

Azimuths to True North
Magnetic North: 8.29°

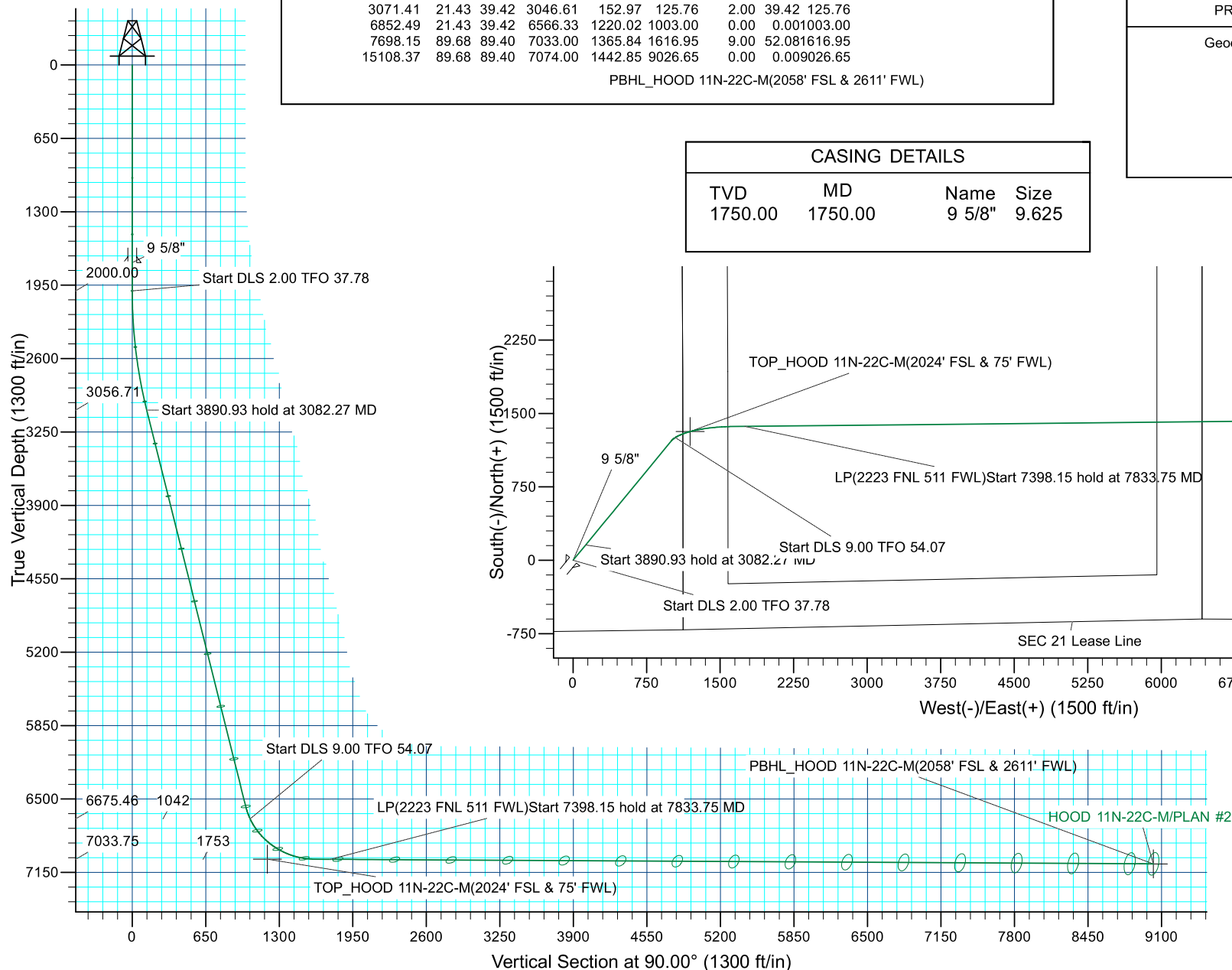
Magnetic Field
Strength: 52482.6snT
Dip Angle: 66.92°
Date: 12/15/2016
Model: IGRF2015

