# Synergy Resources

Well Name: **SRC Gies 34-15-22NHZ**

Surface Location: SRC Gies Pad Sec.15-T7N-R65W

North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

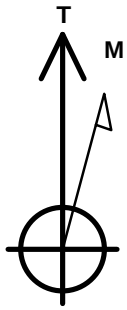
Ground Elevation: 4838.0

| +N/-S | +E/-W | Northing | Easting | Latittude | Longitude | Slot |
|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 1450673.69 | 3237878.78 | 40.567346 | -104.643762 | |

Original Well Elev WELL @ 4851.0ft (Original Well Elev)

## WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|---|---|---|---|---|
| SHL 272'FSL & 1127'FEL, Sec.15 | 1.0 | 0.0 | 0.0 | Point |
| BHL 470'FSL & 1864'FEL, Sec.22 | 7240.0 | -4516.1 | -746.4 | Point |
| Landing Pt. 460'FNL & 1881'FEL, Sec.22 | 7240.0 | -708.2 | -760.7 | Point |



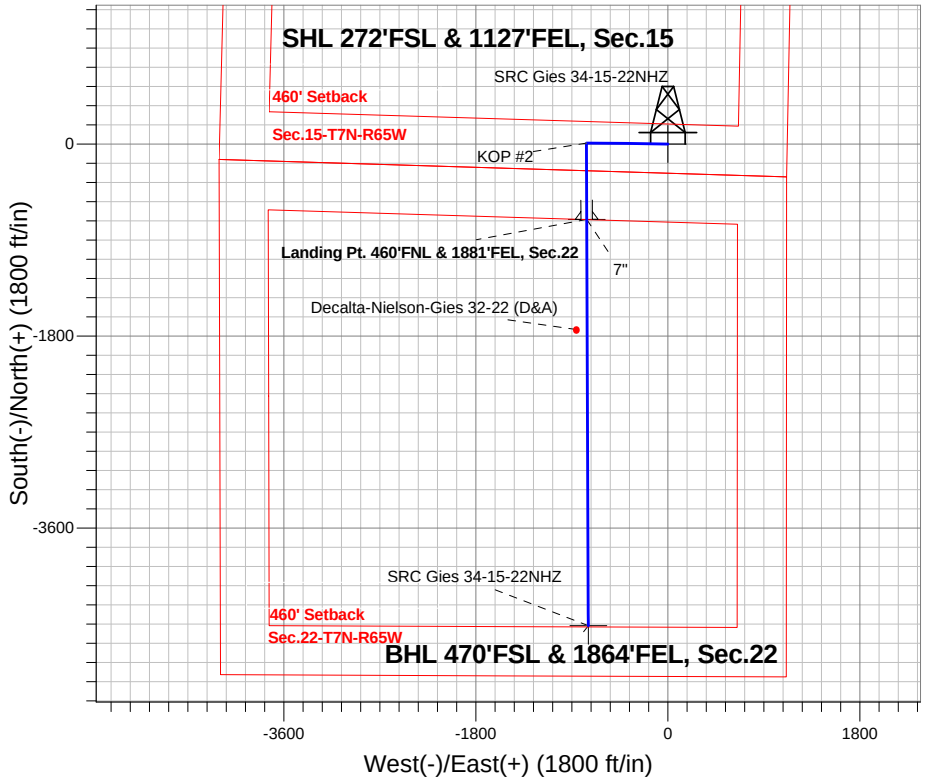

Azimuths to True North
Magnetic North: 8.42°

Magnetic Field
Strength: 52926.0snT
Dip Angle: 67.10°
Date: 5/8/2014
Model: IGRF2010

SRC Gies Pad Sec.15-T7N-R65W
SRC Gies 34-15-22NHZ
Plan #1 (5-7-14)
12:33, May 14 2014

## ANNOTATIONS

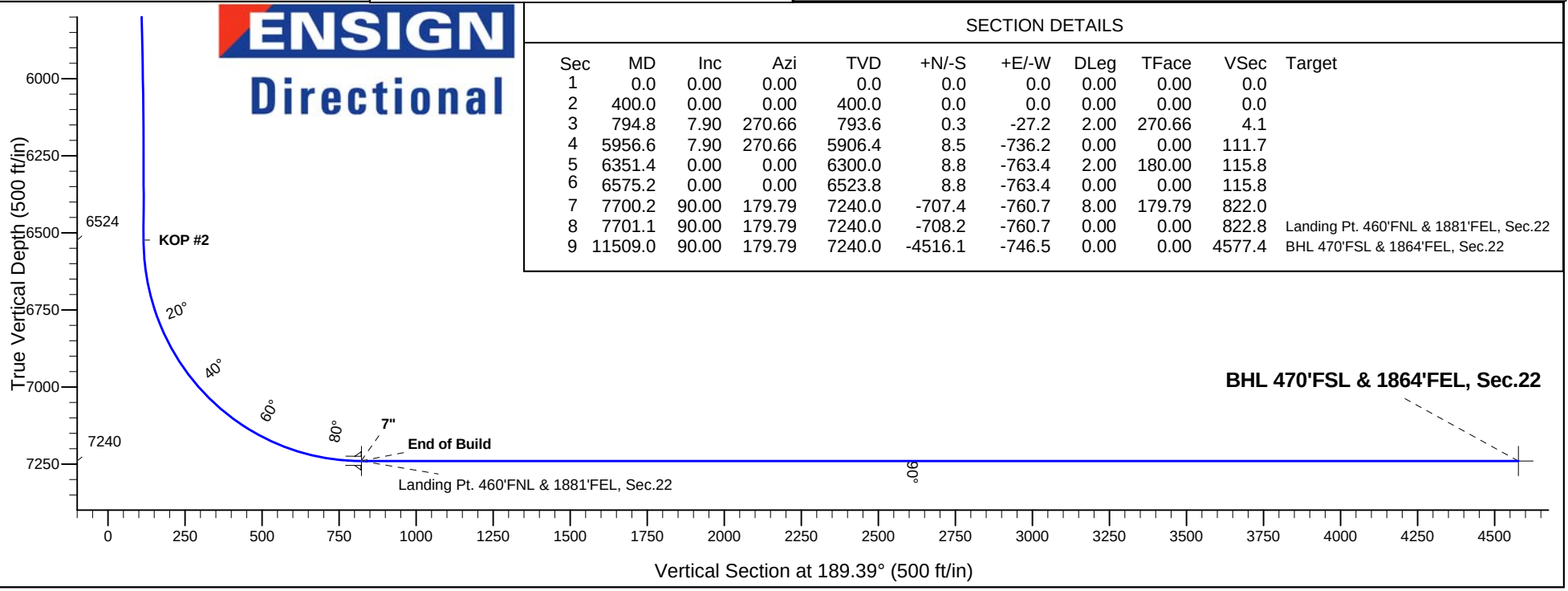
| TVD | MD | Annotation |
|---|---|---|
| 400.0 | 400.0 | KOP #1 |
| 6523.8 | 6575.2 | KOP #2 |
| 7240.0 | 7700.2 | End of Build |




ENSIGN Directional

## SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 794.8 | 7.90 | 270.66 | 793.6 | 0.3 | -27.2 | 2.00 | 270.66 | 4.1 | |
| 4 | 5956.6 | 7.90 | 270.66 | 5906.4 | 8.5 | -736.2 | 0.00 | 0.00 | 111.7 | |
| 5 | 6351.4 | 0.00 | 0.00 | 6300.0 | 8.8 | -763.4 | 2.00 | 180.00 | 115.8 | |
| 6 | 6575.2 | 0.00 | 0.00 | 6523.8 | 8.8 | -763.4 | 0.00 | 0.00 | 115.8 | |
| 7 | 7700.2 | 90.00 | 179.79 | 7240.0 | -707.4 | -760.7 | 8.00 | 179.79 | 822.0 | |
| 8 | 7701.1 | 90.00 | 179.79 | 7240.0 | -708.2 | -760.7 | 0.00 | 0.00 | 822.8 | Landing Pt. 460'FNL & 1881'FEL, Sec.22 |
| 9 | 11509.0 | 90.00 | 179.79 | 7240.0 | -4516.1 | -746.5 | 0.00 | 0.00 | 4577.4 | BHL 470'FSL & 1864'FEL, Sec.22 |



# Synergy Resources

**SEC.15-T7N-R65W**
**SRC Gies Pad Sec.15-T7N-R65W**
**SRC Gies 34-15-22NHZ**

**Wellbore #1**

**Plan: Plan #1 (5-7-14)**

# Standard Planning Report

**14 May, 2014**

| | | | |
|---|---|---|---|
| **Database:** | landmark | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Company:** | Synergy Resources | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Project:** | SEC.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site:** | SRC Gies Pad Sec.15-T7N-R65W | **North Reference:** | True |
| **Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Plan #1 (5-7-14) | | |

**Project** SEC.15-T7N-R65W, Weld County, CO

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | Using Well Reference Point |
| **Map Zone:** | Colorado Northern Zone | | Using geodetic scale factor |

**Site** SRC Gies Pad Sec.15-T7N-R65W

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 1,450,674.24 ft | **Latitude:** | 40.567348 |
| **From:** | Lat/Long | **Easting:** | 3,237,858.77 ft | **Longitude:** | -104.643834 |
| **Position Uncertainty:** | 0.0 ft | **Slot Radius:** | " | **Grid Convergence:** | 0.55 ° |

**Well** SRC Gies 34-15-22NHZ

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | -0.7 ft | **Northing:** | 1,450,673.69 ft | **Latitude:** | 40.567346 |
| | **+E/-W** | 20.0 ft | **Easting:** | 3,237,878.78 ft | **Longitude:** | -104.643762 |
| **Position Uncertainty** | | 0.0 ft | **Wellhead Elevation:** | ft | **Ground Level:** | 4,838.0 ft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2010 | 5/8/2014 | 8.42 | 67.10 | 52,926 |

**Design** Plan #1 (5-7-14)

**Audit Notes:**

| | | | | | |
|---|---|---|---|---|---|
| **Version:** | | **Phase:** | PROTOTYPE | **Tie On Depth:** | 0.0 |

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.0 | 0.0 | 0.0 | 189.39 |

**Plan Sections**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 794.8 | 7.90 | 270.66 | 793.6 | 0.3 | -27.2 | 2.00 | 2.00 | 0.00 | 270.66 | |
| 5,956.6 | 7.90 | 270.66 | 5,906.4 | 8.5 | -736.2 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,351.4 | 0.00 | 0.00 | 6,300.0 | 8.8 | -763.4 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 6,575.2 | 0.00 | 0.00 | 6,523.8 | 8.8 | -763.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,700.2 | 90.00 | 179.79 | 7,240.0 | -707.4 | -760.7 | 8.00 | 8.00 | 0.00 | 179.79 | |
| 7,701.1 | 90.00 | 179.79 | 7,240.0 | -708.2 | -760.7 | 0.00 | 0.00 | 0.00 | 0.00 | Landing Pt. 460'FN |
| 11,509.0 | 90.00 | 179.79 | 7,240.0 | -4,516.1 | -746.5 | 0.00 | 0.00 | 0.00 | 0.00 | BHL 470'FSL & 186 |

| | | | |
|---|---|---|---|
| **Database:** | landmark | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Company:** | Synergy Resources | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Project:** | SEC.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site:** | SRC Gies Pad Sec.15-T7N-R65W | **North Reference:** | True |
| **Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Plan #1 (5-7-14) | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1.0 | 0.00 | 0.00 | 1.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| **SHL 272'FSL & 1127'FEL, Sec.15** | | | | | | | | | |
| 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 |
| **KOP #1** | | | | | | | | | |
| 500.0 | 2.00 | 270.66 | 500.0 | 0.0 | -1.7 | 0.3 | 2.00 | 2.00 | 0.00 |
| 600.0 | 4.00 | 270.66 | 599.8 | 0.1 | -7.0 | 1.1 | 2.00 | 2.00 | 0.00 |
| 700.0 | 6.00 | 270.66 | 699.5 | 0.2 | -15.7 | 2.4 | 2.00 | 2.00 | 0.00 |
| 794.8 | 7.90 | 270.66 | 793.6 | 0.3 | -27.2 | 4.1 | 2.00 | 2.00 | 0.00 |
| 800.0 | 7.90 | 270.66 | 798.7 | 0.3 | -27.9 | 4.2 | 0.00 | 0.00 | 0.00 |
| 900.0 | 7.90 | 270.66 | 897.8 | 0.5 | -41.6 | 6.3 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 7.90 | 270.66 | 996.8 | 0.6 | -55.3 | 8.4 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 7.90 | 270.66 | 1,095.9 | 0.8 | -69.1 | 10.5 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 7.90 | 270.66 | 1,194.9 | 1.0 | -82.8 | 12.6 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 7.90 | 270.66 | 1,294.0 | 1.1 | -96.6 | 14.6 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 7.90 | 270.66 | 1,393.0 | 1.3 | -110.3 | 16.7 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 7.90 | 270.66 | 1,492.1 | 1.4 | -124.0 | 18.8 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 7.90 | 270.66 | 1,591.1 | 1.6 | -137.8 | 20.9 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 7.90 | 270.66 | 1,690.2 | 1.7 | -151.5 | 23.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 7.90 | 270.66 | 1,789.2 | 1.9 | -165.2 | 25.1 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 7.90 | 270.66 | 1,888.3 | 2.1 | -179.0 | 27.2 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 7.90 | 270.66 | 1,987.3 | 2.2 | -192.7 | 29.2 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 7.90 | 270.66 | 2,086.4 | 2.4 | -206.5 | 31.3 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 7.90 | 270.66 | 2,185.4 | 2.5 | -220.2 | 33.4 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 7.90 | 270.66 | 2,284.5 | 2.7 | -233.9 | 35.5 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 7.90 | 270.66 | 2,383.5 | 2.9 | -247.7 | 37.6 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 7.90 | 270.66 | 2,482.6 | 3.0 | -261.4 | 39.7 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 7.90 | 270.66 | 2,581.6 | 3.2 | -275.1 | 41.7 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 7.90 | 270.66 | 2,680.7 | 3.3 | -288.9 | 43.8 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 7.90 | 270.66 | 2,779.7 | 3.5 | -302.6 | 45.9 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 7.90 | 270.66 | 2,878.8 | 3.6 | -316.4 | 48.0 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 7.90 | 270.66 | 2,977.8 | 3.8 | -330.1 | 50.1 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 7.90 | 270.66 | 3,076.9 | 4.0 | -343.8 | 52.2 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 7.90 | 270.66 | 3,175.9 | 4.1 | -357.6 | 54.2 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 7.90 | 270.66 | 3,275.0 | 4.3 | -371.3 | 56.3 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 7.90 | 270.66 | 3,374.1 | 4.4 | -385.0 | 58.4 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 7.90 | 270.66 | 3,473.1 | 4.6 | -398.8 | 60.5 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 7.90 | 270.66 | 3,572.2 | 4.8 | -412.5 | 62.6 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 7.90 | 270.66 | 3,671.2 | 4.9 | -426.2 | 64.7 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 7.90 | 270.66 | 3,770.3 | 5.1 | -440.0 | 66.8 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 7.90 | 270.66 | 3,869.3 | 5.2 | -453.7 | 68.8 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 7.90 | 270.66 | 3,968.4 | 5.4 | -467.5 | 70.9 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 7.90 | 270.66 | 4,067.4 | 5.5 | -481.2 | 73.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 7.90 | 270.66 | 4,166.5 | 5.7 | -494.9 | 75.1 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 7.90 | 270.66 | 4,265.5 | 5.9 | -508.7 | 77.2 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 7.90 | 270.66 | 4,364.6 | 6.0 | -522.4 | 79.3 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 7.90 | 270.66 | 4,463.6 | 6.2 | -536.1 | 81.3 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 7.90 | 270.66 | 4,562.7 | 6.3 | -549.9 | 83.4 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 7.90 | 270.66 | 4,661.7 | 6.5 | -563.6 | 85.5 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 7.90 | 270.66 | 4,760.8 | 6.7 | -577.4 | 87.6 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 7.90 | 270.66 | 4,859.8 | 6.8 | -591.1 | 89.7 | 0.00 | 0.00 | 0.00 |

| | | | |
|---|---|---|---|
| **Database:** | landmark | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Company:** | Synergy Resources | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Project:** | SEC.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site:** | SRC Gies Pad Sec.15-T7N-R65W | **North Reference:** | True |
| **Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Plan #1 (5-7-14) | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,000.0 | 7.90 | 270.66 | 4,958.9 | 7.0 | -604.8 | 91.8 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 7.90 | 270.66 | 5,057.9 | 7.1 | -618.6 | 93.8 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 7.90 | 270.66 | 5,157.0 | 7.3 | -632.3 | 95.9 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 7.90 | 270.66 | 5,256.0 | 7.4 | -646.0 | 98.0 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 7.90 | 270.66 | 5,355.1 | 7.6 | -659.8 | 100.1 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 7.90 | 270.66 | 5,454.1 | 7.8 | -673.5 | 102.2 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 7.90 | 270.66 | 5,553.2 | 7.9 | -687.2 | 104.3 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 7.90 | 270.66 | 5,652.2 | 8.1 | -701.0 | 106.3 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 7.90 | 270.66 | 5,751.3 | 8.2 | -714.7 | 108.4 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 7.90 | 270.66 | 5,850.3 | 8.4 | -728.5 | 110.5 | 0.00 | 0.00 | 0.00 |
| 5,956.6 | 7.90 | 270.66 | 5,906.4 | 8.5 | -736.2 | 111.7 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 7.03 | 270.66 | 5,949.4 | 8.6 | -741.9 | 112.6 | 2.00 | -2.00 | 0.00 |
| 6,100.0 | 5.03 | 270.66 | 6,048.9 | 8.7 | -752.4 | 114.1 | 2.00 | -2.00 | 0.00 |
| 6,200.0 | 3.03 | 270.66 | 6,148.6 | 8.8 | -759.4 | 115.2 | 2.00 | -2.00 | 0.00 |
| 6,300.0 | 1.03 | 270.66 | 6,248.6 | 8.8 | -762.9 | 115.7 | 2.00 | -2.00 | 0.00 |
| 6,351.4 | 0.00 | 0.00 | 6,300.0 | 8.8 | -763.4 | 115.8 | 2.00 | -2.00 | 0.00 |
| 6,400.0 | 0.00 | 0.00 | 6,348.6 | 8.8 | -763.4 | 115.8 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 0.00 | 0.00 | 6,448.6 | 8.8 | -763.4 | 115.8 | 0.00 | 0.00 | 0.00 |
| 6,575.2 | 0.00 | 0.00 | 6,523.8 | 8.8 | -763.4 | 115.8 | 0.00 | 0.00 | 0.00 |
| **KOP #2** | | | | | | | | | |
| 6,600.0 | 1.98 | 179.79 | 6,548.6 | 8.4 | -763.4 | 116.2 | 7.99 | 7.99 | 0.00 |
| 6,700.0 | 9.98 | 179.79 | 6,647.9 | -2.0 | -763.4 | 126.5 | 8.00 | 8.00 | 0.00 |
| 6,800.0 | 17.98 | 179.79 | 6,744.9 | -26.2 | -763.3 | 150.3 | 8.00 | 8.00 | 0.00 |
| 6,900.0 | 25.98 | 179.79 | 6,837.5 | -63.6 | -763.1 | 187.2 | 8.00 | 8.00 | 0.00 |
| 7,000.0 | 33.98 | 179.79 | 6,924.1 | -113.5 | -762.9 | 236.4 | 8.00 | 8.00 | 0.00 |
| 7,100.0 | 41.98 | 179.79 | 7,002.9 | -175.0 | -762.7 | 297.0 | 8.00 | 8.00 | 0.00 |
| 7,200.0 | 49.98 | 179.79 | 7,072.3 | -246.8 | -762.4 | 367.9 | 8.00 | 8.00 | 0.00 |
| 7,300.0 | 57.98 | 179.79 | 7,131.0 | -327.7 | -762.1 | 447.6 | 8.00 | 8.00 | 0.00 |
| 7,400.0 | 65.98 | 179.79 | 7,178.0 | -415.9 | -761.8 | 534.5 | 8.00 | 8.00 | 0.00 |
| 7,500.0 | 73.98 | 179.79 | 7,212.2 | -509.8 | -761.5 | 627.1 | 8.00 | 8.00 | 0.00 |
| 7,600.0 | 81.98 | 179.79 | 7,233.0 | -607.5 | -761.1 | 723.5 | 8.00 | 8.00 | 0.00 |
| 7,700.0 | 89.98 | 179.79 | 7,240.0 | -707.2 | -760.7 | 821.7 | 8.00 | 8.00 | 0.00 |
| 7,700.2 | 90.00 | 179.79 | 7,240.0 | -707.4 | -760.7 | 821.9 | 8.00 | 8.00 | 0.00 |
| **End of Build - 7"** | | | | | | | | | |
| 7,701.1 | 90.00 | 179.79 | 7,240.0 | -708.2 | -760.7 | 822.8 | 0.39 | 0.39 | 0.00 |
| **Landing Pt. 460'FNL & 1881'FEL, Sec.22** | | | | | | | | | |
| 7,800.0 | 90.00 | 179.79 | 7,240.0 | -807.2 | -760.4 | 920.3 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.00 | 179.79 | 7,240.0 | -907.1 | -760.0 | 1,018.9 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.00 | 179.79 | 7,240.0 | -1,007.1 | -759.6 | 1,117.5 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.00 | 179.79 | 7,240.0 | -1,107.1 | -759.2 | 1,216.1 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.00 | 179.79 | 7,240.0 | -1,207.1 | -758.9 | 1,314.7 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.00 | 179.79 | 7,240.0 | -1,307.1 | -758.5 | 1,413.3 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 179.79 | 7,240.0 | -1,407.1 | -758.1 | 1,511.9 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 179.79 | 7,240.0 | -1,507.1 | -757.7 | 1,610.5 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.00 | 179.79 | 7,240.0 | -1,607.1 | -757.4 | 1,709.1 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.00 | 179.79 | 7,240.0 | -1,707.1 | -757.0 | 1,807.7 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 179.79 | 7,240.0 | -1,807.1 | -756.6 | 1,906.3 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 179.79 | 7,240.0 | -1,907.1 | -756.2 | 2,004.9 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 179.79 | 7,240.0 | -2,007.1 | -755.9 | 2,103.5 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.00 | 179.79 | 7,240.0 | -2,107.1 | -755.5 | 2,202.1 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.00 | 179.79 | 7,240.0 | -2,207.1 | -755.1 | 2,300.7 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.00 | 179.79 | 7,240.0 | -2,307.1 | -754.8 | 2,399.3 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 179.79 | 7,240.0 | -2,407.1 | -754.4 | 2,497.9 | 0.00 | 0.00 | 0.00 |

| | | | |
|---|---|---|---|
| **Database:** | landmark | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Company:** | Synergy Resources | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Project:** | SEC.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site:** | SRC Gies Pad Sec.15-T7N-R65W | **North Reference:** | True |
| **Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Plan #1 (5-7-14) | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 9,500.0 | 90.00 | 179.79 | 7,240.0 | -2,507.1 | -754.0 | 2,596.5 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 179.79 | 7,240.0 | -2,607.1 | -753.6 | 2,695.1 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.00 | 179.79 | 7,240.0 | -2,707.1 | -753.3 | 2,793.7 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.00 | 179.79 | 7,240.0 | -2,807.1 | -752.9 | 2,892.3 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.00 | 179.79 | 7,240.0 | -2,907.1 | -752.5 | 2,990.9 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 179.79 | 7,240.0 | -3,007.1 | -752.1 | 3,089.5 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.00 | 179.79 | 7,240.0 | -3,107.1 | -751.8 | 3,188.1 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.00 | 179.79 | 7,240.0 | -3,207.1 | -751.4 | 3,286.7 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.00 | 179.79 | 7,240.0 | -3,307.1 | -751.0 | 3,385.3 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 179.79 | 7,240.0 | -3,407.1 | -750.6 | 3,483.9 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 179.79 | 7,240.0 | -3,507.1 | -750.3 | 3,582.5 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 179.79 | 7,240.0 | -3,607.1 | -749.9 | 3,681.1 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 179.79 | 7,240.0 | -3,707.1 | -749.5 | 3,779.7 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 179.79 | 7,240.0 | -3,807.1 | -749.2 | 3,878.3 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 179.79 | 7,240.0 | -3,907.1 | -748.8 | 3,976.9 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 179.79 | 7,240.0 | -4,007.1 | -748.4 | 4,075.5 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 179.79 | 7,240.0 | -4,107.1 | -748.0 | 4,174.1 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 179.79 | 7,240.0 | -4,207.1 | -747.7 | 4,272.7 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 179.79 | 7,240.0 | -4,307.1 | -747.3 | 4,371.3 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 179.79 | 7,240.0 | -4,407.1 | -746.9 | 4,469.9 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.00 | 179.79 | 7,240.0 | -4,507.1 | -746.5 | 4,568.5 | 0.00 | 0.00 | 0.00 |
| 11,509.0 | 90.00 | 179.79 | 7,240.0 | -4,516.1 | -746.5 | 4,577.4 | 0.00 | 0.00 | 0.00 |
| **BHL 470'FSL & 1864'FEL, Sec.22** | | | | | | | | | |

