

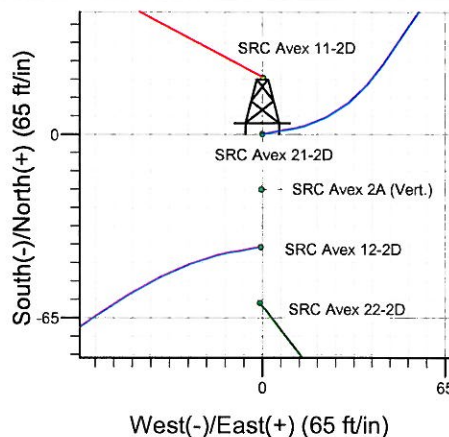
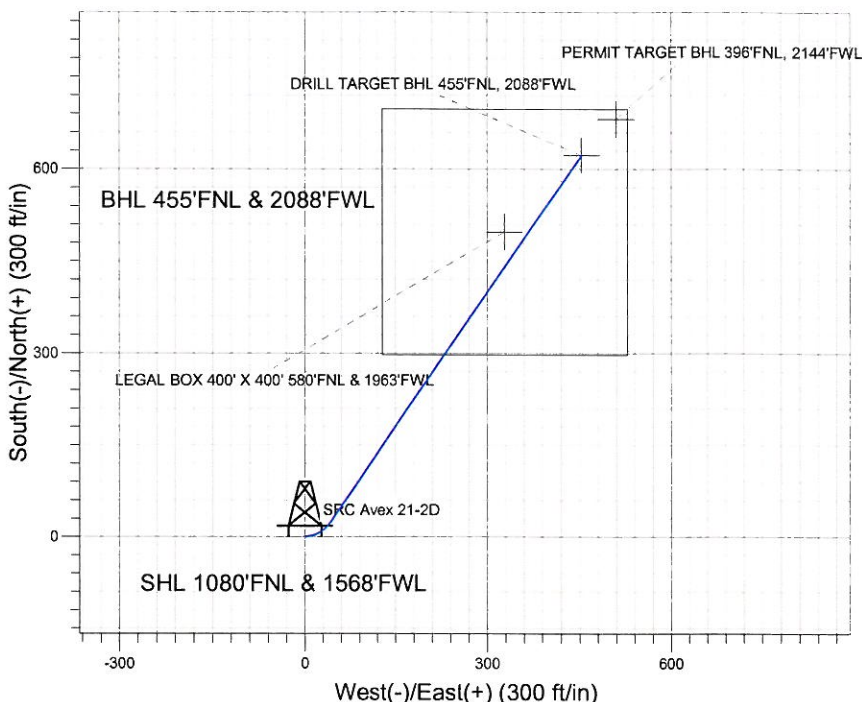
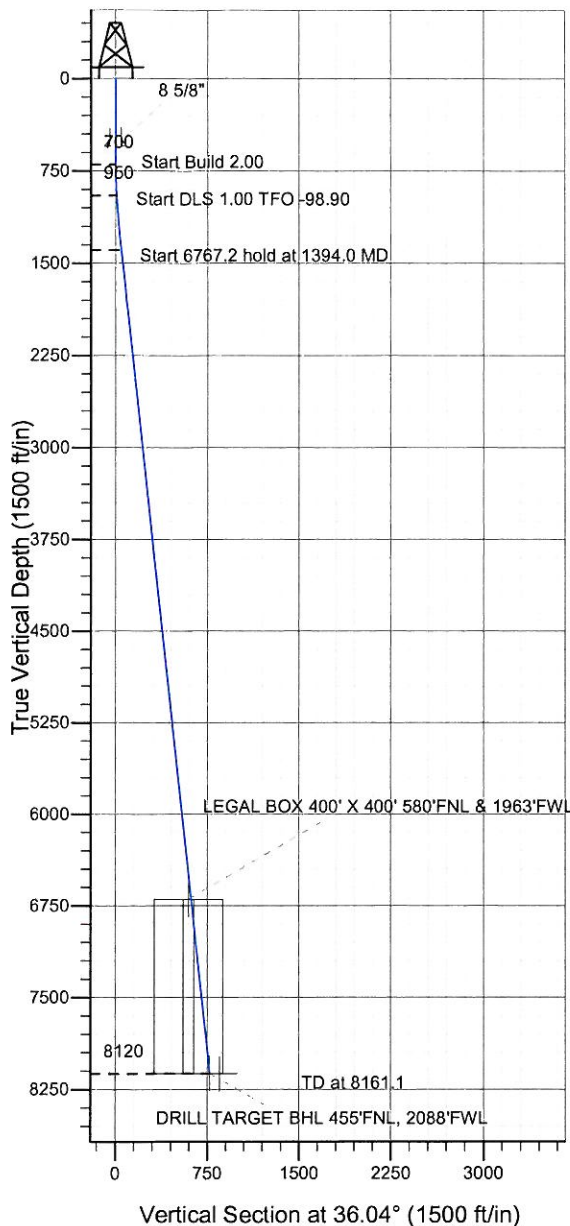
ENSIGN

Directional

Well Name: SRC Avex 21-2D

Surface Location: SRC Avex 11-2D Pad Sec.2-T4N-R68W
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 5003.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1369395.48 3146436.52 40.346201 -104.974629
 Original Well Elev WELL @ 5016.0ft (Original Well Elev)

Synergy Resources



SRC Avex 11-2D Pad Sec.2-T4N-R68W
 SRC Avex 21-2D
 Plan #1 (7-13-11)
 9:45, July 22 2011



Azimuths to True North
 Magnetic North: 8.96°
 Magnetic Field
 Strength: 53070.8snT
 Dip Angle: 66.97°
 Date: 7/13/2011
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
|--|--------|-------|-------|-----------|-------------|----------------------------------|
| LEGAL BOX 400' X 400' 580'FNL & 1963'FWL | 6700.0 | 497.6 | 328.0 | 40.347567 | -104.973452 | Rectangle (Sides: L400.0 W400.0) |
| DRILL TARGET BHL 455'FNL, 2088'FWL | 8120.0 | 622.6 | 453.0 | 40.347910 | -104.973004 | Point |
| PERMIT TARGET BHL 396'FNL, 2144'FWL | 8120.0 | 681.6 | 509.0 | 40.348072 | -104.972803 | Point |

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 | 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 950.0 | 5.00 | 80.00 | 949.7 | 1.9 | 10.7 | 2.00 | 80.00 | 7.8 | |
| 4 | 1394.0 | 6.15 | 34.43 | 1391.8 | 24.9 | 43.2 | 1.00 | -98.90 | 45.6 | |
| 5 | 8161.1 | 6.15 | 34.43 | 8120.0 | 622.6 | 453.0 | 0.00 | 0.00 | 770.0 | DRILL TARGET BHL 455'FNL, 2088'FWL |



Directional

Synergy Resources

SEC.2-T4N-R68W

SRC Avex 11-2D Pad Sec.2-T4N-R68W

SRC Avex 21-2D

Wellbore #1

Plan: Plan #1 (7-13-11)

Standard Planning Report

22 July, 2011

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well SRC Avex 21-2D |
| Company: | Synergy Resources | TVD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Project: | SEC.2-T4N-R68W | MD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Site: | SRC Avex 11-2D Pad Sec.2-T4N-R68W | North Reference: | True |
| Well: | SRC Avex 21-2D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (7-13-11) | | |

| | | | |
|--------------------|---------------------------------------|----------------------|-----------------------------|
| Project | SEC.2-T4N-R68W, Weld County, Colorado | | |
| 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 Avex 11-2D Pad Sec.2-T4N-R68W | | | |
| Site Position: | | Northing: | 1,369,415.53 ft | Latitude: | 40.346256 |
| From: | Lat/Long | Easting: | 3,146,436.68 ft | Longitude: | -104.974628 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | " | Grid Convergence: | 0.34 ° |

| | | | | | | |
|----------------------|----------------|----------|---------------------|-----------------|---------------|-------------|
| Well | SRC Avex 21-2D | | | | | |
| Well Position | +N/-S | -20.0 ft | Northing: | 1,369,395.48 ft | Latitude: | 40.346201 |
| | +E/-W | -0.3 ft | Easting: | 3,146,436.52 ft | Longitude: | -104.974629 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 5,003.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 7/13/2011 | 8.96 | 66.97 | 53,071 |

| | | | | |
|--------------------------|-------------------------|-------------------|----------------------|----------------------|
| Design | Plan #1 (7-13-11) | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 36.04 |

| 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 | |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 950.0 | 5.00 | 80.00 | 949.7 | 1.9 | 10.7 | 2.00 | 2.00 | 0.00 | 80.00 | |
| 1,394.0 | 6.15 | 34.43 | 1,391.8 | 24.9 | 43.2 | 1.00 | 0.26 | -10.26 | -98.90 | |
| 8,161.1 | 6.15 | 34.43 | 8,120.0 | 622.6 | 453.0 | 0.00 | 0.00 | 0.00 | 0.00 | DRILL TARGET BH |