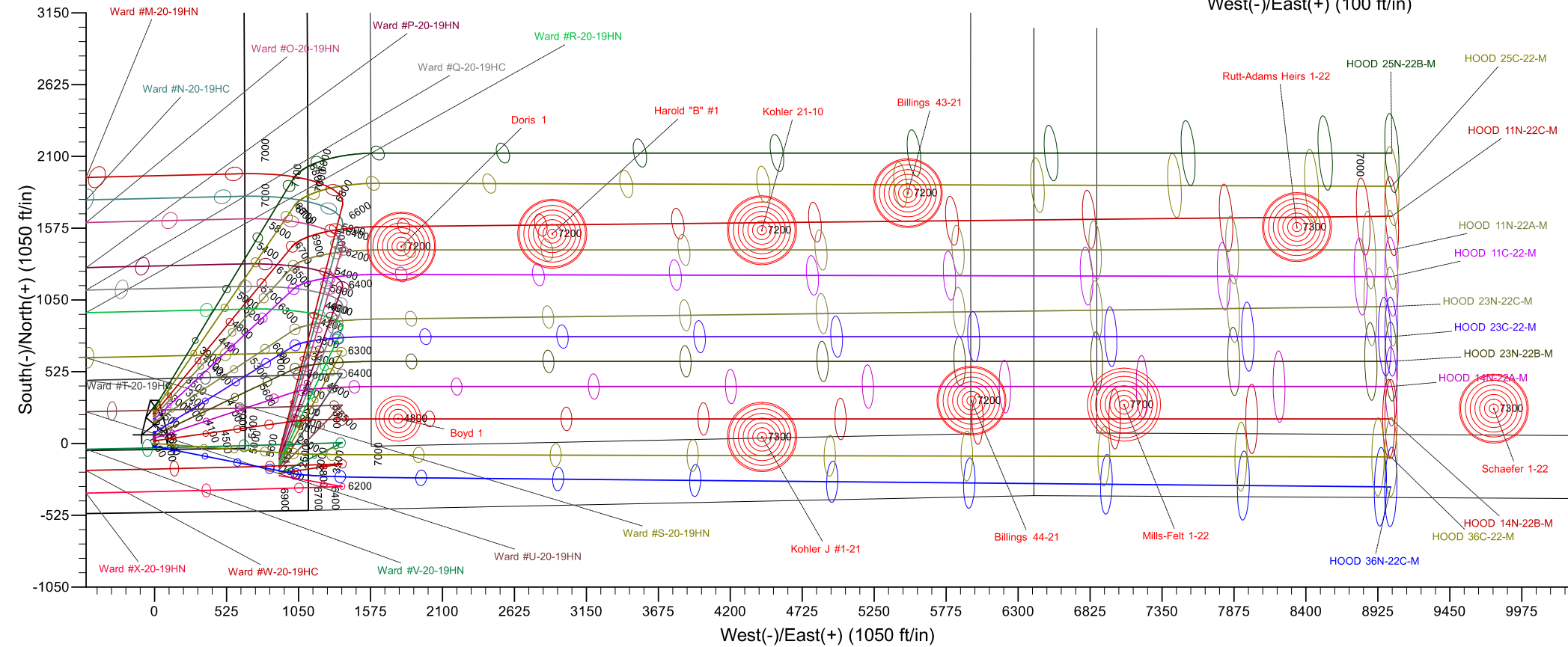
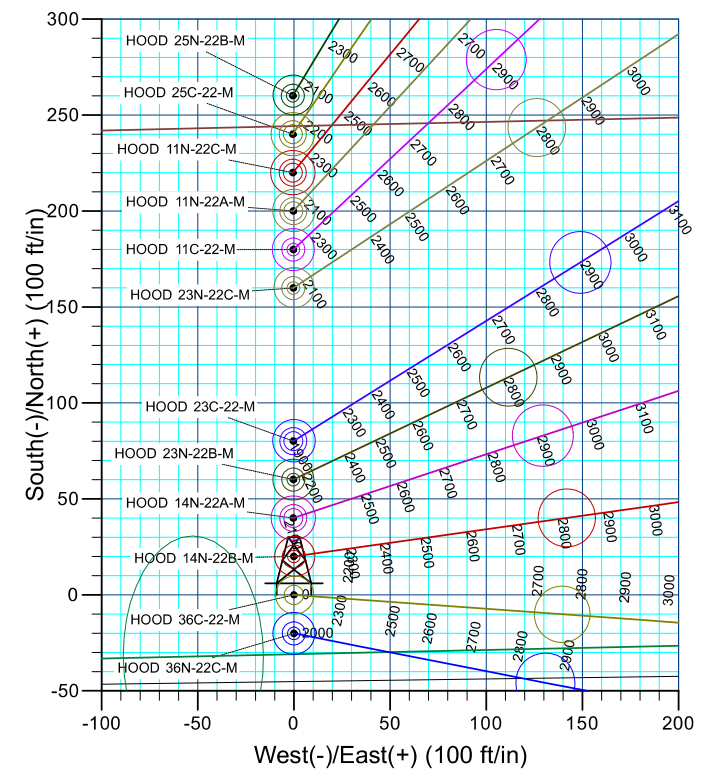
| SECTION DETAILS | | | | | | | | | |
|--|-------|-------|---------|---------|---------|------|-------|---------|--------|
| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2000.00 | 0.00 | 0.00 | 2000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3071.41 | 21.43 | 39.42 | 3046.61 | 152.97 | 125.76 | 2.00 | 39.42 | 125.76 | |
| 6852.49 | 21.43 | 39.42 | 6566.33 | 1220.02 | 1003.00 | 0.00 | 0.00 | 1003.00 | |
| 7698.15 | 89.68 | 89.40 | 7033.00 | 1365.84 | 1616.95 | 9.00 | 52.08 | 1616.95 | |
| 15108.37 | 89.68 | 89.40 | 7074.00 | 1442.85 | 9026.65 | 0.00 | 0.00 | 9026.65 | |
| PBHL_HOOD 11N-22C-M(2058' FSL & 2611' FWL) | | | | | | | | | |