**Casing Points**

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---|---|---|---|---|
| 7,700.2 | 7,240.0 | 7" | 7 | 7-1/2 |

**Plan Annotations**

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates +N/-S (ft) | Local Coordinates +E/-W (ft) | Comment |
|---|---|---|---|---|
| 400.0 | 400.0 | 0.0 | 0.0 | KOP #1 |
| 6,575.2 | 6,523.8 | 8.8 | -763.4 | KOP #2 |
| 7,700.2 | 7,240.0 | -707.4 | -760.7 | End of Build |

ENSIGN
Directional

# Synergy Resources

**SEC.15-T7N-R65W**
**SRC Gies Pad Sec.15-T7N-R65W**
**SRC Gies 34-15-22NHZ**

**Wellbore #1**
**Plan #1 (5-7-14)**

# Anticollision Report

**14 May, 2014**

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Reference** Plan #1 (5-7-14)

| | | | |
|---|---|---|---|
| **Filter type:** | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| **Interpolation Method:** | MD Interval 100.0ft | **Error Model:** | ISCWSA |
| **Depth Range:** | Unlimited | **Scan Method:** | Closest Approach 3D |
| **Results Limited by:** | Maximum center-center distance of 1,000.0ft | **Error Surface:** | Elliptical Conic |

**Warning Levels Evaluated at:** 2.00 **Sigma**

**Survey Tool Program** **Date** 5/14/2014

| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 0.0 | 11,509.0 | Plan #1 (5-7-14) (Wellbore #1) | MWD | MWD - Standard |

**Summary**

| Site Name / Offset Well - Wellbore - Design | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|
| Existing Wells Pad Sec.15-T7N-R65W | | | | | | |
| Decalta-Nielson-Gies 32-22 (D&A) - Wellbore #1 - Wellb | 8,731.4 | 7,222.0 | 100.8 | -80.8 | 0.555 | Level 1, CC, ES, SF |
| SRC Gies Pad Sec.15-T7N-R65W | | | | | | |
| SRC Gies 34-15-22CHZ - Wellbore #1 - Plan #1 (5-6-14) | 166.3 | 167.3 | 20.0 | 19.5 | 38.114 | CC |
| SRC Gies 34-15-22CHZ - Wellbore #1 - Plan #1 (5-6-14) | 200.0 | 201.0 | 20.0 | 19.3 | 29.592 | ES |
| SRC Gies 34-15-22CHZ - Wellbore #1 - Plan #1 (5-6-14) | 11,509.0 | 11,810.0 | 347.2 | 227.2 | 2.892 | SF |
| SRC Gies 44-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) | 400.0 | 400.0 | 100.1 | 98.5 | 63.597 | CC, ES |
| SRC Gies 44-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) | 900.0 | 893.1 | 143.3 | 139.5 | 38.083 | SF |
| SRC Gies 44-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14) | 400.0 | 400.0 | 119.8 | 118.2 | 76.136 | CC, ES |
| SRC Gies 44-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14) | 800.0 | 788.7 | 154.2 | 150.9 | 46.678 | SF |
| SRC Gies D-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) | 400.0 | 400.0 | 60.0 | 58.5 | 38.160 | CC, ES |
| SRC Gies D-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) | 11,509.0 | 11,710.0 | 713.2 | 547.0 | 4.293 | SF |
| SRC Gies D-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14) | 400.0 | 400.0 | 79.8 | 78.2 | 50.699 | CC, ES |
| SRC Gies D-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14) | 11,509.0 | 11,427.2 | 879.7 | 703.4 | 4.990 | SF |
| SRC Gies T-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) | 400.0 | 400.0 | 20.0 | 18.4 | 12.716 | CC, ES |
| SRC Gies T-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) | 11,509.0 | 11,750.2 | 348.4 | 222.6 | 2.770 | SF |
| SRC Gies T-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14) | 400.0 | 400.0 | 40.0 | 38.4 | 25.438 | CC, ES |
| SRC Gies T-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14) | 11,509.0 | 11,460.2 | 440.3 | 264.0 | 2.497 | SF |

**Offset Design** Existing Wells Pad Sec.15-T7N-R65W - Decalta-Nielson-Gies 32-22 (D&A) - Wellbore #1 - Wellbore #1

**Survey Program:** 7795-UNKNOWN

**Offset Site Error:** 0.0 ft

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7,800.0 | 7,240.0 | 7,222.0 | 7,222.0 | 25.9 | 144.4 | 90.00 | -1,738.9 | -857.7 | 936.8 | 769.8 | 167.03 | 5.609 | |
| 7,900.0 | 7,240.0 | 7,222.0 | 7,222.0 | 27.1 | 144.4 | 90.00 | -1,738.9 | -857.7 | 837.5 | 669.1 | 168.39 | 4.974 | |
| 8,000.0 | 7,240.0 | 7,222.0 | 7,222.0 | 28.3 | 144.4 | 90.00 | -1,738.9 | -857.7 | 738.3 | 568.5 | 169.81 | 4.348 | |
| 8,100.0 | 7,240.0 | 7,222.0 | 7,222.0 | 29.7 | 144.4 | 90.00 | -1,738.9 | -857.7 | 639.4 | 468.1 | 171.31 | 3.732 | |
| 8,200.0 | 7,240.0 | 7,222.0 | 7,222.0 | 31.1 | 144.4 | 90.00 | -1,738.9 | -857.7 | 540.9 | 368.0 | 172.85 | 3.129 | |
| 8,300.0 | 7,240.0 | 7,222.0 | 7,222.0 | 32.5 | 144.4 | 90.00 | -1,738.9 | -857.7 | 443.0 | 268.6 | 174.44 | 2.540 | |
| 8,400.0 | 7,240.0 | 7,222.0 | 7,222.0 | 34.0 | 144.4 | 90.00 | -1,738.9 | -857.7 | 346.4 | 170.3 | 176.06 | 1.967 | |
| 8,500.0 | 7,240.0 | 7,222.0 | 7,222.0 | 35.5 | 144.4 | 90.00 | -1,738.9 | -857.7 | 252.4 | 74.7 | 177.72 | 1.420 | Level 3 |
| 8,600.0 | 7,240.0 | 7,222.0 | 7,222.0 | 37.1 | 144.4 | 90.00 | -1,738.9 | -857.7 | 165.6 | -13.8 | 179.40 | 0.923 | Level 1 |
| 8,700.0 | 7,240.0 | 7,222.0 | 7,222.0 | 38.7 | 144.4 | 90.00 | -1,738.9 | -857.7 | 105.6 | -75.5 | 181.11 | 0.583 | Level 1 |

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

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Existing Wells Pad Sec.15-T7N-R65W - Decalta-Nielson-Gies 32-22 (D&A) - Wellbore #1 - Wellbore #1 — **Offset Site Error:** 0.0 ft

**Survey Program:** 7795-UNKNOWN — **Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8,731.4 | 7,240.0 | 7,222.0 | 7,222.0 | 39.3 | 144.4 | 90.00 | -1,738.9 | -857.7 | 100.8 | -80.8 | 181.65 | 0.555 | Level 1, CC, ES, SF |
| 8,800.0 | 7,240.0 | 7,222.0 | 7,222.0 | 40.4 | 144.4 | 90.00 | -1,738.9 | -857.7 | 122.0 | -60.9 | 182.84 | 0.667 | Level 1 |
| 8,900.0 | 7,240.0 | 7,222.0 | 7,222.0 | 42.0 | 144.4 | 90.00 | -1,738.9 | -857.7 | 196.5 | 11.9 | 184.59 | 1.064 | Level 2 |
| 9,000.0 | 7,240.0 | 7,222.0 | 7,222.0 | 43.7 | 144.4 | 90.00 | -1,738.9 | -857.7 | 286.9 | 100.6 | 186.35 | 1.540 | |
| 9,100.0 | 7,240.0 | 7,222.0 | 7,222.0 | 45.4 | 144.4 | 90.00 | -1,738.9 | -857.7 | 382.2 | 194.0 | 188.12 | 2.031 | |
| 9,200.0 | 7,240.0 | 7,222.0 | 7,222.0 | 47.2 | 144.4 | 90.00 | -1,738.9 | -857.7 | 479.3 | 289.4 | 189.91 | 2.524 | |
| 9,300.0 | 7,240.0 | 7,222.0 | 7,222.0 | 48.9 | 144.4 | 90.00 | -1,738.9 | -857.7 | 577.5 | 385.8 | 191.71 | 3.012 | |
| 9,400.0 | 7,240.0 | 7,222.0 | 7,222.0 | 50.6 | 144.4 | 90.00 | -1,738.9 | -857.7 | 676.2 | 482.7 | 193.52 | 3.494 | |
| 9,500.0 | 7,240.0 | 7,222.0 | 7,222.0 | 52.4 | 144.4 | 90.00 | -1,738.9 | -857.7 | 775.2 | 579.9 | 195.34 | 3.969 | |
| 9,600.0 | 7,240.0 | 7,222.0 | 7,222.0 | 54.2 | 144.4 | 90.00 | -1,738.9 | -857.7 | 874.5 | 677.3 | 197.16 | 4.435 | |
| 9,700.0 | 7,240.0 | 7,222.0 | 7,222.0 | 56.0 | 144.4 | 90.00 | -1,738.9 | -857.7 | 973.9 | 774.9 | 198.99 | 4.894 | |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 34-15-22CHZ - Wellbore #1 - Plan #1 (5-6-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | -87.93 | 0.7 | -20.0 | 20.0 | 20.0 | 0.00 | N/A | |
| 100.0 | 100.0 | 101.0 | 101.0 | 0.1 | 0.1 | -87.93 | 0.7 | -20.0 | 20.0 | 19.8 | 0.23 | 88.175 | |
| 166.3 | 166.3 | 167.3 | 167.3 | 0.3 | 0.3 | -87.93 | 0.7 | -20.0 | 20.0 | 19.5 | 0.53 | 38.114 | CC |
| 200.0 | 200.0 | 201.0 | 201.0 | 0.3 | 0.3 | -87.93 | 0.7 | -20.0 | 20.0 | 19.3 | 0.68 | 29.592 | ES |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | -88.02 | 0.8 | -21.7 | 21.8 | 20.7 | 1.11 | 19.556 | |
| 400.0 | 400.0 | 399.3 | 399.1 | 0.8 | 0.8 | -88.24 | 0.8 | -26.9 | 27.0 | 25.4 | 1.56 | 17.308 | |
| 500.0 | 500.0 | 498.0 | 497.5 | 1.0 | 1.0 | 0.93 | 1.0 | -35.5 | 33.9 | 31.9 | 1.99 | 17.028 | |
| 600.0 | 599.8 | 596.5 | 595.2 | 1.2 | 1.3 | 0.83 | 1.1 | -47.4 | 40.8 | 38.4 | 2.42 | 16.834 | |
| 700.0 | 699.5 | 695.1 | 692.7 | 1.5 | 1.6 | 0.78 | 1.4 | -62.6 | 47.5 | 44.7 | 2.87 | 16.555 | |
| 800.0 | 798.7 | 795.1 | 791.3 | 1.7 | 2.0 | 0.78 | 1.6 | -78.9 | 51.7 | 48.4 | 3.32 | 15.554 | |
| 900.0 | 897.8 | 895.0 | 889.9 | 2.0 | 2.4 | 0.81 | 1.9 | -95.1 | 54.3 | 50.5 | 3.79 | 14.307 | |
| 1,000.0 | 996.8 | 995.0 | 988.5 | 2.3 | 2.7 | 0.83 | 2.1 | -111.4 | 56.9 | 52.6 | 4.27 | 13.315 | |
| 1,100.0 | 1,095.9 | 1,095.0 | 1,087.2 | 2.7 | 3.1 | 0.85 | 2.4 | -127.7 | 59.5 | 54.7 | 4.75 | 12.512 | |
| 1,200.0 | 1,194.9 | 1,194.9 | 1,185.8 | 3.0 | 3.5 | 0.87 | 2.6 | -144.0 | 62.1 | 56.8 | 5.24 | 11.849 | |
| 1,300.0 | 1,294.0 | 1,294.9 | 1,284.4 | 3.3 | 3.9 | 0.89 | 2.9 | -160.3 | 64.7 | 58.9 | 5.72 | 11.295 | |
| 1,400.0 | 1,393.0 | 1,394.9 | 1,383.0 | 3.6 | 4.2 | 0.91 | 3.1 | -176.6 | 67.3 | 61.0 | 6.21 | 10.824 | |
| 1,500.0 | 1,492.1 | 1,494.8 | 1,481.7 | 4.0 | 4.6 | 0.92 | 3.3 | -192.9 | 69.8 | 63.1 | 6.70 | 10.419 | |
| 1,600.0 | 1,591.1 | 1,594.8 | 1,580.3 | 4.3 | 5.0 | 0.93 | 3.6 | -209.2 | 72.4 | 65.2 | 7.20 | 10.068 | |
| 1,700.0 | 1,690.2 | 1,694.8 | 1,678.9 | 4.7 | 5.4 | 0.95 | 3.8 | -225.5 | 75.0 | 67.4 | 7.69 | 9.761 | |
| 1,800.0 | 1,789.2 | 1,794.7 | 1,777.6 | 5.0 | 5.8 | 0.96 | 4.1 | -241.8 | 77.6 | 69.5 | 8.18 | 9.490 | |
| 1,900.0 | 1,888.3 | 1,894.7 | 1,876.2 | 5.3 | 6.2 | 0.97 | 4.3 | -258.1 | 80.2 | 71.6 | 8.67 | 9.249 | |
| 2,000.0 | 1,987.3 | 1,994.7 | 1,974.8 | 5.7 | 6.5 | 0.98 | 4.6 | -274.4 | 82.8 | 73.7 | 9.17 | 9.033 | |
| 2,100.0 | 2,086.4 | 2,094.6 | 2,073.5 | 6.0 | 6.9 | 0.99 | 4.8 | -290.7 | 85.4 | 75.8 | 9.66 | 8.839 | |
| 2,200.0 | 2,185.4 | 2,194.6 | 2,172.1 | 6.4 | 7.3 | 1.00 | 5.1 | -307.0 | 88.0 | 77.9 | 10.16 | 8.664 | |
| 2,300.0 | 2,284.5 | 2,294.5 | 2,270.7 | 6.7 | 7.7 | 1.01 | 5.3 | -323.3 | 90.6 | 80.0 | 10.65 | 8.505 | |
| 2,400.0 | 2,383.5 | 2,394.5 | 2,369.3 | 7.1 | 8.1 | 1.02 | 5.6 | -339.6 | 93.2 | 82.1 | 11.15 | 8.359 | |
| 2,500.0 | 2,482.6 | 2,494.5 | 2,468.0 | 7.4 | 8.5 | 1.03 | 5.8 | -355.9 | 95.8 | 84.2 | 11.64 | 8.226 | |
| 2,600.0 | 2,581.6 | 2,594.4 | 2,566.6 | 7.7 | 8.9 | 1.03 | 6.1 | -372.2 | 98.4 | 86.2 | 12.14 | 8.104 | |
| 2,700.0 | 2,680.7 | 2,694.4 | 2,665.2 | 8.1 | 9.2 | 1.04 | 6.3 | -388.5 | 101.0 | 88.3 | 12.64 | 7.991 | |
| 2,800.0 | 2,779.7 | 2,794.4 | 2,763.9 | 8.4 | 9.6 | 1.05 | 6.6 | -404.8 | 103.6 | 90.4 | 13.13 | 7.887 | |
| 2,900.0 | 2,878.8 | 2,894.3 | 2,862.5 | 8.8 | 10.0 | 1.05 | 6.8 | -421.1 | 106.2 | 92.5 | 13.63 | 7.790 | |
| 3,000.0 | 2,977.8 | 2,994.3 | 2,961.1 | 9.1 | 10.4 | 1.06 | 7.1 | -437.4 | 108.8 | 94.6 | 14.13 | 7.699 | |
| 3,100.0 | 3,076.9 | 3,094.3 | 3,059.7 | 9.5 | 10.8 | 1.06 | 7.3 | -453.6 | 111.4 | 96.7 | 14.62 | 7.615 | |
| 3,200.0 | 3,175.9 | 3,194.2 | 3,158.4 | 9.8 | 11.2 | 1.07 | 7.5 | -469.9 | 114.0 | 98.8 | 15.12 | 7.537 | |
| 3,300.0 | 3,275.0 | 3,294.2 | 3,257.0 | 10.2 | 11.6 | 1.08 | 7.8 | -486.2 | 116.6 | 100.9 | 15.62 | 7.463 | |
| 3,400.0 | 3,374.1 | 3,394.2 | 3,355.6 | 10.5 | 12.0 | 1.08 | 8.0 | -502.5 | 119.1 | 103.0 | 16.11 | 7.394 | |
| 3,500.0 | 3,473.1 | 3,494.1 | 3,454.3 | 10.9 | 12.3 | 1.09 | 8.3 | -518.8 | 121.7 | 105.1 | 16.61 | 7.329 | |
| 3,600.0 | 3,572.2 | 3,594.1 | 3,552.9 | 11.2 | 12.7 | 1.09 | 8.5 | -535.1 | 124.3 | 107.2 | 17.11 | 7.267 | |
| 3,700.0 | 3,671.2 | 3,694.1 | 3,651.5 | 11.5 | 13.1 | 1.09 | 8.8 | -551.4 | 126.9 | 109.3 | 17.61 | 7.209 | |
| 3,800.0 | 3,770.3 | 3,794.0 | 3,750.1 | 11.9 | 13.5 | 1.10 | 9.0 | -567.7 | 129.5 | 111.4 | 18.10 | 7.155 | |
| 3,900.0 | 3,869.3 | 3,894.0 | 3,848.8 | 12.2 | 13.9 | 1.10 | 9.3 | -584.0 | 132.1 | 113.5 | 18.60 | 7.103 | |
| 4,000.0 | 3,968.4 | 3,994.0 | 3,947.4 | 12.6 | 14.3 | 1.11 | 9.5 | -600.3 | 134.7 | 115.6 | 19.10 | 7.054 | |
| 4,100.0 | 4,067.4 | 4,093.9 | 4,046.0 | 12.9 | 14.7 | 1.11 | 9.8 | -616.6 | 137.3 | 117.7 | 19.60 | 7.007 | |
| 4,200.0 | 4,166.5 | 4,193.9 | 4,144.7 | 13.3 | 15.0 | 1.11 | 10.0 | -632.9 | 139.9 | 119.8 | 20.09 | 6.962 | |
| 4,300.0 | 4,265.5 | 4,293.9 | 4,243.3 | 13.6 | 15.4 | 1.12 | 10.3 | -649.2 | 142.5 | 121.9 | 20.59 | 6.920 | |
| 4,400.0 | 4,364.6 | 4,393.8 | 4,341.9 | 14.0 | 15.8 | 1.12 | 10.5 | -665.5 | 145.1 | 124.0 | 21.09 | 6.880 | |
| 4,500.0 | 4,463.6 | 4,493.8 | 4,440.5 | 14.3 | 16.2 | 1.12 | 10.8 | -681.8 | 147.7 | 126.1 | 21.59 | 6.842 | |
| 4,600.0 | 4,562.7 | 4,593.8 | 4,539.2 | 14.7 | 16.6 | 1.13 | 11.0 | -698.1 | 150.3 | 128.2 | 22.08 | 6.805 | |
| 4,700.0 | 4,661.7 | 4,693.7 | 4,637.8 | 15.0 | 17.0 | 1.13 | 11.2 | -714.4 | 152.9 | 130.3 | 22.58 | 6.770 | |
| 4,800.0 | 4,760.8 | 4,793.7 | 4,736.4 | 15.4 | 17.4 | 1.13 | 11.5 | -730.7 | 155.5 | 132.4 | 23.08 | 6.736 | |
| 4,900.0 | 4,859.8 | 4,893.7 | 4,835.1 | 15.7 | 17.8 | 1.14 | 11.7 | -747.0 | 158.1 | 134.5 | 23.58 | 6.704 | |
| 5,000.0 | 4,958.9 | 4,993.6 | 4,933.7 | 16.0 | 18.1 | 1.14 | 12.0 | -763.3 | 160.7 | 136.6 | 24.08 | 6.673 | |