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well SRC Avex 21-2D |
| Company: | Synergy Resources | TVD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Project: | SEC.2-T4N-R68W | MD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Site: | SRC Avex 11-2D Pad Sec.2-T4N-R68W | North Reference: | True |
| Well: | SRC Avex 21-2D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (7-13-11) | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 40.0 | 0.00 | 0.00 | 40.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 80.0 | 0.00 | 0.00 | 80.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 120.0 | 0.00 | 0.00 | 120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 160.0 | 0.00 | 0.00 | 160.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 240.0 | 0.00 | 0.00 | 240.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 280.0 | 0.00 | 0.00 | 280.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 320.0 | 0.00 | 0.00 | 320.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 360.0 | 0.00 | 0.00 | 360.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 440.0 | 0.00 | 0.00 | 440.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 480.0 | 0.00 | 0.00 | 480.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 520.0 | 0.00 | 0.00 | 520.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 550.0 | 0.00 | 0.00 | 550.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8 5/8" | | | | | | | | | |
| 560.0 | 0.00 | 0.00 | 560.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 640.0 | 0.00 | 0.00 | 640.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 680.0 | 0.00 | 0.00 | 680.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 720.0 | 0.40 | 80.00 | 720.0 | 0.0 | 0.1 | 0.1 | 2.00 | 2.00 | 0.00 |
| 760.0 | 1.20 | 80.00 | 760.0 | 0.1 | 0.6 | 0.5 | 2.00 | 2.00 | 0.00 |
| 800.0 | 2.00 | 80.00 | 800.0 | 0.3 | 1.7 | 1.3 | 2.00 | 2.00 | 0.00 |
| 840.0 | 2.80 | 80.00 | 839.9 | 0.6 | 3.4 | 2.5 | 2.00 | 2.00 | 0.00 |
| 880.0 | 3.60 | 80.00 | 879.9 | 1.0 | 5.6 | 4.1 | 2.00 | 2.00 | 0.00 |
| 920.0 | 4.40 | 80.00 | 919.8 | 1.5 | 8.3 | 6.1 | 2.00 | 2.00 | 0.00 |
| 950.0 | 5.00 | 80.00 | 949.7 | 1.9 | 10.7 | 7.8 | 2.00 | 2.00 | 0.00 |
| 960.0 | 4.99 | 78.86 | 959.6 | 2.1 | 11.6 | 8.5 | 1.00 | -0.14 | -11.37 |
| 1,000.0 | 4.95 | 74.26 | 999.5 | 2.9 | 15.0 | 11.1 | 1.00 | -0.10 | -11.50 |
| 1,040.0 | 4.94 | 69.62 | 1,039.3 | 3.9 | 18.2 | 13.9 | 1.00 | -0.02 | -11.60 |
| 1,080.0 | 4.97 | 65.00 | 1,079.2 | 5.3 | 21.4 | 16.8 | 1.00 | 0.07 | -11.56 |
| 1,120.0 | 5.03 | 60.45 | 1,119.0 | 6.9 | 24.5 | 20.0 | 1.00 | 0.14 | -11.36 |
| 1,160.0 | 5.11 | 56.04 | 1,158.9 | 8.7 | 27.5 | 23.2 | 1.00 | 0.22 | -11.04 |
| 1,200.0 | 5.23 | 51.79 | 1,198.7 | 10.8 | 30.4 | 26.7 | 1.00 | 0.29 | -10.60 |
| 1,240.0 | 5.38 | 47.76 | 1,238.6 | 13.2 | 33.2 | 30.2 | 1.00 | 0.36 | -10.09 |
| 1,280.0 | 5.55 | 43.95 | 1,278.4 | 15.9 | 36.0 | 34.0 | 1.00 | 0.42 | -9.52 |
| 1,320.0 | 5.74 | 40.39 | 1,318.2 | 18.8 | 38.6 | 37.9 | 1.00 | 0.48 | -8.92 |
| 1,360.0 | 5.95 | 37.06 | 1,358.0 | 22.0 | 41.2 | 42.0 | 1.00 | 0.53 | -8.31 |
| 1,394.0 | 6.15 | 34.43 | 1,391.8 | 24.9 | 43.2 | 45.6 | 1.00 | 0.58 | -7.76 |
| 1,400.0 | 6.15 | 34.43 | 1,397.7 | 25.4 | 43.6 | 46.2 | 0.00 | 0.00 | 0.00 |
| 1,440.0 | 6.15 | 34.43 | 1,437.5 | 28.9 | 46.0 | 50.5 | 0.00 | 0.00 | 0.00 |
| 1,480.0 | 6.15 | 34.43 | 1,477.3 | 32.5 | 48.5 | 54.8 | 0.00 | 0.00 | 0.00 |
| 1,520.0 | 6.15 | 34.43 | 1,517.1 | 36.0 | 50.9 | 59.0 | 0.00 | 0.00 | 0.00 |
| 1,560.0 | 6.15 | 34.43 | 1,556.8 | 39.5 | 53.3 | 63.3 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 6.15 | 34.43 | 1,596.6 | 43.1 | 55.7 | 67.6 | 0.00 | 0.00 | 0.00 |
| 1,640.0 | 6.15 | 34.43 | 1,636.4 | 46.6 | 58.1 | 71.9 | 0.00 | 0.00 | 0.00 |
| 1,680.0 | 6.15 | 34.43 | 1,676.1 | 50.1 | 60.6 | 76.2 | 0.00 | 0.00 | 0.00 |
| 1,720.0 | 6.15 | 34.43 | 1,715.9 | 53.7 | 63.0 | 80.5 | 0.00 | 0.00 | 0.00 |
| 1,760.0 | 6.15 | 34.43 | 1,755.7 | 57.2 | 65.4 | 84.7 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 6.15 | 34.43 | 1,795.4 | 60.7 | 67.8 | 89.0 | 0.00 | 0.00 | 0.00 |
| 1,840.0 | 6.15 | 34.43 | 1,835.2 | 64.3 | 70.3 | 93.3 | 0.00 | 0.00 | 0.00 |
| 1,880.0 | 6.15 | 34.43 | 1,875.0 | 67.8 | 72.7 | 97.6 | 0.00 | 0.00 | 0.00 |
| 1,920.0 | 6.15 | 34.43 | 1,914.8 | 71.3 | 75.1 | 101.9 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well SRC Avex 21-2D |
| Company: | Synergy Resources | TVD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Project: | SEC.2-T4N-R68W | MD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Site: | SRC Avex 11-2D Pad Sec.2-T4N-R68W | North Reference: | True |
| Well: | SRC Avex 21-2D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (7-13-11) | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 1,960.0 | 6.15 | 34.43 | 1,954.5 | 74.9 | 77.5 | 106.1 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 6.15 | 34.43 | 1,994.3 | 78.4 | 79.9 | 110.4 | 0.00 | 0.00 | 0.00 |
| 2,040.0 | 6.15 | 34.43 | 2,034.1 | 81.9 | 82.4 | 114.7 | 0.00 | 0.00 | 0.00 |
| 2,080.0 | 6.15 | 34.43 | 2,073.8 | 85.5 | 84.8 | 119.0 | 0.00 | 0.00 | 0.00 |
| 2,120.0 | 6.15 | 34.43 | 2,113.6 | 89.0 | 87.2 | 123.3 | 0.00 | 0.00 | 0.00 |
| 2,160.0 | 6.15 | 34.43 | 2,153.4 | 92.5 | 89.6 | 127.6 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 6.15 | 34.43 | 2,193.1 | 96.1 | 92.0 | 131.8 | 0.00 | 0.00 | 0.00 |
| 2,240.0 | 6.15 | 34.43 | 2,232.9 | 99.6 | 94.5 | 136.1 | 0.00 | 0.00 | 0.00 |
| 2,280.0 | 6.15 | 34.43 | 2,272.7 | 103.1 | 96.9 | 140.4 | 0.00 | 0.00 | 0.00 |
| 2,320.0 | 6.15 | 34.43 | 2,312.5 | 106.7 | 99.3 | 144.7 | 0.00 | 0.00 | 0.00 |
| 2,360.0 | 6.15 | 34.43 | 2,352.2 | 110.2 | 101.7 | 149.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 6.15 | 34.43 | 2,392.0 | 113.7 | 104.2 | 153.3 | 0.00 | 0.00 | 0.00 |
| 2,440.0 | 6.15 | 34.43 | 2,431.8 | 117.3 | 106.6 | 157.5 | 0.00 | 0.00 | 0.00 |
| 2,480.0 | 6.15 | 34.43 | 2,471.5 | 120.8 | 109.0 | 161.8 | 0.00 | 0.00 | 0.00 |
| 2,520.0 | 6.15 | 34.43 | 2,511.3 | 124.3 | 111.4 | 166.1 | 0.00 | 0.00 | 0.00 |
| 2,560.0 | 6.15 | 34.43 | 2,551.1 | 127.9 | 113.8 | 170.4 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 6.15 | 34.43 | 2,590.8 | 131.4 | 116.3 | 174.7 | 0.00 | 0.00 | 0.00 |
| 2,640.0 | 6.15 | 34.43 | 2,630.6 | 134.9 | 118.7 | 178.9 | 0.00 | 0.00 | 0.00 |
| 2,680.0 | 6.15 | 34.43 | 2,670.4 | 138.5 | 121.1 | 183.2 | 0.00 | 0.00 | 0.00 |
| 2,720.0 | 6.15 | 34.43 | 2,710.2 | 142.0 | 123.5 | 187.5 | 0.00 | 0.00 | 0.00 |
| 2,760.0 | 6.15 | 34.43 | 2,749.9 | 145.5 | 126.0 | 191.8 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 6.15 | 34.43 | 2,789.7 | 149.1 | 128.4 | 196.1 | 0.00 | 0.00 | 0.00 |
| 2,840.0 | 6.15 | 34.43 | 2,829.5 | 152.6 | 130.8 | 200.4 | 0.00 | 0.00 | 0.00 |
| 2,880.0 | 6.15 | 34.43 | 2,869.2 | 156.1 | 133.2 | 204.6 | 0.00 | 0.00 | 0.00 |
| 2,920.0 | 6.15 | 34.43 | 2,909.0 | 159.7 | 135.6 | 208.9 | 0.00 | 0.00 | 0.00 |
| 2,960.0 | 6.15 | 34.43 | 2,948.8 | 163.2 | 138.1 | 213.2 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 6.15 | 34.43 | 2,988.5 | 166.7 | 140.5 | 217.5 | 0.00 | 0.00 | 0.00 |
| 3,040.0 | 6.15 | 34.43 | 3,028.3 | 170.3 | 142.9 | 221.8 | 0.00 | 0.00 | 0.00 |
| 3,080.0 | 6.15 | 34.43 | 3,068.1 | 173.8 | 145.3 | 226.0 | 0.00 | 0.00 | 0.00 |