| CASING DETAILS | | | |
|----------------|---------|--------|-------|
| TVD | MD | Name | Size |
| 1750.00 | 1750.00 | 9 5/8" | 9.625 |

PROJECT DETAILS: SEC 20-T6N-R66W

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
Colorado Northern Zone
System Datum: Mean Sea Level







Synergy Resources Corporation

SEC 20-T6N-R66W

HOOD-DOLES 37-20 PAD

HOOD 11N-22C-M

OH

Plan: PLAN #2

Standard Survey Report

20 December, 2016

| | | | |
|------------------|-------------------------------|-------------------------------------|----------------------------|
| Company: | Synergy Resources Corporation | Local Co-ordinate Reference: | Well HOOD 11N-22C-M |
| Project: | SEC 20-T6N-R66W | TVD Reference: | WELL @ 4759.00ft (ASSUMED) |
| Site: | HOOD-DOLES 37-20 PAD | MD Reference: | WELL @ 4759.00ft (ASSUMED) |
| Well: | HOOD 11N-22C-M | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | PLAN #2 | Database: | EDM 5000.14 Single User Db |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | SEC 20-T6N-R66W | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| Site | | HOOD-DOLES 37-20 PAD | | | |
|-----------------------|----------|----------------------|-----------------|-------------------|--------------|
| Site Position: | | Northing: | 1,414,281.96 ft | Latitude: | 40.4684660 |
| From: | Lat/Long | Easting: | 3,195,759.92 ft | Longitude: | -104.7964230 |
| Position Uncertainty: | 4.92 ft | Slot Radius: | 13.200 in | Grid Convergence: | 0.45 ° |

| Well | HOOD 11N-22C-M, 725' FSL & 1122' FEL | | | | | |
|----------------------|--------------------------------------|---------|---------------------|-----------------|---------------|--------------|
| Well Position | +N/-S | 0.00 ft | Northing: | 1,414,241.87 ft | Latitude: | 40.4683560 |
| | +E/-W | 0.00 ft | Easting: | 3,195,760.24 ft | Longitude: | -104.7964230 |
| Position Uncertainty | | 4.92 ft | Wellhead Elevation: | ft | Ground Level: | 4,734.00 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 12/15/2016 | 8.29 | 66.92 | 52,483 |

| | | | | | |
|-------------------|--------------------------|---------------|---------------|------------------|------|
| Design | PLAN #2 | | | | |
| Audit Notes: | | | | | |
| Version: | Phase: | PLAN | | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 90.00 | |