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

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 34-15-22CHZ - Wellbore #1 - Plan #1 (5-6-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 5,057.9 | 5,093.6 | 5,032.3 | 16.4 | 18.5 | 1.14 | 12.2 | -779.6 | 163.3 | 138.7 | 24.57 | 6.643 | |
| 5,200.0 | 5,157.0 | 5,193.6 | 5,130.9 | 16.7 | 18.9 | 1.14 | 12.5 | -795.9 | 165.9 | 140.8 | 25.07 | 6.615 | |
| 5,300.0 | 5,256.0 | 5,293.5 | 5,229.6 | 17.1 | 19.3 | 1.15 | 12.7 | -812.1 | 168.4 | 142.9 | 25.57 | 6.588 | |
| 5,400.0 | 5,355.1 | 5,393.5 | 5,328.2 | 17.4 | 19.7 | 1.15 | 13.0 | -828.4 | 171.0 | 145.0 | 26.07 | 6.561 | |
| 5,500.0 | 5,454.1 | 5,493.5 | 5,426.8 | 17.8 | 20.1 | 1.15 | 13.2 | -844.7 | 173.6 | 147.1 | 26.57 | 6.536 | |
| 5,600.0 | 5,553.2 | 5,593.4 | 5,525.5 | 18.1 | 20.5 | 1.15 | 13.5 | -861.0 | 176.2 | 149.2 | 27.06 | 6.512 | |
| 5,700.0 | 5,652.2 | 5,693.4 | 5,624.1 | 18.5 | 20.8 | 1.16 | 13.7 | -877.3 | 178.8 | 151.3 | 27.56 | 6.488 | |
| 5,800.0 | 5,751.3 | 5,793.4 | 5,722.7 | 18.8 | 21.2 | 1.16 | 14.0 | -893.6 | 181.4 | 153.4 | 28.06 | 6.465 | |
| 5,900.0 | 5,850.3 | 5,893.3 | 5,821.4 | 19.2 | 21.6 | 1.16 | 14.2 | -909.9 | 184.0 | 155.5 | 28.56 | 6.444 | |
| 6,000.0 | 5,949.4 | 5,993.3 | 5,920.0 | 19.5 | 22.0 | 1.16 | 14.5 | -926.2 | 186.9 | 157.9 | 29.04 | 6.437 | |
| 6,100.0 | 6,048.9 | 6,093.1 | 6,018.5 | 19.7 | 22.4 | 1.15 | 14.7 | -942.5 | 192.8 | 163.3 | 29.45 | 6.547 | |
| 6,200.0 | 6,148.6 | 6,199.1 | 6,123.2 | 19.9 | 22.7 | 1.12 | 14.9 | -958.3 | 200.8 | 171.0 | 29.80 | 6.736 | |
| 6,300.0 | 6,248.6 | 6,306.5 | 6,229.9 | 20.0 | 23.0 | 1.09 | 15.1 | -970.4 | 208.5 | 178.5 | 30.08 | 6.932 | |
| 6,400.0 | 6,348.6 | 6,414.2 | 6,337.3 | 20.2 | 23.2 | -88.28 | 15.3 | -978.6 | 215.6 | 185.2 | 30.40 | 7.094 | |
| 6,500.0 | 6,448.6 | 6,522.3 | 6,445.4 | 20.3 | 23.3 | -88.30 | 15.3 | -982.7 | 219.4 | 188.7 | 30.76 | 7.133 | |
| 6,600.0 | 6,548.6 | 6,626.5 | 6,549.6 | 20.5 | 23.5 | 92.02 | 15.3 | -983.2 | 219.9 | 188.8 | 31.12 | 7.066 | |
| 6,700.0 | 6,647.9 | 6,725.9 | 6,648.9 | 20.6 | 23.6 | 94.66 | 15.3 | -983.2 | 220.5 | 189.0 | 31.54 | 6.992 | |
| 6,800.0 | 6,744.9 | 6,822.8 | 6,745.9 | 20.7 | 23.7 | 100.38 | 15.3 | -983.2 | 223.8 | 191.7 | 32.16 | 6.959 | |
| 6,900.0 | 6,837.5 | 6,921.0 | 6,844.0 | 20.9 | 23.8 | 108.25 | 13.6 | -983.2 | 233.3 | 200.2 | 33.02 | 7.064 | |
| 7,000.0 | 6,924.1 | 7,028.5 | 6,950.2 | 21.1 | 24.0 | 116.01 | -2.0 | -983.1 | 248.1 | 214.4 | 33.70 | 7.362 | |
| 7,100.0 | 7,002.9 | 7,143.3 | 7,059.8 | 21.3 | 24.1 | 122.76 | -35.9 | -983.0 | 266.5 | 232.7 | 33.82 | 7.879 | |
| 7,200.0 | 7,072.3 | 7,266.5 | 7,169.7 | 21.6 | 24.3 | 128.44 | -91.3 | -982.8 | 286.5 | 253.2 | 33.26 | 8.613 | |
| 7,300.0 | 7,131.0 | 7,398.9 | 7,275.3 | 22.0 | 24.6 | 133.03 | -170.7 | -982.5 | 306.1 | 274.0 | 32.11 | 9.535 | |
| 7,400.0 | 7,178.0 | 7,540.5 | 7,370.1 | 22.5 | 24.9 | 136.55 | -275.7 | -982.1 | 323.6 | 293.0 | 30.62 | 10.568 | |
| 7,500.0 | 7,212.2 | 7,690.7 | 7,446.0 | 23.1 | 25.5 | 139.01 | -404.9 | -981.6 | 337.1 | 308.0 | 29.14 | 11.571 | |
| 7,600.0 | 7,233.0 | 7,847.3 | 7,494.7 | 23.9 | 26.4 | 140.41 | -553.5 | -981.1 | 345.3 | 317.3 | 28.04 | 12.316 | |
| 7,700.0 | 7,240.0 | 8,002.9 | 7,510.0 | 24.9 | 27.6 | 140.75 | -708.0 | -980.5 | 347.3 | 319.7 | 27.64 | 12.565 | |
| 7,744.8 | 7,240.0 | 8,047.6 | 7,510.0 | 25.3 | 28.0 | 140.75 | -752.8 | -980.3 | 347.3 | 319.0 | 28.35 | 12.250 | |
| 7,800.0 | 7,240.0 | 8,102.9 | 7,510.0 | 25.9 | 28.5 | 140.76 | -808.0 | -980.1 | 347.3 | 318.1 | 29.23 | 11.883 | |
| 7,900.0 | 7,240.0 | 8,202.9 | 7,510.0 | 27.1 | 29.5 | 140.76 | -908.0 | -979.7 | 347.3 | 316.4 | 30.98 | 11.213 | |
| 8,000.0 | 7,240.0 | 8,302.9 | 7,510.0 | 28.3 | 30.7 | 140.76 | -1,008.0 | -979.3 | 347.3 | 314.5 | 32.85 | 10.574 | |
| 8,100.0 | 7,240.0 | 8,402.9 | 7,510.0 | 29.7 | 31.9 | 140.76 | -1,108.0 | -979.0 | 347.3 | 312.5 | 34.83 | 9.973 | |
| 8,200.0 | 7,240.0 | 8,502.9 | 7,510.0 | 31.1 | 33.2 | 140.76 | -1,208.0 | -978.6 | 347.3 | 310.4 | 36.89 | 9.414 | |
| 8,300.0 | 7,240.0 | 8,602.9 | 7,510.0 | 32.5 | 34.5 | 140.76 | -1,308.0 | -978.2 | 347.3 | 308.3 | 39.04 | 8.897 | |
| 8,400.0 | 7,240.0 | 8,702.9 | 7,510.0 | 34.0 | 35.9 | 140.76 | -1,408.0 | -977.8 | 347.3 | 306.1 | 41.25 | 8.421 | |
| 8,500.0 | 7,240.0 | 8,802.9 | 7,510.0 | 35.5 | 37.4 | 140.76 | -1,508.0 | -977.4 | 347.3 | 303.8 | 43.51 | 7.983 | |
| 8,600.0 | 7,240.0 | 8,902.9 | 7,510.0 | 37.1 | 38.9 | 140.76 | -1,608.0 | -977.1 | 347.3 | 301.5 | 45.82 | 7.580 | |
| 8,700.0 | 7,240.0 | 9,002.9 | 7,510.0 | 38.7 | 40.4 | 140.76 | -1,708.0 | -976.7 | 347.3 | 299.1 | 48.17 | 7.211 | |
| 8,800.0 | 7,240.0 | 9,102.9 | 7,510.0 | 40.4 | 42.0 | 140.76 | -1,808.0 | -976.3 | 347.3 | 296.8 | 50.55 | 6.871 | |
| 8,900.0 | 7,240.0 | 9,202.9 | 7,510.0 | 42.0 | 43.6 | 140.76 | -1,908.0 | -975.9 | 347.3 | 294.4 | 52.96 | 6.558 | |
| 9,000.0 | 7,240.0 | 9,302.9 | 7,510.0 | 43.7 | 45.2 | 140.76 | -2,008.0 | -975.6 | 347.3 | 291.9 | 55.40 | 6.270 | |
| 9,100.0 | 7,240.0 | 9,402.9 | 7,510.0 | 45.4 | 46.8 | 140.76 | -2,108.0 | -975.2 | 347.3 | 289.4 | 57.85 | 6.003 | |
| 9,200.0 | 7,240.0 | 9,502.9 | 7,510.0 | 47.2 | 48.5 | 140.76 | -2,208.0 | -974.8 | 347.3 | 287.0 | 60.33 | 5.756 | |
| 9,300.0 | 7,240.0 | 9,602.9 | 7,510.0 | 48.9 | 50.2 | 140.76 | -2,308.0 | -974.4 | 347.3 | 284.5 | 62.83 | 5.528 | |
| 9,400.0 | 7,240.0 | 9,702.9 | 7,510.0 | 50.6 | 51.9 | 140.77 | -2,408.0 | -974.0 | 347.3 | 282.0 | 65.34 | 5.315 | |
| 9,500.0 | 7,240.0 | 9,802.9 | 7,510.0 | 52.4 | 53.6 | 140.77 | -2,508.0 | -973.7 | 347.3 | 279.4 | 67.86 | 5.117 | |
| 9,600.0 | 7,240.0 | 9,902.9 | 7,510.0 | 54.2 | 55.4 | 140.77 | -2,608.0 | -973.3 | 347.3 | 276.9 | 70.40 | 4.933 | |
| 9,700.0 | 7,240.0 | 10,002.9 | 7,510.0 | 56.0 | 57.1 | 140.77 | -2,708.0 | -972.9 | 347.3 | 274.3 | 72.95 | 4.761 | |
| 9,800.0 | 7,240.0 | 10,102.9 | 7,510.0 | 57.8 | 58.9 | 140.77 | -2,808.0 | -972.5 | 347.3 | 271.8 | 75.50 | 4.599 | |
| 9,900.0 | 7,240.0 | 10,202.9 | 7,510.0 | 59.6 | 60.6 | 140.77 | -2,908.0 | -972.2 | 347.3 | 269.2 | 78.07 | 4.448 | |
| 10,000.0 | 7,240.0 | 10,302.9 | 7,510.0 | 61.4 | 62.4 | 140.77 | -3,008.0 | -971.8 | 347.3 | 266.6 | 80.64 | 4.306 | |
| 10,100.0 | 7,240.0 | 10,402.9 | 7,510.0 | 63.2 | 64.2 | 140.77 | -3,108.0 | -971.4 | 347.3 | 264.0 | 83.23 | 4.173 | |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 34-15-22CHZ - Wellbore #1 - Plan #1 (5-6-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,200.0 | 7,240.0 | 10,502.9 | 7,510.0 | 65.0 | 66.0 | 140.77 | -3,208.0 | -971.0 | 347.3 | 261.5 | 85.81 | 4.047 | |
| 10,300.0 | 7,240.0 | 10,602.9 | 7,510.0 | 66.8 | 67.8 | 140.77 | -3,308.0 | -970.6 | 347.3 | 258.9 | 88.41 | 3.928 | |
| 10,400.0 | 7,240.0 | 10,702.9 | 7,510.0 | 68.7 | 69.6 | 140.77 | -3,408.0 | -970.3 | 347.3 | 256.3 | 91.00 | 3.816 | |
| 10,500.0 | 7,240.0 | 10,802.9 | 7,510.0 | 70.5 | 71.4 | 140.77 | -3,508.0 | -969.9 | 347.3 | 253.7 | 93.61 | 3.710 | |
| 10,600.0 | 7,240.0 | 10,902.9 | 7,510.0 | 72.3 | 73.2 | 140.77 | -3,608.0 | -969.5 | 347.3 | 251.0 | 96.22 | 3.609 | |
| 10,700.0 | 7,240.0 | 11,002.9 | 7,510.0 | 74.2 | 75.1 | 140.77 | -3,708.0 | -969.1 | 347.3 | 248.4 | 98.83 | 3.514 | |
| 10,800.0 | 7,240.0 | 11,102.9 | 7,510.0 | 76.0 | 76.9 | 140.77 | -3,808.0 | -968.8 | 347.3 | 245.8 | 101.45 | 3.423 | |
| 10,900.0 | 7,240.0 | 11,202.9 | 7,510.0 | 77.9 | 78.7 | 140.77 | -3,908.0 | -968.4 | 347.2 | 243.2 | 104.07 | 3.337 | |
| 11,000.0 | 7,240.0 | 11,302.9 | 7,510.0 | 79.8 | 80.6 | 140.77 | -4,008.0 | -968.0 | 347.2 | 240.6 | 106.69 | 3.255 | |
| 11,100.0 | 7,240.0 | 11,402.9 | 7,510.0 | 81.6 | 82.4 | 140.78 | -4,108.0 | -967.6 | 347.2 | 237.9 | 109.32 | 3.176 | |
| 11,200.0 | 7,240.0 | 11,502.9 | 7,510.0 | 83.5 | 84.3 | 140.78 | -4,208.0 | -967.2 | 347.2 | 235.3 | 111.95 | 3.102 | |
| 11,300.0 | 7,240.0 | 11,602.9 | 7,510.0 | 85.3 | 86.1 | 140.78 | -4,308.0 | -966.9 | 347.2 | 232.7 | 114.58 | 3.031 | |
| 11,400.0 | 7,240.0 | 11,702.9 | 7,510.0 | 87.2 | 88.0 | 140.78 | -4,408.0 | -966.5 | 347.2 | 230.0 | 117.21 | 2.962 | |
| 11,500.0 | 7,240.0 | 11,802.9 | 7,510.0 | 89.1 | 89.8 | 140.78 | -4,508.0 | -966.1 | 347.2 | 227.4 | 119.85 | 2.897 | |
| 11,507.1 | 7,240.0 | 11,810.0 | 7,510.0 | 89.2 | 90.0 | 140.78 | -4,515.0 | -966.1 | 347.2 | 227.2 | 120.04 | 2.893 | |
| 11,509.0 | 7,240.0 | 11,810.0 | 7,510.0 | 89.3 | 90.0 | 140.78 | -4,515.0 | -966.1 | 347.2 | 227.2 | 120.06 | 2.892 | SF |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 44-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) — **Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD — **Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.67 | -2.9 | 100.0 | 100.1 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 91.67 | -2.9 | 100.0 | 100.1 | 99.8 | 0.22 | 445.182 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 91.67 | -2.9 | 100.0 | 100.1 | 99.4 | 0.67 | 148.394 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | 91.67 | -2.9 | 100.0 | 100.1 | 98.9 | 1.12 | 89.036 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 91.67 | -2.9 | 100.0 | 100.1 | 98.5 | 1.57 | 63.597 | CC, ES |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -179.01 | -2.9 | 100.0 | 101.8 | 99.8 | 2.01 | 50.563 | |
| 600.0 | 599.8 | 599.8 | 599.8 | 1.2 | 1.2 | -179.05 | -2.9 | 100.0 | 107.0 | 104.6 | 2.45 | 43.693 | |
| 700.0 | 699.5 | 699.5 | 699.5 | 1.5 | 1.5 | -179.12 | -2.9 | 100.0 | 115.8 | 112.9 | 2.89 | 40.035 | |
| 800.0 | 798.7 | 798.7 | 798.7 | 1.7 | 1.7 | -179.20 | -2.9 | 100.0 | 127.9 | 124.6 | 3.34 | 38.358 | |
| 900.0 | 897.8 | 893.1 | 893.1 | 2.0 | 1.9 | -179.23 | -3.1 | 101.5 | 143.3 | 139.5 | 3.76 | 38.083 | SF |
| 1,000.0 | 996.8 | 986.4 | 986.3 | 2.3 | 2.1 | -179.18 | -3.5 | 106.1 | 161.8 | 157.6 | 4.19 | 38.632 | |
| 1,100.0 | 1,095.9 | 1,081.7 | 1,081.3 | 2.7 | 2.3 | -179.08 | -4.2 | 113.3 | 183.0 | 178.4 | 4.62 | 39.586 | |
| 1,200.0 | 1,194.9 | 1,179.4 | 1,178.7 | 3.0 | 2.5 | -179.00 | -4.9 | 121.0 | 204.6 | 199.5 | 5.06 | 40.467 | |
| 1,300.0 | 1,294.0 | 1,277.0 | 1,276.0 | 3.3 | 2.7 | -178.93 | -5.6 | 128.8 | 226.2 | 220.7 | 5.49 | 41.173 | |
| 1,400.0 | 1,393.0 | 1,374.7 | 1,373.3 | 3.6 | 3.0 | -178.87 | -6.3 | 136.5 | 247.7 | 241.8 | 5.93 | 41.742 | |
| 1,500.0 | 1,492.1 | 1,472.3 | 1,470.7 | 4.0 | 3.2 | -178.82 | -7.1 | 144.3 | 269.3 | 262.9 | 6.38 | 42.209 | |
| 1,600.0 | 1,591.1 | 1,570.0 | 1,568.0 | 4.3 | 3.5 | -178.78 | -7.8 | 152.0 | 290.8 | 284.0 | 6.83 | 42.598 | |
| 1,700.0 | 1,690.2 | 1,667.6 | 1,665.4 | 4.7 | 3.7 | -178.74 | -8.5 | 159.7 | 312.4 | 305.1 | 7.28 | 42.919 | |
| 1,800.0 | 1,789.2 | 1,765.3 | 1,762.7 | 5.0 | 3.9 | -178.71 | -9.3 | 167.5 | 333.9 | 326.2 | 7.73 | 43.198 | |
| 1,900.0 | 1,888.3 | 1,862.9 | 1,860.0 | 5.3 | 4.2 | -178.69 | -10.0 | 175.2 | 355.5 | 347.3 | 8.18 | 43.435 | |
| 2,000.0 | 1,987.3 | 1,960.6 | 1,957.4 | 5.7 | 4.5 | -178.66 | -10.7 | 182.9 | 377.1 | 368.4 | 8.64 | 43.641 | |
| 2,100.0 | 2,086.4 | 2,058.2 | 2,054.7 | 6.0 | 4.7 | -178.64 | -11.4 | 190.7 | 398.6 | 389.5 | 9.10 | 43.820 | |
| 2,200.0 | 2,185.4 | 2,155.9 | 2,152.0 | 6.4 | 5.0 | -178.62 | -12.2 | 198.4 | 420.2 | 410.6 | 9.55 | 43.977 | |
| 2,300.0 | 2,284.5 | 2,253.5 | 2,249.4 | 6.7 | 5.2 | -178.60 | -12.9 | 206.1 | 441.7 | 431.7 | 10.01 | 44.115 | |
| 2,400.0 | 2,383.5 | 2,351.2 | 2,346.7 | 7.1 | 5.5 | -178.59 | -13.6 | 213.9 | 463.3 | 452.8 | 10.47 | 44.238 | |
| 2,500.0 | 2,482.6 | 2,448.8 | 2,444.1 | 7.4 | 5.7 | -178.57 | -14.3 | 221.6 | 484.9 | 473.9 | 10.93 | 44.348 | |
| 2,600.0 | 2,581.6 | 2,546.5 | 2,541.4 | 7.7 | 6.0 | -178.56 | -15.1 | 229.4 | 506.4 | 495.0 | 11.39 | 44.447 | |
| 2,700.0 | 2,680.7 | 2,644.1 | 2,638.7 | 8.1 | 6.2 | -178.55 | -15.8 | 237.1 | 528.0 | 516.1 | 11.86 | 44.536 | |
| 2,800.0 | 2,779.7 | 2,741.8 | 2,736.1 | 8.4 | 6.5 | -178.54 | -16.5 | 244.8 | 549.5 | 537.2 | 12.32 | 44.616 | |
| 2,900.0 | 2,878.8 | 2,839.4 | 2,833.4 | 8.8 | 6.8 | -178.53 | -17.3 | 252.6 | 571.1 | 558.3 | 12.78 | 44.689 | |
| 3,000.0 | 2,977.8 | 2,937.0 | 2,930.8 | 9.1 | 7.0 | -178.52 | -18.0 | 260.3 | 592.7 | 579.4 | 13.24 | 44.756 | |
| 3,100.0 | 3,076.9 | 3,034.7 | 3,028.1 | 9.5 | 7.3 | -178.51 | -18.7 | 268.0 | 614.2 | 600.5 | 13.71 | 44.817 | |
| 3,200.0 | 3,175.9 | 3,132.3 | 3,125.4 | 9.8 | 7.5 | -178.50 | -19.4 | 275.8 | 635.8 | 621.6 | 14.17 | 44.873 | |
| 3,300.0 | 3,275.0 | 3,230.0 | 3,222.8 | 10.2 | 7.8 | -178.49 | -20.2 | 283.5 | 657.3 | 642.7 | 14.63 | 44.924 | |
| 3,400.0 | 3,374.1 | 3,327.6 | 3,320.1 | 10.5 | 8.1 | -178.48 | -20.9 | 291.3 | 678.9 | 663.8 | 15.10 | 44.972 | |
| 3,500.0 | 3,473.1 | 3,425.3 | 3,417.4 | 10.9 | 8.3 | -178.48 | -21.6 | 299.0 | 700.5 | 684.9 | 15.56 | 45.016 | |
| 3,600.0 | 3,572.2 | 3,522.9 | 3,514.8 | 11.2 | 8.6 | -178.47 | -22.3 | 306.7 | 722.0 | 706.0 | 16.03 | 45.056 | |
| 3,700.0 | 3,671.2 | 3,620.6 | 3,612.1 | 11.5 | 8.8 | -178.47 | -23.1 | 314.5 | 743.6 | 727.1 | 16.49 | 45.094 | |
| 3,800.0 | 3,770.3 | 3,718.2 | 3,709.5 | 11.9 | 9.1 | -178.46 | -23.8 | 322.2 | 765.2 | 748.2 | 16.95 | 45.129 | |
| 3,900.0 | 3,869.3 | 3,829.1 | 3,820.0 | 12.2 | 9.4 | -178.46 | -24.6 | 330.6 | 786.4 | 769.0 | 17.43 | 45.117 | |
| 4,000.0 | 3,968.4 | 3,965.3 | 3,956.0 | 12.6 | 9.6 | -178.47 | -25.1 | 335.9 | 804.0 | 786.1 | 17.92 | 44.867 | |
| 4,100.0 | 4,067.4 | 4,076.6 | 4,067.4 | 12.9 | 9.8 | -178.50 | -25.1 | 336.2 | 818.0 | 799.6 | 18.38 | 44.513 | |
| 4,200.0 | 4,166.5 | 4,175.7 | 4,166.5 | 13.3 | 10.0 | -178.52 | -25.1 | 336.2 | 831.7 | 812.9 | 18.82 | 44.197 | |
| 4,300.0 | 4,265.5 | 4,274.7 | 4,265.5 | 13.6 | 10.2 | -178.55 | -25.1 | 336.2 | 845.5 | 826.2 | 19.26 | 43.890 | |
| 4,400.0 | 4,364.6 | 4,373.8 | 4,364.6 | 14.0 | 10.4 | -178.57 | -25.1 | 336.2 | 859.2 | 839.5 | 19.71 | 43.595 | |
| 4,500.0 | 4,463.6 | 4,472.8 | 4,463.6 | 14.3 | 10.6 | -178.59 | -25.1 | 336.2 | 872.9 | 852.8 | 20.15 | 43.311 | |
| 4,600.0 | 4,562.7 | 4,571.9 | 4,562.7 | 14.7 | 10.8 | -178.61 | -25.1 | 336.2 | 886.7 | 866.1 | 20.60 | 43.037 | |
| 4,700.0 | 4,661.7 | 4,670.9 | 4,661.7 | 15.0 | 11.0 | -178.64 | -25.1 | 336.2 | 900.4 | 879.3 | 21.05 | 42.773 | |
| 4,800.0 | 4,760.8 | 4,770.0 | 4,760.8 | 15.4 | 11.1 | -178.66 | -25.1 | 336.2 | 914.1 | 892.6 | 21.50 | 42.519 | |
| 4,900.0 | 4,859.8 | 4,869.0 | 4,859.8 | 15.7 | 11.3 | -178.68 | -25.1 | 336.2 | 927.9 | 905.9 | 21.95 | 42.273 | |
| 5,000.0 | 4,958.9 | 4,968.1 | 4,958.9 | 16.0 | 11.5 | -178.70 | -25.1 | 336.2 | 941.6 | 919.2 | 22.40 | 42.037 | |
| 5,100.0 | 5,057.9 | 5,067.1 | 5,057.9 | 16.4 | 11.7 | -178.71 | -25.1 | 336.2 | 955.3 | 932.5 | 22.85 | 41.808 | |

