -61.68                | 42.3                              | -78.5                             | 89.5                 | 82.4                  | 7.02                    | 12.735             |         |
| 1,700.0                                                                                         | 1,700.0             | 1,694.5             | 1,691.9             | 3.7       | 3.8    | -57.89               | -57.89                | 51.7                              | -82.3                             | 97.5                 | 90.0                  | 7.50                    | 12.999             |         |
| 1,800.0                                                                                         | 1,800.0             | 1,793.9             | 1,790.8             | 3.9       | 4.1    | -86.46               | -86.46                | 61.0                              | -86.1                             | 105.8                | 98.0                  | 7.87                    | 13.451             |         |
| 1,900.0                                                                                         | 1,899.8             | 1,893.0             | 1,889.4             | 4.1       | 4.3    | 91.53                | 91.53                 | 70.3                              | -89.9                             | 114.7                | 106.4                 | 8.27                    | 13.863             |         |
| 2,000.0                                                                                         | 1,999.5             | 1,991.7             | 1,987.6             | 4.3       | 4.6    | 97.37                | 97.37                 | 79.6                              | -93.7                             | 124.7                | 116.0                 | 8.68                    | 14.370             |         |
| 2,100.0                                                                                         | 2,098.8             | 2,090.0             | 2,085.4             | 4.5       | 4.9    | 103.43               | 103.43                | 88.9                              | -97.5                             | 136.5                | 127.4                 | 9.10                    | 15.007             |         |
| 2,200.0                                                                                         | 2,198.2             | 2,188.3             | 2,183.1             | 4.7       | 5.1    | 108.59               | 108.59                | 98.1                              | -101.2                            | 149.7                | 140.2                 | 9.53                    | 15.708             |         |
| 2,300.0                                                                                         | 2,297.5             | 2,286.6             | 2,280.9             | 4.9       | 5.4    | 112.90               | 112.90                | 107.4                             | -105.0                            | 163.9                | 153.9                 | 9.97                    | 16.433             |         |
| 2,400.0                                                                                         | 2,396.9             | 2,384.9             | 2,378.7             | 5.2       | 5.7    | 116.51               | 116.51                | 116.6                             | -108.8                            | 178.8                | 168.4                 | 10.42                   | 17.157             |         |
| 2,500.0                                                                                         | 2,496.2             | 2,483.2             | 2,476.5             | 5.4       | 6.0    | 119.56               | 119.56                | 125.9                             | -112.5                            | 194.4                | 183.5                 | 10.88                   | 17.865             |         |
| 2,600.0                                                                                         | 2,595.6             | 2,581.5             | 2,574.3             | 5.7       | 6.2    | 122.16               | 122.16                | 135.1                             | -116.3                            | 210.4                | 199.0                 | 11.34                   | 18.547             |         |
| 2,700.0                                                                                         | 2,694.9             | 2,679.7             | 2,672.1             | 5.9       | 6.5    | 124.39               | 124.39                | 144.4                             | -120.0                            | 226.7                | 214.9                 | 11.81                   | 19.200             |         |
| 2,800.0                                                                                         | 2,794.3             | 2,778.0             | 2,769.8             | 6.2       | 6.8    | 126.32               | 126.32                | 153.6                             | -123.8                            | 243.4                | 231.1                 | 12.28                   | 19.821             |         |
| 2,900.0                                                                                         | 2,893.6             | 2,876.3             | 2,867.6             | 6.4       | 7.1    | 128.00               | 128.00                | 162.9                             | -127.6                            | 260.3                | 247.5                 | 12.75                   | 20.410             |         |
| 3,000.0                                                                                         | 2,993.0             | 2,974.6             | 2,965.4             | 6.7       | 7.3    | 129.48               | 129.48                | 172.1                             | -131.3                            | 277.4                | 264.2                 | 13.23                   | 20.967             |         |
| 3,100.0                                                                                         | 3,092.3             | 3,072.9             | 3,063.2             | 7.0       | 7.6    | 130.78               | 130.78                | 181.3                             | -135.1                            | 294.6                | 280.9                 | 13.71                   | 21.493             |         |
| 3,200.0                                                                                         | 3,191.7             | 3,171.2             | 3,161.0             | 7.3       | 7.9    | 131.94               | 131.94                | 190.6                             | -138.9                            | 312.0                | 297.8                 | 14.19                   | 21.990             |         |
| 3,300.0                                                                                         | 3,291.0             | 3,269.5             | 3,258.8             | 7.6       | 8.2    | 132.98               | 132.98                | 199.8                             | -142.6                            | 329.5                | 314.8                 | 14.67                   | 22.459             |         |
| 3,400.0                                                                                         | 3,390.4             | 3,367.8             | 3,356.5             | 7.8       | 8.5    | 133.91               | 133.91                | 209.1                             | -146.4                            | 347.1                | 331.9                 | 15.15                   | 22.902             |         |
| 3,500.0                                                                                         | 3,489.7             | 3,466.1             | 3,454.3             | 8.1       | 8.8    | 134.76               | 134.76                | 218.3                             | -150.2                            | 364.7                | 349.1                 | 15.64                   | 23.321             |         |
| 3,600.0                                                                                         | 3,589.1             | 3,564.4             | 3,552.1             | 8.4       | 9.0    | 135.52               | 135.52                | 227.6                             | -153.9                            | 382.5                | 366.4                 | 16.13                   | 23.717             |         |
| 3,700.0                                                                                         | 3,688.4             | 3,662.7             | 3,649.9             | 8.7       | 9.3    | 136.22               | 136.22                | 236.8                             | -157.7                            | 400.3                | 383.7                 | 16.61                   | 24.091             |         |
| 3,800.0                                                                                         | 3,787.8             | 3,761.0             | 3,747.7             | 9.0       | 9.6    | 136.86               | 136.86                | 246.1                             | -161.5                            | 418.1                | 401.0                 | 17.10                   | 24.446             |         |
| 3,900.0                                                                                         | 3,887.1             | 3,859.2             | 3,845.5             | 9.3       | 9.9    | 137.44               | 137.44                | 255.3                             | -165.2                            | 436.0                | 418.4                 | 17.59                   | 24.783             |         |
| 4,000.0                                                                                         | 3,986.5             | 3,957.5             | 3,943.2             | 9.6       | 10.2   | 137.98               | 137.98                | 264.6                             | -169.0                            | 454.0                | 435.9                 | 18.08                   | 25.102             |         |
| 4,100.0                                                                                         | 4,085.9             | 4,055.8             | 4,041.0             | 9.9       | 10.4   | 138.48               | 138.48                | 273.8                             | -172.7                            | 471.9                | 453.3                 | 18.58                   | 25.405             |         |
| 4,200.0                                                                                         | 4,185.2             | 4,154.1             | 4,138.8             | 10.2      | 10.7   | 138.95               | 138.95                | 283.1                             | -176.5                            | 489.9                | 470.9                 | 19.07                   | 25.693             |         |
| 4,300.0                                                                                         | 4,284.6             | 4,252.4             | 4,236.6             | 10.5      | 11.0   | 139.38               | 139.38                | 292.3                             | -180.3                            | 508.0                | 488.4                 | 19.56                   | 25.968             |         |
| 4,400.0                                                                                         | 4,383.9             | 4,350.7             | 4,334.4             | 10.8      | 11.3   | 139.78               | 139.78                | 301.6                             | -184.0                            | 526.0                | 506.0                 | 20.05                   | 26.229             |         |
| 4,500.0                                                                                         | 4,483.3             | 4,449.0             | 4,432.2             | 11.1      | 11.6   | 140.15               | 140.15                | 310.8                             | -187.8                            | 544.1                | 523.5                 | 20.55                   | 26.478             |         |
| 4,600.0                                                                                         | 4,582.6             | 4,547.3             | 4,529.9             | 11.4      | 11.9   | 140.50               | 140.50                | 320.1                             | -191.6                            | 562.2                | 541.2                 | 21.04                   | 26.716             |         |
| 4,700.0                                                                                         | 4,682.0             | 4,645.6             | 4,627.7             | 11.7      | 12.1   | 140.84               | 140.84                | 329.3                             | -195.3                            | 580.3                | 558.8                 | 21.54                   | 26.940             |         |
| 4,800.0                                                                                         | 4,781.5             | 4,744.2             | 4,725.8             | 11.9      | 12.4   | 141.24               | 141.24                | 338.6                             | -199.1                            | 596.9                | 574.9                 | 22.04                   | 27.088             |         |
| 4,900.0                                                                                         | 4,881.3             | 4,843.2             | 4,824.3             | 12.1      | 12.7   | 141.38               | 141.38                | 347.9                             | -202.9                            | 610.8                | 588.3                 | 22.51                   | 27.136             |         |
| 5,000.0                                                                                         | 4,981.3             | 4,942.5             | 4,923.1             | 12.3      | 13.0   | 141.29               | 141.29                | 357.3                             | -206.7                            | 622.0                | 599.1                 | 22.96                   | 27.093             |         |