| 3,120.0 | 6.15 | 34.43 | 3,107.9 | 177.3 | 147.8 | 230.3 | 0.00 | 0.00 | 0.00 |
| 3,160.0 | 6.15 | 34.43 | 3,147.6 | 180.9 | 150.2 | 234.6 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 6.15 | 34.43 | 3,187.4 | 184.4 | 152.6 | 238.9 | 0.00 | 0.00 | 0.00 |
| 3,240.0 | 6.15 | 34.43 | 3,227.2 | 187.9 | 155.0 | 243.2 | 0.00 | 0.00 | 0.00 |
| 3,280.0 | 6.15 | 34.43 | 3,266.9 | 191.5 | 157.4 | 247.5 | 0.00 | 0.00 | 0.00 |
| 3,320.0 | 6.15 | 34.43 | 3,306.7 | 195.0 | 159.9 | 251.7 | 0.00 | 0.00 | 0.00 |
| 3,360.0 | 6.15 | 34.43 | 3,346.5 | 198.5 | 162.3 | 256.0 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 6.15 | 34.43 | 3,386.2 | 202.1 | 164.7 | 260.3 | 0.00 | 0.00 | 0.00 |
| 3,440.0 | 6.15 | 34.43 | 3,426.0 | 205.6 | 167.1 | 264.6 | 0.00 | 0.00 | 0.00 |
| 3,480.0 | 6.15 | 34.43 | 3,465.8 | 209.1 | 169.5 | 268.9 | 0.00 | 0.00 | 0.00 |
| 3,520.0 | 6.15 | 34.43 | 3,505.6 | 212.7 | 172.0 | 273.1 | 0.00 | 0.00 | 0.00 |
| 3,560.0 | 6.15 | 34.43 | 3,545.3 | 216.2 | 174.4 | 277.4 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 6.15 | 34.43 | 3,585.1 | 219.7 | 176.8 | 281.7 | 0.00 | 0.00 | 0.00 |
| 3,640.0 | 6.15 | 34.43 | 3,624.9 | 223.3 | 179.2 | 286.0 | 0.00 | 0.00 | 0.00 |
| 3,680.0 | 6.15 | 34.43 | 3,664.6 | 226.8 | 181.7 | 290.3 | 0.00 | 0.00 | 0.00 |
| 3,720.0 | 6.15 | 34.43 | 3,704.4 | 230.3 | 184.1 | 294.6 | 0.00 | 0.00 | 0.00 |
| 3,760.0 | 6.15 | 34.43 | 3,744.2 | 233.9 | 186.5 | 298.8 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 6.15 | 34.43 | 3,783.9 | 237.4 | 188.9 | 303.1 | 0.00 | 0.00 | 0.00 |
| 3,840.0 | 6.15 | 34.43 | 3,823.7 | 240.9 | 191.3 | 307.4 | 0.00 | 0.00 | 0.00 |
| 3,880.0 | 6.15 | 34.43 | 3,863.5 | 244.5 | 193.8 | 311.7 | 0.00 | 0.00 | 0.00 |
| 3,920.0 | 6.15 | 34.43 | 3,903.3 | 248.0 | 196.2 | 316.0 | 0.00 | 0.00 | 0.00 |
| 3,960.0 | 6.15 | 34.43 | 3,943.0 | 251.5 | 198.6 | 320.3 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 6.15 | 34.43 | 3,982.8 | 255.1 | 201.0 | 324.5 | 0.00 | 0.00 | 0.00 |
| 4,040.0 | 6.15 | 34.43 | 4,022.6 | 258.6 | 203.5 | 328.8 | 0.00 | 0.00 | 0.00 |
| 4,080.0 | 6.15 | 34.43 | 4,062.3 | 262.1 | 205.9 | 333.1 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well SRC Avex 21-2D |
| Company: | Synergy Resources | TVD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Project: | SEC.2-T4N-R68W | MD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Site: | SRC Avex 11-2D Pad Sec.2-T4N-R68W | North Reference: | True |
| Well: | SRC Avex 21-2D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (7-13-11) | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 4,120.0 | 6.15 | 34.43 | 4,102.1 | 265.7 | 208.3 | 337.4 | 0.00 | 0.00 | 0.00 |
| 4,160.0 | 6.15 | 34.43 | 4,141.9 | 269.2 | 210.7 | 341.7 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 6.15 | 34.43 | 4,181.6 | 272.7 | 213.1 | 345.9 | 0.00 | 0.00 | 0.00 |
| 4,240.0 | 6.15 | 34.43 | 4,221.4 | 276.3 | 215.6 | 350.2 | 0.00 | 0.00 | 0.00 |
| 4,280.0 | 6.15 | 34.43 | 4,261.2 | 279.8 | 218.0 | 354.5 | 0.00 | 0.00 | 0.00 |
| 4,320.0 | 6.15 | 34.43 | 4,301.0 | 283.3 | 220.4 | 358.8 | 0.00 | 0.00 | 0.00 |
| 4,360.0 | 6.15 | 34.43 | 4,340.7 | 286.9 | 222.8 | 363.1 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 6.15 | 34.43 | 4,380.5 | 290.4 | 225.3 | 367.4 | 0.00 | 0.00 | 0.00 |
| 4,440.0 | 6.15 | 34.43 | 4,420.3 | 293.9 | 227.7 | 371.6 | 0.00 | 0.00 | 0.00 |
| 4,480.0 | 6.15 | 34.43 | 4,460.0 | 297.5 | 230.1 | 375.9 | 0.00 | 0.00 | 0.00 |
| 4,520.0 | 6.15 | 34.43 | 4,499.8 | 301.0 | 232.5 | 380.2 | 0.00 | 0.00 | 0.00 |
| 4,560.0 | 6.15 | 34.43 | 4,539.6 | 304.5 | 234.9 | 384.5 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 6.15 | 34.43 | 4,579.3 | 308.1 | 237.4 | 388.8 | 0.00 | 0.00 | 0.00 |
| 4,640.0 | 6.15 | 34.43 | 4,619.1 | 311.6 | 239.8 | 393.0 | 0.00 | 0.00 | 0.00 |
| 4,680.0 | 6.15 | 34.43 | 4,658.9 | 315.1 | 242.2 | 397.3 | 0.00 | 0.00 | 0.00 |
| 4,720.0 | 6.15 | 34.43 | 4,698.7 | 318.7 | 244.6 | 401.6 | 0.00 | 0.00 | 0.00 |
| 4,760.0 | 6.15 | 34.43 | 4,738.4 | 322.2 | 247.0 | 405.9 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 6.15 | 34.43 | 4,778.2 | 325.7 | 249.5 | 410.2 | 0.00 | 0.00 | 0.00 |
| 4,840.0 | 6.15 | 34.43 | 4,818.0 | 329.3 | 251.9 | 414.5 | 0.00 | 0.00 | 0.00 |
| 4,880.0 | 6.15 | 34.43 | 4,857.7 | 332.8 | 254.3 | 418.7 | 0.00 | 0.00 | 0.00 |
| 4,920.0 | 6.15 | 34.43 | 4,897.5 | 336.3 | 256.7 | 423.0 | 0.00 | 0.00 | 0.00 |
| 4,960.0 | 6.15 | 34.43 | 4,937.3 | 339.9 | 259.2 | 427.3 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 6.15 | 34.43 | 4,977.0 | 343.4 | 261.6 | 431.6 | 0.00 | 0.00 | 0.00 |
| 5,040.0 | 6.15 | 34.43 | 5,016.8 | 346.9 | 264.0 | 435.9 | 0.00 | 0.00 | 0.00 |
| 5,080.0 | 6.15 | 34.43 | 5,056.6 | 350.5 | 266.4 | 440.1 | 0.00 | 0.00 | 0.00 |
| 5,120.0 | 6.15 | 34.43 | 5,096.4 | 354.0 | 268.8 | 444.4 | 0.00 | 0.00 | 0.00 |
| 5,160.0 | 6.15 | 34.43 | 5,136.1 | 357.5 | 271.3 | 448.7 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 6.15 | 34.43 | 5,175.9 | 361.1 | 273.7 | 453.0 | 0.00 | 0.00 | 0.00 |
| 5,240.0 | 6.15 | 34.43 | 5,215.7 | 364.6 | 276.1 | 457.3 | 0.00 | 0.00 | 0.00 |
| 5,280.0 | 6.15 | 34.43 | 5,255.4 | 368.1 | 278.5 | 461.6 | 0.00 | 0.00 | 0.00 |
| 5,320.0 | 6.15 | 34.43 | 5,295.2 | 371.7 | 281.0 | 465.8 | 0.00 | 0.00 | 0.00 |
| 5,360.0 | 6.15 | 34.43 | 5,335.0 | 375.2 | 283.4 | 470.1 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 6.15 | 34.43 | 5,374.7 | 378.7 | 285.8 | 474.4 | 0.00 | 0.00 | 0.00 |
| 5,440.0 | 6.15 | 34.43 | 5,414.5 | 382.3 | 288.2 | 478.7 | 0.00 | 0.00 | 0.00 |
| 5,480.0 | 6.15 | 34.43 | 5,454.3 | 385.8 | 290.6 | 483.0 | 0.00 | 0.00 | 0.00 |
| 5,520.0 | 6.15 | 34.43 | 5,494.1 | 389.3 | 293.1 | 487.3 | 0.00 | 0.00 | 0.00 |
| 5,560.0 | 6.15 | 34.43 | 5,533.8 | 392.9 | 295.5 | 491.5 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 6.15 | 34.43 | 5,573.6 | 396.4 | 297.9 | 495.8 | 0.00 | 0.00 | 0.00 |
| 5,640.0 | 6.15 | 34.43 | 5,613.4 | 399.9 | 300.3 | 500.1 | 0.00 | 0.00 | 0.00 |
| 5,680.0 | 6.15 | 34.43 | 5,653.1 | 403.5 | 302.8 | 504.4 | 0.00 | 0.00 | 0.00 |
| 5,720.0 | 6.15 | 34.43 | 5,692.9 | 407.0 | 305.2 | 508.7 | 0.00 | 0.00 | 0.00 |
| 5,760.0 | 6.15 | 34.43 | 5,732.7 | 410.5 | 307.6 | 512.9 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 6.15 | 34.43 | 5,772.4 | 414.1 | 310.0 | 517.2 | 0.00 | 0.00 | 0.00 |
| 5,840.0 | 6.15 | 34.43 | 5,812.2 | 417.6 | 312.4 | 521.5 | 0.00 | 0.00 | 0.00 |
| 5,880.0 | 6.15 | 34.43 | 5,852.0 | 421.1 | 314.9 | 525.8 | 0.00 | 0.00 | 0.00 |
| 5,920.0 | 6.15 | 34.43 | 5,891.8 | 424.7 | 317.3 | 530.1 | 0.00 | 0.00 | 0.00 |
| 5,960.0 | 6.15 | 34.43 | 5,931.5 | 428.2 | 319.7 | 534.4 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 6.15 | 34.43 | 5,971.3 | 431.7 | 322.1 | 538.6 | 0.00 | 0.00 | 0.00 |
| 6,040.0 | 6.15 | 34.43 | 6,011.1 | 435.3 | 324.5 | 542.9 | 0.00 | 0.00 | 0.00 |
| 6,080.0 | 6.15 | 34.43 | 6,050.8 | 438.8 | 327.0 | 547.2 | 0.00 | 0.00 | 0.00 |
| 6,120.0 | 6.15 | 34.43 | 6,090.6 | 442.3 | 329.4 | 551.5 | 0.00 | 0.00 | 0.00 |
| 6,160.0 | 6.15 | 34.43 | 6,130.4 | 445.9 | 331.8 | 555.8 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 6.15 | 34.43 | 6,170.1 | 449.4 | 334.2 | 560.0 | 0.00 | 0.00 | 0.00 |
| 6,240.0 | 6.15 | 34.43 | 6,209.9 | 452.9 | 336.7 | 564.3 | 0.00 | 0.00 | 0.00 |