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

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 44-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.0 | 5,157.0 | 5,166.2 | 5,157.0 | 16.7 | 11.9 | -178.73 | -25.1 | 336.2 | 969.1 | 945.8 | 23.30 | 41.587 | |
| 5,300.0 | 5,256.0 | 5,265.2 | 5,256.0 | 17.1 | 12.1 | -178.75 | -25.1 | 336.2 | 982.8 | 959.0 | 23.75 | 41.374 | |
| 5,400.0 | 5,355.1 | 5,364.3 | 5,355.1 | 17.4 | 12.3 | -178.77 | -25.1 | 336.2 | 996.5 | 972.3 | 24.21 | 41.167 | |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies 44-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.57 | -3.3 | 119.7 | 119.8 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 91.57 | -3.3 | 119.7 | 119.8 | 119.6 | 0.22 | 532.955 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 91.57 | -3.3 | 119.7 | 119.8 | 119.1 | 0.67 | 177.652 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | 91.57 | -3.3 | 119.7 | 119.8 | 118.7 | 1.12 | 106.591 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 91.57 | -3.3 | 119.7 | 119.8 | 118.2 | 1.57 | 76.136 | CC, ES |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -179.10 | -3.3 | 119.7 | 121.5 | 119.5 | 2.01 | 60.361 | |
| 600.0 | 599.8 | 599.8 | 599.8 | 1.2 | 1.2 | -179.14 | -3.3 | 119.7 | 126.8 | 124.3 | 2.45 | 51.746 | |
| 700.0 | 699.5 | 694.9 | 694.9 | 1.5 | 1.4 | -179.16 | -3.4 | 121.3 | 137.1 | 134.3 | 2.87 | 47.709 | |
| 800.0 | 798.7 | 788.7 | 788.6 | 1.7 | 1.6 | -179.15 | -3.7 | 125.9 | 154.2 | 150.9 | 3.30 | 46.678 | SF |
| 900.0 | 897.8 | 881.0 | 880.5 | 2.0 | 1.8 | -179.11 | -4.2 | 133.5 | 176.0 | 172.3 | 3.73 | 47.164 | |
| 1,000.0 | 996.8 | 976.5 | 975.6 | 2.3 | 2.1 | -179.06 | -4.9 | 143.5 | 200.1 | 195.9 | 4.17 | 48.003 | |
| 1,100.0 | 1,095.9 | 1,073.6 | 1,072.1 | 2.7 | 2.3 | -179.01 | -5.5 | 153.8 | 224.2 | 219.6 | 4.60 | 48.712 | |
| 1,200.0 | 1,194.9 | 1,170.6 | 1,168.5 | 3.0 | 2.6 | -178.97 | -6.2 | 164.1 | 248.4 | 243.4 | 5.04 | 49.263 | |
| 1,300.0 | 1,294.0 | 1,267.7 | 1,265.0 | 3.3 | 2.9 | -178.94 | -6.9 | 174.4 | 272.6 | 267.1 | 5.49 | 49.681 | |
| 1,400.0 | 1,393.0 | 1,364.7 | 1,361.5 | 3.6 | 3.1 | -178.92 | -7.6 | 184.7 | 296.8 | 290.8 | 5.93 | 50.004 | |
| 1,500.0 | 1,492.1 | 1,461.7 | 1,458.0 | 4.0 | 3.4 | -178.90 | -8.2 | 194.9 | 320.9 | 314.5 | 6.39 | 50.261 | |
| 1,600.0 | 1,591.1 | 1,558.8 | 1,554.5 | 4.3 | 3.7 | -178.88 | -8.9 | 205.2 | 345.1 | 338.3 | 6.84 | 50.447 | |
| 1,700.0 | 1,690.2 | 1,655.8 | 1,651.0 | 4.7 | 4.0 | -178.86 | -9.6 | 215.5 | 369.3 | 362.0 | 7.30 | 50.619 | |
| 1,800.0 | 1,789.2 | 1,752.8 | 1,747.5 | 5.0 | 4.2 | -178.85 | -10.3 | 225.8 | 393.5 | 385.7 | 7.75 | 50.753 | |
| 1,900.0 | 1,888.3 | 1,849.9 | 1,843.9 | 5.3 | 4.5 | -178.84 | -11.0 | 236.1 | 417.6 | 409.4 | 8.21 | 50.862 | |
| 2,000.0 | 1,987.3 | 1,946.9 | 1,940.4 | 5.7 | 4.8 | -178.82 | -11.6 | 246.4 | 441.8 | 433.1 | 8.67 | 50.953 | |
| 2,100.0 | 2,086.4 | 2,043.9 | 2,036.9 | 6.0 | 5.1 | -178.81 | -12.3 | 256.7 | 466.0 | 456.8 | 9.13 | 51.029 | |
| 2,200.0 | 2,185.4 | 2,141.0 | 2,133.4 | 6.4 | 5.4 | -178.81 | -13.0 | 266.9 | 490.1 | 480.6 | 9.59 | 51.093 | |
| 2,300.0 | 2,284.5 | 2,238.0 | 2,229.9 | 6.7 | 5.7 | -178.80 | -13.7 | 277.2 | 514.3 | 504.3 | 10.06 | 51.148 | |
| 2,400.0 | 2,383.5 | 2,335.0 | 2,326.4 | 7.1 | 5.9 | -178.79 | -14.4 | 287.5 | 538.5 | 528.0 | 10.52 | 51.194 | |
| 2,500.0 | 2,482.6 | 2,432.1 | 2,422.8 | 7.4 | 6.2 | -178.78 | -15.0 | 297.8 | 562.7 | 551.7 | 10.98 | 51.234 | |
| 2,600.0 | 2,581.6 | 2,529.1 | 2,519.3 | 7.7 | 6.5 | -178.78 | -15.7 | 308.1 | 586.8 | 575.4 | 11.45 | 51.268 | |
| 2,700.0 | 2,680.7 | 2,626.1 | 2,615.8 | 8.1 | 6.8 | -178.77 | -16.4 | 318.4 | 611.0 | 599.1 | 11.91 | 51.297 | |
| 2,800.0 | 2,779.7 | 2,723.2 | 2,712.3 | 8.4 | 7.1 | -178.77 | -17.1 | 328.6 | 635.2 | 622.8 | 12.38 | 51.323 | |
| 2,900.0 | 2,878.8 | 2,820.2 | 2,808.8 | 8.8 | 7.4 | -178.76 | -17.7 | 338.9 | 659.4 | 646.5 | 12.84 | 51.345 | |
| 3,000.0 | 2,977.8 | 2,917.2 | 2,905.3 | 9.1 | 7.7 | -178.76 | -18.4 | 349.2 | 683.5 | 670.2 | 13.31 | 51.364 | |
| 3,100.0 | 3,076.9 | 3,014.3 | 3,001.8 | 9.5 | 8.0 | -178.75 | -19.1 | 359.5 | 707.7 | 693.9 | 13.77 | 51.381 | |
| 3,200.0 | 3,175.9 | 3,111.3 | 3,098.2 | 9.8 | 8.3 | -178.75 | -19.8 | 369.8 | 731.9 | 717.6 | 14.24 | 51.396 | |
| 3,300.0 | 3,275.0 | 3,208.3 | 3,194.7 | 10.2 | 8.5 | -178.74 | -20.5 | 380.1 | 756.1 | 741.3 | 14.71 | 51.409 | |
| 3,400.0 | 3,374.1 | 3,305.4 | 3,291.2 | 10.5 | 8.8 | -178.74 | -21.1 | 390.4 | 780.2 | 765.1 | 15.17 | 51.420 | |
| 3,500.0 | 3,473.1 | 3,402.4 | 3,387.7 | 10.9 | 9.1 | -178.74 | -21.8 | 400.6 | 804.4 | 788.8 | 15.64 | 51.430 | |
| 3,600.0 | 3,572.2 | 3,499.4 | 3,484.2 | 11.2 | 9.4 | -178.73 | -22.5 | 410.9 | 828.6 | 812.5 | 16.11 | 51.439 | |
| 3,700.0 | 3,671.2 | 3,596.5 | 3,580.7 | 11.5 | 9.7 | -178.73 | -23.2 | 421.2 | 852.7 | 836.2 | 16.58 | 51.446 | |
| 3,800.0 | 3,770.3 | 3,693.5 | 3,677.2 | 11.9 | 10.0 | -178.73 | -23.9 | 431.5 | 876.9 | 859.9 | 17.04 | 51.453 | |
| 3,900.0 | 3,869.3 | 3,790.5 | 3,773.6 | 12.2 | 10.3 | -178.73 | -24.5 | 441.8 | 901.1 | 883.6 | 17.51 | 51.458 | |
| 4,000.0 | 3,968.4 | 3,887.6 | 3,870.1 | 12.6 | 10.6 | -178.72 | -25.2 | 452.1 | 925.3 | 907.3 | 17.98 | 51.463 | |
| 4,100.0 | 4,067.4 | 3,984.6 | 3,966.6 | 12.9 | 10.9 | -178.72 | -25.9 | 462.4 | 949.4 | 931.0 | 18.45 | 51.467 | |
| 4,200.0 | 4,166.5 | 4,081.6 | 4,063.1 | 13.3 | 11.2 | -178.72 | -26.6 | 472.6 | 973.6 | 954.7 | 18.92 | 51.471 | |
| 4,300.0 | 4,265.5 | 4,178.7 | 4,159.6 | 13.6 | 11.5 | -178.72 | -27.2 | 482.9 | 997.8 | 978.4 | 19.38 | 51.474 | |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) — **Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD — **Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.74 | -1.8 | 60.0 | 60.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 91.74 | -1.8 | 60.0 | 60.0 | 59.8 | 0.22 | 267.119 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 91.74 | -1.8 | 60.0 | 60.0 | 59.4 | 0.67 | 89.040 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | 91.74 | -1.8 | 60.0 | 60.0 | 58.9 | 1.12 | 53.424 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 91.74 | -1.8 | 60.0 | 60.0 | 58.5 | 1.57 | 38.160 | CC, ES |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -178.95 | -1.8 | 60.0 | 61.8 | 59.8 | 2.01 | 30.685 | |
| 600.0 | 599.8 | 599.8 | 599.8 | 1.2 | 1.2 | -179.03 | -1.8 | 60.0 | 67.0 | 64.6 | 2.45 | 27.356 | |
| 700.0 | 699.5 | 699.5 | 699.5 | 1.5 | 1.5 | -179.14 | -1.8 | 60.0 | 75.7 | 72.8 | 2.89 | 26.193 | |
| 800.0 | 798.7 | 798.7 | 798.7 | 1.7 | 1.7 | -179.26 | -1.8 | 60.0 | 87.9 | 84.6 | 3.34 | 26.359 | |
| 900.0 | 897.8 | 897.8 | 897.8 | 2.0 | 1.9 | -179.36 | -1.8 | 60.0 | 101.6 | 97.9 | 3.78 | 26.893 | |
| 1,000.0 | 996.8 | 996.8 | 996.8 | 2.3 | 2.1 | -179.43 | -1.8 | 60.0 | 115.4 | 111.2 | 4.23 | 27.285 | |
| 1,100.0 | 1,095.9 | 1,095.9 | 1,095.9 | 2.7 | 2.4 | -179.49 | -1.8 | 60.0 | 129.1 | 124.4 | 4.68 | 27.582 | |
| 1,200.0 | 1,194.9 | 1,194.9 | 1,194.9 | 3.0 | 2.6 | -179.54 | -1.8 | 60.0 | 142.9 | 137.7 | 5.14 | 27.813 | |
| 1,300.0 | 1,294.0 | 1,294.0 | 1,294.0 | 3.3 | 2.8 | -179.58 | -1.8 | 60.0 | 156.6 | 151.0 | 5.59 | 27.997 | |
| 1,400.0 | 1,393.0 | 1,393.0 | 1,393.0 | 3.6 | 3.0 | -179.62 | -1.8 | 60.0 | 170.3 | 164.3 | 6.05 | 28.147 | |
| 1,500.0 | 1,492.1 | 1,498.3 | 1,498.3 | 4.0 | 3.2 | -179.61 | -1.9 | 58.3 | 182.5 | 176.0 | 6.51 | 28.046 | |
| 1,600.0 | 1,591.1 | 1,604.2 | 1,604.1 | 4.3 | 3.5 | -179.50 | -2.3 | 52.8 | 191.0 | 184.1 | 6.95 | 27.486 | |
| 1,700.0 | 1,690.2 | 1,704.0 | 1,703.6 | 4.7 | 3.7 | -179.38 | -2.7 | 46.0 | 198.0 | 190.6 | 7.39 | 26.791 | |
| 1,800.0 | 1,789.2 | 1,803.7 | 1,803.1 | 5.0 | 3.9 | -179.27 | -3.1 | 39.2 | 205.0 | 197.2 | 7.84 | 26.161 | |
| 1,900.0 | 1,888.3 | 1,903.5 | 1,902.6 | 5.3 | 4.1 | -179.16 | -3.5 | 32.5 | 212.0 | 203.7 | 8.28 | 25.589 | |
| 2,000.0 | 1,987.3 | 2,003.3 | 2,002.2 | 5.7 | 4.3 | -179.06 | -3.9 | 25.7 | 219.0 | 210.3 | 8.74 | 25.067 | |
| 2,100.0 | 2,086.4 | 2,103.0 | 2,101.7 | 6.0 | 4.6 | -178.97 | -4.3 | 18.9 | 226.0 | 216.8 | 9.19 | 24.592 | |
| 2,200.0 | 2,185.4 | 2,202.8 | 2,201.2 | 6.4 | 4.8 | -178.88 | -4.7 | 12.1 | 233.0 | 223.3 | 9.65 | 24.155 | |
| 2,300.0 | 2,284.5 | 2,302.5 | 2,300.7 | 6.7 | 5.0 | -178.80 | -5.1 | 5.4 | 240.0 | 229.9 | 10.10 | 23.753 | |
| 2,400.0 | 2,383.5 | 2,402.3 | 2,400.3 | 7.1 | 5.3 | -178.72 | -5.5 | -1.4 | 247.0 | 236.4 | 10.56 | 23.383 | |
| 2,500.0 | 2,482.6 | 2,502.0 | 2,499.8 | 7.4 | 5.5 | -178.64 | -5.9 | -8.2 | 254.0 | 243.0 | 11.02 | 23.041 | |
| 2,600.0 | 2,581.6 | 2,601.8 | 2,599.3 | 7.7 | 5.7 | -178.57 | -6.3 | -14.9 | 261.0 | 249.5 | 11.48 | 22.724 | |
| 2,700.0 | 2,680.7 | 2,701.5 | 2,698.8 | 8.1 | 6.0 | -178.51 | -6.7 | -21.7 | 268.0 | 256.0 | 11.95 | 22.429 | |
| 2,800.0 | 2,779.7 | 2,801.3 | 2,798.3 | 8.4 | 6.2 | -178.44 | -7.1 | -28.5 | 275.0 | 262.6 | 12.41 | 22.155 | |
| 2,900.0 | 2,878.8 | 2,901.0 | 2,897.9 | 8.8 | 6.5 | -178.38 | -7.5 | -35.2 | 282.0 | 269.1 | 12.88 | 21.899 | |
| 3,000.0 | 2,977.8 | 3,000.8 | 2,997.4 | 9.1 | 6.7 | -178.33 | -7.9 | -42.0 | 289.0 | 275.6 | 13.34 | 21.659 | |
| 3,100.0 | 3,076.9 | 3,100.5 | 3,096.9 | 9.5 | 7.0 | -178.27 | -8.3 | -48.8 | 296.0 | 282.2 | 13.81 | 21.435 | |
| 3,200.0 | 3,175.9 | 3,200.3 | 3,196.4 | 9.8 | 7.2 | -178.22 | -8.7 | -55.6 | 303.0 | 288.7 | 14.27 | 21.224 | |
| 3,300.0 | 3,275.0 | 3,300.1 | 3,296.0 | 10.2 | 7.5 | -178.17 | -9.1 | -62.3 | 310.0 | 295.2 | 14.74 | 21.026 | |
| 3,400.0 | 3,374.1 | 3,399.8 | 3,395.5 | 10.5 | 7.7 | -178.12 | -9.6 | -69.1 | 317.0 | 301.8 | 15.21 | 20.839 | |
| 3,500.0 | 3,473.1 | 3,499.6 | 3,495.0 | 10.9 | 8.0 | -178.08 | -10.0 | -75.9 | 324.0 | 308.3 | 15.68 | 20.663 | |
| 3,600.0 | 3,572.2 | 3,599.3 | 3,594.5 | 11.2 | 8.2 | -178.04 | -10.4 | -82.6 | 331.0 | 314.8 | 16.15 | 20.496 | |
| 3,700.0 | 3,671.2 | 3,699.1 | 3,694.1 | 11.5 | 8.5 | -177.99 | -10.8 | -89.4 | 338.0 | 321.4 | 16.62 | 20.339 | |
| 3,800.0 | 3,770.3 | 3,798.8 | 3,793.6 | 11.9 | 8.7 | -177.95 | -11.2 | -96.2 | 345.0 | 327.9 | 17.09 | 20.189 | |
| 3,900.0 | 3,869.3 | 3,889.0 | 3,883.6 | 12.2 | 8.9 | -177.94 | -11.5 | -101.2 | 353.2 | 335.7 | 17.52 | 20.159 | |
| 4,000.0 | 3,968.4 | 3,977.3 | 3,971.9 | 12.6 | 9.1 | -177.97 | -11.6 | -103.5 | 364.4 | 346.5 | 17.93 | 20.320 | |
| 4,100.0 | 4,067.4 | 4,072.8 | 4,067.4 | 12.9 | 9.3 | -178.04 | -11.6 | -103.6 | 378.0 | 359.6 | 18.37 | 20.581 | |
| 4,200.0 | 4,166.5 | 4,171.9 | 4,166.5 | 13.3 | 9.5 | -178.11 | -11.6 | -103.6 | 391.7 | 372.9 | 18.82 | 20.820 | |
| 4,300.0 | 4,265.5 | 4,270.9 | 4,265.5 | 13.6 | 9.7 | -178.17 | -11.6 | -103.6 | 405.5 | 386.2 | 19.27 | 21.045 | |
| 4,400.0 | 4,364.6 | 4,370.0 | 4,364.6 | 14.0 | 9.9 | -178.23 | -11.6 | -103.6 | 419.2 | 399.5 | 19.72 | 21.259 | |
| 4,500.0 | 4,463.6 | 4,469.0 | 4,463.6 | 14.3 | 10.1 | -178.29 | -11.6 | -103.6 | 432.9 | 412.7 | 20.17 | 21.462 | |
| 4,600.0 | 4,562.7 | 4,568.1 | 4,562.7 | 14.7 | 10.3 | -178.34 | -11.6 | -103.6 | 446.7 | 426.0 | 20.62 | 21.656 | |
| 4,700.0 | 4,661.7 | 4,667.2 | 4,661.7 | 15.0 | 10.5 | -178.39 | -11.6 | -103.6 | 460.4 | 439.3 | 21.08 | 21.842 | |
| 4,800.0 | 4,760.8 | 4,766.2 | 4,760.8 | 15.4 | 10.7 | -178.44 | -11.6 | -103.6 | 474.1 | 452.6 | 21.53 | 22.018 | |
| 4,900.0 | 4,859.8 | 4,865.3 | 4,859.8 | 15.7 | 10.9 | -178.48 | -11.6 | -103.6 | 487.9 | 465.9 | 21.99 | 22.187 | |
| 5,000.0 | 4,958.9 | 4,964.3 | 4,958.9 | 16.0 | 11.1 | -178.52 | -11.6 | -103.6 | 501.6 | 479.1 | 22.44 | 22.349 | |
| 5,100.0 | 5,057.9 | 5,063.4 | 5,057.9 | 16.4 | 11.3 | -178.56 | -11.6 | -103.6 | 515.3 | 492.4 | 22.90 | 22.504 | |