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

|                           |                                           |                                     |                             |
|---------------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Project:</b>           | SEC.24-T5N-R65W                           | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Reference Site:</b>    | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site Error:</b>        | 0.0ft                                     | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0ft                                     | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                               | <b>Database:</b>                    | Landmark                    |
| <b>Reference Design:</b>  | Plan #2 (8-9-13)                          | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24P-332 - Wellbore #1 - Plan #2 (8-9-13) |                     |                     |                     |           |        |                 |                       |                                   |                                   |                      |                       |                         | Offset Site Error: | 0.0 ft  |
|-------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------|--------|-----------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD                                                                           |                     |                     |                     |           |        |                 |                       |                                   |                                   |                      |                       |                         | Offset Well Error: | 0.0 ft  |
| Measured Depth (ft)                                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference | Offset | Semi Major Axis | 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  | Warning |
| 5,100.0                                                                                         | 5,081.3             | 5,042.0             | 5,022.1             | 12.5      | 13.3   | 0.59            |                       | 366.6                             | -210.5                            | 631.4                | 606.6                 | 24.86                   | 25.404             |         |
| 5,200.0                                                                                         | 5,181.3             | 5,141.5             | 5,121.1             | 12.7      | 13.6   | 0.24            |                       | 376.0                             | -214.3                            | 640.8                | 615.5                 | 25.32                   | 25.314             |         |
| 5,300.0                                                                                         | 5,281.3             | 5,243.9             | 5,223.0             | 12.8      | 13.9   | -0.11           |                       | 385.6                             | -218.2                            | 650.2                | 624.4                 | 25.78                   | 25.221             |         |
| 5,400.0                                                                                         | 5,381.3             | 5,370.5             | 5,349.2             | 13.0      | 14.1   | -0.42           |                       | 394.3                             | -221.8                            | 657.1                | 630.9                 | 26.24                   | 25.045             |         |
| 5,500.0                                                                                         | 5,481.3             | 5,497.6             | 5,476.2             | 13.2      | 14.4   | -0.54           |                       | 397.9                             | -223.3                            | 660.0                | 633.3                 | 26.65                   | 24.768             |         |
| 5,600.0                                                                                         | 5,581.3             | 5,602.7             | 5,581.3             | 13.4      | 14.5   | -0.55           |                       | 398.0                             | -223.3                            | 660.0                | 633.0                 | 27.01                   | 24.438             |         |
| 5,700.0                                                                                         | 5,681.3             | 5,702.7             | 5,681.3             | 13.6      | 14.7   | -0.55           |                       | 398.0                             | -223.3                            | 660.0                | 632.7                 | 27.39                   | 24.101             |         |
| 5,800.0                                                                                         | 5,781.3             | 5,802.7             | 5,781.3             | 13.7      | 14.9   | -0.55           |                       | 398.0                             | -223.3                            | 660.0                | 632.3                 | 27.77                   | 23.771             |         |
| 5,900.0                                                                                         | 5,881.3             | 5,902.7             | 5,881.3             | 13.9      | 15.1   | -0.55           |                       | 398.0                             | -223.3                            | 660.0                | 631.9                 | 28.15                   | 23.448             |         |
| 6,000.0                                                                                         | 5,981.3             | 6,002.7             | 5,981.3             | 14.1      | 15.3   | -0.55           |                       | 398.0                             | -223.3                            | 660.0                | 631.5                 | 28.53                   | 23.133             |         |
| 6,100.0                                                                                         | 6,081.3             | 6,102.9             | 6,081.5             | 14.3      | 15.5   | -90.86          |                       | 398.0                             | -223.2                            | 660.0                | 632.5                 | 27.54                   | 23.968             |         |
| 6,200.0                                                                                         | 6,180.9             | 6,204.2             | 6,182.4             | 14.4      | 15.6   | -90.85          |                       | 398.0                             | -214.8                            | 660.0                | 632.2                 | 27.85                   | 23.699             |         |
| 6,300.0                                                                                         | 6,278.6             | 6,305.5             | 6,281.2             | 14.5      | 15.7   | -90.83          |                       | 397.8                             | -193.1                            | 660.0                | 631.9                 | 28.09                   | 23.496             |         |
| 6,400.0                                                                                         | 6,372.6             | 6,406.7             | 6,376.3             | 14.6      | 15.8   | -90.79          |                       | 397.7                             | -158.5                            | 660.0                | 631.7                 | 28.31                   | 23.316             |         |
| 6,500.0                                                                                         | 6,461.5             | 6,507.9             | 6,465.9             | 14.6      | 15.9   | -90.74          |                       | 397.4                             | -111.7                            | 660.0                | 631.4                 | 28.59                   | 23.089             |         |
| 6,600.0                                                                                         | 6,543.6             | 6,609.0             | 6,548.5             | 14.7      | 16.0   | -90.68          |                       | 397.1                             | -53.6                             | 660.0                | 631.0                 | 29.05                   | 22.721             |         |
| 6,700.0                                                                                         | 6,617.6             | 6,709.9             | 6,622.7             | 14.8      | 16.1   | -90.60          |                       | 396.7                             | 14.9                              | 660.0                | 630.1                 | 29.85                   | 22.111             |         |
| 6,800.0                                                                                         | 6,682.2             | 6,810.8             | 6,687.1             | 15.1      | 16.4   | -90.52          |                       | 396.3                             | 92.4                              | 660.0                | 628.8                 | 31.14                   | 21.191             |         |
| 6,900.0                                                                                         | 6,736.3             | 6,911.5             | 6,740.6             | 16.1      | 17.3   | -90.42          |                       | 395.8                             | 177.6                             | 659.9                | 626.9                 | 33.05                   | 19.968             |         |
| 7,000.0                                                                                         | 6,779.0             | 7,012.1             | 6,782.4             | 17.3      | 18.6   | -90.32          |                       | 395.3                             | 269.0                             | 659.9                | 624.3                 | 35.61                   | 18.531             |         |
| 7,100.0                                                                                         | 6,809.5             | 7,112.5             | 6,811.9             | 18.9      | 20.2   | -90.21          |                       | 394.8                             | 364.9                             | 659.9                | 621.1                 | 38.79                   | 17.012             |         |
| 7,200.0                                                                                         | 6,827.3             | 7,212.7             | 6,828.5             | 20.8      | 22.0   | -90.10          |                       | 394.2                             | 463.7                             | 659.9                | 617.4                 | 42.48                   | 15.536             |         |
| 7,300.0                                                                                         | 6,832.1             | 7,312.8             | 6,832.1             | 22.8      | 24.0   | -90.00          |                       | 393.7                             | 563.6                             | 659.9                | 613.4                 | 46.52                   | 14.185             |         |