Database: Landmark
Company: Synergy Resources
Project: SEC.2-T4N-R68W
Site: SRC Avex 11-2D Pad Sec.2-T4N-R68W
Well: SRC Avex 21-2D
Wellbore: Wellbore #1
Design: Plan #1 (7-13-11)

Local Co-ordinate Reference: Well SRC Avex 21-2D
TVD Reference: WELL @ 5016.0ft (Original Well Elev)
MD Reference: WELL @ 5016.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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) |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 6,280.0 | 6.15 | 34.43 | 6,249.7 | 456.5 | 339.1 | 568.6 | 0.00 | 0.00 | 0.00 |
| 6,320.0 | 6.15 | 34.43 | 6,289.5 | 460.0 | 341.5 | 572.9 | 0.00 | 0.00 | 0.00 |
| 6,360.0 | 6.15 | 34.43 | 6,329.2 | 463.5 | 343.9 | 577.2 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 6.15 | 34.43 | 6,369.0 | 467.1 | 346.3 | 581.5 | 0.00 | 0.00 | 0.00 |
| 6,440.0 | 6.15 | 34.43 | 6,408.8 | 470.6 | 348.8 | 585.7 | 0.00 | 0.00 | 0.00 |
| 6,480.0 | 6.15 | 34.43 | 6,448.5 | 474.1 | 351.2 | 590.0 | 0.00 | 0.00 | 0.00 |
| 6,520.0 | 6.15 | 34.43 | 6,488.3 | 477.7 | 353.6 | 594.3 | 0.00 | 0.00 | 0.00 |
| 6,560.0 | 6.15 | 34.43 | 6,528.1 | 481.2 | 356.0 | 598.6 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 6.15 | 34.43 | 6,567.8 | 484.7 | 358.5 | 602.9 | 0.00 | 0.00 | 0.00 |
| 6,640.0 | 6.15 | 34.43 | 6,607.6 | 488.3 | 360.9 | 607.1 | 0.00 | 0.00 | 0.00 |
| 6,680.0 | 6.15 | 34.43 | 6,647.4 | 491.8 | 363.3 | 611.4 | 0.00 | 0.00 | 0.00 |
| 6,720.0 | 6.15 | 34.43 | 6,687.2 | 495.3 | 365.7 | 615.7 | 0.00 | 0.00 | 0.00 |
| 6,730.7 | 6.15 | 34.43 | 6,697.8 | 496.3 | 366.4 | 616.9 | 0.00 | 0.00 | 0.00 |
| LEGAL BOX 400' X 400' 580'FNL & 1963'FWL | | | | | | | | | |
| 6,760.0 | 6.15 | 34.43 | 6,726.9 | 498.9 | 368.1 | 620.0 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 6.15 | 34.43 | 6,766.7 | 502.4 | 370.6 | 624.3 | 0.00 | 0.00 | 0.00 |
| 6,840.0 | 6.15 | 34.43 | 6,806.5 | 505.9 | 373.0 | 628.6 | 0.00 | 0.00 | 0.00 |
| 6,880.0 | 6.15 | 34.43 | 6,846.2 | 509.5 | 375.4 | 632.8 | 0.00 | 0.00 | 0.00 |
| 6,920.0 | 6.15 | 34.43 | 6,886.0 | 513.0 | 377.8 | 637.1 | 0.00 | 0.00 | 0.00 |
| 6,960.0 | 6.15 | 34.43 | 6,925.8 | 516.5 | 380.3 | 641.4 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 6.15 | 34.43 | 6,965.5 | 520.1 | 382.7 | 645.7 | 0.00 | 0.00 | 0.00 |
| 7,040.0 | 6.15 | 34.43 | 7,005.3 | 523.6 | 385.1 | 650.0 | 0.00 | 0.00 | 0.00 |
| 7,080.0 | 6.15 | 34.43 | 7,045.1 | 527.1 | 387.5 | 654.3 | 0.00 | 0.00 | 0.00 |
| 7,120.0 | 6.15 | 34.43 | 7,084.9 | 530.7 | 389.9 | 658.5 | 0.00 | 0.00 | 0.00 |
| 7,160.0 | 6.15 | 34.43 | 7,124.6 | 534.2 | 392.4 | 662.8 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 6.15 | 34.43 | 7,164.4 | 537.7 | 394.8 | 667.1 | 0.00 | 0.00 | 0.00 |
| 7,240.0 | 6.15 | 34.43 | 7,204.2 | 541.3 | 397.2 | 671.4 | 0.00 | 0.00 | 0.00 |
| 7,280.0 | 6.15 | 34.43 | 7,243.9 | 544.8 | 399.6 | 675.7 | 0.00 | 0.00 | 0.00 |
| 7,320.0 | 6.15 | 34.43 | 7,283.7 | 548.3 | 402.1 | 679.9 | 0.00 | 0.00 | 0.00 |
| 7,360.0 | 6.15 | 34.43 | 7,323.5 | 551.9 | 404.5 | 684.2 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 6.15 | 34.43 | 7,363.2 | 555.4 | 406.9 | 688.5 | 0.00 | 0.00 | 0.00 |
| 7,440.0 | 6.15 | 34.43 | 7,403.0 | 558.9 | 409.3 | 692.8 | 0.00 | 0.00 | 0.00 |
| 7,480.0 | 6.15 | 34.43 | 7,442.8 | 562.5 | 411.7 | 697.1 | 0.00 | 0.00 | 0.00 |
| 7,520.0 | 6.15 | 34.43 | 7,482.6 | 566.0 | 414.2 | 701.4 | 0.00 | 0.00 | 0.00 |
| 7,560.0 | 6.15 | 34.43 | 7,522.3 | 569.5 | 416.6 | 705.6 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 6.15 | 34.43 | 7,562.1 | 573.1 | 419.0 | 709.9 | 0.00 | 0.00 | 0.00 |
| 7,640.0 | 6.15 | 34.43 | 7,601.9 | 576.6 | 421.4 | 714.2 | 0.00 | 0.00 | 0.00 |
| 7,680.0 | 6.15 | 34.43 | 7,641.6 | 580.1 | 423.8 | 718.5 | 0.00 | 0.00 | 0.00 |
| 7,720.0 | 6.15 | 34.43 | 7,681.4 | 583.7 | 426.3 | 722.8 | 0.00 | 0.00 | 0.00 |
| 7,760.0 | 6.15 | 34.43 | 7,721.2 | 587.2 | 428.7 | 727.0 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 6.15 | 34.43 | 7,760.9 | 590.7 | 431.1 | 731.3 | 0.00 | 0.00 | 0.00 |
| 7,840.0 | 6.15 | 34.43 | 7,800.7 | 594.3 | 433.5 | 735.6 | 0.00 | 0.00 | 0.00 |
| 7,880.0 | 6.15 | 34.43 | 7,840.5 | 597.8 | 436.0 | 739.9 | 0.00 | 0.00 | 0.00 |
| 7,920.0 | 6.15 | 34.43 | 7,880.3 | 601.3 | 438.4 | 744.2 | 0.00 | 0.00 | 0.00 |
| 7,960.0 | 6.15 | 34.43 | 7,920.0 | 604.9 | 440.8 | 748.5 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 6.15 | 34.43 | 7,959.8 | 608.4 | 443.2 | 752.7 | 0.00 | 0.00 | 0.00 |
| 8,040.0 | 6.15 | 34.43 | 7,999.6 | 611.9 | 445.6 | 757.0 | 0.00 | 0.00 | 0.00 |
| 8,080.0 | 6.15 | 34.43 | 8,039.3 | 615.5 | 448.1 | 761.3 | 0.00 | 0.00 | 0.00 |
| 8,120.0 | 6.15 | 34.43 | 8,079.1 | 619.0 | 450.5 | 765.6 | 0.00 | 0.00 | 0.00 |
| 8,160.0 | 6.15 | 34.43 | 8,118.9 | 622.5 | 452.9 | 769.9 | 0.00 | 0.00 | 0.00 |
| 8,161.1 | 6.15 | 34.43 | 8,120.0 | 622.6 | 453.0 | 770.0 | 0.00 | 0.00 | 0.00 |

DRILL TARGET BHL 455'FNL, 2088'FWL - PERMIT TARGET BHL 396'FNL, 2144'FWL

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well SRC Avex 21-2D |
| Company: | Synergy Resources | TVD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Project: | SEC.2-T4N-R68W | MD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Site: | SRC Avex 11-2D Pad Sec.2-T4N-R68W | North Reference: | True |
| Well: | SRC Avex 21-2D | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (7-13-11) | | |

Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---|------------------|-----------------|-------------|---------------|---------------|------------------|-----------------|-----------|-------------|
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| DRILL TARGET BHL | 0.00 | 0.00 | 8,120.0 | 622.6 | 453.0 | 1,370,020.78 | 3,146,885.79 | 40.347910 | -104.973004 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| LEGAL BOX 400' X 400' | 0.00 | 0.00 | 6,700.0 | 497.6 | 328.0 | 1,369,895.04 | 3,146,761.53 | 40.347567 | -104.973452 |
| - plan misses target center by 38.5ft at 6730.7ft MD (6697.8 TVD, 496.3 N, 366.4 E) | | | | | | | | | |
| - Rectangle (sides W400.0 H400.0 D1,420.0) | | | | | | | | | |
| PERMIT TARGET BH | 0.00 | 0.00 | 8,120.0 | 681.6 | 509.0 | 1,370,080.09 | 3,146,941.43 | 40.348072 | -104.972803 |
| - plan misses target center by 81.3ft at 8161.1ft MD (8120.0 TVD, 622.6 N, 453.0 E) | | | | | | | | | |
| - Point | | | | | | | | | |

Casing Points

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---------------------------|---------------------------|--------|---------------------------|-------------------------|
| 550.0 | 550.0 | 8 5/8" | 8-5/8 | 12-1/4 |



Directional

Synergy Resources

SEC.2-T4N-R68W

SRC Avex 11-2D Pad Sec.2-T4N-R68W

SRC Avex 21-2D

Wellbore #1

Plan #1 (7-13-11)

Anticollision Report

22 July, 2011

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Synergy Resources | Local Co-ordinate Reference: | Well SRC Avex 21-2D |
| Project: | SEC.2-T4N-R68W | TVD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Reference Site: | SRC Avex 11-2D Pad Sec.2-T4N-R68W | MD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | SRC Avex 21-2D | 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 (7-13-11) | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | Plan #1 (7-13-11) | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | Stations | Error Model: | ISCWSA |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 10,000.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| | | | | |
|----------------------------|-----------------------|---------------------------------|------------------|--------------------|
| Survey Tool Program | Date 7/22/2011 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| 0.0 | 8,161.1 | Plan #1 (7-13-11) (Wellbore #1) | MWD | MWD - Standard |

| | | | | | | |
|--|--------------------------------------|-----------------------------------|--------------------------------------|---------------------------------------|--------------------------|----------------|
| Summary | | | | | | |
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| SRC Avex 11-2D Pad Sec.2-T4N-R68W | | | | | | |
| SRC Avex 11-2D - Wellbore #1 - Plan #1 (7-13-11) | 822.6 | 823.5 | 19.7 | 16.3 | 5.707 | CC, ES |
| SRC Avex 11-2D - Wellbore #1 - Plan #1 (7-13-11) | 900.0 | 900.6 | 20.6 | 16.8 | 5.436 | SF |
| SRC Avex 2A (Vert.) - Wellbore #1 - Design #1 | 700.0 | 700.0 | 19.7 | 16.7 | 6.732 | CC |
| SRC Avex 2A (Vert.) - Wellbore #1 - Design #1 | 800.0 | 800.0 | 20.1 | 16.7 | 5.971 | ES |
| SRC Avex 2A (Vert.) - Wellbore #1 - Design #1 | 900.0 | 899.8 | 22.1 | 18.3 | 5.812 | SF |