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

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.0 | 5,157.0 | 5,162.4 | 5,157.0 | 16.7 | 11.5 | -178.60 | -11.6 | -103.6 | 529.1 | 505.7 | 23.36 | 22.652 | |
| 5,300.0 | 5,256.0 | 5,261.5 | 5,256.0 | 17.1 | 11.7 | -178.63 | -11.6 | -103.6 | 542.8 | 519.0 | 23.81 | 22.795 | |
| 5,400.0 | 5,355.1 | 5,360.5 | 5,355.1 | 17.4 | 11.9 | -178.67 | -11.6 | -103.6 | 556.5 | 532.3 | 24.27 | 22.931 | |
| 5,500.0 | 5,454.1 | 5,459.6 | 5,454.1 | 17.8 | 12.1 | -178.70 | -11.6 | -103.6 | 570.3 | 545.5 | 24.73 | 23.062 | |
| 5,600.0 | 5,553.2 | 5,558.6 | 5,553.2 | 18.1 | 12.3 | -178.73 | -11.6 | -103.6 | 584.0 | 558.8 | 25.18 | 23.188 | |
| 5,700.0 | 5,652.2 | 5,657.7 | 5,652.2 | 18.5 | 12.6 | -178.76 | -11.6 | -103.6 | 597.7 | 572.1 | 25.64 | 23.310 | |
| 5,800.0 | 5,751.3 | 5,756.7 | 5,751.3 | 18.8 | 12.8 | -178.79 | -11.6 | -103.6 | 611.5 | 585.4 | 26.10 | 23.426 | |
| 5,900.0 | 5,850.3 | 5,855.8 | 5,850.3 | 19.2 | 13.0 | -178.81 | -11.6 | -103.6 | 625.2 | 598.6 | 26.56 | 23.539 | |
| 6,000.0 | 5,949.4 | 5,954.9 | 5,949.4 | 19.5 | 13.2 | -178.84 | -11.6 | -103.6 | 638.6 | 611.6 | 27.02 | 23.632 | |
| 6,100.0 | 6,048.9 | 6,054.3 | 6,048.9 | 19.7 | 13.4 | -178.86 | -11.6 | -103.6 | 649.1 | 621.7 | 27.44 | 23.653 | |
| 6,200.0 | 6,148.6 | 6,154.1 | 6,148.6 | 19.9 | 13.6 | -178.88 | -11.6 | -103.6 | 656.1 | 628.3 | 27.83 | 23.577 | |
| 6,300.0 | 6,248.6 | 6,254.0 | 6,248.6 | 20.0 | 13.8 | -178.89 | -11.6 | -103.6 | 659.7 | 631.5 | 28.18 | 23.409 | |
| 6,400.0 | 6,348.6 | 6,354.0 | 6,348.6 | 20.2 | 14.0 | 91.77 | -11.6 | -103.6 | 660.1 | 631.6 | 28.55 | 23.120 | |
| 6,500.0 | 6,448.6 | 6,454.0 | 6,448.6 | 20.3 | 14.3 | 91.77 | -11.6 | -103.6 | 660.1 | 631.2 | 28.96 | 22.797 | |
| 6,600.0 | 6,548.6 | 6,554.0 | 6,548.6 | 20.5 | 14.5 | -88.05 | -11.6 | -103.6 | 660.1 | 630.8 | 29.36 | 22.485 | |
| 6,700.0 | 6,647.9 | 6,653.4 | 6,647.9 | 20.6 | 14.7 | -88.97 | -11.6 | -103.6 | 659.8 | 630.1 | 29.74 | 22.184 | |
| 6,756.8 | 6,703.4 | 6,708.8 | 6,703.4 | 20.7 | 14.8 | -90.00 | -11.6 | -103.6 | 659.7 | 629.8 | 29.97 | 22.016 | |
| 6,800.0 | 6,744.9 | 6,750.3 | 6,744.9 | 20.7 | 14.9 | -91.00 | -11.6 | -103.6 | 659.8 | 629.7 | 30.14 | 21.896 | |
| 6,900.0 | 6,837.5 | 6,846.1 | 6,840.7 | 20.9 | 15.1 | -93.86 | -13.2 | -103.6 | 661.5 | 630.9 | 30.54 | 21.660 | |
| 7,000.0 | 6,924.1 | 6,948.3 | 6,941.8 | 21.1 | 15.3 | -96.87 | -27.1 | -103.5 | 665.3 | 634.4 | 30.94 | 21.504 | |
| 7,100.0 | 7,002.9 | 7,057.1 | 7,046.1 | 21.3 | 15.5 | -99.84 | -57.5 | -103.4 | 671.1 | 639.7 | 31.36 | 21.399 | |
| 7,200.0 | 7,072.3 | 7,173.5 | 7,151.3 | 21.6 | 15.8 | -102.70 | -107.2 | -103.2 | 678.5 | 646.6 | 31.86 | 21.296 | |
| 7,300.0 | 7,131.0 | 7,298.6 | 7,253.7 | 22.0 | 16.1 | -105.39 | -178.8 | -103.0 | 686.8 | 654.3 | 32.54 | 21.109 | |
| 7,400.0 | 7,178.0 | 7,433.0 | 7,348.0 | 22.5 | 16.7 | -107.81 | -274.2 | -102.6 | 695.4 | 661.8 | 33.57 | 20.716 | |
| 7,500.0 | 7,212.2 | 7,576.7 | 7,427.3 | 23.1 | 17.6 | -109.85 | -393.8 | -102.1 | 703.2 | 668.0 | 35.14 | 20.013 | |
| 7,600.0 | 7,233.0 | 7,728.9 | 7,483.5 | 23.9 | 19.0 | -111.35 | -534.9 | -101.6 | 709.2 | 671.8 | 37.40 | 18.964 | |
| 7,700.0 | 7,240.0 | 7,887.1 | 7,509.0 | 24.9 | 20.7 | -112.18 | -690.7 | -101.0 | 712.7 | 672.3 | 40.38 | 17.648 | |
| 7,800.0 | 7,240.0 | 8,001.1 | 7,510.0 | 25.9 | 22.1 | -112.26 | -804.6 | -100.6 | 712.9 | 670.0 | 42.92 | 16.612 | |
| 7,900.0 | 7,240.0 | 8,101.1 | 7,510.0 | 27.1 | 23.5 | -112.26 | -904.6 | -100.2 | 712.9 | 667.4 | 45.46 | 15.681 | |
| 8,000.0 | 7,240.0 | 8,201.1 | 7,510.0 | 28.3 | 24.9 | -112.25 | -1,004.6 | -99.8 | 712.9 | 664.8 | 48.15 | 14.808 | |
| 8,100.0 | 7,240.0 | 8,301.1 | 7,510.0 | 29.7 | 26.4 | -112.25 | -1,104.6 | -99.4 | 712.9 | 662.0 | 50.94 | 13.995 | |
| 8,200.0 | 7,240.0 | 8,401.1 | 7,510.0 | 31.1 | 28.0 | -112.25 | -1,204.6 | -99.0 | 712.9 | 659.1 | 53.84 | 13.243 | |
| 8,300.0 | 7,240.0 | 8,501.1 | 7,510.0 | 32.5 | 29.5 | -112.25 | -1,304.6 | -98.7 | 712.9 | 656.1 | 56.81 | 12.549 | |
| 8,400.0 | 7,240.0 | 8,601.1 | 7,510.0 | 34.0 | 31.2 | -112.25 | -1,404.6 | -98.3 | 712.9 | 653.1 | 59.85 | 11.911 | |
| 8,500.0 | 7,240.0 | 8,701.1 | 7,510.0 | 35.5 | 32.8 | -112.25 | -1,504.6 | -97.9 | 712.9 | 650.0 | 62.96 | 11.324 | |
| 8,600.0 | 7,240.0 | 8,801.1 | 7,510.0 | 37.1 | 34.5 | -112.25 | -1,604.6 | -97.5 | 713.0 | 646.8 | 66.11 | 10.784 | |
| 8,700.0 | 7,240.0 | 8,901.1 | 7,510.0 | 38.7 | 36.2 | -112.25 | -1,704.6 | -97.1 | 713.0 | 643.6 | 69.31 | 10.286 | |
| 8,800.0 | 7,240.0 | 9,001.1 | 7,510.0 | 40.4 | 38.0 | -112.25 | -1,804.6 | -96.8 | 713.0 | 640.4 | 72.55 | 9.827 | |
| 8,900.0 | 7,240.0 | 9,101.1 | 7,510.0 | 42.0 | 39.7 | -112.25 | -1,904.6 | -96.4 | 713.0 | 637.2 | 75.82 | 9.404 | |
| 9,000.0 | 7,240.0 | 9,201.1 | 7,510.0 | 43.7 | 41.5 | -112.25 | -2,004.6 | -96.0 | 713.0 | 633.9 | 79.12 | 9.012 | |
| 9,100.0 | 7,240.0 | 9,301.1 | 7,510.0 | 45.4 | 43.2 | -112.25 | -2,104.6 | -95.6 | 713.0 | 630.5 | 82.44 | 8.648 | |
| 9,200.0 | 7,240.0 | 9,401.1 | 7,510.0 | 47.2 | 45.0 | -112.25 | -2,204.6 | -95.2 | 713.0 | 627.2 | 85.79 | 8.311 | |
| 9,300.0 | 7,240.0 | 9,501.1 | 7,510.0 | 48.9 | 46.8 | -112.25 | -2,304.6 | -94.9 | 713.0 | 623.8 | 89.16 | 7.997 | |
| 9,400.0 | 7,240.0 | 9,601.1 | 7,510.0 | 50.6 | 48.6 | -112.25 | -2,404.6 | -94.5 | 713.0 | 620.5 | 92.54 | 7.705 | |
| 9,500.0 | 7,240.0 | 9,701.1 | 7,510.0 | 52.4 | 50.5 | -112.25 | -2,504.6 | -94.1 | 713.0 | 617.1 | 95.95 | 7.431 | |
| 9,600.0 | 7,240.0 | 9,801.1 | 7,510.0 | 54.2 | 52.3 | -112.25 | -2,604.6 | -93.7 | 713.0 | 613.7 | 99.36 | 7.176 | |
| 9,700.0 | 7,240.0 | 9,901.1 | 7,510.0 | 56.0 | 54.1 | -112.25 | -2,704.6 | -93.3 | 713.0 | 610.2 | 102.79 | 6.937 | |
| 9,800.0 | 7,240.0 | 10,001.1 | 7,510.0 | 57.8 | 56.0 | -112.25 | -2,804.6 | -93.0 | 713.0 | 606.8 | 106.23 | 6.712 | |
| 9,900.0 | 7,240.0 | 10,101.1 | 7,510.0 | 59.6 | 57.8 | -112.25 | -2,904.6 | -92.6 | 713.0 | 603.4 | 109.68 | 6.501 | |
| 10,000.0 | 7,240.0 | 10,201.1 | 7,510.0 | 61.4 | 59.7 | -112.25 | -3,004.6 | -92.2 | 713.1 | 599.9 | 113.15 | 6.302 | |
| 10,100.0 | 7,240.0 | 10,301.1 | 7,510.0 | 63.2 | 61.5 | -112.25 | -3,104.6 | -91.8 | 713.1 | 596.4 | 116.62 | 6.115 | |
| 10,200.0 | 7,240.0 | 10,401.1 | 7,510.0 | 65.0 | 63.4 | -112.25 | -3,204.6 | -91.4 | 713.1 | 593.0 | 120.09 | 5.938 | |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,300.0 | 7,240.0 | 10,501.1 | 7,510.0 | 66.8 | 65.2 | -112.25 | -3,304.6 | -91.0 | 713.1 | 589.5 | 123.58 | 5.770 | |
| 10,400.0 | 7,240.0 | 10,601.1 | 7,510.0 | 68.7 | 67.1 | -112.25 | -3,404.6 | -90.7 | 713.1 | 586.0 | 127.07 | 5.612 | |
| 10,500.0 | 7,240.0 | 10,701.1 | 7,510.0 | 70.5 | 69.0 | -112.25 | -3,504.6 | -90.3 | 713.1 | 582.5 | 130.57 | 5.461 | |
| 10,600.0 | 7,240.0 | 10,801.1 | 7,510.0 | 72.3 | 70.8 | -112.25 | -3,604.6 | -89.9 | 713.1 | 579.0 | 134.07 | 5.319 | |
| 10,700.0 | 7,240.0 | 10,901.1 | 7,510.0 | 74.2 | 72.7 | -112.25 | -3,704.6 | -89.5 | 713.1 | 575.5 | 137.58 | 5.183 | |
| 10,800.0 | 7,240.0 | 11,001.1 | 7,510.0 | 76.0 | 74.6 | -112.25 | -3,804.6 | -89.1 | 713.1 | 572.0 | 141.10 | 5.054 | |
| 10,900.0 | 7,240.0 | 11,101.1 | 7,510.0 | 77.9 | 76.5 | -112.25 | -3,904.6 | -88.8 | 713.1 | 568.5 | 144.61 | 4.931 | |
| 11,000.0 | 7,240.0 | 11,201.1 | 7,510.0 | 79.8 | 78.4 | -112.25 | -4,004.6 | -88.4 | 713.1 | 565.0 | 148.14 | 4.814 | |
| 11,100.0 | 7,240.0 | 11,301.1 | 7,510.0 | 81.6 | 80.2 | -112.25 | -4,104.6 | -88.0 | 713.1 | 561.5 | 151.66 | 4.702 | |
| 11,200.0 | 7,240.0 | 11,401.1 | 7,510.0 | 83.5 | 82.1 | -112.25 | -4,204.6 | -87.6 | 713.1 | 557.9 | 155.19 | 4.595 | |
| 11,300.0 | 7,240.0 | 11,501.1 | 7,510.0 | 85.3 | 84.0 | -112.25 | -4,304.6 | -87.2 | 713.1 | 554.4 | 158.73 | 4.493 | |
| 11,400.0 | 7,240.0 | 11,601.1 | 7,510.0 | 87.2 | 85.9 | -112.25 | -4,404.6 | -86.9 | 713.2 | 550.9 | 162.26 | 4.395 | |
| 11,500.0 | 7,240.0 | 11,701.1 | 7,510.0 | 89.1 | 87.8 | -112.25 | -4,504.6 | -86.5 | 713.2 | 547.4 | 165.80 | 4.301 | |
| 11,509.0 | 7,240.0 | 11,710.0 | 7,510.0 | 89.3 | 88.0 | -112.25 | -4,513.6 | -86.4 | 713.2 | 547.0 | 166.12 | 4.293 | SF |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14) — **Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD — **Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.57 | -2.2 | 79.7 | 79.8 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 91.57 | -2.2 | 79.7 | 79.8 | 79.5 | 0.22 | 354.891 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 91.57 | -2.2 | 79.7 | 79.8 | 79.1 | 0.67 | 118.297 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | 91.57 | -2.2 | 79.7 | 79.8 | 78.6 | 1.12 | 70.978 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 91.57 | -2.2 | 79.7 | 79.8 | 78.2 | 1.57 | 50.699 | CC, ES |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -179.11 | -2.2 | 79.7 | 81.5 | 79.5 | 2.01 | 40.484 | |
| 600.0 | 599.8 | 599.8 | 599.8 | 1.2 | 1.2 | -179.16 | -2.2 | 79.7 | 86.7 | 84.3 | 2.45 | 35.409 | |
| 700.0 | 699.5 | 699.5 | 699.5 | 1.5 | 1.5 | -179.24 | -2.2 | 79.7 | 95.5 | 92.6 | 2.89 | 33.017 | |
| 800.0 | 798.7 | 798.7 | 798.7 | 1.7 | 1.7 | -179.32 | -2.2 | 79.7 | 107.6 | 104.3 | 3.34 | 32.274 | |
| 900.0 | 897.8 | 897.8 | 897.8 | 2.0 | 1.9 | -179.40 | -2.2 | 79.7 | 121.4 | 117.6 | 3.78 | 32.113 | |
| 1,000.0 | 996.8 | 996.8 | 996.8 | 2.3 | 2.1 | -179.46 | -2.2 | 79.7 | 135.1 | 130.9 | 4.23 | 31.950 | |
| 1,100.0 | 1,095.9 | 1,094.0 | 1,094.0 | 2.7 | 2.3 | -179.35 | -2.6 | 80.7 | 149.8 | 145.1 | 4.65 | 32.196 | |
| 1,200.0 | 1,194.9 | 1,192.9 | 1,192.8 | 3.0 | 2.5 | -179.23 | -3.1 | 81.9 | 164.8 | 159.7 | 5.07 | 32.470 | |
| 1,300.0 | 1,294.0 | 1,291.7 | 1,291.7 | 3.3 | 2.7 | -179.12 | -3.7 | 83.1 | 179.8 | 174.3 | 5.50 | 32.664 | |
| 1,400.0 | 1,393.0 | 1,390.6 | 1,390.6 | 3.6 | 2.9 | -179.03 | -4.2 | 84.3 | 194.7 | 188.8 | 5.94 | 32.799 | |
| 1,500.0 | 1,492.1 | 1,489.5 | 1,489.4 | 4.0 | 3.1 | -178.95 | -4.8 | 85.6 | 209.7 | 203.3 | 6.38 | 32.893 | |
| 1,600.0 | 1,591.1 | 1,588.3 | 1,588.3 | 4.3 | 3.3 | -178.88 | -5.3 | 86.8 | 224.7 | 217.9 | 6.82 | 32.957 | |
| 1,700.0 | 1,690.2 | 1,687.2 | 1,687.1 | 4.7 | 3.5 | -178.82 | -5.9 | 88.0 | 239.7 | 232.4 | 7.26 | 33.001 | |
| 1,800.0 | 1,789.2 | 1,786.1 | 1,786.0 | 5.0 | 3.7 | -178.77 | -6.4 | 89.3 | 254.7 | 247.0 | 7.71 | 33.028 | |
| 1,900.0 | 1,888.3 | 1,885.0 | 1,884.9 | 5.3 | 3.9 | -178.72 | -7.0 | 90.5 | 269.6 | 261.5 | 8.16 | 33.045 | |
| 2,000.0 | 1,987.3 | 1,983.8 | 1,983.7 | 5.7 | 4.2 | -178.68 | -7.5 | 91.7 | 284.6 | 276.0 | 8.61 | 33.053 | |
| 2,100.0 | 2,086.4 | 2,082.7 | 2,082.6 | 6.0 | 4.4 | -178.65 | -8.1 | 93.0 | 299.6 | 290.5 | 9.06 | 33.055 | |
| 2,200.0 | 2,185.4 | 2,181.6 | 2,181.5 | 6.4 | 4.6 | -178.61 | -8.6 | 94.2 | 314.6 | 305.1 | 9.52 | 33.052 | |
| 2,300.0 | 2,284.5 | 2,280.4 | 2,280.3 | 6.7 | 4.8 | -178.58 | -9.2 | 95.4 | 329.6 | 319.6 | 9.97 | 33.045 | |
| 2,400.0 | 2,383.5 | 2,379.3 | 2,379.2 | 7.1 | 5.0 | -178.55 | -9.7 | 96.6 | 344.6 | 334.1 | 10.43 | 33.036 | |
| 2,500.0 | 2,482.6 | 2,478.2 | 2,478.0 | 7.4 | 5.2 | -178.53 | -10.3 | 97.9 | 359.5 | 348.7 | 10.89 | 33.025 | |
| 2,600.0 | 2,581.6 | 2,577.1 | 2,576.9 | 7.7 | 5.4 | -178.50 | -10.8 | 99.1 | 374.5 | 363.2 | 11.34 | 33.013 | |
| 2,700.0 | 2,680.7 | 2,675.9 | 2,675.8 | 8.1 | 5.7 | -178.48 | -11.4 | 100.3 | 389.5 | 377.7 | 11.80 | 33.000 | |
| 2,800.0 | 2,779.7 | 2,774.8 | 2,774.6 | 8.4 | 5.9 | -178.46 | -11.9 | 101.6 | 404.5 | 392.2 | 12.26 | 32.987 | |
| 2,900.0 | 2,878.8 | 2,873.7 | 2,873.5 | 8.8 | 6.1 | -178.44 | -12.5 | 102.8 | 419.5 | 406.8 | 12.72 | 32.972 | |
| 3,000.0 | 2,977.8 | 2,972.5 | 2,972.4 | 9.1 | 6.3 | -178.43 | -13.0 | 104.0 | 434.5 | 421.3 | 13.18 | 32.958 | |
| 3,100.0 | 3,076.9 | 3,071.4 | 3,071.2 | 9.5 | 6.5 | -178.41 | -13.5 | 105.2 | 449.4 | 435.8 | 13.64 | 32.944 | |
| 3,200.0 | 3,175.9 | 3,170.3 | 3,170.1 | 9.8 | 6.8 | -178.39 | -14.1 | 106.5 | 464.4 | 450.3 | 14.10 | 32.929 | |
| 3,300.0 | 3,275.0 | 3,269.1 | 3,268.9 | 10.2 | 7.0 | -178.38 | -14.6 | 107.7 | 479.4 | 464.8 | 14.56 | 32.915 | |
| 3,400.0 | 3,374.1 | 3,368.0 | 3,367.8 | 10.5 | 7.2 | -178.37 | -15.2 | 108.9 | 494.4 | 479.4 | 15.03 | 32.901 | |
| 3,500.0 | 3,473.1 | 3,466.9 | 3,466.7 | 10.9 | 7.4 | -178.35 | -15.7 | 110.2 | 509.4 | 493.9 | 15.49 | 32.887 | |
| 3,600.0 | 3,572.2 | 3,565.8 | 3,565.5 | 11.2 | 7.6 | -178.34 | -16.3 | 111.4 | 524.4 | 508.4 | 15.95 | 32.873 | |
| 3,700.0 | 3,671.2 | 3,664.6 | 3,664.4 | 11.5 | 7.9 | -178.33 | -16.8 | 112.6 | 539.3 | 522.9 | 16.41 | 32.860 | |
| 3,800.0 | 3,770.3 | 3,763.5 | 3,763.3 | 11.9 | 8.1 | -178.32 | -17.4 | 113.8 | 554.3 | 537.4 | 16.88 | 32.846 | |
| 3,900.0 | 3,869.3 | 3,862.4 | 3,862.1 | 12.2 | 8.3 | -178.31 | -17.9 | 115.1 | 569.3 | 552.0 | 17.34 | 32.833 | |
| 4,000.0 | 3,968.4 | 3,961.2 | 3,961.0 | 12.6 | 8.5 | -178.30 | -18.5 | 116.3 | 584.3 | 566.5 | 17.80 | 32.821 | |
| 4,100.0 | 4,067.4 | 4,067.7 | 4,067.4 | 12.9 | 8.7 | -178.33 | -18.6 | 116.5 | 598.2 | 580.0 | 18.26 | 32.754 | |
| 4,200.0 | 4,166.5 | 4,166.7 | 4,166.5 | 13.3 | 8.9 | -178.37 | -18.6 | 116.5 | 612.0 | 593.2 | 18.71 | 32.714 | |
| 4,300.0 | 4,265.5 | 4,265.8 | 4,265.5 | 13.6 | 9.1 | -178.41 | -18.6 | 116.5 | 625.7 | 606.5 | 19.15 | 32.675 | |
| 4,400.0 | 4,364.6 | 4,364.8 | 4,364.6 | 14.0 | 9.3 | -178.44 | -18.6 | 116.5 | 639.4 | 619.8 | 19.59 | 32.635 | |
| 4,500.0 | 4,463.6 | 4,463.9 | 4,463.6 | 14.3 | 9.5 | -178.47 | -18.6 | 116.5 | 653.1 | 633.1 | 20.04 | 32.596 | |
| 4,600.0 | 4,562.7 | 4,562.9 | 4,562.7 | 14.7 | 9.8 | -178.50 | -18.6 | 116.5 | 666.9 | 646.4 | 20.48 | 32.557 | |
| 4,700.0 | 4,661.7 | 4,662.0 | 4,661.7 | 15.0 | 10.0 | -178.53 | -18.6 | 116.5 | 680.6 | 659.7 | 20.93 | 32.518 | |
| 4,800.0 | 4,760.8 | 4,761.0 | 4,760.8 | 15.4 | 10.2 | -178.56 | -18.6 | 116.5 | 694.3 | 673.0 | 21.38 | 32.479 | |
| 4,900.0 | 4,859.8 | 4,860.1 | 4,859.8 | 15.7 | 10.4 | -178.59 | -18.6 | 116.5 | 708.1 | 686.3 | 21.83 | 32.441 | |
| 5,000.0 | 4,958.9 | 4,959.2 | 4,958.9 | 16.0 | 10.6 | -178.62 | -18.6 | 116.5 | 721.8 | 699.5 | 22.28 | 32.404 | |
| 5,100.0 | 5,057.9 | 5,058.2 | 5,057.9 | 16.4 | 10.8 | -178.64 | -18.6 | 116.5 | 735.6 | 712.8 | 22.73 | 32.367 | |