| 7,400.0                                                                                         | 6,830.5             | 7,412.8             | 6,830.5             | 25.0      | 26.2   | -90.00          |                       | 393.1                             | 663.6                             | 659.9                | 609.0                 | 50.83                   | 12.981             |         |
| 7,500.0                                                                                         | 6,829.0             | 7,512.8             | 6,828.9             | 27.2      | 28.4   | -90.00          |                       | 392.6                             | 763.6                             | 659.9                | 604.5                 | 55.38                   | 11.915             |         |
| 7,600.0                                                                                         | 6,827.4             | 7,612.8             | 6,827.3             | 29.6      | 30.8   | -90.00          |                       | 392.0                             | 863.5                             | 659.8                | 599.7                 | 60.11                   | 10.977             |         |
| 7,700.0                                                                                         | 6,825.8             | 7,712.8             | 6,825.8             | 32.0      | 33.2   | -90.00          |                       | 391.5                             | 963.5                             | 659.8                | 594.9                 | 64.98                   | 10.154             |         |
| 7,800.0                                                                                         | 6,824.2             | 7,812.8             | 6,824.2             | 34.5      | 35.7   | -90.00          |                       | 390.9                             | 1,063.5                           | 659.8                | 589.9                 | 69.96                   | 9.431              |         |
| 7,900.0                                                                                         | 6,822.6             | 7,912.8             | 6,822.6             | 37.1      | 38.2   | -90.00          |                       | 390.4                             | 1,163.5                           | 659.8                | 584.8                 | 75.04                   | 8.793              |         |
| 8,000.0                                                                                         | 6,821.0             | 8,012.8             | 6,821.0             | 39.7      | 40.8   | -90.00          |                       | 389.8                             | 1,263.5                           | 659.8                | 579.6                 | 80.18                   | 8.229              |         |
| 8,100.0                                                                                         | 6,819.4             | 8,112.8             | 6,819.4             | 42.3      | 43.3   | -90.00          |                       | 389.2                             | 1,363.5                           | 659.8                | 574.4                 | 85.39                   | 7.727              |         |
| 8,200.0                                                                                         | 6,817.8             | 8,212.8             | 6,817.8             | 44.9      | 46.0   | -90.00          |                       | 388.7                             | 1,463.5                           | 659.8                | 569.1                 | 90.64                   | 7.279              |         |
| 8,300.0                                                                                         | 6,816.2             | 8,312.8             | 6,816.2             | 47.5      | 48.6   | -90.00          |                       | 388.1                             | 1,563.5                           | 659.8                | 563.8                 | 95.94                   | 6.877              |         |
| 8,400.0                                                                                         | 6,814.7             | 8,412.8             | 6,814.6             | 50.2      | 51.2   | -90.00          |                       | 387.6                             | 1,663.4                           | 659.8                | 558.5                 | 101.27                  | 6.515              |         |
| 8,500.0                                                                                         | 6,813.1             | 8,512.8             | 6,813.1             | 52.9      | 53.9   | -90.00          |                       | 387.0                             | 1,763.4                           | 659.7                | 553.1                 | 106.62                  | 6.187              |         |
| 8,600.0                                                                                         | 6,811.5             | 8,612.8             | 6,811.5             | 55.6      | 56.6   | -90.00          |                       | 386.5                             | 1,863.4                           | 659.7                | 547.7                 | 112.01                  | 5.890              |         |
| 8,700.0                                                                                         | 6,809.9             | 8,712.8             | 6,809.9             | 58.3      | 59.3   | -90.00          |                       | 385.9                             | 1,963.4                           | 659.7                | 542.3                 | 117.42                  | 5.619              |         |
| 8,800.0                                                                                         | 6,808.3             | 8,812.8             | 6,808.3             | 61.0      | 62.0   | -90.00          |                       | 385.4                             | 2,063.4                           | 659.7                | 536.9                 | 122.84                  | 5.370              |         |
| 8,900.0                                                                                         | 6,806.7             | 8,912.8             | 6,806.7             | 63.7      | 64.7   | -90.00          |                       | 384.8                             | 2,163.4                           | 659.7                | 531.4                 | 128.28                  | 5.142              |         |
| 9,000.0                                                                                         | 6,805.1             | 9,012.8             | 6,805.1             | 66.5      | 67.4   | -90.00          |                       | 384.3                             | 2,263.4                           | 659.7                | 525.9                 | 133.74                  | 4.933              |         |
| 9,100.0                                                                                         | 6,803.5             | 9,112.8             | 6,803.5             | 69.2      | 70.2   | -90.00          |                       | 383.7                             | 2,363.3                           | 659.7                | 520.5                 | 139.21                  | 4.739              |         |
| 9,200.0                                                                                         | 6,802.0             | 9,212.8             | 6,801.9             | 71.9      | 72.9   | -90.00          |                       | 383.2                             | 2,463.3                           | 659.7                | 515.0                 | 144.69                  | 4.559              |         |
| 9,300.0                                                                                         | 6,800.4             | 9,312.8             | 6,800.3             | 74.7      | 75.6   | -90.00          |                       | 382.6                             | 2,563.3                           | 659.6                | 509.5                 | 150.18                  | 4.392              |         |
| 9,400.0                                                                                         | 6,798.8             | 9,412.8             | 6,798.8             | 77.4      | 78.4   | -90.00          |                       | 382.1                             | 2,663.3                           | 659.6                | 504.0                 | 155.68                  | 4.237              |         |
| 9,500.0                                                                                         | 6,797.2             | 9,512.8             | 6,797.2             | 80.2      | 81.1   | -90.00          |                       | 381.5                             | 2,763.3                           | 659.6                | 498.4                 | 161.19                  | 4.092              |         |
| 9,600.0                                                                                         | 6,795.6             | 9,612.8             | 6,795.6             | 83.0      | 83.9   | -90.00          |                       | 381.0                             | 2,863.3                           | 659.6                | 492.9                 | 166.70                  | 3.957              |         |
| 9,700.0                                                                                         | 6,794.0             | 9,712.8             | 6,794.0             | 85.7      | 86.6   | -90.00          |                       | 380.4                             | 2,963.3                           | 659.6                | 487.4                 | 172.23                  | 3.830              |         |
| 9,800.0                                                                                         | 6,792.4             | 9,812.8             | 6,792.4             | 88.5      | 89.4   | -90.00          |                       | 379.9                             | 3,063.2                           | 659.6                | 481.8                 | 177.75                  | 3.711              |         |
| 9,900.0                                                                                         | 6,790.8             | 9,912.8             | 6,790.8             | 91.2      | 92.2   | -90.00          |                       | 379.3                             | 3,163.2                           | 659.6                | 476.3                 | 183.29                  | 3.599              |         |
| 10,000.0                                                                                        | 6,789.2             | 10,012.8            | 6,789.2             | 94.0      | 94.9   | -90.00          |                       | 378.8                             | 3,263.2                           | 659.6                | 470.7                 | 188.83                  | 3.493              |         |
| 10,100.0                                                                                        | 6,787.7             | 10,112.8            | 6,787.6             | 96.8      | 97.7   | -90.00          |                       | 378.2                             | 3,363.2                           | 659.6                | 465.2                 | 194.37                  | 3.393              |         |