| | | | | | |
|----------------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Tool Program | Date | 12/20/2016 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.00 | 15,108.35 | PLAN #2 (OH) | MWD+IFR1 | OWSG MWD + IFR1 | |

| 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) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,750.00 | 0.00 | 0.00 | 1,750.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 9 5/8" | | | | | | | | | | |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Start DLS 2.00 TFO 37.78 | | | | | | | | | | |
| 2,100.00 | 2.00 | 39.42 | 2,099.98 | 1.35 | 1.11 | 1.11 | 2.00 | 2.00 | 0.00 | |
| 2,200.00 | 4.00 | 39.42 | 2,199.84 | 5.39 | 4.43 | 4.43 | 2.00 | 2.00 | 0.00 | |
| 2,300.00 | 6.00 | 39.42 | 2,299.45 | 12.12 | 9.97 | 9.97 | 2.00 | 2.00 | 0.00 | |
| 2,400.00 | 8.00 | 39.42 | 2,398.70 | 21.54 | 17.71 | 17.71 | 2.00 | 2.00 | 0.00 | |
| 2,500.00 | 10.00 | 39.42 | 2,497.47 | 33.62 | 27.64 | 27.64 | 2.00 | 2.00 | 0.00 | |

| | | | |
|------------------|-------------------------------|-------------------------------------|----------------------------|
| Company: | Synergy Resources Corporation | Local Co-ordinate Reference: | Well HOOD 11N-22C-M |
| Project: | SEC 20-T6N-R66W | TVD Reference: | WELL @ 4759.00ft (ASSUMED) |
| Site: | HOOD-DOLES 37-20 PAD | MD Reference: | WELL @ 4759.00ft (ASSUMED) |
| Well: | HOOD 11N-22C-M | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | PLAN #2 | Database: | EDM 5000.14 Single User Db |