| Offset Design SRC Avex 11-2D Pad Sec.2-T4N-R68W - SRC Avex 11-2D - Wellbore #1 - Plan #1 (7-13-11) | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------------------|--|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.80 | 20.0 | 0.3 | 20.0 | 20.0 | 0.00 | N/A | | |
| 100.0 | 100.0 | 101.0 | 101.0 | 0.1 | 0.1 | 0.80 | 20.0 | 0.3 | 20.0 | 19.8 | 0.23 | 88.290 | | |
| 200.0 | 200.0 | 201.0 | 201.0 | 0.3 | 0.3 | 0.80 | 20.0 | 0.3 | 20.0 | 19.4 | 0.68 | 29.626 | | |
| 300.0 | 300.0 | 301.0 | 301.0 | 0.6 | 0.6 | 0.80 | 20.0 | 0.3 | 20.0 | 18.9 | 1.13 | 17.799 | | |
| 400.0 | 400.0 | 401.0 | 401.0 | 0.8 | 0.8 | 0.80 | 20.0 | 0.3 | 20.0 | 18.5 | 1.58 | 12.721 | | |
| 500.0 | 500.0 | 501.0 | 501.0 | 1.0 | 1.0 | 0.80 | 20.0 | 0.3 | 20.0 | 18.0 | 2.03 | 9.897 | | |
| 600.0 | 600.0 | 601.0 | 601.0 | 1.2 | 1.2 | 0.80 | 20.0 | 0.3 | 20.0 | 17.6 | 2.47 | 8.099 | | |
| 700.0 | 700.0 | 701.0 | 701.0 | 1.5 | 1.5 | 0.80 | 20.0 | 0.3 | 20.0 | 17.1 | 2.92 | 6.854 | | |
| 800.0 | 800.0 | 801.0 | 801.0 | 1.7 | 1.7 | -84.18 | 20.0 | 0.3 | 19.8 | 16.4 | 3.36 | 5.884 | | |
| 822.6 | 822.6 | 823.5 | 823.5 | 1.7 | 1.7 | -86.83 | 20.1 | 0.2 | 19.7 | 16.3 | 3.46 | 5.707 CC, ES | | |
| 900.0 | 899.8 | 900.6 | 900.6 | 1.9 | 1.9 | -100.87 | 20.5 | -0.5 | 20.6 | 16.8 | 3.79 | 5.436 SF | | |
| 950.0 | 949.7 | 950.2 | 950.2 | 2.0 | 2.0 | -112.38 | 21.0 | -1.5 | 22.7 | 18.6 | 4.01 | 5.651 | | |
| 1,000.0 | 999.5 | 999.7 | 999.6 | 2.1 | 2.1 | -117.30 | 21.7 | -2.8 | 25.9 | 21.7 | 4.22 | 6.128 | | |
| 1,100.0 | 1,099.1 | 1,098.5 | 1,098.3 | 2.4 | 2.3 | -121.43 | 23.7 | -6.6 | 34.5 | 29.8 | 4.66 | 7.395 | | |
| 1,200.0 | 1,198.7 | 1,196.9 | 1,196.6 | 2.6 | 2.6 | -120.94 | 26.6 | -11.8 | 45.2 | 40.1 | 5.11 | 8.847 | | |
| 1,300.0 | 1,298.3 | 1,295.1 | 1,294.5 | 2.8 | 2.8 | -118.59 | 30.2 | -18.5 | 57.5 | 51.9 | 5.56 | 10.350 | | |
| 1,394.0 | 1,391.8 | 1,387.0 | 1,386.0 | 3.1 | 3.0 | -116.00 | 34.3 | -26.2 | 70.4 | 64.4 | 5.99 | 11.756 | | |
| 1,400.0 | 1,397.7 | 1,392.9 | 1,391.9 | 3.1 | 3.0 | -116.29 | 34.6 | -26.7 | 71.2 | 65.2 | 6.01 | 11.846 | | |
| 1,500.0 | 1,497.2 | 1,490.4 | 1,488.7 | 3.4 | 3.3 | -119.99 | 39.8 | -36.3 | 86.6 | 80.2 | 6.48 | 13.373 | | |
| 1,600.0 | 1,596.6 | 1,587.4 | 1,584.9 | 3.6 | 3.6 | -122.16 | 45.7 | -47.2 | 103.8 | 96.8 | 6.95 | 14.927 | | |
| 1,700.0 | 1,696.0 | 1,683.9 | 1,680.4 | 3.9 | 3.8 | -123.33 | 52.4 | -59.6 | 122.5 | 115.1 | 7.44 | 16.474 | | |
| 1,800.0 | 1,795.4 | 1,779.9 | 1,775.1 | 4.2 | 4.1 | -123.88 | 59.8 | -73.2 | 142.7 | 134.8 | 7.93 | 17.998 | | |

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

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Synergy Resources | Local Co-ordinate Reference: | Well SRC Avex 21-2D |
| Project: | SEC.2-T4N-R68W | TVD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Reference Site: | SRC Avex 11-2D Pad Sec.2-T4N-R68W | MD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | SRC Avex 21-2D | 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 (7-13-11) | Offset TVD Reference: | Offset Datum |

| Offset Design SRC Avex 11-2D Pad Sec.2-T4N-R68W - SRC Avex 11-2D - Wellbore #1 - Plan #1 (7-13-11) | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|--------------------------------|-------------|-----------------------|-----------------------------------|------------|-------------------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Semi Major Axis Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Distance Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 1,900.0 | 1,894.9 | 1,875.7 | 1,869.4 | 4.5 | 4.5 | -124.03 | 67.9 | -88.3 | 164.3 | 155.9 | 8.43 | 19.488 | | |
| 2,000.0 | 1,994.3 | 1,973.3 | 1,965.3 | 4.7 | 4.8 | -124.06 | 76.4 | -104.0 | 186.4 | 177.4 | 8.94 | 20.839 | | |
| 2,100.0 | 2,093.7 | 2,070.8 | 2,061.2 | 5.0 | 5.2 | -124.09 | 84.9 | -119.7 | 208.4 | 199.0 | 9.46 | 22.036 | | |
| 2,200.0 | 2,193.1 | 2,168.3 | 2,157.1 | 5.3 | 5.5 | -124.11 | 93.4 | -135.4 | 230.5 | 220.5 | 9.98 | 23.095 | | |
| 2,300.0 | 2,292.6 | 2,265.9 | 2,252.9 | 5.6 | 5.9 | -124.13 | 101.9 | -151.2 | 252.6 | 242.1 | 10.51 | 24.039 | | |
| 2,400.0 | 2,392.0 | 2,363.4 | 2,348.8 | 5.9 | 6.3 | -124.14 | 110.4 | -166.9 | 274.7 | 263.6 | 11.04 | 24.885 | | |
| 2,500.0 | 2,491.4 | 2,460.9 | 2,444.7 | 6.2 | 6.6 | -124.15 | 118.9 | -182.6 | 296.7 | 285.2 | 11.57 | 25.646 | | |
| 2,600.0 | 2,590.8 | 2,558.5 | 2,540.6 | 6.5 | 7.0 | -124.16 | 127.4 | -198.4 | 318.8 | 306.7 | 12.11 | 26.334 | | |
| 2,700.0 | 2,690.3 | 2,656.0 | 2,636.5 | 6.7 | 7.4 | -124.17 | 136.0 | -214.1 | 340.9 | 328.2 | 12.64 | 26.959 | | |
| 2,800.0 | 2,789.7 | 2,753.5 | 2,732.3 | 7.0 | 7.8 | -124.18 | 144.5 | -229.8 | 362.9 | 349.8 | 13.18 | 27.527 | | |
| 2,900.0 | 2,889.1 | 2,851.1 | 2,828.2 | 7.3 | 8.2 | -124.19 | 153.0 | -245.5 | 385.0 | 371.3 | 13.73 | 28.048 | | |
| 3,000.0 | 2,988.5 | 2,948.6 | 2,924.1 | 7.6 | 8.6 | -124.20 | 161.5 | -261.3 | 407.1 | 392.8 | 14.27 | 28.525 | | |
| 3,100.0 | 3,088.0 | 3,046.1 | 3,020.0 | 7.9 | 9.0 | -124.20 | 170.0 | -277.0 | 429.2 | 414.3 | 14.82 | 28.964 | | |
| 3,200.0 | 3,187.4 | 3,143.7 | 3,115.9 | 8.2 | 9.3 | -124.21 | 178.5 | -292.7 | 451.2 | 435.9 | 15.36 | 29.370 | | |
| 3,300.0 | 3,286.8 | 3,241.2 | 3,211.8 | 8.5 | 9.7 | -124.21 | 187.0 | -308.5 | 473.3 | 457.4 | 15.91 | 29.745 | | |
| 3,400.0 | 3,386.2 | 3,338.7 | 3,307.6 | 8.8 | 10.1 | -124.22 | 195.5 | -324.2 | 495.4 | 478.9 | 16.46 | 30.094 | | |
| 3,500.0 | 3,485.7 | 3,436.3 | 3,403.5 | 9.1 | 10.5 | -124.22 | 204.0 | -339.9 | 517.5 | 500.4 | 17.01 | 30.418 | | |
| 3,600.0 | 3,585.1 | 3,533.8 | 3,499.4 | 9.4 | 10.9 | -124.22 | 212.5 | -355.6 | 539.5 | 522.0 | 17.56 | 30.720 | | |
| 3,700.0 | 3,684.5 | 3,631.3 | 3,595.3 | 9.7 | 11.3 | -124.23 | 221.0 | -371.4 | 561.6 | 543.5 | 18.11 | 31.003 | | |
| 3,800.0 | 3,783.9 | 3,728.9 | 3,691.2 | 10.0 | 11.7 | -124.23 | 229.5 | -387.1 | 583.7 | 565.0 | 18.67 | 31.267 | | |
| 3,900.0 | 3,883.4 | 3,826.4 | 3,787.0 | 10.3 | 12.1 | -124.23 | 238.0 | -402.8 | 605.7 | 586.5 | 19.22 | 31.516 | | |
| 4,000.0 | 3,982.8 | 3,923.9 | 3,882.9 | 10.5 | 12.5 | -124.24 | 246.5 | -418.6 | 627.8 | 608.0 | 19.77 | 31.749 | | |
| 4,100.0 | 4,082.2 | 4,021.5 | 3,978.8 | 10.8 | 12.9 | -124.24 | 255.0 | -434.3 | 649.9 | 629.6 | 20.33 | 31.968 | | |
| 4,200.0 | 4,181.6 | 4,119.0 | 4,074.7 | 11.1 | 13.3 | -124.24 | 263.5 | -450.0 | 672.0 | 651.1 | 20.88 | 32.176 | | |
| 4,300.0 | 4,281.1 | 4,216.5 | 4,170.6 | 11.4 | 13.7 | -124.24 | 272.0 | -465.7 | 694.0 | 672.6 | 21.44 | 32.371 | | |
| 4,400.0 | 4,380.5 | 4,314.1 | 4,266.4 | 11.7 | 14.1 | -124.25 | 280.5 | -481.5 | 716.1 | 694.1 | 22.00 | 32.556 | | |
| 4,500.0 | 4,479.9 | 4,411.6 | 4,362.3 | 12.0 | 14.5 | -124.25 | 289.0 | -497.2 | 738.2 | 715.6 | 22.55 | 32.732 | | |
| 4,600.0 | 4,579.3 | 4,509.1 | 4,458.2 | 12.3 | 14.9 | -124.25 | 297.5 | -512.9 | 760.2 | 737.1 | 23.11 | 32.898 | | |
| 4,700.0 | 4,678.8 | 4,606.7 | 4,554.1 | 12.6 | 15.3 | -124.25 | 306.0 | -528.7 | 782.3 | 758.6 | 23.67 | 33.056 | | |
| 4,800.0 | 4,778.2 | 4,704.2 | 4,650.0 | 12.9 | 15.7 | -124.25 | 314.6 | -544.4 | 804.4 | 780.2 | 24.22 | 33.206 | | |
| 4,900.0 | 4,877.6 | 4,801.7 | 4,745.8 | 13.2 | 16.1 | -124.25 | 323.1 | -560.1 | 826.5 | 801.7 | 24.78 | 33.349 | | |
| 5,000.0 | 4,977.0 | 4,899.3 | 4,841.7 | 13.5 | 16.5 | -124.26 | 331.6 | -575.8 | 848.5 | 823.2 | 25.34 | 33.485 | | |
| 5,100.0 | 5,076.5 | 4,996.8 | 4,937.6 | 13.8 | 16.9 | -124.26 | 340.1 | -591.6 | 870.6 | 844.7 | 25.90 | 33.615 | | |
| 5,200.0 | 5,175.9 | 5,094.3 | 5,033.5 | 14.1 | 17.3 | -124.26 | 348.6 | -607.3 | 892.7 | 866.2 | 26.46 | 33.739 | | |
| 5,300.0 | 5,275.3 | 5,191.9 | 5,129.4 | 14.4 | 17.7 | -124.26 | 357.1 | -623.0 | 914.7 | 887.7 | 27.02 | 33.858 | | |
| 5,400.0 | 5,374.7 | 5,289.4 | 5,225.2 | 14.7 | 18.1 | -124.26 | 365.6 | -638.8 | 936.8 | 909.2 | 27.58 | 33.971 | | |
| 5,500.0 | 5,474.2 | 5,386.9 | 5,321.1 | 15.0 | 18.5 | -124.26 | 374.1 | -654.5 | 958.9 | 930.8 | 28.14 | 34.080 | | |
| 5,600.0 | 5,573.6 | 5,484.5 | 5,417.0 | 15.3 | 18.9 | -124.26 | 382.6 | -670.2 | 981.0 | 952.3 | 28.70 | 34.184 | | |
| 5,700.0 | 5,673.0 | 5,582.0 | 5,512.9 | 15.6 | 19.3 | -124.26 | 391.1 | -685.9 | 1,003.0 | 973.8 | 29.26 | 34.284 | | |
| 5,800.0 | 5,772.4 | 5,679.5 | 5,608.8 | 15.9 | 19.7 | -124.27 | 399.6 | -701.7 | 1,025.1 | 995.3 | 29.82 | 34.380 | | |
| 5,900.0 | 5,871.9 | 5,777.1 | 5,704.6 | 16.2 | 20.1 | -124.27 | 408.1 | -717.4 | 1,047.2 | 1,016.8 | 30.38 | 34.472 | | |
| 6,000.0 | 5,971.3 | 5,874.6 | 5,800.5 | 16.5 | 20.5 | -124.27 | 416.6 | -733.1 | 1,069.3 | 1,038.3 | 30.94 | 34.561 | | |
| 6,100.0 | 6,070.7 | 5,972.1 | 5,896.4 | 16.8 | 20.9 | -124.27 | 425.1 | -748.9 | 1,091.3 | 1,059.8 | 31.50 | 34.646 | | |
| 6,200.0 | 6,170.1 | 6,069.7 | 5,992.3 | 17.0 | 21.3 | -124.27 | 433.6 | -764.6 | 1,113.4 | 1,081.3 | 32.06 | 34.728 | | |
| 6,300.0 | 6,269.6 | 6,167.2 | 6,088.2 | 17.3 | 21.7 | -124.27 | 442.1 | -780.3 | 1,135.5 | 1,102.8 | 32.62 | 34.807 | | |
| 6,400.0 | 6,369.0 | 6,264.7 | 6,184.1 | 17.6 | 22.1 | -124.27 | 450.6 | -796.0 | 1,157.5 | 1,124.4 | 33.18 | 34.883 | | |
| 6,500.0 | 6,468.4 | 6,362.3 | 6,279.9 | 17.9 | 22.5 | -124.27 | 459.1 | -811.8 | 1,179.6 | 1,145.9 | 33.75 | 34.956 | | |
| 6,600.0 | 6,567.8 | 6,459.8 | 6,375.8 | 18.2 | 22.9 | -124.27 | 467.6 | -827.5 | 1,201.7 | 1,167.4 | 34.31 | 35.027 | | |
| 6,700.0 | 6,667.3 | 6,557.3 | 6,471.7 | 18.5 | 23.3 | -124.27 | 476.1 | -843.2 | 1,223.8 | 1,188.9 | 34.87 | 35.096 | | |
| 6,800.0 | 6,766.7 | 6,654.9 | 6,567.6 | 18.8 | 23.7 | -124.27 | 484.6 | -859.0 | 1,245.8 | 1,210.4 | 35.43 | 35.162 | | |
| 6,900.0 | 6,866.1 | 6,752.4 | 6,663.5 | 19.1 | 24.1 | -124.27 | 493.1 | -874.7 | 1,267.9 | 1,231.9 | 35.99 | 35.226 | | |
| 7,000.0 | 6,965.5 | 6,849.9 | 6,759.3 | 19.4 | 24.6 | -124.27 | 501.7 | -890.4 | 1,290.0 | 1,253.4 | 36.56 | 35.287 | | |