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

|                           |                                           |                                     |                             |
|---------------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Project:</b>           | SEC.24-T5N-R65W                           | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Reference Site:</b>    | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site Error:</b>        | 0.0ft                                     | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0ft                                     | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                               | <b>Database:</b>                    | Landmark                    |
| <b>Reference Design:</b>  | Plan #2 (8-9-13)                          | <b>Offset TVD Reference:</b>        | Offset Datum                |

| <b>Offset Design</b> Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24P-332 - Wellbore #1 - Plan #2 (8-9-13) |                        |                        |                        |           |        |                             |                                         |                                         |                            |                             |                               | <b>Offset Site Error:</b> | 0.0 ft  |
|--------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-----------|--------|-----------------------------|-----------------------------------------|-----------------------------------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 0-MWD                                                                                  |                        |                        |                        |           |        |                             |                                         |                                         |                            |                             |                               | <b>Offset Well Error:</b> | 0.0 ft  |
| Measured Depth<br>(ft)                                                                                 | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference | Offset | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | Offset Wellbore Centre<br>+E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      | Warning |
| 10,200.0                                                                                               | 6,786.1                | 10,212.8               | 6,786.1                | 99.6      | 100.5  | -90.00                      | 377.6                                   | 3,463.2                                 | 659.5                      | 459.6                       | 199.92                        | 3.299                     |         |
| 10,300.0                                                                                               | 6,784.5                | 10,312.8               | 6,784.5                | 102.3     | 103.2  | -90.00                      | 377.1                                   | 3,563.2                                 | 659.5                      | 454.1                       | 205.47                        | 3.210                     |         |
| 10,400.0                                                                                               | 6,782.9                | 10,412.8               | 6,782.9                | 105.1     | 106.0  | -90.00                      | 376.5                                   | 3,663.2                                 | 659.5                      | 448.5                       | 211.02                        | 3.125                     |         |
| 10,500.0                                                                                               | 6,781.3                | 10,512.8               | 6,781.3                | 107.9     | 108.8  | -90.00                      | 376.0                                   | 3,763.1                                 | 659.5                      | 442.9                       | 216.58                        | 3.045                     |         |
| 10,600.0                                                                                               | 6,779.7                | 10,612.8               | 6,779.7                | 110.7     | 111.6  | -90.00                      | 375.4                                   | 3,863.1                                 | 659.5                      | 437.4                       | 222.14                        | 2.969                     |         |
| 10,700.0                                                                                               | 6,778.1                | 10,712.8               | 6,778.1                | 113.5     | 114.3  | -90.00                      | 374.9                                   | 3,963.1                                 | 659.5                      | 431.8                       | 227.70                        | 2.896                     |         |
| 10,800.0                                                                                               | 6,776.5                | 10,812.8               | 6,776.5                | 116.2     | 117.1  | -90.00                      | 374.3                                   | 4,063.1                                 | 659.5                      | 426.2                       | 233.27                        | 2.827                     |         |
| 10,900.0                                                                                               | 6,775.0                | 10,912.8               | 6,774.9                | 119.0     | 119.9  | -90.00                      | 373.8                                   | 4,163.1                                 | 659.5                      | 420.6                       | 238.84                        | 2.761                     |         |
| 11,000.0                                                                                               | 6,773.4                | 11,012.8               | 6,773.3                | 121.8     | 122.7  | -90.00                      | 373.2                                   | 4,263.1                                 | 659.4                      | 415.0                       | 244.41                        | 2.698                     |         |
| 11,100.0                                                                                               | 6,771.8                | 11,112.8               | 6,771.8                | 124.6     | 125.5  | -90.00                      | 372.7                                   | 4,363.1                                 | 659.4                      | 409.5                       | 249.98                        | 2.638                     |         |
| 11,200.0                                                                                               | 6,770.2                | 11,212.8               | 6,770.2                | 127.4     | 128.3  | -90.00                      | 372.1                                   | 4,463.0                                 | 659.4                      | 403.9                       | 255.56                        | 2.580                     |         |
| 11,211.0                                                                                               | 6,770.0                | 11,223.7               | 6,770.0                | 127.7     | 128.6  | -90.00                      | 372.1                                   | 4,474.0                                 | 659.4                      | 403.3                       | 256.17                        | 2.574                     |         |
| 11,211.9                                                                                               | 6,770.0                | 11,223.7               | 6,770.0                | 127.7     | 128.6  | -90.00                      | 372.1                                   | 4,474.0                                 | 659.4                      | 403.2                       | 256.19                        | 2.574 SF                  |         |