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) |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 2,600.00 | 12.00 | 39.42 | 2,595.62 | 48.36 | 39.76 | 39.76 | 2.00 | 2.00 | 0.00 |
| 2,700.00 | 14.00 | 39.42 | 2,693.06 | 65.73 | 54.04 | 54.04 | 2.00 | 2.00 | 0.00 |
| 2,800.00 | 16.00 | 39.42 | 2,789.64 | 85.73 | 70.48 | 70.48 | 2.00 | 2.00 | 0.00 |
| 2,900.00 | 18.00 | 39.42 | 2,885.27 | 108.31 | 89.04 | 89.04 | 2.00 | 2.00 | 0.00 |
| 3,000.00 | 20.00 | 39.42 | 2,979.82 | 133.46 | 109.72 | 109.72 | 2.00 | 2.00 | 0.00 |
| 3,071.41 | 21.43 | 39.42 | 3,046.61 | 152.97 | 125.76 | 125.76 | 2.00 | 2.00 | 0.00 |
| 3,082.27 | 21.43 | 39.42 | 3,056.71 | 156.03 | 128.28 | 128.28 | 0.00 | 0.00 | 0.00 |
| Start 3890.93 hold at 3082.27 MD | | | | | | | | | |
| 3,100.00 | 21.43 | 39.42 | 3,073.22 | 161.04 | 132.39 | 132.39 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 21.43 | 39.42 | 3,166.31 | 189.26 | 155.59 | 155.59 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 21.43 | 39.42 | 3,259.40 | 217.48 | 178.79 | 178.79 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 21.43 | 39.42 | 3,352.48 | 245.70 | 201.99 | 201.99 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 21.43 | 39.42 | 3,445.57 | 273.92 | 225.19 | 225.19 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 21.43 | 39.42 | 3,538.66 | 302.14 | 248.39 | 248.39 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 21.43 | 39.42 | 3,631.75 | 330.36 | 271.60 | 271.60 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 21.43 | 39.42 | 3,724.83 | 358.58 | 294.80 | 294.80 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 21.43 | 39.42 | 3,817.92 | 386.80 | 318.00 | 318.00 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 21.43 | 39.42 | 3,911.01 | 415.02 | 341.20 | 341.20 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 21.43 | 39.42 | 4,004.10 | 443.24 | 364.40 | 364.40 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 21.43 | 39.42 | 4,097.19 | 471.46 | 387.60 | 387.60 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 21.43 | 39.42 | 4,190.27 | 499.69 | 410.80 | 410.80 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 21.43 | 39.42 | 4,283.36 | 527.91 | 434.00 | 434.00 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 21.43 | 39.42 | 4,376.45 | 556.13 | 457.20 | 457.20 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 21.43 | 39.42 | 4,469.54 | 584.35 | 480.40 | 480.40 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 21.43 | 39.42 | 4,562.62 | 612.57 | 503.60 | 503.60 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 21.43 | 39.42 | 4,655.71 | 640.79 | 526.80 | 526.80 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 21.43 | 39.42 | 4,748.80 | 669.01 | 550.01 | 550.01 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 21.43 | 39.42 | 4,841.89 | 697.23 | 573.21 | 573.21 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 21.43 | 39.42 | 4,934.97 | 725.45 | 596.41 | 596.41 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 21.43 | 39.42 | 5,028.06 | 753.67 | 619.61 | 619.61 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 21.43 | 39.42 | 5,121.15 | 781.89 | 642.81 | 642.81 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 21.43 | 39.42 | 5,214.24 | 810.11 | 666.01 | 666.01 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 21.43 | 39.42 | 5,307.32 | 838.34 | 689.21 | 689.21 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 21.43 | 39.42 | 5,400.41 | 866.56 | 712.41 | 712.41 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 21.43 | 39.42 | 5,493.50 | 894.78 | 735.61 | 735.61 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 21.43 | 39.42 | 5,586.59 | 923.00 | 758.81 | 758.81 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 21.43 | 39.42 | 5,679.68 | 951.22 | 782.01 | 782.01 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 21.43 | 39.42 | 5,772.76 | 979.44 | 805.21 | 805.21 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 21.43 | 39.42 | 5,865.85 | 1,007.66 | 828.42 | 828.42 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 21.43 | 39.42 | 5,958.94 | 1,035.88 | 851.62 | 851.62 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 21.43 | 39.42 | 6,052.03 | 1,064.10 | 874.82 | 874.82 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 21.43 | 39.42 | 6,145.11 | 1,092.32 | 898.02 | 898.02 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 21.43 | 39.42 | 6,238.20 | 1,120.54 | 921.22 | 921.22 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-------------------------------|-------------------------------------|----------------------------|
| Company: | Synergy Resources Corporation | Local Co-ordinate Reference: | Well HOOD 11N-22C-M |
| Project: | SEC 20-T6N-R66W | TVD Reference: | WELL @ 4759.00ft (ASSUMED) |
| Site: | HOOD-DOLES 37-20 PAD | MD Reference: | WELL @ 4759.00ft (ASSUMED) |
| Well: | HOOD 11N-22C-M | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | PLAN #2 | Database: | EDM 5000.14 Single User Db |