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

Company: Synergy Resources
Project: SEC.2-T4N-R68W
Reference Site: SRC Avex 11-2D Pad Sec.2-T4N-R68W
Site Error: 0.0ft
Reference Well: SRC Avex 21-2D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-13-11)

Local Co-ordinate Reference: Well SRC Avex 21-2D
TVD Reference: WELL @ 5016.0ft (Original Well Elev)
MD Reference: WELL @ 5016.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

| Offset Design SRC Avex 11-2D Pad Sec.2-T4N-R68W - SRC Avex 11-2D - Wellbore #1 - Plan #1 (7-13-11) | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | Offset | Semi Major Axis | | Distance | | Minimum | | Separation | | Warning | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 7,100.0 | 7,065.0 | 6,947.5 | 6,855.2 | 19.7 | 25.0 | -124.28 | 510.2 | -906.1 | 1,312.0 | 1,274.9 | 37.12 | 35.347 | | |
| 7,200.0 | 7,164.4 | 7,045.0 | 6,951.1 | 20.0 | 25.4 | -124.28 | 518.7 | -921.9 | 1,334.1 | 1,296.4 | 37.68 | 35.405 | | |
| 7,300.0 | 7,263.8 | 7,142.5 | 7,047.0 | 20.3 | 25.8 | -124.28 | 527.2 | -937.6 | 1,356.2 | 1,317.9 | 38.24 | 35.461 | | |
| 7,400.0 | 7,363.2 | 7,240.1 | 7,142.9 | 20.6 | 26.2 | -124.28 | 535.7 | -953.3 | 1,378.3 | 1,339.5 | 38.81 | 35.515 | | |
| 7,500.0 | 7,462.7 | 7,337.6 | 7,238.7 | 20.9 | 26.6 | -124.28 | 544.2 | -969.1 | 1,400.3 | 1,361.0 | 39.37 | 35.568 | | |
| 7,600.0 | 7,562.1 | 7,435.1 | 7,334.6 | 21.2 | 27.0 | -124.28 | 552.7 | -984.8 | 1,422.4 | 1,382.5 | 39.93 | 35.619 | | |
| 7,700.0 | 7,661.5 | 7,532.7 | 7,430.5 | 21.5 | 27.4 | -124.28 | 561.2 | -1,000.5 | 1,444.5 | 1,404.0 | 40.50 | 35.668 | | |
| 7,800.0 | 7,760.9 | 7,630.2 | 7,526.4 | 21.8 | 27.8 | -124.28 | 569.7 | -1,016.2 | 1,466.6 | 1,425.5 | 41.06 | 35.716 | | |
| 7,900.0 | 7,860.4 | 7,727.7 | 7,622.3 | 22.1 | 28.2 | -124.28 | 578.2 | -1,032.0 | 1,488.6 | 1,447.0 | 41.62 | 35.763 | | |
| 8,000.0 | 7,959.8 | 7,825.3 | 7,718.1 | 22.4 | 28.6 | -124.28 | 586.7 | -1,047.7 | 1,510.7 | 1,468.5 | 42.19 | 35.808 | | |
| 8,100.0 | 8,059.2 | 7,922.8 | 7,814.0 | 22.7 | 29.0 | -124.28 | 595.2 | -1,063.4 | 1,532.8 | 1,490.0 | 42.75 | 35.852 | | |
| 8,161.1 | 8,120.0 | 7,982.4 | 7,872.6 | 22.9 | 29.2 | -124.28 | 600.4 | -1,073.0 | 1,546.3 | 1,503.2 | 43.10 | 35.878 | | |
| 8,161.6 | 8,120.5 | 7,982.9 | 7,873.1 | 22.9 | 29.2 | -124.28 | 600.4 | -1,073.1 | 1,546.4 | 1,503.3 | 43.10 | 35.879 | | |

Company: Synergy Resources
Project: SEC.2-T4N-R68W
Reference Site: SRC Avex 11-2D Pad Sec.2-T4N-R68W
Site Error: 0.0ft
Reference Well: SRC Avex 21-2D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-13-11)

Local Co-ordinate Reference: Well SRC Avex 21-2D
TVD Reference: WELL @ 5016.0ft (Original Well Elev)
MD Reference: WELL @ 5016.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