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

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.0 | 5,157.0 | 5,157.3 | 5,157.0 | 16.7 | 11.0 | -178.67 | -18.6 | 116.5 | 749.3 | 726.1 | 23.18 | 32.330 | |
| 5,300.0 | 5,256.0 | 5,256.3 | 5,256.0 | 17.1 | 11.2 | -178.69 | -18.6 | 116.5 | 763.0 | 739.4 | 23.63 | 32.294 | |
| 5,400.0 | 5,355.1 | 5,355.4 | 5,355.1 | 17.4 | 11.4 | -178.72 | -18.6 | 116.5 | 776.8 | 752.7 | 24.08 | 32.258 | |
| 5,500.0 | 5,454.1 | 5,454.4 | 5,454.1 | 17.8 | 11.6 | -178.74 | -18.6 | 116.5 | 790.5 | 766.0 | 24.53 | 32.223 | |
| 5,600.0 | 5,553.2 | 5,553.5 | 5,553.2 | 18.1 | 11.8 | -178.76 | -18.6 | 116.5 | 804.2 | 779.2 | 24.98 | 32.189 | |
| 5,700.0 | 5,652.2 | 5,652.5 | 5,652.2 | 18.5 | 12.0 | -178.78 | -18.6 | 116.5 | 818.0 | 792.5 | 25.44 | 32.155 | |
| 5,800.0 | 5,751.3 | 5,751.6 | 5,751.3 | 18.8 | 12.2 | -178.80 | -18.6 | 116.5 | 831.7 | 805.8 | 25.89 | 32.122 | |
| 5,900.0 | 5,850.3 | 5,850.6 | 5,850.3 | 19.2 | 12.4 | -178.82 | -18.6 | 116.5 | 845.4 | 819.1 | 26.35 | 32.089 | |
| 6,000.0 | 5,949.4 | 5,949.7 | 5,949.4 | 19.5 | 12.7 | -178.84 | -18.6 | 116.5 | 858.8 | 832.0 | 26.81 | 32.034 | |
| 6,100.0 | 6,048.9 | 6,049.2 | 6,048.9 | 19.7 | 12.9 | -178.86 | -18.6 | 116.5 | 869.3 | 842.1 | 27.24 | 31.918 | |
| 6,200.0 | 6,148.6 | 6,148.9 | 6,148.6 | 19.9 | 13.1 | -178.87 | -18.6 | 116.5 | 876.4 | 848.7 | 27.63 | 31.717 | |
| 6,300.0 | 6,248.6 | 6,248.8 | 6,248.6 | 20.0 | 13.3 | -178.88 | -18.6 | 116.5 | 879.9 | 851.9 | 27.99 | 31.436 | |
| 6,400.0 | 6,348.6 | 6,348.8 | 6,348.6 | 20.2 | 13.5 | 91.78 | -18.6 | 116.5 | 880.4 | 852.0 | 28.36 | 31.038 | |
| 6,500.0 | 6,448.6 | 6,448.8 | 6,448.6 | 20.3 | 13.7 | 91.78 | -18.6 | 116.5 | 880.4 | 851.6 | 28.77 | 30.605 | |
| 6,600.0 | 6,548.6 | 6,547.8 | 6,547.5 | 20.5 | 13.9 | -88.00 | -19.0 | 116.5 | 880.4 | 851.2 | 29.16 | 30.192 | |
| 6,700.0 | 6,647.9 | 6,643.7 | 6,642.9 | 20.6 | 14.1 | -88.03 | -28.6 | 116.6 | 880.3 | 850.8 | 29.52 | 29.818 | |
| 6,800.0 | 6,744.9 | 6,739.7 | 6,736.2 | 20.7 | 14.3 | -88.10 | -50.8 | 116.7 | 880.3 | 850.4 | 29.91 | 29.435 | |
| 6,900.0 | 6,837.5 | 6,835.9 | 6,825.9 | 20.9 | 14.6 | -88.20 | -85.4 | 116.8 | 880.3 | 849.9 | 30.34 | 29.011 | |
| 7,000.0 | 6,924.1 | 6,932.3 | 6,910.3 | 21.1 | 14.8 | -88.33 | -131.8 | 117.0 | 880.2 | 849.3 | 30.88 | 28.504 | |
| 7,100.0 | 7,002.9 | 7,029.0 | 6,987.9 | 21.3 | 15.2 | -88.50 | -189.3 | 117.2 | 880.1 | 848.5 | 31.58 | 27.868 | |
| 7,200.0 | 7,072.3 | 7,126.0 | 7,057.3 | 21.6 | 15.7 | -88.69 | -257.0 | 117.4 | 880.1 | 847.5 | 32.51 | 27.070 | |
| 7,300.0 | 7,131.0 | 7,223.4 | 7,117.2 | 22.0 | 16.3 | -88.91 | -333.8 | 117.7 | 880.0 | 846.3 | 33.72 | 26.100 | |
| 7,400.0 | 7,178.0 | 7,321.3 | 7,166.3 | 22.5 | 17.1 | -89.15 | -418.4 | 118.0 | 879.9 | 844.7 | 35.23 | 24.976 | |
| 7,500.0 | 7,212.2 | 7,419.7 | 7,203.6 | 23.1 | 18.0 | -89.41 | -509.3 | 118.4 | 879.9 | 842.8 | 37.06 | 23.739 | |
| 7,600.0 | 7,233.0 | 7,518.7 | 7,228.2 | 23.9 | 19.1 | -89.68 | -605.1 | 118.7 | 879.8 | 840.6 | 39.20 | 22.447 | |
| 7,700.0 | 7,240.0 | 7,618.2 | 7,239.3 | 24.9 | 20.3 | -89.96 | -703.9 | 119.1 | 879.8 | 838.2 | 41.58 | 21.160 | |
| 7,800.0 | 7,240.0 | 7,718.2 | 7,240.0 | 25.9 | 21.6 | -90.00 | -803.9 | 119.4 | 879.8 | 835.6 | 44.16 | 19.923 | |
| 7,900.0 | 7,240.0 | 7,818.2 | 7,240.0 | 27.1 | 23.0 | -90.00 | -903.9 | 119.8 | 879.8 | 832.9 | 46.91 | 18.755 | |
| 8,000.0 | 7,240.0 | 7,918.2 | 7,240.0 | 28.3 | 24.4 | -90.00 | -1,003.9 | 120.2 | 879.8 | 830.0 | 49.80 | 17.665 | |
| 8,100.0 | 7,240.0 | 8,018.2 | 7,240.0 | 29.7 | 26.0 | -90.00 | -1,103.9 | 120.6 | 879.8 | 827.0 | 52.82 | 16.656 | |
| 8,200.0 | 7,240.0 | 8,118.2 | 7,240.0 | 31.1 | 27.5 | -90.00 | -1,203.9 | 120.9 | 879.8 | 823.8 | 55.94 | 15.727 | |
| 8,300.0 | 7,240.0 | 8,218.2 | 7,240.0 | 32.5 | 29.2 | -90.00 | -1,303.9 | 121.3 | 879.8 | 820.6 | 59.15 | 14.874 | |
| 8,400.0 | 7,240.0 | 8,318.2 | 7,240.0 | 34.0 | 30.8 | -90.00 | -1,403.9 | 121.7 | 879.8 | 817.4 | 62.43 | 14.093 | |
| 8,500.0 | 7,240.0 | 8,418.2 | 7,240.0 | 35.5 | 32.5 | -90.00 | -1,503.9 | 122.0 | 879.8 | 814.0 | 65.77 | 13.377 | |
| 8,600.0 | 7,240.0 | 8,518.2 | 7,240.0 | 37.1 | 34.2 | -90.00 | -1,603.9 | 122.4 | 879.8 | 810.6 | 69.16 | 12.720 | |
| 8,700.0 | 7,240.0 | 8,618.2 | 7,240.0 | 38.7 | 35.9 | -90.00 | -1,703.9 | 122.8 | 879.8 | 807.2 | 72.60 | 12.118 | |
| 8,800.0 | 7,240.0 | 8,718.2 | 7,240.0 | 40.4 | 37.7 | -90.00 | -1,803.9 | 123.1 | 879.8 | 803.7 | 76.08 | 11.564 | |
| 8,900.0 | 7,240.0 | 8,818.2 | 7,240.0 | 42.0 | 39.5 | -90.00 | -1,903.9 | 123.5 | 879.8 | 800.2 | 79.59 | 11.053 | |
| 9,000.0 | 7,240.0 | 8,918.2 | 7,240.0 | 43.7 | 41.2 | -90.00 | -2,003.9 | 123.9 | 879.8 | 796.6 | 83.14 | 10.582 | |
| 9,100.0 | 7,240.0 | 9,018.2 | 7,240.0 | 45.4 | 43.0 | -90.00 | -2,103.9 | 124.3 | 879.8 | 793.1 | 86.71 | 10.147 | |
| 9,200.0 | 7,240.0 | 9,118.2 | 7,240.0 | 47.2 | 44.8 | -90.00 | -2,203.9 | 124.6 | 879.8 | 789.5 | 90.30 | 9.743 | |
| 9,300.0 | 7,240.0 | 9,218.2 | 7,240.0 | 48.9 | 46.6 | -90.00 | -2,303.9 | 125.0 | 879.8 | 785.8 | 93.91 | 9.368 | |
| 9,400.0 | 7,240.0 | 9,318.2 | 7,240.0 | 50.6 | 48.5 | -90.00 | -2,403.9 | 125.4 | 879.8 | 782.2 | 97.54 | 9.019 | |
| 9,500.0 | 7,240.0 | 9,418.2 | 7,240.0 | 52.4 | 50.3 | -90.00 | -2,503.9 | 125.7 | 879.7 | 778.6 | 101.19 | 8.694 | |
| 9,600.0 | 7,240.0 | 9,518.2 | 7,240.0 | 54.2 | 52.1 | -90.00 | -2,603.9 | 126.1 | 879.7 | 774.9 | 104.85 | 8.391 | |
| 9,700.0 | 7,240.0 | 9,618.2 | 7,240.0 | 56.0 | 54.0 | -90.00 | -2,703.9 | 126.5 | 879.7 | 771.2 | 108.52 | 8.106 | |
| 9,800.0 | 7,240.0 | 9,718.2 | 7,240.0 | 57.8 | 55.8 | -90.00 | -2,803.9 | 126.8 | 879.7 | 767.5 | 112.21 | 7.840 | |
| 9,900.0 | 7,240.0 | 9,818.2 | 7,240.0 | 59.6 | 57.7 | -90.00 | -2,903.9 | 127.2 | 879.7 | 763.8 | 115.91 | 7.590 | |
| 10,000.0 | 7,240.0 | 9,918.2 | 7,240.0 | 61.4 | 59.5 | -90.00 | -3,003.9 | 127.6 | 879.7 | 760.1 | 119.61 | 7.355 | |
| 10,100.0 | 7,240.0 | 10,018.2 | 7,240.0 | 63.2 | 61.4 | -90.00 | -3,103.9 | 128.0 | 879.7 | 756.4 | 123.33 | 7.133 | |
| 10,200.0 | 7,240.0 | 10,118.2 | 7,240.0 | 65.0 | 63.3 | -90.00 | -3,203.9 | 128.3 | 879.7 | 752.7 | 127.05 | 6.924 | |
| 10,300.0 | 7,240.0 | 10,218.2 | 7,240.0 | 66.8 | 65.1 | -90.00 | -3,303.9 | 128.7 | 879.7 | 748.9 | 130.78 | 6.727 | |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies D-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,400.0 | 7,240.0 | 10,318.2 | 7,240.0 | 68.7 | 67.0 | -90.00 | -3,403.9 | 129.1 | 879.7 | 745.2 | 134.52 | 6.540 | |
| 10,500.0 | 7,240.0 | 10,418.2 | 7,240.0 | 70.5 | 68.9 | -90.00 | -3,503.9 | 129.4 | 879.7 | 741.5 | 138.27 | 6.363 | |
| 10,600.0 | 7,240.0 | 10,518.2 | 7,240.0 | 72.3 | 70.8 | -90.00 | -3,603.9 | 129.8 | 879.7 | 737.7 | 142.01 | 6.195 | |
| 10,700.0 | 7,240.0 | 10,618.2 | 7,240.0 | 74.2 | 72.6 | -90.00 | -3,703.9 | 130.2 | 879.7 | 733.9 | 145.77 | 6.035 | |
| 10,800.0 | 7,240.0 | 10,718.2 | 7,240.0 | 76.0 | 74.5 | -90.00 | -3,803.9 | 130.5 | 879.7 | 730.2 | 149.53 | 5.883 | |
| 10,900.0 | 7,240.0 | 10,818.2 | 7,240.0 | 77.9 | 76.4 | -90.00 | -3,903.9 | 130.9 | 879.7 | 726.4 | 153.29 | 5.739 | |
| 11,000.0 | 7,240.0 | 10,918.2 | 7,240.0 | 79.8 | 78.3 | -90.00 | -4,003.9 | 131.3 | 879.7 | 722.6 | 157.06 | 5.601 | |
| 11,100.0 | 7,240.0 | 11,018.2 | 7,240.0 | 81.6 | 80.2 | -90.00 | -4,103.9 | 131.7 | 879.7 | 718.9 | 160.83 | 5.470 | |
| 11,200.0 | 7,240.0 | 11,118.2 | 7,240.0 | 83.5 | 82.1 | -90.00 | -4,203.9 | 132.0 | 879.7 | 715.1 | 164.61 | 5.344 | |
| 11,300.0 | 7,240.0 | 11,218.2 | 7,240.0 | 85.3 | 84.0 | -90.00 | -4,303.9 | 132.4 | 879.7 | 711.3 | 168.39 | 5.224 | |
| 11,400.0 | 7,240.0 | 11,318.2 | 7,240.0 | 87.2 | 85.9 | -90.00 | -4,403.9 | 132.8 | 879.7 | 707.5 | 172.17 | 5.109 | |
| 11,500.0 | 7,240.0 | 11,418.2 | 7,240.0 | 89.1 | 87.8 | -90.00 | -4,503.9 | 133.1 | 879.7 | 703.7 | 175.96 | 4.999 | |
| 11,509.0 | 7,240.0 | 11,427.2 | 7,240.0 | 89.3 | 87.9 | -90.00 | -4,512.8 | 133.2 | 879.7 | 703.4 | 176.29 | 4.990 | SF |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies T-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14) — **Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD — **Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.04 | -0.4 | 20.0 | 20.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 91.04 | -0.4 | 20.0 | 20.0 | 19.8 | 0.22 | 89.013 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 91.04 | -0.4 | 20.0 | 20.0 | 19.3 | 0.67 | 29.671 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | 91.04 | -0.4 | 20.0 | 20.0 | 18.9 | 1.12 | 17.803 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 91.04 | -0.4 | 20.0 | 20.0 | 18.4 | 1.57 | 12.716 | CC, ES |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -179.65 | -0.4 | 20.0 | 21.8 | 19.7 | 2.01 | 10.803 | |
| 600.0 | 599.8 | 599.8 | 599.8 | 1.2 | 1.2 | -179.72 | -0.4 | 20.0 | 27.0 | 24.5 | 2.45 | 11.015 | |
| 700.0 | 699.5 | 700.7 | 700.6 | 1.5 | 1.4 | -179.75 | -0.4 | 18.2 | 34.0 | 31.1 | 2.88 | 11.809 | |
| 800.0 | 798.7 | 801.7 | 801.6 | 1.7 | 1.7 | -179.74 | -0.3 | 12.9 | 40.9 | 37.6 | 3.29 | 12.417 | |
| 900.0 | 897.8 | 903.2 | 902.6 | 2.0 | 1.9 | -179.68 | -0.3 | 4.0 | 45.9 | 42.1 | 3.73 | 12.307 | |
| 1,000.0 | 996.8 | 1,003.3 | 1,002.2 | 2.3 | 2.2 | -179.60 | -0.3 | -7.0 | 48.6 | 44.5 | 4.17 | 11.657 | |
| 1,100.0 | 1,095.9 | 1,103.3 | 1,101.5 | 2.7 | 2.4 | -179.53 | -0.2 | -18.0 | 51.4 | 46.7 | 4.63 | 11.106 | |
| 1,200.0 | 1,194.9 | 1,203.3 | 1,200.9 | 3.0 | 2.7 | -179.46 | -0.2 | -29.0 | 54.1 | 49.0 | 5.08 | 10.642 | |
| 1,300.0 | 1,294.0 | 1,303.2 | 1,300.2 | 3.3 | 3.0 | -179.40 | -0.1 | -40.1 | 56.9 | 51.3 | 5.55 | 10.247 | |
| 1,400.0 | 1,393.0 | 1,403.2 | 1,399.6 | 3.6 | 3.3 | -179.35 | -0.1 | -51.1 | 59.6 | 53.6 | 6.02 | 9.908 | |
| 1,500.0 | 1,492.1 | 1,503.1 | 1,498.9 | 4.0 | 3.5 | -179.30 | 0.0 | -62.1 | 62.3 | 55.9 | 6.48 | 9.615 | |
| 1,600.0 | 1,591.1 | 1,603.1 | 1,598.3 | 4.3 | 3.8 | -179.26 | 0.0 | -73.1 | 65.1 | 58.1 | 6.96 | 9.358 | |
| 1,700.0 | 1,690.2 | 1,703.1 | 1,697.6 | 4.7 | 4.1 | -179.22 | 0.0 | -84.1 | 67.8 | 60.4 | 7.43 | 9.132 | |
| 1,800.0 | 1,789.2 | 1,803.0 | 1,797.0 | 5.0 | 4.4 | -179.18 | 0.1 | -95.1 | 70.6 | 62.7 | 7.90 | 8.931 | |
| 1,900.0 | 1,888.3 | 1,903.0 | 1,896.3 | 5.3 | 4.7 | -179.14 | 0.1 | -106.1 | 73.3 | 64.9 | 8.38 | 8.752 | |
| 2,000.0 | 1,987.3 | 2,003.0 | 1,995.7 | 5.7 | 5.0 | -179.11 | 0.2 | -117.1 | 76.1 | 67.2 | 8.85 | 8.592 | |
| 2,100.0 | 2,086.4 | 2,102.9 | 2,095.1 | 6.0 | 5.3 | -179.08 | 0.2 | -128.2 | 78.8 | 69.5 | 9.33 | 8.447 | |
| 2,200.0 | 2,185.4 | 2,202.9 | 2,194.4 | 6.4 | 5.6 | -179.05 | 0.3 | -139.2 | 81.6 | 71.7 | 9.81 | 8.315 | |
| 2,300.0 | 2,284.5 | 2,302.8 | 2,293.8 | 6.7 | 5.9 | -179.03 | 0.3 | -150.2 | 84.3 | 74.0 | 10.29 | 8.196 | |
| 2,400.0 | 2,383.5 | 2,402.8 | 2,393.1 | 7.1 | 6.2 | -179.00 | 0.3 | -161.2 | 87.0 | 76.3 | 10.76 | 8.086 | |
| 2,500.0 | 2,482.6 | 2,502.8 | 2,492.5 | 7.4 | 6.5 | -178.98 | 0.4 | -172.2 | 89.8 | 78.5 | 11.24 | 7.986 | |
| 2,600.0 | 2,581.6 | 2,602.7 | 2,591.8 | 7.7 | 6.8 | -178.96 | 0.4 | -183.2 | 92.5 | 80.8 | 11.72 | 7.893 | |
| 2,700.0 | 2,680.7 | 2,702.7 | 2,691.2 | 8.1 | 7.1 | -178.94 | 0.5 | -194.2 | 95.3 | 83.1 | 12.20 | 7.808 | |
| 2,800.0 | 2,779.7 | 2,802.7 | 2,790.5 | 8.4 | 7.5 | -178.92 | 0.5 | -205.2 | 98.0 | 85.3 | 12.68 | 7.729 | |
| 2,900.0 | 2,878.8 | 2,902.6 | 2,889.9 | 8.8 | 7.8 | -178.90 | 0.6 | -216.2 | 100.8 | 87.6 | 13.16 | 7.655 | |
| 3,000.0 | 2,977.8 | 3,002.6 | 2,989.2 | 9.1 | 8.1 | -178.88 | 0.6 | -227.3 | 103.5 | 89.9 | 13.64 | 7.587 | |
| 3,100.0 | 3,076.9 | 3,102.5 | 3,088.6 | 9.5 | 8.4 | -178.87 | 0.6 | -238.3 | 106.3 | 92.1 | 14.12 | 7.523 | |
| 3,200.0 | 3,175.9 | 3,202.5 | 3,187.9 | 9.8 | 8.7 | -178.85 | 0.7 | -249.3 | 109.0 | 94.4 | 14.61 | 7.463 | |
| 3,300.0 | 3,275.0 | 3,302.5 | 3,287.3 | 10.2 | 9.0 | -178.84 | 0.7 | -260.3 | 111.7 | 96.7 | 15.09 | 7.407 | |
| 3,400.0 | 3,374.1 | 3,402.4 | 3,386.7 | 10.5 | 9.3 | -178.82 | 0.8 | -271.3 | 114.5 | 98.9 | 15.57 | 7.354 | |
| 3,500.0 | 3,473.1 | 3,502.4 | 3,486.0 | 10.9 | 9.6 | -178.81 | 0.8 | -282.3 | 117.2 | 101.2 | 16.05 | 7.304 | |
| 3,600.0 | 3,572.2 | 3,602.4 | 3,585.4 | 11.2 | 9.9 | -178.80 | 0.9 | -293.3 | 120.0 | 103.4 | 16.53 | 7.258 | |
| 3,700.0 | 3,671.2 | 3,702.3 | 3,684.7 | 11.5 | 10.2 | -178.78 | 0.9 | -304.3 | 122.7 | 105.7 | 17.01 | 7.213 | |
| 3,800.0 | 3,770.3 | 3,802.3 | 3,784.1 | 11.9 | 10.5 | -178.77 | 0.9 | -315.3 | 125.5 | 108.0 | 17.50 | 7.172 | |
| 3,900.0 | 3,869.3 | 3,902.2 | 3,883.4 | 12.2 | 10.8 | -178.76 | 1.0 | -326.4 | 128.2 | 110.2 | 17.98 | 7.132 | |
| 4,000.0 | 3,968.4 | 4,002.2 | 3,982.8 | 12.6 | 11.1 | -178.75 | 1.0 | -337.4 | 131.0 | 112.5 | 18.46 | 7.095 | |
| 4,100.0 | 4,067.4 | 4,102.2 | 4,082.1 | 12.9 | 11.4 | -178.74 | 1.1 | -348.4 | 133.7 | 114.8 | 18.94 | 7.059 | |
| 4,200.0 | 4,166.5 | 4,202.1 | 4,181.5 | 13.3 | 11.7 | -178.73 | 1.1 | -359.4 | 136.4 | 117.0 | 19.42 | 7.025 | |
| 4,300.0 | 4,265.5 | 4,302.1 | 4,280.8 | 13.6 | 12.0 | -178.72 | 1.2 | -370.4 | 139.2 | 119.3 | 19.91 | 6.993 | |
| 4,400.0 | 4,364.6 | 4,402.1 | 4,380.2 | 14.0 | 12.4 | -178.71 | 1.2 | -381.4 | 141.9 | 121.5 | 20.39 | 6.962 | |
| 4,500.0 | 4,463.6 | 4,502.0 | 4,479.6 | 14.3 | 12.7 | -178.70 | 1.2 | -392.4 | 144.7 | 123.8 | 20.87 | 6.932 | |
| 4,600.0 | 4,562.7 | 4,602.0 | 4,578.9 | 14.7 | 13.0 | -178.69 | 1.3 | -403.4 | 147.4 | 126.1 | 21.35 | 6.904 | |
| 4,700.0 | 4,661.7 | 4,701.9 | 4,678.3 | 15.0 | 13.3 | -178.68 | 1.3 | -414.4 | 150.2 | 128.3 | 21.84 | 6.877 | |
| 4,800.0 | 4,760.8 | 4,801.9 | 4,777.6 | 15.4 | 13.6 | -178.68 | 1.4 | -425.5 | 152.9 | 130.6 | 22.32 | 6.852 | |
| 4,900.0 | 4,859.8 | 4,901.9 | 4,877.0 | 15.7 | 13.9 | -178.67 | 1.4 | -436.5 | 155.7 | 132.9 | 22.80 | 6.827 | |
| 5,000.0 | 4,958.9 | 5,001.8 | 4,976.3 | 16.0 | 14.2 | -178.66 | 1.5 | -447.5 | 158.4 | 135.1 | 23.28 | 6.803 | |
| 5,100.0 | 5,057.9 | 5,101.8 | 5,075.7 | 16.4 | 14.5 | -178.66 | 1.5 | -458.5 | 161.1 | 137.4 | 23.77 | 6.781 | |