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) |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 6,600.00 | 21.43 | 39.42 | 6,331.29 | 1,148.76 | 944.42 | 944.42 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 21.43 | 39.42 | 6,424.38 | 1,176.98 | 967.62 | 967.62 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 21.43 | 39.42 | 6,517.46 | 1,205.21 | 990.82 | 990.82 | 0.00 | 0.00 | 0.00 |
| 6,852.49 | 21.43 | 39.42 | 6,566.33 | 1,220.02 | 1,003.00 | 1,003.00 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 24.28 | 47.65 | 6,610.11 | 1,233.31 | 1,015.73 | 1,015.73 | 9.00 | 6.00 | 17.31 |
| 6,973.20 | 29.32 | 57.10 | 6,675.46 | 1,253.21 | 1,041.93 | 1,041.93 | 9.00 | 6.89 | 12.91 |
| Start DLS 9.00 TFO 54.07 | | | | | | | | | |
| 7,000.00 | 31.30 | 59.83 | 6,698.59 | 1,260.27 | 1,053.46 | 1,053.46 | 9.00 | 7.39 | 10.20 |
| 7,100.00 | 39.08 | 67.74 | 6,780.30 | 1,285.31 | 1,105.20 | 1,105.20 | 9.00 | 7.78 | 7.91 |
| 7,200.00 | 47.23 | 73.33 | 6,853.22 | 1,307.82 | 1,169.66 | 1,169.66 | 9.00 | 8.15 | 5.59 |
| 7,300.00 | 55.59 | 77.60 | 6,915.55 | 1,327.25 | 1,245.27 | 1,245.27 | 9.00 | 8.36 | 4.27 |
| 7,400.00 | 64.08 | 81.09 | 6,965.77 | 1,343.10 | 1,330.16 | 1,330.16 | 9.00 | 8.48 | 3.48 |
| 7,500.00 | 72.63 | 84.10 | 7,002.63 | 1,355.00 | 1,422.25 | 1,422.25 | 9.00 | 8.56 | 3.01 |
| 7,600.00 | 81.23 | 86.84 | 7,025.23 | 1,362.65 | 1,519.25 | 1,519.25 | 9.00 | 8.60 | 2.74 |
| 7,698.15 | 89.68 | 89.40 | 7,033.00 | 1,365.84 | 1,616.95 | 1,616.95 | 9.00 | 8.61 | 2.62 |
| 7,700.00 | 89.68 | 89.40 | 7,033.01 | 1,365.86 | 1,618.80 | 1,618.80 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 89.68 | 89.40 | 7,033.56 | 1,366.90 | 1,718.79 | 1,718.79 | 0.00 | 0.00 | 0.00 |
| 7,833.75 | 89.68 | 89.40 | 7,033.75 | 1,367.25 | 1,752.54 | 1,752.54 | 0.00 | 0.00 | 0.00 |
| LP(2146 FNL 511 FWL)Start 7398.15 hold at 7833.75 MD | | | | | | | | | |
| 7,900.00 | 89.68 | 89.40 | 7,034.11 | 1,367.94 | 1,818.78 | 1,818.78 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 89.68 | 89.40 | 7,034.67 | 1,368.98 | 1,918.78 | 1,918.78 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 89.68 | 89.40 | 7,035.22 | 1,370.02 | 2,018.77 | 2,018.77 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 89.68 | 89.40 | 7,035.77 | 1,371.05 | 2,118.76 | 2,118.76 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 89.68 | 89.40 | 7,036.33 | 1,372.09 | 2,218.75 | 2,218.75 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 89.68 | 89.40 | 7,036.88 | 1,373.13 | 2,318.75 | 2,318.75 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 89.68 | 89.40 | 7,037.43 | 1,374.17 | 2,418.74 | 2,418.74 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 89.68 | 89.40 | 7,037.99 | 1,375.21 | 2,518.73 | 2,518.73 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 89.68 | 89.40 | 7,038.54 | 1,376.25 | 2,618.73 | 2,618.73 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 89.68 | 89.40 | 7,039.09 | 1,377.29 | 2,718.72 | 2,718.72 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 89.68 | 89.40 | 7,039.65 | 1,378.33 | 2,818.71 | 2,818.71 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 89.68 | 89.40 | 7,040.20 | 1,379.37 | 2,918.71 | 2,918.71 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 89.68 | 89.40 | 7,040.75 | 1,380.41 | 3,018.70 | 3,018.70 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 89.68 | 89.40 | 7,041.31 | 1,381.45 | 3,118.69 | 3,118.69 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 89.68 | 89.40 | 7,041.86 | 1,382.49 | 3,218.69 | 3,218.69 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 89.68 | 89.40 | 7,042.41 | 1,383.53 | 3,318.68 | 3,318.68 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 89.68 | 89.40 | 7,042.97 | 1,384.56 | 3,418.67 | 3,418.67 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 89.68 | 89.40 | 7,043.52 | 1,385.60 | 3,518.66 | 3,518.66 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 89.68 | 89.40 | 7,044.07 | 1,386.64 | 3,618.66 | 3,618.66 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 89.68 | 89.40 | 7,044.63 | 1,387.68 | 3,718.65 | 3,718.65 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 89.68 | 89.40 | 7,045.18 | 1,388.72 | 3,818.64 | 3,818.64 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 89.68 | 89.40 | 7,045.73 | 1,389.76 | 3,918.64 | 3,918.64 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 89.68 | 89.40 | 7,046.29 | 1,390.80 | 4,018.63 | 4,018.63 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 89.68 | 89.40 | 7,046.84 | 1,391.84 | 4,118.62 | 4,118.62 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 89.68 | 89.40 | 7,047.39 | 1,392.88 | 4,218.62 | 4,218.62 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-------------------------------|-------------------------------------|----------------------------|
| Company: | Synergy Resources Corporation | Local Co-ordinate Reference: | Well HOOD 11N-22C-M |
| Project: | SEC 20-T6N-R66W | TVD Reference: | WELL @ 4759.00ft (ASSUMED) |
| Site: | HOOD-DOLES 37-20 PAD | MD Reference: | WELL @ 4759.00ft (ASSUMED) |
| Well: | HOOD 11N-22C-M | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | PLAN #2 | Database: | EDM 5000.14 Single User Db |