| Offset Design SRC Avex 11-2D Pad Sec.2-T4N-R68W - SRC Avex 2A (Vert.) - Wellbore #1 - Design #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | Offset | Semi Major Axis | | Distance | | Minimum Separation | | Warning | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -179.19 | -19.7 | -0.3 | 19.7 | 19.7 | 0.00 | N/A | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -179.19 | -19.7 | -0.3 | 19.7 | 19.4 | 0.22 | 87.516 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -179.19 | -19.7 | -0.3 | 19.7 | 19.0 | 0.67 | 29.172 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | -179.19 | -19.7 | -0.3 | 19.7 | 18.5 | 1.12 | 17.503 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 0.8 | -179.19 | -19.7 | -0.3 | 19.7 | 18.1 | 1.57 | 12.502 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 1.0 | -179.19 | -19.7 | -0.3 | 19.7 | 17.6 | 2.02 | 9.724 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.2 | 1.2 | -179.19 | -19.7 | -0.3 | 19.7 | 17.2 | 2.47 | 7.956 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.5 | 1.5 | -179.19 | -19.7 | -0.3 | 19.7 | 16.7 | 2.92 | 6.732 CC | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.7 | 1.7 | 105.70 | -19.7 | -0.3 | 20.1 | 16.7 | 3.36 | 5.971 ES | |
| 900.0 | 899.8 | 899.8 | 899.8 | 1.9 | 1.9 | 118.85 | -19.7 | -0.3 | 22.1 | 18.3 | 3.80 | 5.812 SF | |
| 950.0 | 949.7 | 949.7 | 949.7 | 2.0 | 2.0 | 126.95 | -19.7 | -0.3 | 24.2 | 20.2 | 4.02 | 6.025 | |
| 1,000.0 | 999.5 | 999.5 | 999.5 | 2.1 | 2.1 | 139.71 | -19.7 | -0.3 | 27.2 | 23.0 | 4.24 | 6.412 | |
| 1,100.0 | 1,099.1 | 1,099.1 | 1,099.1 | 2.4 | 2.4 | 159.37 | -19.7 | -0.3 | 34.7 | 30.0 | 4.69 | 7.393 | |
| 1,200.0 | 1,198.7 | 1,198.7 | 1,198.7 | 2.6 | 2.6 | 173.36 | -19.7 | -0.3 | 43.3 | 36.1 | 5.13 | 8.432 | |
| 1,300.0 | 1,298.3 | 1,298.3 | 1,298.3 | 2.8 | 2.8 | -176.65 | -19.7 | -0.3 | 52.7 | 47.1 | 5.58 | 9.450 | |
| 1,394.0 | 1,391.8 | 1,391.8 | 1,391.8 | 3.1 | 3.0 | -170.03 | -19.7 | -0.3 | 62.3 | 56.3 | 6.00 | 10.383 | |
| 1,400.0 | 1,397.7 | 1,397.7 | 1,397.7 | 3.1 | 3.0 | -170.13 | -19.7 | -0.3 | 62.9 | 56.9 | 6.02 | 10.443 | |
| 1,500.0 | 1,497.2 | 1,497.2 | 1,497.2 | 3.4 | 3.3 | -171.57 | -19.7 | -0.3 | 73.5 | 67.0 | 6.47 | 11.355 | |
| 1,600.0 | 1,596.6 | 1,596.6 | 1,596.6 | 3.6 | 3.5 | -172.64 | -19.7 | -0.3 | 84.1 | 77.2 | 6.92 | 12.151 | |
| 1,700.0 | 1,696.0 | 1,696.0 | 1,696.0 | 3.9 | 3.7 | -173.47 | -19.7 | -0.3 | 94.7 | 87.4 | 7.37 | 12.850 | |
| 1,800.0 | 1,795.4 | 1,795.4 | 1,795.4 | 4.2 | 3.9 | -174.13 | -19.7 | -0.3 | 105.4 | 97.6 | 7.82 | 13.469 | |
| 1,900.0 | 1,894.9 | 1,894.9 | 1,894.9 | 4.5 | 4.1 | -174.67 | -19.7 | -0.3 | 116.0 | 107.8 | 8.28 | 14.020 | |
| 2,000.0 | 1,994.3 | 1,994.3 | 1,994.3 | 4.7 | 4.4 | -175.12 | -19.7 | -0.3 | 126.7 | 118.0 | 8.73 | 14.514 | |
| 2,100.0 | 2,093.7 | 2,093.7 | 2,093.7 | 5.0 | 4.6 | -175.50 | -19.7 | -0.3 | 137.4 | 128.2 | 9.18 | 14.959 | |
| 2,200.0 | 2,193.1 | 2,193.1 | 2,193.1 | 5.3 | 4.8 | -175.82 | -19.7 | -0.3 | 148.1 | 138.4 | 9.64 | 15.361 | |
| 2,300.0 | 2,292.6 | 2,292.6 | 2,292.6 | 5.6 | 5.0 | -176.11 | -19.7 | -0.3 | 158.7 | 148.6 | 10.09 | 15.727 | |
| 2,400.0 | 2,392.0 | 2,392.0 | 2,392.0 | 5.9 | 5.3 | -176.35 | -19.7 | -0.3 | 169.4 | 158.9 | 10.55 | 16.060 | |
| 2,500.0 | 2,491.4 | 2,491.4 | 2,491.4 | 6.2 | 5.5 | -176.57 | -19.7 | -0.3 | 180.1 | 169.1 | 11.01 | 16.366 | |
| 2,600.0 | 2,590.8 | 2,590.8 | 2,590.8 | 6.5 | 5.7 | -176.76 | -19.7 | -0.3 | 190.8 | 179.3 | 11.46 | 16.647 | |
| 2,700.0 | 2,690.3 | 2,690.3 | 2,690.3 | 6.7 | 5.9 | -176.93 | -19.7 | -0.3 | 201.5 | 189.6 | 11.92 | 16.907 | |
| 2,800.0 | 2,789.7 | 2,789.7 | 2,789.7 | 7.0 | 6.2 | -177.09 | -19.7 | -0.3 | 212.2 | 199.8 | 12.38 | 17.147 | |
| 2,900.0 | 2,889.1 | 2,889.1 | 2,889.1 | 7.3 | 6.4 | -177.23 | -19.7 | -0.3 | 222.9 | 210.1 | 12.83 | 17.370 | |
| 3,000.0 | 2,988.5 | 2,988.5 | 2,988.5 | 7.6 | 6.6 | -177.35 | -19.7 | -0.3 | 233.6 | 220.3 | 13.29 | 17.577 | |
| 3,100.0 | 3,088.0 | 3,088.0 | 3,088.0 | 7.9 | 6.8 | -177.47 | -19.7 | -0.3 | 244.3 | 230.5 | 13.75 | 17.771 | |
| 3,200.0 | 3,187.4 | 3,187.4 | 3,187.4 | 8.2 | 7.1 | -177.58 | -19.7 | -0.3 | 255.0 | 240.8 | 14.20 | 17.951 | |
| 3,300.0 | 3,286.8 | 3,286.8 | 3,286.8 | 8.5 | 7.3 | -177.67 | -19.7 | -0.3 | 265.7 | 251.0 | 14.66 | 18.121 | |
| 3,400.0 | 3,386.2 | 3,386.2 | 3,386.2 | 8.8 | 7.5 | -177.76 | -19.7 | -0.3 | 276.4 | 261.3 | 15.12 | 18.280 | |
| 3,500.0 | 3,485.7 | 3,485.7 | 3,485.7 | 9.1 | 7.7 | -177.85 | -19.7 | -0.3 | 287.1 | 271.5 | 15.58 | 18.429 | |
| 3,600.0 | 3,585.1 | 3,585.1 | 3,585.1 | 9.4 | 7.9 | -177.93 | -19.7 | -0.3 | 297.8 | 281.8 | 16.04 | 18.570 | |
| 3,700.0 | 3,684.5 | 3,684.5 | 3,684.5 | 9.7 | 8.2 | -178.00 | -19.7 | -0.3 | 308.5 | 292.0 | 16.49 | 18.703 | |
| 3,800.0 | 3,783.9 | 3,783.9 | 3,783.9 | 10.0 | 8.4 | -178.06 | -19.7 | -0.3 | 319.2 | 302.2 | 16.95 | 18.829 | |
| 3,900.0 | 3,883.4 | 3,883.4 | 3,883.4 | 10.3 | 8.6 | -178.13 | -19.7 | -0.3 | 329.9 | 312.5 | 17.41 | 18.948 | |
| 4,000.0 | 3,982.8 | 3,982.8 | 3,982.8 | 10.5 | 8.8 | -178.19 | -19.7 | -0.3 | 340.6 | 322.7 | 17.87 | 19.061 | |
| 4,100.0 | 4,082.2 | 4,082.2 | 4,082.2 | 10.8 | 9.1 | -178.24 | -19.7 | -0.3 | 351.3 | 333.0 | 18.33 | 19.168 | |
| 4,200.0 | 4,181.6 | 4,181.6 | 4,181.6 | 11.1 | 9.3 | -178.29 | -19.7 | -0.3 | 362.0 | 343.2 | 18.79 | 19.270 | |
| 4,300.0 | 4,281.1 | 4,281.1 | 4,281.1 | 11.4 | 9.5 | -178.34 | -19.7 | -0.3 | 372.7 | 353.5 | 19.25 | 19.367 | |
| 4,400.0 | 4,380.5 | 4,380.5 | 4,380.5 | 11.7 | 9.7 | -178.39 | -19.7 | -0.3 | 383.4 | 363.7 | 19.70 | 19.459 | |
| 4,500.0 | 4,479.9 | 4,479.9 | 4,479.9 | 12.0 | 10.0 | -178.43 | -19.7 | -0.3 | 394.1 | 374.0 | 20.16 | 19.547 | |
| 4,600.0 | 4,579.3 | 4,579.3 | 4,579.3 | 12.3 | 10.2 | -178.47 | -19.7 | -0.3 | 404.8 | 384.2 | 20.62 | 19.631 | |
| 4,700.0 | 4,678.8 | 4,678.8 | 4,678.8 | 12.6 | 10.4 | -178.51 | -19.7 | -0.3 | 415.5 | 394.5 | 21.08 | 19.712 | |
| 4,800.0 | 4,778.2 | 4,778.2 | 4,778.2 | 12.9 | 10.6 | -178.55 | -19.7 | -0.3 | 426.2 | 404.7 | 21.54 | 19.789 | |
| 4,900.0 | 4,877.6 | 4,877.6 | 4,877.6 | 13.2 | 10.9 | -178.59 | -19.7 | -0.3 | 437.0 | 415.0 | 22.00 | 19.863 | |