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

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies T-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.0 | 5,157.0 | 5,201.8 | 5,175.0 | 16.7 | 14.8 | -178.65 | 1.5 | -469.5 | 163.9 | 139.6 | 24.25 | 6.759 | |
| 5,300.0 | 5,256.0 | 5,301.7 | 5,274.4 | 17.1 | 15.1 | -178.64 | 1.6 | -480.5 | 166.6 | 141.9 | 24.73 | 6.738 | |
| 5,400.0 | 5,355.1 | 5,401.7 | 5,373.7 | 17.4 | 15.4 | -178.64 | 1.6 | -491.5 | 169.4 | 144.2 | 25.22 | 6.718 | |
| 5,500.0 | 5,454.1 | 5,501.6 | 5,473.1 | 17.8 | 15.7 | -178.63 | 1.7 | -502.5 | 172.1 | 146.4 | 25.70 | 6.698 | |
| 5,600.0 | 5,553.2 | 5,601.6 | 5,572.4 | 18.1 | 16.0 | -178.62 | 1.7 | -513.6 | 174.9 | 148.7 | 26.18 | 6.679 | |
| 5,700.0 | 5,652.2 | 5,701.6 | 5,671.8 | 18.5 | 16.3 | -178.62 | 1.8 | -524.6 | 177.6 | 151.0 | 26.66 | 6.661 | |
| 5,800.0 | 5,751.3 | 5,796.3 | 5,766.1 | 18.8 | 16.6 | -178.62 | 1.8 | -533.8 | 181.6 | 154.5 | 27.11 | 6.699 | |
| 5,900.0 | 5,850.3 | 5,890.0 | 5,859.6 | 19.2 | 16.8 | -178.66 | 1.8 | -540.0 | 188.8 | 161.3 | 27.52 | 6.861 | |
| 6,000.0 | 5,949.4 | 5,983.2 | 5,952.7 | 19.5 | 16.9 | -178.72 | 1.8 | -543.0 | 199.0 | 171.1 | 27.92 | 7.127 | |
| 6,100.0 | 6,048.9 | 6,079.4 | 6,048.9 | 19.7 | 17.1 | -178.78 | 1.8 | -543.4 | 209.1 | 180.8 | 28.28 | 7.395 | |
| 6,200.0 | 6,148.6 | 6,179.1 | 6,148.6 | 19.9 | 17.2 | -178.82 | 1.8 | -543.4 | 216.1 | 187.5 | 28.61 | 7.554 | |
| 6,300.0 | 6,248.6 | 6,279.0 | 6,248.6 | 20.0 | 17.4 | -178.84 | 1.8 | -543.4 | 219.7 | 190.7 | 28.91 | 7.598 | |
| 6,400.0 | 6,348.6 | 6,379.0 | 6,348.6 | 20.2 | 17.6 | 91.81 | 1.8 | -543.4 | 220.1 | 190.9 | 29.25 | 7.526 | |
| 6,500.0 | 6,448.6 | 6,479.0 | 6,448.6 | 20.3 | 17.7 | 91.81 | 1.8 | -543.4 | 220.1 | 190.5 | 29.63 | 7.429 | |
| 6,600.0 | 6,548.6 | 6,579.0 | 6,548.6 | 20.5 | 17.9 | -88.09 | 1.8 | -543.4 | 220.1 | 190.1 | 30.00 | 7.336 | |
| 6,680.9 | 6,629.1 | 6,659.6 | 6,629.1 | 20.6 | 18.0 | -90.00 | 1.8 | -543.4 | 220.0 | 189.7 | 30.29 | 7.263 | |
| 6,700.0 | 6,647.9 | 6,678.4 | 6,647.9 | 20.6 | 18.1 | -90.78 | 1.8 | -543.4 | 220.0 | 189.6 | 30.36 | 7.247 | |
| 6,800.0 | 6,744.9 | 6,775.4 | 6,744.9 | 20.7 | 18.2 | -96.71 | 1.8 | -543.4 | 221.7 | 190.8 | 30.83 | 7.190 | |
| 6,900.0 | 6,837.5 | 6,872.3 | 6,841.8 | 20.9 | 18.4 | -104.89 | 0.2 | -543.4 | 228.9 | 197.4 | 31.44 | 7.278 | |
| 7,000.0 | 6,924.1 | 6,977.0 | 6,945.4 | 21.1 | 18.5 | -113.01 | -14.4 | -543.3 | 241.9 | 210.0 | 31.85 | 7.595 | |
| 7,100.0 | 7,002.9 | 7,088.7 | 7,052.3 | 21.3 | 18.7 | -120.20 | -46.4 | -543.2 | 259.1 | 227.4 | 31.74 | 8.164 | |
| 7,200.0 | 7,072.3 | 7,208.5 | 7,159.8 | 21.6 | 19.0 | -126.33 | -98.8 | -543.0 | 278.8 | 247.7 | 31.13 | 8.958 | |
| 7,300.0 | 7,131.0 | 7,337.2 | 7,264.0 | 22.0 | 19.3 | -131.36 | -174.1 | -542.7 | 299.0 | 268.7 | 30.26 | 9.879 | |
| 7,400.0 | 7,178.0 | 7,475.2 | 7,358.8 | 22.5 | 19.8 | -135.32 | -274.2 | -542.3 | 317.7 | 288.1 | 29.58 | 10.739 | |
| 7,500.0 | 7,212.2 | 7,622.4 | 7,436.7 | 23.1 | 20.5 | -138.22 | -398.7 | -541.9 | 333.1 | 303.5 | 29.59 | 11.256 | |
| 7,600.0 | 7,233.0 | 7,777.0 | 7,489.4 | 23.9 | 21.7 | -140.05 | -543.8 | -541.3 | 343.7 | 312.9 | 30.73 | 11.183 | |
| 7,700.0 | 7,240.0 | 7,936.4 | 7,509.9 | 24.9 | 23.3 | -140.81 | -701.5 | -540.7 | 348.2 | 315.0 | 33.20 | 10.489 | |
| 7,800.0 | 7,240.0 | 8,041.2 | 7,510.0 | 25.9 | 24.5 | -140.82 | -806.3 | -540.3 | 348.3 | 313.3 | 35.00 | 9.950 | |
| 7,900.0 | 7,240.0 | 8,141.2 | 7,510.0 | 27.1 | 25.7 | -140.82 | -906.3 | -540.0 | 348.3 | 311.4 | 36.87 | 9.446 | |
| 8,000.0 | 7,240.0 | 8,241.2 | 7,510.0 | 28.3 | 27.0 | -140.82 | -1,006.3 | -539.6 | 348.3 | 309.5 | 38.84 | 8.967 | |
| 8,100.0 | 7,240.0 | 8,341.2 | 7,510.0 | 29.7 | 28.4 | -140.82 | -1,106.3 | -539.2 | 348.3 | 307.4 | 40.89 | 8.518 | |
| 8,200.0 | 7,240.0 | 8,441.2 | 7,510.0 | 31.1 | 29.9 | -140.82 | -1,206.3 | -538.8 | 348.3 | 305.3 | 43.01 | 8.099 | |
| 8,300.0 | 7,240.0 | 8,541.2 | 7,510.0 | 32.5 | 31.4 | -140.82 | -1,306.3 | -538.4 | 348.3 | 303.1 | 45.19 | 7.708 | |
| 8,400.0 | 7,240.0 | 8,641.2 | 7,510.0 | 34.0 | 32.9 | -140.82 | -1,406.3 | -538.1 | 348.3 | 300.9 | 47.42 | 7.346 | |
| 8,500.0 | 7,240.0 | 8,741.2 | 7,510.0 | 35.5 | 34.5 | -140.82 | -1,506.3 | -537.7 | 348.3 | 298.6 | 49.69 | 7.009 | |
| 8,600.0 | 7,240.0 | 8,841.2 | 7,510.0 | 37.1 | 36.1 | -140.82 | -1,606.3 | -537.3 | 348.3 | 296.3 | 52.01 | 6.698 | |
| 8,700.0 | 7,240.0 | 8,941.2 | 7,510.0 | 38.7 | 37.8 | -140.82 | -1,706.3 | -536.9 | 348.3 | 294.0 | 54.36 | 6.408 | |
| 8,800.0 | 7,240.0 | 9,041.2 | 7,510.0 | 40.4 | 39.5 | -140.82 | -1,806.3 | -536.5 | 348.3 | 291.6 | 56.74 | 6.140 | |
| 8,900.0 | 7,240.0 | 9,141.2 | 7,510.0 | 42.0 | 41.2 | -140.81 | -1,906.3 | -536.2 | 348.3 | 289.2 | 59.14 | 5.890 | |
| 9,000.0 | 7,240.0 | 9,241.2 | 7,510.0 | 43.7 | 42.9 | -140.81 | -2,006.3 | -535.8 | 348.3 | 286.8 | 61.57 | 5.658 | |
| 9,100.0 | 7,240.0 | 9,341.2 | 7,510.0 | 45.4 | 44.6 | -140.81 | -2,106.3 | -535.4 | 348.3 | 284.3 | 64.02 | 5.442 | |
| 9,200.0 | 7,240.0 | 9,441.2 | 7,510.0 | 47.2 | 46.4 | -140.81 | -2,206.3 | -535.0 | 348.4 | 281.9 | 66.48 | 5.240 | |
| 9,300.0 | 7,240.0 | 9,541.2 | 7,510.0 | 48.9 | 48.1 | -140.81 | -2,306.3 | -534.6 | 348.4 | 279.4 | 68.97 | 5.051 | |
| 9,400.0 | 7,240.0 | 9,641.2 | 7,510.0 | 50.6 | 49.9 | -140.81 | -2,406.3 | -534.3 | 348.4 | 276.9 | 71.46 | 4.875 | |
| 9,500.0 | 7,240.0 | 9,741.2 | 7,510.0 | 52.4 | 51.7 | -140.81 | -2,506.3 | -533.9 | 348.4 | 274.4 | 73.98 | 4.709 | |
| 9,600.0 | 7,240.0 | 9,841.2 | 7,510.0 | 54.2 | 53.5 | -140.81 | -2,606.3 | -533.5 | 348.4 | 271.9 | 76.50 | 4.554 | |
| 9,700.0 | 7,240.0 | 9,941.2 | 7,510.0 | 56.0 | 55.3 | -140.81 | -2,706.3 | -533.1 | 348.4 | 269.3 | 79.03 | 4.408 | |
| 9,800.0 | 7,240.0 | 10,041.2 | 7,510.0 | 57.8 | 57.1 | -140.81 | -2,806.3 | -532.7 | 348.4 | 266.8 | 81.57 | 4.271 | |
| 9,900.0 | 7,240.0 | 10,141.2 | 7,510.0 | 59.6 | 58.9 | -140.81 | -2,906.3 | -532.4 | 348.4 | 264.3 | 84.13 | 4.141 | |
| 10,000.0 | 7,240.0 | 10,241.2 | 7,510.0 | 61.4 | 60.7 | -140.81 | -3,006.3 | -532.0 | 348.4 | 261.7 | 86.69 | 4.019 | |
| 10,100.0 | 7,240.0 | 10,341.2 | 7,510.0 | 63.2 | 62.6 | -140.80 | -3,106.3 | -531.6 | 348.4 | 259.1 | 89.25 | 3.903 | |
| 10,200.0 | 7,240.0 | 10,441.2 | 7,510.0 | 65.0 | 64.4 | -140.80 | -3,206.3 | -531.2 | 348.4 | 256.6 | 91.83 | 3.794 | |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies T-15-22CHZ - Wellbore #1 - Plan #1 (5-7-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,300.0 | 7,240.0 | 10,541.2 | 7,510.0 | 66.8 | 66.2 | -140.80 | -3,306.3 | -530.8 | 348.4 | 254.0 | 94.41 | 3.690 | |
| 10,400.0 | 7,240.0 | 10,641.2 | 7,510.0 | 68.7 | 68.1 | -140.80 | -3,406.3 | -530.5 | 348.4 | 251.4 | 97.00 | 3.592 | |
| 10,500.0 | 7,240.0 | 10,741.2 | 7,510.0 | 70.5 | 69.9 | -140.80 | -3,506.3 | -530.1 | 348.4 | 248.8 | 99.59 | 3.498 | |
| 10,600.0 | 7,240.0 | 10,841.2 | 7,510.0 | 72.3 | 71.8 | -140.80 | -3,606.3 | -529.7 | 348.4 | 246.2 | 102.18 | 3.410 | |
| 10,700.0 | 7,240.0 | 10,941.2 | 7,510.0 | 74.2 | 73.7 | -140.80 | -3,706.3 | -529.3 | 348.4 | 243.6 | 104.78 | 3.325 | |
| 10,800.0 | 7,240.0 | 11,041.2 | 7,510.0 | 76.0 | 75.5 | -140.80 | -3,806.3 | -528.9 | 348.4 | 241.0 | 107.39 | 3.244 | |
| 10,900.0 | 7,240.0 | 11,141.2 | 7,510.0 | 77.9 | 77.4 | -140.80 | -3,906.3 | -528.6 | 348.4 | 238.4 | 110.00 | 3.167 | |
| 11,000.0 | 7,240.0 | 11,241.2 | 7,510.0 | 79.8 | 79.3 | -140.80 | -4,006.3 | -528.2 | 348.4 | 235.8 | 112.61 | 3.094 | |
| 11,100.0 | 7,240.0 | 11,341.2 | 7,510.0 | 81.6 | 81.1 | -140.80 | -4,106.3 | -527.8 | 348.4 | 233.2 | 115.23 | 3.024 | |
| 11,200.0 | 7,240.0 | 11,441.2 | 7,510.0 | 83.5 | 83.0 | -140.80 | -4,206.3 | -527.4 | 348.4 | 230.6 | 117.85 | 2.957 | |
| 11,300.0 | 7,240.0 | 11,541.2 | 7,510.0 | 85.3 | 84.9 | -140.80 | -4,306.3 | -527.0 | 348.4 | 228.0 | 120.47 | 2.892 | |
| 11,400.0 | 7,240.0 | 11,641.2 | 7,510.0 | 87.2 | 86.7 | -140.79 | -4,406.3 | -526.7 | 348.4 | 225.3 | 123.09 | 2.831 | |
| 11,500.0 | 7,240.0 | 11,741.2 | 7,510.0 | 89.1 | 88.5 | -140.79 | -4,506.3 | -526.3 | 348.4 | 222.9 | 125.59 | 2.774 | |
| 11,509.0 | 7,240.0 | 11,750.2 | 7,510.0 | 89.3 | 88.6 | -140.79 | -4,515.3 | -526.3 | 348.4 | 222.6 | 125.79 | 2.770 | SF |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies T-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14) — **Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD — **Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.56 | -1.1 | 40.0 | 40.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 91.56 | -1.1 | 40.0 | 40.0 | 39.8 | 0.22 | 178.063 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 91.56 | -1.1 | 40.0 | 40.0 | 39.3 | 0.67 | 59.354 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | 91.56 | -1.1 | 40.0 | 40.0 | 38.9 | 1.12 | 35.613 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | 91.56 | -1.1 | 40.0 | 40.0 | 38.4 | 1.57 | 25.438 | CC, ES |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -179.14 | -1.1 | 40.0 | 41.8 | 39.8 | 2.01 | 20.744 | |
| 600.0 | 599.8 | 599.8 | 599.8 | 1.2 | 1.2 | -179.23 | -1.1 | 40.0 | 47.0 | 44.6 | 2.45 | 19.185 | |
| 700.0 | 699.5 | 699.5 | 699.5 | 1.5 | 1.5 | -179.35 | -1.1 | 40.0 | 55.7 | 52.8 | 2.89 | 19.270 | |
| 800.0 | 798.7 | 798.7 | 798.7 | 1.7 | 1.7 | -179.47 | -1.1 | 40.0 | 67.9 | 64.6 | 3.34 | 20.358 | |
| 900.0 | 897.8 | 897.8 | 897.8 | 2.0 | 1.9 | -179.56 | -1.1 | 40.0 | 81.6 | 77.9 | 3.78 | 21.598 | |
| 1,000.0 | 996.8 | 996.8 | 996.8 | 2.3 | 2.1 | -179.62 | -1.1 | 40.0 | 95.4 | 91.1 | 4.23 | 22.553 | |
| 1,100.0 | 1,095.9 | 1,095.9 | 1,095.9 | 2.7 | 2.4 | -179.67 | -1.1 | 40.0 | 109.1 | 104.4 | 4.68 | 23.307 | |
| 1,200.0 | 1,194.9 | 1,194.9 | 1,194.9 | 3.0 | 2.6 | -179.70 | -1.1 | 40.0 | 122.8 | 117.7 | 5.14 | 23.917 | |
| 1,300.0 | 1,294.0 | 1,298.6 | 1,298.6 | 3.3 | 2.8 | -179.72 | -1.1 | 38.3 | 135.0 | 129.4 | 5.59 | 24.161 | |
| 1,400.0 | 1,393.0 | 1,403.4 | 1,403.2 | 3.6 | 3.0 | -179.68 | -1.2 | 32.8 | 143.5 | 137.4 | 6.03 | 23.806 | |
| 1,500.0 | 1,492.1 | 1,508.0 | 1,507.4 | 4.0 | 3.2 | -179.61 | -1.3 | 23.5 | 148.3 | 141.9 | 6.48 | 22.910 | |
| 1,600.0 | 1,591.1 | 1,607.9 | 1,606.8 | 4.3 | 3.5 | -179.53 | -1.4 | 13.2 | 151.8 | 144.9 | 6.92 | 21.923 | |
| 1,700.0 | 1,690.2 | 1,707.8 | 1,706.2 | 4.7 | 3.7 | -179.46 | -1.5 | 2.9 | 155.2 | 147.8 | 7.38 | 21.045 | |
| 1,800.0 | 1,789.2 | 1,807.8 | 1,805.6 | 5.0 | 4.0 | -179.39 | -1.6 | -7.5 | 158.7 | 150.8 | 7.83 | 20.260 | |
| 1,900.0 | 1,888.3 | 1,907.7 | 1,905.0 | 5.3 | 4.2 | -179.32 | -1.7 | -17.8 | 162.1 | 153.8 | 8.29 | 19.553 | |
| 2,000.0 | 1,987.3 | 2,007.7 | 2,004.4 | 5.7 | 4.5 | -179.25 | -1.8 | -28.1 | 165.5 | 156.8 | 8.75 | 18.916 | |
| 2,100.0 | 2,086.4 | 2,107.6 | 2,103.8 | 6.0 | 4.7 | -179.19 | -2.0 | -38.4 | 169.0 | 159.8 | 9.22 | 18.338 | |
| 2,200.0 | 2,185.4 | 2,207.6 | 2,203.2 | 6.4 | 5.0 | -179.13 | -2.1 | -48.7 | 172.4 | 162.7 | 9.68 | 17.812 | |
| 2,300.0 | 2,284.5 | 2,307.5 | 2,302.6 | 6.7 | 5.3 | -179.07 | -2.2 | -59.1 | 175.9 | 165.7 | 10.15 | 17.332 | |
| 2,400.0 | 2,383.5 | 2,407.4 | 2,402.0 | 7.1 | 5.6 | -179.01 | -2.3 | -69.4 | 179.3 | 168.7 | 10.62 | 16.891 | |
| 2,500.0 | 2,482.6 | 2,507.4 | 2,501.4 | 7.4 | 5.8 | -178.96 | -2.4 | -79.7 | 182.8 | 171.7 | 11.09 | 16.486 | |
| 2,600.0 | 2,581.6 | 2,607.3 | 2,600.8 | 7.7 | 6.1 | -178.90 | -2.5 | -90.0 | 186.2 | 174.6 | 11.56 | 16.113 | |
| 2,700.0 | 2,680.7 | 2,707.3 | 2,700.3 | 8.1 | 6.4 | -178.85 | -2.6 | -100.3 | 189.6 | 177.6 | 12.03 | 15.767 | |
| 2,800.0 | 2,779.7 | 2,807.2 | 2,799.7 | 8.4 | 6.7 | -178.81 | -2.7 | -110.7 | 193.1 | 180.6 | 12.50 | 15.446 | |
| 2,900.0 | 2,878.8 | 2,907.1 | 2,899.1 | 8.8 | 7.0 | -178.76 | -2.9 | -121.0 | 196.5 | 183.6 | 12.97 | 15.148 | |
| 3,000.0 | 2,977.8 | 3,007.1 | 2,998.5 | 9.1 | 7.3 | -178.71 | -3.0 | -131.3 | 200.0 | 186.5 | 13.45 | 14.871 | |
| 3,100.0 | 3,076.9 | 3,107.0 | 3,097.9 | 9.5 | 7.5 | -178.67 | -3.1 | -141.6 | 203.4 | 189.5 | 13.92 | 14.611 | |
| 3,200.0 | 3,175.9 | 3,207.0 | 3,197.3 | 9.8 | 7.8 | -178.63 | -3.2 | -151.9 | 206.9 | 192.5 | 14.40 | 14.368 | |
| 3,300.0 | 3,275.0 | 3,306.9 | 3,296.7 | 10.2 | 8.1 | -178.59 | -3.3 | -162.3 | 210.3 | 195.4 | 14.87 | 14.140 | |
| 3,400.0 | 3,374.1 | 3,406.8 | 3,396.1 | 10.5 | 8.4 | -178.55 | -3.4 | -172.6 | 213.7 | 198.4 | 15.35 | 13.926 | |
| 3,500.0 | 3,473.1 | 3,506.8 | 3,495.5 | 10.9 | 8.7 | -178.51 | -3.5 | -182.9 | 217.2 | 201.4 | 15.82 | 13.724 | |
| 3,600.0 | 3,572.2 | 3,606.7 | 3,594.9 | 11.2 | 9.0 | -178.47 | -3.7 | -193.2 | 220.6 | 204.3 | 16.30 | 13.534 | |
| 3,700.0 | 3,671.2 | 3,706.7 | 3,694.3 | 11.5 | 9.3 | -178.44 | -3.8 | -203.5 | 224.1 | 207.3 | 16.78 | 13.354 | |
| 3,800.0 | 3,770.3 | 3,806.6 | 3,793.7 | 11.9 | 9.6 | -178.40 | -3.9 | -213.9 | 227.5 | 210.3 | 17.26 | 13.184 | |
| 3,900.0 | 3,869.3 | 3,906.5 | 3,893.1 | 12.2 | 9.9 | -178.37 | -4.0 | -224.2 | 231.0 | 213.2 | 17.73 | 13.023 | |
| 4,000.0 | 3,968.4 | 4,006.5 | 3,992.5 | 12.6 | 10.2 | -178.33 | -4.1 | -234.5 | 234.4 | 216.2 | 18.21 | 12.870 | |
| 4,100.0 | 4,067.4 | 4,106.4 | 4,091.9 | 12.9 | 10.5 | -178.30 | -4.2 | -244.8 | 237.8 | 219.2 | 18.69 | 12.725 | |
| 4,200.0 | 4,166.5 | 4,206.4 | 4,191.3 | 13.3 | 10.7 | -178.27 | -4.3 | -255.1 | 241.3 | 222.1 | 19.17 | 12.587 | |
| 4,300.0 | 4,265.5 | 4,306.3 | 4,290.8 | 13.6 | 11.0 | -178.24 | -4.4 | -265.5 | 244.7 | 225.1 | 19.65 | 12.455 | |
| 4,400.0 | 4,364.6 | 4,406.2 | 4,390.2 | 14.0 | 11.3 | -178.21 | -4.6 | -275.8 | 248.2 | 228.0 | 20.13 | 12.330 | |
| 4,500.0 | 4,463.6 | 4,506.2 | 4,489.6 | 14.3 | 11.6 | -178.18 | -4.7 | -286.1 | 251.6 | 231.0 | 20.61 | 12.210 | |
| 4,600.0 | 4,562.7 | 4,606.1 | 4,589.0 | 14.7 | 11.9 | -178.16 | -4.8 | -296.4 | 255.1 | 234.0 | 21.09 | 12.096 | |
| 4,700.0 | 4,661.7 | 4,706.1 | 4,688.4 | 15.0 | 12.2 | -178.13 | -4.9 | -306.7 | 258.5 | 236.9 | 21.57 | 11.987 | |
| 4,800.0 | 4,760.8 | 4,800.0 | 4,781.9 | 15.4 | 12.5 | -178.12 | -5.0 | -315.4 | 263.1 | 241.1 | 22.01 | 11.951 | |
| 4,900.0 | 4,859.8 | 4,890.2 | 4,871.9 | 15.7 | 12.6 | -178.14 | -5.1 | -320.8 | 270.8 | 248.4 | 22.42 | 12.076 | |
| 5,000.0 | 4,958.9 | 4,980.9 | 4,962.6 | 16.0 | 12.8 | -178.19 | -5.1 | -323.4 | 281.7 | 258.8 | 22.83 | 12.336 | |
| 5,100.0 | 5,057.9 | 5,076.2 | 5,057.9 | 16.4 | 12.9 | -178.27 | -5.1 | -323.7 | 295.1 | 271.9 | 23.26 | 12.690 | |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies T-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)