|                           |                                           |                                     |                             |
|---------------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Project:</b>           | SEC.24-T5N-R65W                           | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Reference Site:</b>    | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site Error:</b>        | 0.0ft                                     | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0ft                                     | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                               | <b>Database:</b>                    | Landmark                    |
| <b>Reference Design:</b>  | Plan #2 (8-9-13)                          | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24Q-112 - Wellbore #1 - Plan #2 (8-9-13) |                     |                     |                     |           |        |                 |                       |                                   |                                   |                      |                       |                         | Offset Site Error: | 0.0 ft  |
|-------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------|--------|-----------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWDD                                                                          |                     |                     |                     |           |        |                 |                       |                                   |                                   |                      |                       |                         | Offset Well Error: | 0.0 ft  |
| Measured Depth (ft)                                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference | Offset | Semi Major Axis | 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  | Warning |
| 0.0                                                                                             | 0.0                 | 0.0                 | 0.0                 | 0.0       | 0.0    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 |                       |                         |                    |         |
| 100.0                                                                                           | 100.0               | 100.0               | 100.0               | 0.1       | 0.1    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 30.4                  | 0.22                    | 136.352            |         |
| 200.0                                                                                           | 200.0               | 200.0               | 200.0               | 0.3       | 0.3    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 30.0                  | 0.67                    | 45.451             |         |
| 300.0                                                                                           | 300.0               | 300.0               | 300.0               | 0.6       | 0.6    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 29.5                  | 1.12                    | 27.270             |         |
| 400.0                                                                                           | 400.0               | 400.0               | 400.0               | 0.8       | 0.8    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 29.1                  | 1.57                    | 19.479             |         |
| 500.0                                                                                           | 500.0               | 500.0               | 500.0               | 1.0       | 1.0    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 28.6                  | 2.02                    | 15.150             |         |
| 600.0                                                                                           | 600.0               | 600.0               | 600.0               | 1.2       | 1.2    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 28.2                  | 2.47                    | 12.396             |         |
| 700.0                                                                                           | 700.0               | 700.0               | 700.0               | 1.5       | 1.5    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 27.7                  | 2.92                    | 10.489             |         |
| 800.0                                                                                           | 800.0               | 800.0               | 800.0               | 1.7       | 1.7    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 27.3                  | 3.37                    | 9.090              |         |
| 900.0                                                                                           | 900.0               | 900.0               | 900.0               | 1.9       | 1.9    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 26.8                  | 3.82                    | 8.021              |         |
| 1,000.0                                                                                         | 1,000.0             | 1,000.0             | 1,000.0             | 2.1       | 2.1    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 26.4                  | 4.27                    | 7.176              |         |
| 1,100.0                                                                                         | 1,100.0             | 1,100.0             | 1,100.0             | 2.4       | 2.4    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 25.9                  | 4.72                    | 6.493              |         |
| 1,200.0                                                                                         | 1,200.0             | 1,200.0             | 1,200.0             | 2.6       | 2.6    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 25.5                  | 5.17                    | 5.928              |         |
| 1,300.0                                                                                         | 1,300.0             | 1,300.0             | 1,300.0             | 2.8       | 2.8    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 25.0                  | 5.62                    | 5.454              |         |
| 1,400.0                                                                                         | 1,400.0             | 1,400.0             | 1,400.0             | 3.0       | 3.0    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 24.6                  | 6.07                    | 5.050              |         |
| 1,500.0                                                                                         | 1,500.0             | 1,500.0             | 1,500.0             | 3.3       | 3.3    | -89.98          | -89.98                | 0.0                               | -30.6                             | 30.6                 | 24.1                  | 6.52                    | 4.702 CC, ES       |         |
| 1,600.0                                                                                         | 1,600.0             | 1,599.0             | 1,598.9             | 3.5       | 3.5    | -88.94          | -88.94                | 0.6                               | -32.3                             | 32.3                 | 25.3                  | 6.96                    | 4.640              |         |
| 1,700.0                                                                                         | 1,700.0             | 1,697.7             | 1,697.5             | 3.7       | 3.7    | -86.38          | -86.38                | 2.3                               | -37.1                             | 37.2                 | 29.8                  | 7.39                    | 5.036              |         |
| 1,800.0                                                                                         | 1,800.0             | 1,796.0             | 1,795.5             | 3.9       | 3.9    | 58.73           | 58.73                 | 5.2                               | -45.0                             | 44.6                 | 36.8                  | 7.79                    | 5.724              |         |
| 1,900.0                                                                                         | 1,899.8             | 1,895.1             | 1,894.0             | 4.1       | 4.1    | 65.77           | 65.77                 | 9.0                               | -55.3                             | 53.1                 | 44.9                  | 8.18                    | 6.493              |         |
| 2,000.0                                                                                         | 1,999.5             | 1,994.4             | 1,992.7             | 4.3       | 4.4    | 73.86           | 73.86                 | 12.7                              | -65.6                             | 61.3                 | 52.7                  | 8.58                    | 7.140              |         |
| 2,100.0                                                                                         | 2,098.8             | 2,093.6             | 2,091.2             | 4.5       | 4.6    | 82.06           | 82.06                 | 16.5                              | -76.0                             | 70.0                 | 61.0                  | 9.01                    | 7.769              |         |
| 2,200.0                                                                                         | 2,198.2             | 2,192.7             | 2,189.8             | 4.7       | 4.9    | 88.49           | 88.49                 | 20.3                              | -86.3                             | 79.9                 | 70.4                  | 9.46                    | 8.442              |         |
| 2,300.0                                                                                         | 2,297.5             | 2,291.9             | 2,288.3             | 4.9       | 5.1    | 93.46           | 93.46                 | 24.0                              | -96.7                             | 90.5                 | 80.6                  | 9.92                    | 9.118              |         |
| 2,400.0                                                                                         | 2,396.9             | 2,391.1             | 2,386.9             | 5.2       | 5.4    | 97.37           | 97.37                 | 27.8                              | -107.0                            | 101.6                | 91.2                  | 10.40                   | 9.773              |         |
| 2,500.0                                                                                         | 2,496.2             | 2,490.2             | 2,485.4             | 5.4       | 5.7    | 100.50          | 100.50                | 31.5                              | -117.4                            | 113.2                | 102.3                 | 10.89                   | 10.394             |         |
| 2,600.0                                                                                         | 2,595.6             | 2,589.4             | 2,584.0             | 5.7       | 5.9    | 103.04          | 103.04                | 35.3                              | -127.7                            | 125.0                | 113.6                 | 11.38                   | 10.977             |         |
| 2,700.0                                                                                         | 2,694.9             | 2,688.6             | 2,682.5             | 5.9       | 6.2    | 105.14          | 105.14                | 39.1                              | -138.1                            | 137.0                | 125.1                 | 11.89                   | 11.520             |         |
| 2,800.0                                                                                         | 2,794.3             | 2,787.7             | 2,781.1             | 6.2       | 6.5    | 106.91          | 106.91                | 42.8                              | -148.4                            | 149.1                | 136.7                 | 12.40                   | 12.025             |         |
| 2,900.0                                                                                         | 2,893.6             | 2,886.9             | 2,879.6             | 6.4       | 6.8    | 108.40          | 108.40                | 46.6                              | -158.8                            | 161.4                | 148.5                 | 12.92                   | 12.494             |         |
| 3,000.0                                                                                         | 2,993.0             | 2,986.0             | 2,978.2             | 6.7       | 7.1    | 109.69          | 109.69                | 50.4                              | -169.1                            | 173.8                | 160.3                 | 13.44                   | 12.928             |         |
| 3,100.0                                                                                         | 3,092.3             | 3,085.2             | 3,076.7             | 7.0       | 7.3    | 110.80          | 110.80                | 54.1                              | -179.5                            | 186.2                | 172.3                 | 13.97                   | 13.331             |         |
| 3,200.0                                                                                         | 3,191.7             | 3,184.4             | 3,175.3             | 7.3       | 7.6    | 111.77          | 111.77                | 57.9                              | -189.8                            | 198.7                | 184.2                 | 14.50                   | 13.706             |         |
| 3,300.0                                                                                         | 3,291.0             | 3,283.5             | 3,273.8             | 7.6       | 7.9    | 112.63          | 112.63                | 61.6                              | -200.1                            | 211.3                | 196.3                 | 15.03                   | 14.054             |         |
| 3,400.0                                                                                         | 3,390.4             | 3,388.1             | 3,377.9             | 7.8       | 8.2    | 113.72          | 113.72                | 65.1                              | -209.5                            | 222.8                | 207.2                 | 15.53                   | 14.349             |         |
| 3,500.0                                                                                         | 3,489.7             | 3,493.5             | 3,483.1             | 8.1       | 8.4    | 115.38          | 115.38                | 67.2                              | -215.4                            | 231.8                | 215.8                 | 16.00                   | 14.480             |         |
| 3,600.0                                                                                         | 3,589.1             | 3,598.9             | 3,588.4             | 8.4       | 8.6    | 117.58          | 117.58                | 68.0                              | -217.6                            | 238.4                | 221.9                 | 16.47                   | 14.473             |         |
| 3,700.0                                                                                         | 3,688.4             | 3,698.9             | 3,688.4             | 8.7       | 8.7    | 119.95          | 119.95                | 68.0                              | -217.6                            | 243.9                | 227.0                 | 16.93                   | 14.404             |         |
| 3,800.0                                                                                         | 3,787.8             | 3,798.2             | 3,787.8             | 9.0       | 8.9    | 122.20          | 122.20                | 68.0                              | -217.6                            | 249.8                | 232.4                 | 17.41                   | 14.350             |         |
| 3,900.0                                                                                         | 3,887.1             | 3,897.6             | 3,887.1             | 9.3       | 9.1    | 124.34          | 124.34                | 68.0                              | -217.6                            | 256.1                | 238.2                 | 17.88                   | 14.323             |         |
| 4,000.0                                                                                         | 3,986.5             | 3,996.9             | 3,986.5             | 9.6       | 9.3    | 126.38          | 126.38                | 68.0                              | -217.6                            | 262.7                | 244.3                 | 18.34                   | 14.321             |         |
| 4,100.0                                                                                         | 4,085.9             | 4,096.3             | 4,085.9             | 9.9       | 9.5    | 128.32          | 128.32                | 68.0                              | -217.6                            | 269.6                | 250.8                 | 18.80                   | 14.338             |         |
| 4,200.0                                                                                         | 4,185.2             | 4,195.6             | 4,185.2             | 10.2      | 9.7    | 130.16          | 130.16                | 68.0                              | -217.6                            | 276.8                | 257.6                 | 19.26                   | 14.373             |         |
| 4,300.0                                                                                         | 4,284.6             | 4,295.0             | 4,284.6             | 10.5      | 9.9    | 131.90          | 131.90                | 68.0                              | -217.6                            | 284.3                | 264.6                 | 19.71                   | 14.423             |         |
| 4,400.0                                                                                         | 4,383.9             | 4,394.3             | 4,383.9             | 10.8      | 10.2   | 133.56          | 133.56                | 68.0                              | -217.6                            | 292.1                | 271.9                 | 20.16                   | 14.485             |         |
| 4,500.0                                                                                         | 4,483.3             | 4,493.7             | 4,483.3             | 11.1      | 10.4   | 135.13          | 135.13                | 68.0                              | -217.6                            | 300.0                | 279.4                 | 20.61                   | 14.558             |         |
| 4,600.0                                                                                         | 4,582.6             | 4,593.0             | 4,582.6             | 11.4      | 10.6   | 136.61          | 136.61                | 68.0                              | -217.6                            | 308.2                | 287.2                 | 21.06                   | 14.639             |         |
| 4,700.0                                                                                         | 4,682.0             | 4,692.4             | 4,682.0             | 11.7      | 10.8   | 138.03          | 138.03                | 68.0                              | -217.6                            | 316.6                | 295.1                 | 21.50                   | 14.726             |         |
| 4,800.0                                                                                         | 4,781.5             | 4,791.9             | 4,781.5             | 11.9      | 11.0   | 139.23          | 139.23                | 68.0                              | -217.6                            | 323.6                | 301.7                 | 21.92                   | 14.761             |         |
| 4,900.0                                                                                         | 4,881.3             | 4,891.8             | 4,881.3             | 12.1      | 11.2   | 139.96          | 139.96                | 68.0                              | -217.6                            | 328.1                | 305.8                 | 22.34                   | 14.690             |         |
| 5,000.0                                                                                         | 4,981.3             | 4,991.7             | 4,981.3             | 12.3      | 11.4   | 140.25          | 140.25                | 68.0                              | -217.6                            | 330.0                | 307.2                 | 22.73                   | 14.514             |         |