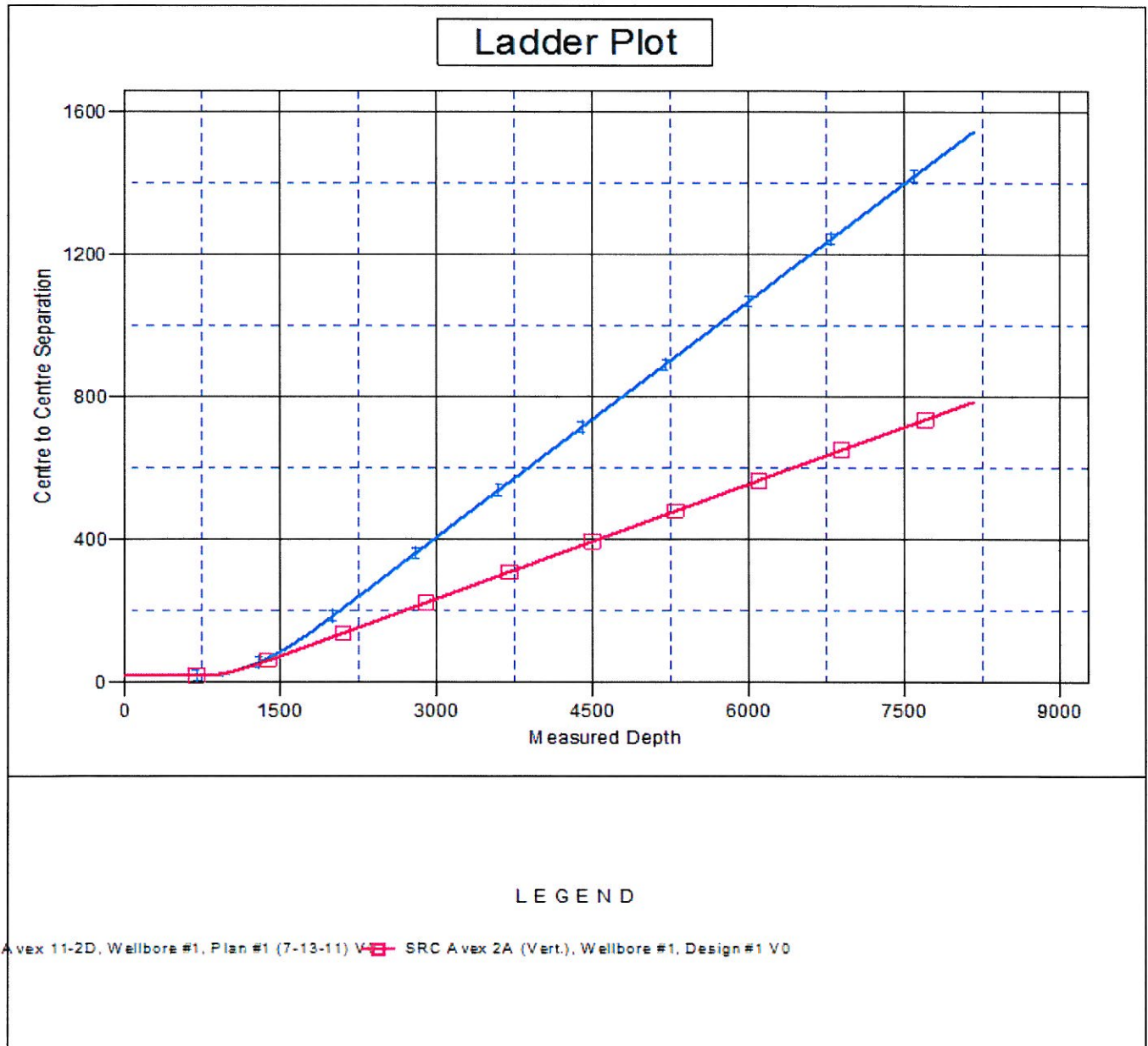
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Synergy Resources | Local Co-ordinate Reference: | Well SRC Avex 21-2D |
| Project: | SEC.2-T4N-R68W | TVD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Reference Site: | SRC Avex 11-2D Pad Sec.2-T4N-R68W | MD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | SRC Avex 21-2D | 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 (7-13-11) | Offset TVD Reference: | Offset Datum |

| Offset Design SRC Avex 11-2D Pad Sec.2-T4N-R68W - SRC Avex 2A (Vert.) - Wellbore #1 - Design #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------|---------|---------------------------|--|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Separation Factor | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | Minimum Separation (ft) | |
| 5,000.0 | 4,977.0 | 4,977.0 | 4,977.0 | 13.5 | 11.1 | -178.62 | -19.7 | -0.3 | 447.7 | 425.2 | 22.46 | 19.933 | | |
| 5,100.0 | 5,076.5 | 5,076.5 | 5,076.5 | 13.8 | 11.3 | -178.65 | -19.7 | -0.3 | 458.4 | 435.4 | 22.92 | 20.001 | | |
| 5,200.0 | 5,175.9 | 5,175.9 | 5,175.9 | 14.1 | 11.5 | -178.68 | -19.7 | -0.3 | 469.1 | 445.7 | 23.38 | 20.066 | | |
| 5,300.0 | 5,275.3 | 5,275.3 | 5,275.3 | 14.4 | 11.7 | -178.71 | -19.7 | -0.3 | 479.8 | 455.9 | 23.84 | 20.129 | | |
| 5,400.0 | 5,374.7 | 5,374.7 | 5,374.7 | 14.7 | 12.0 | -178.74 | -19.7 | -0.3 | 490.5 | 466.2 | 24.29 | 20.189 | | |
| 5,500.0 | 5,474.2 | 5,474.2 | 5,474.2 | 15.0 | 12.2 | -178.77 | -19.7 | -0.3 | 501.2 | 476.4 | 24.75 | 20.247 | | |
| 5,600.0 | 5,573.6 | 5,573.6 | 5,573.6 | 15.3 | 12.4 | -178.79 | -19.7 | -0.3 | 511.9 | 486.7 | 25.21 | 20.303 | | |
| 5,700.0 | 5,673.0 | 5,673.0 | 5,673.0 | 15.6 | 12.6 | -178.82 | -19.7 | -0.3 | 522.6 | 496.9 | 25.67 | 20.356 | | |
| 5,800.0 | 5,772.4 | 5,772.4 | 5,772.4 | 15.9 | 12.9 | -178.84 | -19.7 | -0.3 | 533.3 | 507.2 | 26.13 | 20.408 | | |
| 5,900.0 | 5,871.9 | 5,871.9 | 5,871.9 | 16.2 | 13.1 | -178.86 | -19.7 | -0.3 | 544.0 | 517.4 | 26.59 | 20.458 | | |
| 6,000.0 | 5,971.3 | 5,971.3 | 5,971.3 | 16.5 | 13.3 | -178.89 | -19.7 | -0.3 | 554.7 | 527.7 | 27.05 | 20.506 | | |
| 6,100.0 | 6,070.7 | 6,070.7 | 6,070.7 | 16.8 | 13.5 | -178.91 | -19.7 | -0.3 | 565.4 | 537.9 | 27.51 | 20.553 | | |
| 6,200.0 | 6,170.1 | 6,170.1 | 6,170.1 | 17.0 | 13.8 | -178.93 | -19.7 | -0.3 | 576.1 | 548.2 | 27.97 | 20.598 | | |
| 6,300.0 | 6,269.6 | 6,269.6 | 6,269.6 | 17.3 | 14.0 | -178.95 | -19.7 | -0.3 | 586.8 | 558.4 | 28.43 | 20.642 | | |
| 6,400.0 | 6,369.0 | 6,369.0 | 6,369.0 | 17.6 | 14.2 | -178.97 | -19.7 | -0.3 | 597.6 | 568.7 | 28.89 | 20.684 | | |
| 6,500.0 | 6,468.4 | 6,468.4 | 6,468.4 | 17.9 | 14.4 | -178.98 | -19.7 | -0.3 | 608.3 | 578.9 | 29.35 | 20.725 | | |
| 6,600.0 | 6,567.8 | 6,567.8 | 6,567.8 | 18.2 | 14.6 | -179.00 | -19.7 | -0.3 | 619.0 | 589.2 | 29.81 | 20.764 | | |
| 6,700.0 | 6,667.3 | 6,667.3 | 6,667.3 | 18.5 | 14.9 | -179.02 | -19.7 | -0.3 | 629.7 | 599.4 | 30.27 | 20.803 | | |
| 6,800.0 | 6,766.7 | 6,766.7 | 6,766.7 | 18.8 | 15.1 | -179.04 | -19.7 | -0.3 | 640.4 | 609.7 | 30.73 | 20.840 | | |
| 6,900.0 | 6,866.1 | 6,866.1 | 6,866.1 | 19.1 | 15.3 | -179.05 | -19.7 | -0.3 | 651.1 | 619.9 | 31.19 | 20.876 | | |
| 7,000.0 | 6,965.5 | 6,965.5 | 6,965.5 | 19.4 | 15.5 | -179.07 | -19.7 | -0.3 | 661.8 | 630.2 | 31.65 | 20.911 | | |
| 7,100.0 | 7,065.0 | 7,065.0 | 7,065.0 | 19.7 | 15.8 | -179.08 | -19.7 | -0.3 | 672.5 | 640.4 | 32.11 | 20.945 | | |
| 7,200.0 | 7,164.4 | 7,164.4 | 7,164.4 | 20.0 | 16.0 | -179.10 | -19.7 | -0.3 | 683.2 | 650.7 | 32.57 | 20.978 | | |
| 7,300.0 | 7,263.8 | 7,263.8 | 7,263.8 | 20.3 | 16.2 | -179.11 | -19.7 | -0.3 | 693.9 | 660.9 | 33.03 | 21.010 | | |
| 7,400.0 | 7,363.2 | 7,363.2 | 7,363.2 | 20.6 | 16.4 | -179.12 | -19.7 | -0.3 | 704.6 | 671.1 | 33.49 | 21.041 | | |
| 7,500.0 | 7,462.7 | 7,462.7 | 7,462.7 | 20.9 | 16.7 | -179.14 | -19.7 | -0.3 | 715.3 | 681.4 | 33.95 | 21.072 | | |
| 7,600.0 | 7,562.1 | 7,562.1 | 7,562.1 | 21.2 | 16.9 | -179.15 | -19.7 | -0.3 | 726.1 | 691.6 | 34.41 | 21.101 | | |
| 7,700.0 | 7,661.5 | 7,661.5 | 7,661.5 | 21.5 | 17.1 | -179.16 | -19.7 | -0.3 | 736.8 | 701.9 | 34.87 | 21.130 | | |
| 7,800.0 | 7,760.9 | 7,760.9 | 7,760.9 | 21.8 | 17.3 | -179.17 | -19.7 | -0.3 | 747.5 | 712.1 | 35.33 | 21.158 | | |
| 7,900.0 | 7,860.4 | 7,860.4 | 7,860.4 | 22.1 | 17.6 | -179.19 | -19.7 | -0.3 | 758.2 | 722.4 | 35.79 | 21.185 | | |
| 8,000.0 | 7,959.8 | 7,959.8 | 7,959.8 | 22.4 | 17.8 | -179.20 | -19.7 | -0.3 | 768.9 | 732.6 | 36.25 | 21.211 | | |
| 8,100.0 | 8,059.2 | 8,059.2 | 8,059.2 | 22.7 | 18.0 | -179.21 | -19.7 | -0.3 | 779.6 | 742.9 | 36.71 | 21.237 | | |
| 8,161.1 | 8,120.0 | 8,120.0 | 8,120.0 | 22.9 | 18.1 | -179.21 | -19.7 | -0.3 | 786.1 | 749.1 | 36.99 | 21.253 | | |
| 8,161.6 | 8,120.5 | 8,120.0 | 8,120.0 | 22.9 | 18.1 | -179.21 | -19.7 | -0.3 | 786.2 | 749.2 | 36.99 | 21.254 | | |

| | | | |
|---------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Synergy Resources | Local Co-ordinate Reference: | Well SRC Avex 21-2D |
| Project: | SEC.2-T4N-R68W | TVD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Reference Site: | SRC Avex 11-2D Pad Sec.2-T4N-R68W | MD Reference: | WELL @ 5016.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | SRC Avex 21-2D | 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 (7-13-11) | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 5016.0ft (Original Well Elev) Coordinates are relative to: SRC Avex 21-2D
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.34°



Company: Synergy Resources
Project: SEC.2-T4N-R68W
Reference Site: SRC Avex 11-2D Pad Sec.2-T4N-R68W
Site Error: 0.0ft
Reference Well: SRC Avex 21-2D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-13-11)

Local Co-ordinate Reference: Well SRC Avex 21-2D
TVD Reference: WELL @ 5016.0ft (Original Well Elev)
MD Reference: WELL @ 5016.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 5016.0ft (Original Well Elev) Coordinates are relative to: SRC Avex 21-2D
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: 0.34°