| 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) |
| 10,400.00 | 89.68 | 89.40 | 7,047.95 | 1,393.92 | 4,318.61 | 4,318.61 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 89.68 | 89.40 | 7,048.50 | 1,394.96 | 4,418.60 | 4,418.60 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 89.68 | 89.40 | 7,049.05 | 1,396.00 | 4,518.60 | 4,518.60 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 89.68 | 89.40 | 7,049.61 | 1,397.04 | 4,618.59 | 4,618.59 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 89.68 | 89.40 | 7,050.16 | 1,398.07 | 4,718.58 | 4,718.58 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 89.68 | 89.40 | 7,050.71 | 1,399.11 | 4,818.57 | 4,818.57 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 89.68 | 89.40 | 7,051.27 | 1,400.15 | 4,918.57 | 4,918.57 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 89.68 | 89.40 | 7,051.82 | 1,401.19 | 5,018.56 | 5,018.56 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 89.68 | 89.40 | 7,052.37 | 1,402.23 | 5,118.55 | 5,118.55 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 89.68 | 89.40 | 7,052.93 | 1,403.27 | 5,218.55 | 5,218.55 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 89.68 | 89.40 | 7,053.48 | 1,404.31 | 5,318.54 | 5,318.54 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 89.68 | 89.40 | 7,054.03 | 1,405.35 | 5,418.53 | 5,418.53 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 89.68 | 89.40 | 7,054.59 | 1,406.39 | 5,518.53 | 5,518.53 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 89.68 | 89.40 | 7,055.14 | 1,407.43 | 5,618.52 | 5,618.52 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 89.68 | 89.40 | 7,055.69 | 1,408.47 | 5,718.51 | 5,718.51 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 89.68 | 89.40 | 7,056.25 | 1,409.51 | 5,818.51 | 5,818.51 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 89.68 | 89.40 | 7,056.80 | 1,410.55 | 5,918.50 | 5,918.50 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 89.68 | 89.40 | 7,057.35 | 1,411.58 | 6,018.49 | 6,018.49 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 89.68 | 89.40 | 7,057.91 | 1,412.62 | 6,118.48 | 6,118.48 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 89.68 | 89.40 | 7,058.46 | 1,413.66 | 6,218.48 | 6,218.48 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 89.68 | 89.40 | 7,059.01 | 1,414.70 | 6,318.47 | 6,318.47 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 89.68 | 89.40 | 7,059.57 | 1,415.74 | 6,418.46 | 6,418.46 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 89.68 | 89.40 | 7,060.12 | 1,416.78 | 6,518.46 | 6,518.46 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 89.68 | 89.40 | 7,060.67 | 1,417.82 | 6,618.45 | 6,618.45 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 89.68 | 89.40 | 7,061.23 | 1,418.86 | 6,718.44 | 6,718.44 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 89.68 | 89.40 | 7,061.78 | 1,419.90 | 6,818.44 | 6,818.44 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 89.68 | 89.40 | 7,062.33 | 1,420.94 | 6,918.43 | 6,918.43 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 89.68 | 89.40 | 7,062.89 | 1,421.98 | 7,018.42 | 7,018.42 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 89.68 | 89.40 | 7,063.44 | 1,423.02 | 7,118.42 | 7,118.42 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 89.68 | 89.40 | 7,063.99 | 1,424.06 | 7,218.41 | 7,218.41 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 89.68 | 89.40 | 7,064.55 | 1,425.09 | 7,318.40 | 7,318.40 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 89.68 | 89.40 | 7,065.10 | 1,426.13 | 7,418.39 | 7,418.39 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 89.68 | 89.40 | 7,065.65 | 1,427.17 | 7,518.39 | 7,518.39 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 89.68 | 89.40 | 7,066.21 | 1,428.21 | 7,618.38 | 7,618.38 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 89.68 | 89.40 | 7,066.76 | 1,429.25 | 7,718.37 | 7,718.37 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 89.68 | 89.40 | 7,067.31 | 1,430.29 | 7,818.37 | 7,818.37 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 89.68 | 89.40 | 7,067.87 | 1,431.33 | 7,918.36 | 7,918.36 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 89.68 | 89.40 | 7,068.42 | 1,432.37 | 8,018.35 | 8,018.35 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 89.68 | 89.40 | 7,068.97 | 1,433.41 | 8,118.35 | 8,118.35 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 89.68 | 89.40 | 7,069.53 | 1,434.45 | 8,218.34 | 8,218.34 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 89.68 | 89.40 | 7,070.08 | 1,435.49 | 8,318.33 | 8,318.33 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 89.68 | 89.40 | 7,070.63 | 1,436.53 | 8,418.32 | 8,418.32 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 89.68 | 89.40 | 7,071.19 | 1,437.57 | 8,518.32 | 8,518.32 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-------------------------------|-------------------------------------|----------------------------|
| Company: | Synergy Resources Corporation | Local Co-ordinate Reference: | Well HOOD 11N-22C-M |
| Project: | SEC 20-T6N-R66W | TVD Reference: | WELL @ 4759.00ft (ASSUMED) |
| Site: | HOOD-DOLES 37-20 PAD | MD Reference: | WELL @ 4759.00ft (ASSUMED) |
| Well: | HOOD 11N-22C-M | North Reference: | True |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | PLAN #2 | Database: | EDM 5000.14 Single User Db |