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

|                           |                                           |                                     |                             |
|---------------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Project:</b>           | SEC.24-T5N-R65W                           | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Reference Site:</b>    | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site Error:</b>        | 0.0ft                                     | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0ft                                     | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                               | <b>Database:</b>                    | Landmark                    |
| <b>Reference Design:</b>  | Plan #2 (8-9-13)                          | <b>Offset TVD Reference:</b>        | Offset Datum                |

| Offset Design Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24Q-112 - Wellbore #1 - Plan #2 (8-9-13) |                     |                     |                     |           |        |                 |                       |                                   |                                   |                      |                       |                         | Offset Site Error: | 0.0 ft  |
|-------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|-----------|--------|-----------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 0-MWD                                                                           |                     |                     |                     |           |        |                 |                       |                                   |                                   |                      |                       |                         | Offset Well Error: | 0.0 ft  |
| Measured Depth (ft)                                                                             | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference | Offset | Semi Major Axis | 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  | Warning |
| 5,100.0                                                                                         | 5,081.3             | 5,091.7             | 5,081.3             | 12.5      | 11.6   | -0.11           | -0.11                 | 68.0                              | -217.6                            | 330.0                | 307.1                 | 22.92                   | 14.398             |         |
| 5,200.0                                                                                         | 5,181.3             | 5,191.7             | 5,181.3             | 12.7      | 11.8   | -0.11           | -0.11                 | 68.0                              | -217.6                            | 330.0                | 306.7                 | 23.32                   | 14.150             |         |
| 5,300.0                                                                                         | 5,281.3             | 5,291.7             | 5,281.3             | 12.8      | 12.0   | -0.11           | -0.11                 | 68.0                              | -217.6                            | 330.0                | 306.3                 | 23.73                   | 13.910             |         |
| 5,400.0                                                                                         | 5,381.3             | 5,391.7             | 5,381.3             | 13.0      | 12.2   | -0.11           | -0.11                 | 68.0                              | -217.6                            | 330.0                | 305.9                 | 24.13                   | 13.676             |         |
| 5,500.0                                                                                         | 5,481.3             | 5,491.7             | 5,481.3             | 13.2      | 12.5   | -0.11           | -0.11                 | 68.0                              | -217.6                            | 330.0                | 305.5                 | 24.54                   | 13.450             |         |
| 5,600.0                                                                                         | 5,581.3             | 5,591.7             | 5,581.3             | 13.4      | 12.7   | -0.11           | -0.11                 | 68.0                              | -217.6                            | 330.0                | 305.1                 | 24.94                   | 13.230             |         |
| 5,700.0                                                                                         | 5,681.3             | 5,691.7             | 5,681.3             | 13.6      | 12.9   | -0.11           | -0.11                 | 68.0                              | -217.6                            | 330.0                | 304.7                 | 25.35                   | 13.017             |         |
| 5,800.0                                                                                         | 5,781.3             | 5,791.7             | 5,781.3             | 13.7      | 13.1   | -0.11           | -0.11                 | 68.0                              | -217.6                            | 330.0                | 304.3                 | 25.76                   | 12.810             |         |
| 5,900.0                                                                                         | 5,881.3             | 5,891.8             | 5,881.3             | 13.9      | 13.3   | -0.10           | -0.10                 | 68.0                              | -217.6                            | 330.0                | 303.8                 | 26.17                   | 12.609             |         |
| 5,947.8                                                                                         | 5,929.1             | 5,939.6             | 5,929.1             | 14.0      | 13.4   | 0.29            | 0.29                  | 68.0                              | -215.3                            | 330.0                | 303.6                 | 26.36                   | 12.517             |         |
| 6,000.0                                                                                         | 5,981.3             | 5,991.3             | 5,980.5             | 14.1      | 13.5   | 1.29            | 1.29                  | 68.0                              | -209.6                            | 330.1                | 303.5                 | 26.58                   | 12.418             |         |
| 6,100.0                                                                                         | 6,081.3             | 6,087.2             | 6,074.2             | 14.3      | 13.6   | -85.58          | -85.58                | 67.9                              | -189.7                            | 331.1                | 304.1                 | 26.99                   | 12.268             |         |
| 6,200.0                                                                                         | 6,180.9             | 6,179.4             | 6,161.4             | 14.4      | 13.7   | -81.47          | -81.47                | 67.7                              | -159.7                            | 333.9                | 306.8                 | 27.16                   | 12.294             |         |
| 6,300.0                                                                                         | 6,278.6             | 6,269.2             | 6,242.2             | 14.5      | 13.8   | -77.60          | -77.60                | 67.5                              | -120.6                            | 338.4                | 311.0                 | 27.31                   | 12.391             |         |
| 6,400.0                                                                                         | 6,372.6             | 6,356.9             | 6,316.1             | 14.6      | 14.0   | -74.03          | -74.03                | 67.3                              | -73.6                             | 343.9                | 316.5                 | 27.45                   | 12.530             |         |
| 6,500.0                                                                                         | 6,461.5             | 6,442.7             | 6,382.8             | 14.6      | 14.3   | -70.82          | -70.82                | 67.0                              | -19.6                             | 350.2                | 322.6                 | 27.64                   | 12.669             |         |
| 6,600.0                                                                                         | 6,543.6             | 6,527.1             | 6,442.0             | 14.7      | 14.7   | -67.99          | -67.99                | 66.7                              | 40.4                              | 356.8                | 328.9                 | 27.96                   | 12.760             |         |
| 6,700.0                                                                                         | 6,617.6             | 6,610.1             | 6,493.5             | 14.8      | 15.4   | -65.54          | -65.54                | 66.4                              | 105.4                             | 363.4                | 334.9                 | 28.49                   | 12.753             |         |
| 6,800.0                                                                                         | 6,682.2             | 6,692.0             | 6,537.1             | 15.1      | 16.2   | -63.50          | -63.50                | 66.0                              | 174.7                             | 369.5                | 340.2                 | 29.33                   | 12.598             |         |
| 6,900.0                                                                                         | 6,736.3             | 6,773.0             | 6,572.7             | 16.1      | 17.3   | -61.84          | -61.84                | 65.6                              | 247.5                             | 375.0                | 344.4                 | 30.57                   | 12.265             |         |
| 7,000.0                                                                                         | 6,779.0             | 6,850.0             | 6,599.2             | 17.3      | 18.4   | -60.60          | -60.60                | 65.3                              | 319.7                             | 379.4                | 347.2                 | 32.21                   | 11.781             |         |
| 7,100.0                                                                                         | 6,809.5             | 6,933.3             | 6,619.5             | 18.9      | 19.9   | -59.66          | -59.66                | 64.9                              | 400.4                             | 382.7                | 348.3                 | 34.41                   | 11.123             |         |
| 7,200.0                                                                                         | 6,827.3             | 7,012.8             | 6,630.6             | 20.8      | 21.4   | -59.13          | -59.13                | 64.5                              | 479.2                             | 384.8                | 347.8                 | 37.00                   | 10.398             |         |