**Offset Site Error:** 0.0 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.0 | 5,157.0 | 5,175.3 | 5,157.0 | 16.7 | 13.1 | -178.35 | -5.1 | -323.7 | 308.9 | 285.2 | 23.70 | 13.033 | |
| 5,300.0 | 5,256.0 | 5,274.3 | 5,256.0 | 17.1 | 13.3 | -178.42 | -5.1 | -323.7 | 322.6 | 298.4 | 24.14 | 13.362 | |
| 5,400.0 | 5,355.1 | 5,373.4 | 5,355.1 | 17.4 | 13.5 | -178.48 | -5.1 | -323.7 | 336.3 | 311.7 | 24.59 | 13.678 | |
| 5,500.0 | 5,454.1 | 5,472.4 | 5,454.1 | 17.8 | 13.7 | -178.54 | -5.1 | -323.7 | 350.1 | 325.0 | 25.03 | 13.983 | |
| 5,600.0 | 5,553.2 | 5,571.5 | 5,553.2 | 18.1 | 13.8 | -178.60 | -5.1 | -323.7 | 363.8 | 338.3 | 25.48 | 14.277 | |
| 5,700.0 | 5,652.2 | 5,670.5 | 5,652.2 | 18.5 | 14.0 | -178.65 | -5.1 | -323.7 | 377.5 | 351.6 | 25.93 | 14.560 | |
| 5,800.0 | 5,751.3 | 5,769.6 | 5,751.3 | 18.8 | 14.2 | -178.70 | -5.1 | -323.7 | 391.3 | 364.9 | 26.38 | 14.834 | |
| 5,900.0 | 5,850.3 | 5,868.6 | 5,850.3 | 19.2 | 14.4 | -178.74 | -5.1 | -323.7 | 405.0 | 378.2 | 26.82 | 15.098 | |
| 6,000.0 | 5,949.4 | 5,967.7 | 5,949.4 | 19.5 | 14.6 | -178.78 | -5.1 | -323.7 | 418.4 | 391.1 | 27.27 | 15.341 | |
| 6,100.0 | 6,048.9 | 6,067.2 | 6,048.9 | 19.7 | 14.8 | -178.82 | -5.1 | -323.7 | 428.9 | 401.2 | 27.67 | 15.501 | |
| 6,200.0 | 6,148.6 | 6,166.9 | 6,148.6 | 19.9 | 15.0 | -178.84 | -5.1 | -323.7 | 435.9 | 407.9 | 28.03 | 15.550 | |
| 6,300.0 | 6,248.6 | 6,266.9 | 6,248.6 | 20.0 | 15.2 | -178.85 | -5.1 | -323.7 | 439.5 | 411.1 | 28.36 | 15.493 | |
| 6,400.0 | 6,348.6 | 6,366.9 | 6,348.6 | 20.2 | 15.4 | 91.81 | -5.1 | -323.7 | 439.9 | 411.2 | 28.72 | 15.317 | |
| 6,500.0 | 6,448.6 | 6,466.9 | 6,448.6 | 20.3 | 15.6 | 91.81 | -5.1 | -323.7 | 439.9 | 410.8 | 29.12 | 15.108 | |
| 6,600.0 | 6,548.6 | 6,566.3 | 6,548.0 | 20.5 | 15.7 | -87.98 | -5.5 | -323.7 | 439.9 | 410.4 | 29.50 | 14.910 | |
| 6,700.0 | 6,647.9 | 6,664.2 | 6,645.3 | 20.6 | 15.9 | -88.01 | -15.5 | -323.7 | 439.9 | 410.1 | 29.86 | 14.732 | |
| 6,800.0 | 6,744.9 | 6,762.1 | 6,740.4 | 20.7 | 16.1 | -88.07 | -38.6 | -323.6 | 439.9 | 409.7 | 30.23 | 14.551 | |
| 6,900.0 | 6,837.5 | 6,860.2 | 6,831.5 | 20.9 | 16.3 | -88.18 | -74.6 | -323.4 | 439.9 | 409.2 | 30.65 | 14.350 | |
| 7,000.0 | 6,924.1 | 6,958.3 | 6,917.0 | 21.1 | 16.5 | -88.32 | -122.7 | -323.2 | 439.9 | 408.7 | 31.17 | 14.110 | |
| 7,100.0 | 7,002.9 | 7,056.6 | 6,995.2 | 21.3 | 16.8 | -88.49 | -182.1 | -323.0 | 439.8 | 408.0 | 31.86 | 13.806 | |
| 7,200.0 | 7,072.3 | 7,155.1 | 7,064.6 | 21.6 | 17.2 | -88.69 | -251.8 | -322.7 | 439.8 | 407.0 | 32.77 | 13.422 | |
| 7,300.0 | 7,131.0 | 7,253.8 | 7,124.0 | 22.0 | 17.7 | -88.91 | -330.5 | -322.4 | 439.8 | 405.8 | 33.96 | 12.952 | |
| 7,400.0 | 7,178.0 | 7,352.7 | 7,172.1 | 22.5 | 18.3 | -89.16 | -416.9 | -322.1 | 439.8 | 404.3 | 35.46 | 12.403 | |
| 7,500.0 | 7,212.2 | 7,452.0 | 7,207.9 | 23.1 | 19.2 | -89.42 | -509.4 | -321.7 | 439.8 | 402.5 | 37.28 | 11.797 | |
| 7,563.4 | 7,227.0 | 7,515.1 | 7,223.9 | 23.6 | 19.8 | -89.59 | -570.4 | -321.5 | 439.8 | 401.1 | 38.61 | 11.390 | |
| 7,600.0 | 7,233.0 | 7,551.5 | 7,230.7 | 23.9 | 20.2 | -89.70 | -606.1 | -321.4 | 439.8 | 400.4 | 39.40 | 11.162 | |
| 7,700.0 | 7,240.0 | 7,651.3 | 7,239.8 | 24.9 | 21.3 | -89.98 | -705.4 | -321.0 | 439.8 | 398.0 | 41.78 | 10.527 | |
| 7,800.0 | 7,240.0 | 7,751.3 | 7,240.0 | 25.9 | 22.6 | -90.00 | -805.4 | -320.6 | 439.8 | 395.4 | 44.35 | 9.915 | |
| 7,900.0 | 7,240.0 | 7,851.3 | 7,240.0 | 27.1 | 23.9 | -90.00 | -905.4 | -320.2 | 439.8 | 392.7 | 47.09 | 9.339 | |
| 8,000.0 | 7,240.0 | 7,951.3 | 7,240.0 | 28.3 | 25.3 | -90.00 | -1,005.4 | -319.8 | 439.8 | 389.8 | 49.98 | 8.800 | |
| 8,100.0 | 7,240.0 | 8,051.3 | 7,240.0 | 29.7 | 26.8 | -90.00 | -1,105.4 | -319.4 | 439.8 | 386.8 | 52.99 | 8.301 | |
| 8,200.0 | 7,240.0 | 8,151.3 | 7,240.0 | 31.1 | 28.3 | -90.00 | -1,205.4 | -319.0 | 439.8 | 383.7 | 56.10 | 7.841 | |
| 8,300.0 | 7,240.0 | 8,251.3 | 7,240.0 | 32.5 | 29.9 | -90.00 | -1,305.4 | -318.6 | 439.9 | 380.6 | 59.30 | 7.418 | |
| 8,400.0 | 7,240.0 | 8,351.3 | 7,240.0 | 34.0 | 31.5 | -90.00 | -1,405.4 | -318.2 | 439.9 | 377.3 | 62.57 | 7.030 | |
| 8,500.0 | 7,240.0 | 8,451.3 | 7,240.0 | 35.5 | 33.2 | -90.00 | -1,505.4 | -317.9 | 439.9 | 374.0 | 65.90 | 6.675 | |
| 8,600.0 | 7,240.0 | 8,551.3 | 7,240.0 | 37.1 | 34.8 | -90.00 | -1,605.4 | -317.5 | 439.9 | 370.6 | 69.29 | 6.349 | |
| 8,700.0 | 7,240.0 | 8,651.3 | 7,240.0 | 38.7 | 36.6 | -90.00 | -1,705.4 | -317.1 | 439.9 | 367.2 | 72.72 | 6.049 | |
| 8,800.0 | 7,240.0 | 8,751.3 | 7,240.0 | 40.4 | 38.3 | -90.00 | -1,805.4 | -316.7 | 439.9 | 363.7 | 76.20 | 5.774 | |
| 8,900.0 | 7,240.0 | 8,851.3 | 7,240.0 | 42.0 | 40.0 | -90.00 | -1,905.4 | -316.3 | 439.9 | 360.2 | 79.71 | 5.520 | |
| 9,000.0 | 7,240.0 | 8,951.3 | 7,240.0 | 43.7 | 41.8 | -90.00 | -2,005.4 | -315.9 | 440.0 | 356.7 | 83.24 | 5.285 | |
| 9,100.0 | 7,240.0 | 9,051.3 | 7,240.0 | 45.4 | 43.5 | -90.00 | -2,105.4 | -315.5 | 440.0 | 353.2 | 86.81 | 5.068 | |
| 9,200.0 | 7,240.0 | 9,151.3 | 7,240.0 | 47.2 | 45.3 | -90.00 | -2,205.4 | -315.1 | 440.0 | 349.6 | 90.40 | 4.867 | |
| 9,300.0 | 7,240.0 | 9,251.3 | 7,240.0 | 48.9 | 47.1 | -90.00 | -2,305.4 | -314.8 | 440.0 | 346.0 | 94.01 | 4.681 | |
| 9,400.0 | 7,240.0 | 9,351.3 | 7,240.0 | 50.6 | 48.9 | -90.00 | -2,405.4 | -314.4 | 440.0 | 342.4 | 97.64 | 4.507 | |
| 9,500.0 | 7,240.0 | 9,451.3 | 7,240.0 | 52.4 | 50.7 | -90.00 | -2,505.4 | -314.0 | 440.0 | 338.8 | 101.28 | 4.345 | |
| 9,600.0 | 7,240.0 | 9,551.3 | 7,240.0 | 54.2 | 52.6 | -90.00 | -2,605.4 | -313.6 | 440.1 | 335.1 | 104.94 | 4.193 | |
| 9,700.0 | 7,240.0 | 9,651.3 | 7,240.0 | 56.0 | 54.4 | -90.00 | -2,705.4 | -313.2 | 440.1 | 331.5 | 108.61 | 4.052 | |
| 9,800.0 | 7,240.0 | 9,751.3 | 7,240.0 | 57.8 | 56.2 | -90.00 | -2,805.4 | -312.8 | 440.1 | 327.8 | 112.29 | 3.919 | |
| 9,900.0 | 7,240.0 | 9,851.3 | 7,240.0 | 59.6 | 58.1 | -90.00 | -2,905.4 | -312.4 | 440.1 | 324.1 | 115.99 | 3.794 | |
| 10,000.0 | 7,240.0 | 9,951.3 | 7,240.0 | 61.4 | 59.9 | -90.00 | -3,005.4 | -312.0 | 440.1 | 320.4 | 119.69 | 3.677 | |
| 10,100.0 | 7,240.0 | 10,051.3 | 7,240.0 | 63.2 | 61.8 | -90.00 | -3,105.4 | -311.6 | 440.1 | 316.7 | 123.41 | 3.566 | |
| 10,200.0 | 7,240.0 | 10,151.3 | 7,240.0 | 65.0 | 63.6 | -90.00 | -3,205.4 | -311.3 | 440.1 | 313.0 | 127.13 | 3.462 | |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

**Offset Design** SRC Gies Pad Sec.15-T7N-R65W - SRC Gies T-15-22NHZ - Wellbore #1 - Plan #1 (5-7-14)

**Offset Site Error:** 0.0 ft

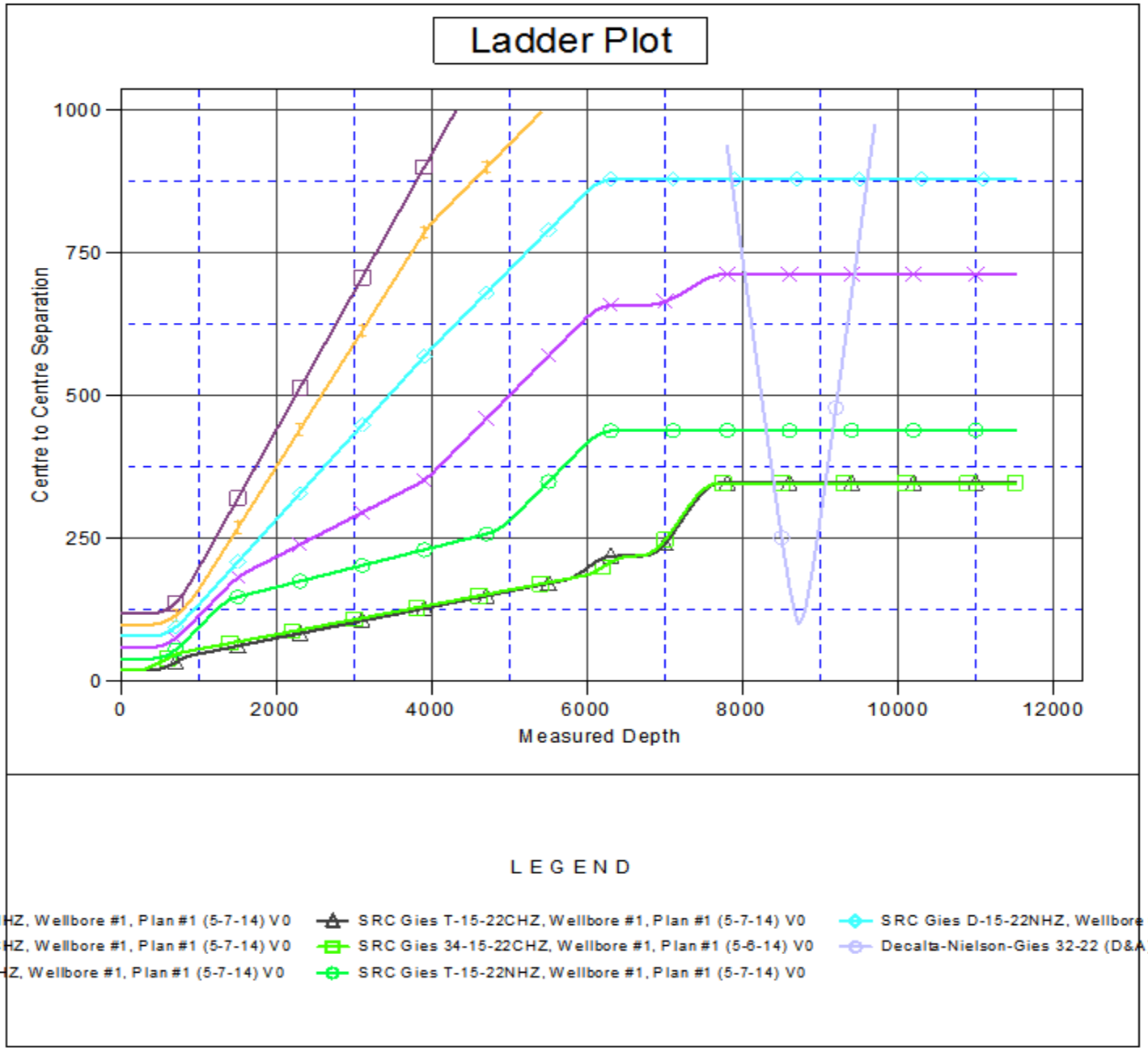
**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,300.0 | 7,240.0 | 10,251.3 | 7,240.0 | 66.8 | 65.5 | -90.00 | -3,305.4 | -310.9 | 440.2 | 309.3 | 130.86 | 3.364 | |
| 10,400.0 | 7,240.0 | 10,351.3 | 7,240.0 | 68.7 | 67.3 | -90.00 | -3,405.4 | -310.5 | 440.2 | 305.6 | 134.59 | 3.270 | |
| 10,500.0 | 7,240.0 | 10,451.3 | 7,240.0 | 70.5 | 69.2 | -90.00 | -3,505.4 | -310.1 | 440.2 | 301.9 | 138.34 | 3.182 | |
| 10,600.0 | 7,240.0 | 10,551.3 | 7,240.0 | 72.3 | 71.1 | -90.00 | -3,605.4 | -309.7 | 440.2 | 298.1 | 142.08 | 3.098 | |
| 10,700.0 | 7,240.0 | 10,651.3 | 7,240.0 | 74.2 | 73.0 | -90.00 | -3,705.4 | -309.3 | 440.2 | 294.4 | 145.84 | 3.019 | |
| 10,800.0 | 7,240.0 | 10,751.3 | 7,240.0 | 76.0 | 74.8 | -90.00 | -3,805.4 | -308.9 | 440.2 | 290.6 | 149.60 | 2.943 | |
| 10,900.0 | 7,240.0 | 10,851.3 | 7,240.0 | 77.9 | 76.7 | -90.00 | -3,905.4 | -308.5 | 440.3 | 286.9 | 153.36 | 2.871 | |
| 11,000.0 | 7,240.0 | 10,951.3 | 7,240.0 | 79.8 | 78.6 | -90.00 | -4,005.4 | -308.1 | 440.3 | 283.1 | 157.13 | 2.802 | |
| 11,100.0 | 7,240.0 | 11,051.3 | 7,240.0 | 81.6 | 80.5 | -90.00 | -4,105.4 | -307.8 | 440.3 | 279.4 | 160.90 | 2.736 | |
| 11,200.0 | 7,240.0 | 11,151.3 | 7,240.0 | 83.5 | 82.4 | -90.00 | -4,205.4 | -307.4 | 440.3 | 275.6 | 164.67 | 2.674 | |
| 11,300.0 | 7,240.0 | 11,251.3 | 7,240.0 | 85.3 | 84.2 | -90.00 | -4,305.4 | -307.0 | 440.3 | 271.9 | 168.45 | 2.614 | |
| 11,400.0 | 7,240.0 | 11,351.3 | 7,240.0 | 87.2 | 86.1 | -90.00 | -4,405.4 | -306.6 | 440.3 | 268.1 | 172.23 | 2.557 | |
| 11,500.0 | 7,240.0 | 11,451.3 | 7,240.0 | 89.1 | 88.0 | -90.00 | -4,505.4 | -306.2 | 440.3 | 264.3 | 176.02 | 2.502 | |
| 11,509.0 | 7,240.0 | 11,460.2 | 7,240.0 | 89.3 | 88.2 | -90.00 | -4,514.4 | -306.2 | 440.3 | 264.0 | 176.35 | 2.497 | SF |

| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to WELL @ 4851.0ft (Original Well Elev) Coordinates are relative to: SRC Gies 34-15-22NHZ
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.55°



| | | | |
|---|---|---|---|
| **Company:** | Synergy Resources | **Local Co-ordinate Reference:** | Well SRC Gies 34-15-22NHZ |
| **Project:** | SEC.15-T7N-R65W | **TVD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Reference Site:** | SRC Gies Pad Sec.15-T7N-R65W | **MD Reference:** | WELL @ 4851.0ft (Original Well Elev) |
| **Site Error:** | 0.0ft | **North Reference:** | True |
| **Reference Well:** | SRC Gies 34-15-22NHZ | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Wellbore #1 | **Database:** | landmark |
| **Reference Design:** | Plan #1 (5-7-14) | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to WELL @ 4851.0ft (Original Well Elev) Coordinates are relative to: SRC Gies 34-15-22NHZ
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.55°