| 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) |
| 14,700.00 | 89.68 | 89.40 | 7,071.74 | 1,438.60 | 8,618.31 | 8,618.31 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 89.68 | 89.40 | 7,072.29 | 1,439.64 | 8,718.30 | 8,718.30 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 89.68 | 89.40 | 7,072.85 | 1,440.68 | 8,818.30 | 8,818.30 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 89.68 | 89.40 | 7,073.40 | 1,441.72 | 8,918.29 | 8,918.29 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 89.68 | 89.40 | 7,073.95 | 1,442.76 | 9,018.28 | 9,018.28 | 0.00 | 0.00 | 0.00 |
| 15,108.37 | 89.68 | 89.40 | 7,074.00 | 1,442.85 | 9,026.65 | 9,026.65 | 0.00 | 0.00 | 0.00 |

| Design Targets | | | | | | | | | |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|------------|--------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
| TOP_HOOD 11N-22C-M - hit/miss target - Shape - Point | 0.00 | 0.00 | 7,033.00 | 1,315.87 | 1,194.65 | 1,415,567.18 | 3,196,944.41 | 40.4719679 | -104.7921290 |
| - plan misses target center by 126.71ft at 7314.23ft MD (6923.47 TVD, 1329.73 N, 1256.83 E) | | | | | | | | | |
| PBHL_HOOD 11N-22C- - plan hits target center - Point | 0.00 | 0.00 | 7,074.00 | 1,442.85 | 9,026.65 | 1,415,756.30 | 3,204,775.15 | 40.4723120 | -104.7639780 |

| Casing Points | | | | | |
|---------------------|---------------------|--------|----------------------|--------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (in) | Hole Diameter (in) | |
| 1,750.00 | 1,750.00 | 9 5/8" | 9.625 | 13.500 | |

| Plan Annotations | | | | |
|---------------------|---------------------|------------|------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment |
| 2000 | 2000 | 0 | 0 | Start DLS 2.00 TFO 37.78 |
| 3082 | 3057 | 156 | 128 | Start 3890.93 hold at 3082.27 MD |
| 6973 | 6675 | 1253 | 1042 | Start DLS 9.00 TFO 54.07 |
| 7834 | 7034 | 1367 | 1753 | LP(2146 FNL 511 FWL)Start 7398.15 hold at 7833.75 MD |
| 15,232 | | | | TD at 15231.91 |

Checked By: _____ Approved By: _____ Date: _____