| 7,300.0                                                                                         | 6,832.1             | 7,093.7             | 6,633.5             | 22.8      | 23.1   | -58.97          | -58.97                | 64.1                              | 559.9                             | 385.4                | 345.4                 | 40.01                   | 9.633              |         |
| 7,400.0                                                                                         | 6,830.5             | 7,193.7             | 6,632.6             | 25.0      | 25.3   | -59.07          | -59.07                | 63.6                              | 659.9                             | 385.1                | 341.3                 | 43.78                   | 8.795              |         |
| 7,500.0                                                                                         | 6,829.0             | 7,293.7             | 6,631.7             | 27.2      | 27.6   | -59.16          | -59.16                | 63.0                              | 759.9                             | 384.7                | 337.0                 | 47.76                   | 8.055              |         |
| 7,600.0                                                                                         | 6,827.4             | 7,393.7             | 6,630.9             | 29.6      | 29.9   | -59.26          | -59.26                | 62.5                              | 859.9                             | 384.4                | 332.5                 | 51.91                   | 7.404              |         |
| 7,700.0                                                                                         | 6,825.8             | 7,493.6             | 6,630.0             | 32.0      | 32.4   | -59.35          | -59.35                | 62.0                              | 959.9                             | 384.0                | 327.8                 | 56.20                   | 6.834              |         |
| 7,800.0                                                                                         | 6,824.2             | 7,593.6             | 6,629.2             | 34.5      | 34.9   | -59.45          | -59.45                | 61.5                              | 1,059.9                           | 383.7                | 323.1                 | 60.59                   | 6.333              |         |
| 7,900.0                                                                                         | 6,822.6             | 7,693.6             | 6,628.3             | 37.1      | 37.4   | -59.55          | -59.55                | 61.0                              | 1,159.9                           | 383.3                | 318.3                 | 65.07                   | 5.891              |         |
| 8,000.0                                                                                         | 6,821.0             | 7,793.6             | 6,627.5             | 39.7      | 40.0   | -59.64          | -59.64                | 60.5                              | 1,259.9                           | 383.0                | 313.4                 | 69.62                   | 5.501              |         |
| 8,100.0                                                                                         | 6,819.4             | 7,893.6             | 6,626.6             | 42.3      | 42.6   | -59.74          | -59.74                | 60.0                              | 1,359.9                           | 382.6                | 308.4                 | 74.23                   | 5.155              |         |
| 8,200.0                                                                                         | 6,817.8             | 7,993.6             | 6,625.8             | 44.9      | 45.3   | -59.84          | -59.84                | 59.5                              | 1,459.9                           | 382.3                | 303.4                 | 78.90                   | 4.846              |         |
| 8,300.0                                                                                         | 6,816.2             | 8,093.6             | 6,624.9             | 47.5      | 47.9   | -59.94          | -59.94                | 59.0                              | 1,559.8                           | 382.0                | 298.4                 | 83.61                   | 4.569              |         |
| 8,400.0                                                                                         | 6,814.7             | 8,193.6             | 6,624.0             | 50.2      | 50.6   | -60.03          | -60.03                | 58.5                              | 1,659.8                           | 381.6                | 293.3                 | 88.35                   | 4.319              |         |
| 8,500.0                                                                                         | 6,813.1             | 8,293.6             | 6,623.2             | 52.9      | 53.3   | -60.13          | -60.13                | 58.0                              | 1,759.8                           | 381.3                | 288.2                 | 93.14                   | 4.094              |         |
| 8,600.0                                                                                         | 6,811.5             | 8,393.6             | 6,622.3             | 55.6      | 56.0   | -60.23          | -60.23                | 57.5                              | 1,859.8                           | 381.0                | 283.0                 | 97.95                   | 3.889              |         |
| 8,700.0                                                                                         | 6,809.9             | 8,493.6             | 6,621.5             | 58.3      | 58.7   | -60.33          | -60.33                | 56.9                              | 1,959.8                           | 380.6                | 277.8                 | 102.79                  | 3.703              |         |
| 8,800.0                                                                                         | 6,808.3             | 8,593.6             | 6,620.6             | 61.0      | 61.4   | -60.43          | -60.43                | 56.4                              | 2,059.8                           | 380.3                | 272.6                 | 107.66                  | 3.532              |         |
| 8,900.0                                                                                         | 6,806.7             | 8,693.6             | 6,619.8             | 63.7      | 64.1   | -60.53          | -60.53                | 55.9                              | 2,159.8                           | 380.0                | 267.4                 | 112.55                  | 3.376              |         |
| 9,000.0                                                                                         | 6,805.1             | 8,793.6             | 6,618.9             | 66.5      | 66.9   | -60.62          | -60.62                | 55.4                              | 2,259.8                           | 379.6                | 262.2                 | 117.46                  | 3.232              |         |
| 9,100.0                                                                                         | 6,803.5             | 8,893.6             | 6,618.1             | 69.2      | 69.6   | -60.72          | -60.72                | 54.9                              | 2,359.8                           | 379.3                | 256.9                 | 122.39                  | 3.099              |         |
| 9,200.0                                                                                         | 6,802.0             | 8,993.6             | 6,617.2             | 71.9      | 72.3   | -60.82          | -60.82                | 54.4                              | 2,459.8                           | 379.0                | 251.6                 | 127.34                  | 2.976              |         |
| 9,300.0                                                                                         | 6,800.4             | 9,093.6             | 6,616.3             | 74.7      | 75.1   | -60.92          | -60.92                | 53.9                              | 2,559.8                           | 378.6                | 246.3                 | 132.31                  | 2.862              |         |
| 9,400.0                                                                                         | 6,798.8             | 9,193.6             | 6,615.5             | 77.4      | 77.8   | -61.02          | -61.02                | 53.4                              | 2,659.8                           | 378.3                | 241.0                 | 137.29                  | 2.756              |         |
| 9,500.0                                                                                         | 6,797.2             | 9,293.6             | 6,614.6             | 80.2      | 80.6   | -61.12          | -61.12                | 52.9                              | 2,759.8                           | 378.0                | 235.7                 | 142.29                  | 2.656              |         |
| 9,600.0                                                                                         | 6,795.6             | 9,393.6             | 6,613.8             | 83.0      | 83.4   | -61.22          | -61.22                | 52.4                              | 2,859.8                           | 377.7                | 230.4                 | 147.30                  | 2.564              |         |
| 9,700.0                                                                                         | 6,794.0             | 9,493.6             | 6,612.9             | 85.7      | 86.1   | -61.32          | -61.32                | 51.9                              | 2,959.7                           | 377.3                | 225.0                 | 152.33                  | 2.477              |         |
| 9,800.0                                                                                         | 6,792.4             | 9,593.6             | 6,612.1             | 88.5      | 88.9   | -61.42          | -61.42                | 51.4                              | 3,059.7                           | 377.0                | 219.6                 | 157.37                  | 2.396              |         |
| 9,900.0                                                                                         | 6,790.8             | 9,693.6             | 6,611.2             | 91.2      | 91.7   | -61.52          | -61.52                | 50.8                              | 3,159.7                           | 376.7                | 214.3                 | 162.42                  | 2.319              |         |
| 10,000.0                                                                                        | 6,789.2             | 9,793.6             | 6,610.4             | 94.0      | 94.4   | -61.62          | -61.62                | 50.3                              | 3,259.7                           | 376.4                | 208.9                 | 167.49                  | 2.247              |         |

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

|                           |                                           |                                     |                             |
|---------------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Project:</b>           | SEC.24-T5N-R65W                           | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Reference Site:</b>    | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site Error:</b>        | 0.0ft                                     | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0ft                                     | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                               | <b>Database:</b>                    | Landmark                    |
| <b>Reference Design:</b>  | Plan #2 (8-9-13)                          | <b>Offset TVD Reference:</b>        | Offset Datum                |

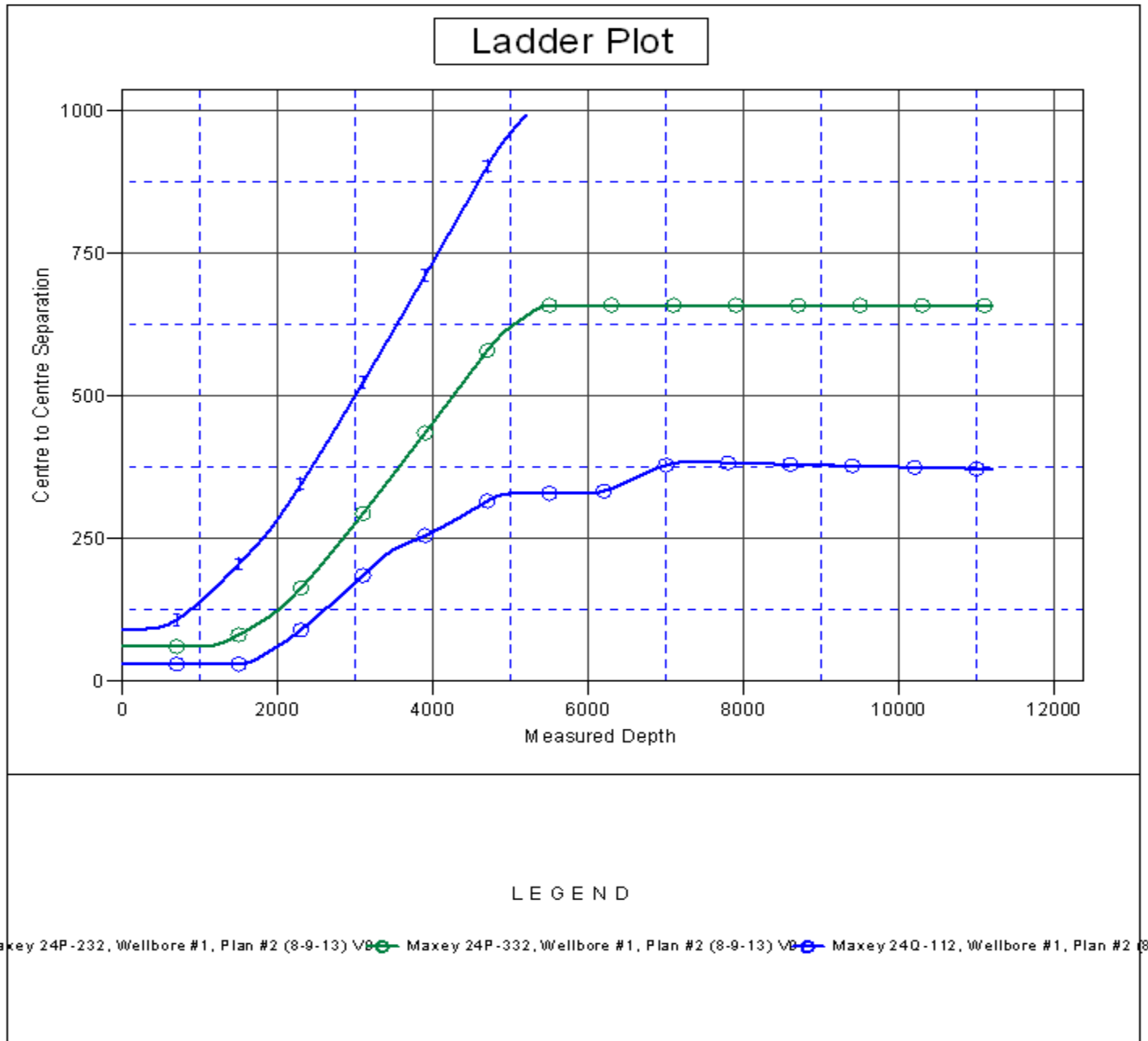
| <b>Offset Design</b> Maxey 24Q-HZ Pad Sec.24-T5N-R65W - Maxey 24Q-112 - Wellbore #1 - Plan #2 (8-9-13) |                        |                        |                        |           |        |                             |                                         |                                         |                            |                             |                               | <b>Offset Site Error:</b> | 0.0 ft  |
|--------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|-----------|--------|-----------------------------|-----------------------------------------|-----------------------------------------|----------------------------|-----------------------------|-------------------------------|---------------------------|---------|
| Survey Program: 0-MWD                                                                                  |                        |                        |                        |           |        |                             |                                         |                                         |                            |                             |                               | <b>Offset Well Error:</b> | 0.0 ft  |
| Measured Depth<br>(ft)                                                                                 | Vertical Depth<br>(ft) | Measured Depth<br>(ft) | Vertical Depth<br>(ft) | Reference | Offset | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | Offset Wellbore Centre<br>+E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor      | Warning |
| 10,100.0                                                                                               | 6,787.7                | 9,893.6                | 6,609.5                | 96.8      | 97.2   | -61.72                      | 49.8                                    | 3,359.7                                 | 376.0                      | 203.5                       | 172.57                        | 2.179                     |         |
| 10,200.0                                                                                               | 6,786.1                | 9,993.6                | 6,608.7                | 99.6      | 100.0  | -61.82                      | 49.3                                    | 3,459.7                                 | 375.7                      | 198.1                       | 177.66                        | 2.115                     |         |
| 10,300.0                                                                                               | 6,784.5                | 10,093.6               | 6,607.8                | 102.3     | 102.7  | -61.92                      | 48.8                                    | 3,559.7                                 | 375.4                      | 192.6                       | 182.76                        | 2.054                     |         |
| 10,400.0                                                                                               | 6,782.9                | 10,193.6               | 6,606.9                | 105.1     | 105.5  | -62.02                      | 48.3                                    | 3,659.7                                 | 375.1                      | 187.2                       | 187.88                        | 1.996                     |         |
| 10,500.0                                                                                               | 6,781.3                | 10,293.6               | 6,606.1                | 107.9     | 108.3  | -62.13                      | 47.8                                    | 3,759.7                                 | 374.8                      | 181.8                       | 193.00                        | 1.942                     |         |
| 10,600.0                                                                                               | 6,779.7                | 10,393.6               | 6,605.2                | 110.7     | 111.1  | -62.23                      | 47.3                                    | 3,859.7                                 | 374.5                      | 176.3                       | 198.14                        | 1.890                     |         |
| 10,700.0                                                                                               | 6,778.1                | 10,493.6               | 6,604.4                | 113.5     | 113.9  | -62.33                      | 46.8                                    | 3,959.7                                 | 374.2                      | 170.9                       | 203.29                        | 1.841                     |         |
| 10,800.0                                                                                               | 6,776.5                | 10,593.6               | 6,603.5                | 116.2     | 116.7  | -62.43                      | 46.3                                    | 4,059.7                                 | 373.8                      | 165.4                       | 208.44                        | 1.793                     |         |
| 10,900.0                                                                                               | 6,775.0                | 10,693.6               | 6,602.7                | 119.0     | 119.4  | -62.53                      | 45.8                                    | 4,159.7                                 | 373.5                      | 159.9                       | 213.61                        | 1.749                     |         |
| 11,000.0                                                                                               | 6,773.4                | 10,793.6               | 6,601.8                | 121.8     | 122.2  | -62.63                      | 45.3                                    | 4,259.6                                 | 373.2                      | 154.4                       | 218.79                        | 1.706                     |         |
| 11,100.0                                                                                               | 6,771.8                | 10,893.6               | 6,601.0                | 124.6     | 125.0  | -62.74                      | 44.7                                    | 4,359.6                                 | 372.9                      | 148.9                       | 223.98                        | 1.665                     |         |
| 11,200.0                                                                                               | 6,770.2                | 10,993.6               | 6,600.1                | 127.4     | 127.8  | -62.84                      | 44.2                                    | 4,459.6                                 | 372.6                      | 143.4                       | 229.18                        | 1.626                     |         |
| 11,211.9                                                                                               | 6,770.0                | 11,005.2               | 6,600.0                | 127.7     | 128.1  | -62.85                      | 44.2                                    | 4,471.3                                 | 372.6                      | 142.8                       | 229.79                        | 1.621 SF                  |         |



|                           |                                           |                                     |                             |
|---------------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Project:</b>           | SEC.24-T5N-R65W                           | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Reference Site:</b>    | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site Error:</b>        | 0.0ft                                     | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0ft                                     | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                               | <b>Database:</b>                    | Landmark                    |
| <b>Reference Design:</b>  | Plan #2 (8-9-13)                          | <b>Offset TVD Reference:</b>        | Offset Datum                |

Reference Depths are relative to WELL @ 4650.0ft (RKB - 15')  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: Maxey 24Q-302  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.57°





|                           |                                           |                                     |                             |
|---------------------------|-------------------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>           | PETROLEUM DEVELOPMENT CORP Weld County CO | <b>Local Co-ordinate Reference:</b> | Well Maxey 24Q-302          |
| <b>Project:</b>           | SEC.24-T5N-R65W                           | <b>TVD Reference:</b>               | WELL @ 4650.0ft (RKB - 15') |
| <b>Reference Site:</b>    | Maxey 24Q-HZ Pad Sec.24-T5N-R65W          | <b>MD Reference:</b>                | WELL @ 4650.0ft (RKB - 15') |
| <b>Site Error:</b>        | 0.0ft                                     | <b>North Reference:</b>             | True                        |
| <b>Reference Well:</b>    | Maxey 24Q-302                             | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Well Error:</b>        | 0.0ft                                     | <b>Output errors are at</b>         | 2.00 sigma                  |
| <b>Reference Wellbore</b> | Wellbore #1                               | <b>Database:</b>                    | Landmark                    |
| <b>Reference Design:</b>  | Plan #2 (8-9-13)                          | <b>Offset TVD Reference:</b>        | Offset Datum                |

Reference Depths are relative to WELL @ 4650.0ft (RKB - 15')  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: Maxey 24Q-302  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.57°

