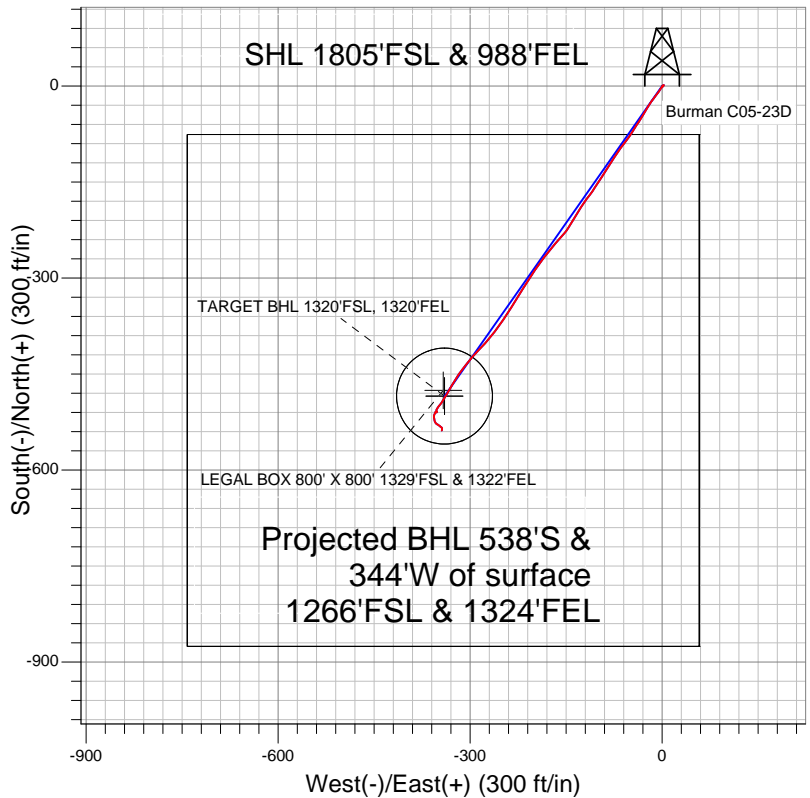


NOBLE ENERGY INC WELD COUNTY CO



LEGEND

- Burman C05-23D, Wellbore #1, Noble Burman C05-23D Plan #1 (6-15-11) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7628'MD & 7573'TVD @ 638'VS
1.0 deg Inc 200.0 deg AZ

Project: SEC.5-T4N-R64W
Site: Burman C04-33D Pad Sec.5-T4N-R64W
Well: Burman C05-23D
Plan: Wellbore #1



NOBLE ENERGY INC WELD COUNTY CO

SEC.5-T4N-R64W

Burman C04-33D Pad Sec.5-T4N-R64W

Burman C05-23D

Wellbore #1

Survey: Survey #1

Standard Survey Report

24 October, 2011



| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | NOBLE ENERGY INC WELD COUNTY CO | Local Co-ordinate Reference: | Well Burman C05-23D |
| Project: | SEC.5-T4N-R64W | TVD Reference: | WELL @ 4762.0ft (Original Well Elev) |
| Site: | Burman C04-33D Pad Sec.5-T4N-R64W | MD Reference: | WELL @ 4762.0ft (Original Well Elev) |
| Well: | Burman C05-23D | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Landmark |

| | | | |
|--------------------|---------------------------------------|----------------------|-----------------------------|
| Project | SEC.5-T4N-R64W, 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 | Burman C04-33D Pad Sec.5-T4N-R64W | | |
| Site Position: | | Northing: | 1,367,739.92 ft |
| From: | Lat/Long | Easting: | 3,259,777.75 ft |
| Position Uncertainty: | 0.0 ft | Slot Radius: | " |
| | | Latitude: | 40.339100 |
| | | Longitude: | -104.568080 |
| | | Grid Convergence: | 0.60 ° |

| | | | |
|-----------------------------|----------------|--------|----------------------------|
| Well | Burman C05-23D | | |
| Well Position | +N/-S | 0.0 ft | Northing: |
| | +E/-W | 0.0 ft | Easting: |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: |
| | | | Latitude: |
| | | | Longitude: |
| | | | Ground Level: |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 6/22/2011 | 8.75 | 67.03 | 53,119 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|-----|
| Design | Wellbore #1 | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 5,000.0 | 0.0 | 0.0 | 215.07 | |

| | | | | | |
|-----------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date | 10/24/2011 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 74.0 | 7,628.0 | Survey #1 (Wellbore #1) | MWD | MWD - Standard | |

| | | | | | | | | | | |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|--|
| 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 | |
| 74.0 | 0.90 | 42.30 | 74.0 | 0.4 | 0.4 | -0.6 | 1.22 | 1.22 | 0.00 | |
| 167.0 | 1.00 | 75.20 | 167.0 | 1.2 | 1.7 | -1.9 | 0.59 | 0.11 | 35.38 | |
| 260.0 | 0.40 | 54.50 | 260.0 | 1.6 | 2.7 | -2.8 | 0.69 | -0.65 | -22.26 | |
| 362.0 | 0.70 | 208.60 | 362.0 | 1.2 | 2.7 | -2.6 | 1.05 | 0.29 | 151.08 | |
| 444.0 | 0.70 | 234.50 | 444.0 | 0.5 | 2.1 | -1.6 | 0.38 | 0.00 | 31.59 | |
| 526.0 | 0.70 | 203.00 | 526.0 | -0.2 | 1.5 | -0.6 | 0.46 | 0.00 | -38.41 | |
| 608.0 | 0.50 | 247.50 | 608.0 | -0.8 | 0.9 | 0.2 | 0.60 | -0.24 | 54.27 | |
| 659.0 | 0.40 | 236.60 | 659.0 | -1.0 | 0.6 | 0.5 | 0.26 | -0.20 | -21.37 | |
| 715.0 | 0.50 | 226.00 | 715.0 | -1.3 | 0.2 | 0.9 | 0.23 | 0.18 | -18.93 | |
| 833.0 | 0.70 | 217.60 | 832.9 | -2.2 | -0.6 | 2.2 | 0.18 | 0.17 | -7.12 | |
| 915.0 | 0.80 | 233.60 | 914.9 | -3.0 | -1.3 | 3.2 | 0.28 | 0.12 | 19.51 | |
| 997.0 | 2.30 | 212.50 | 996.9 | -4.7 | -2.7 | 5.4 | 1.93 | 1.83 | -25.73 | |

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | NOBLE ENERGY INC WELD COUNTY CO | Local Co-ordinate Reference: | Well Burman C05-23D |
| Project: | SEC.5-T4N-R64W | TVD Reference: | WELL @ 4762.0ft (Original Well Elev) |
| Site: | Burman C04-33D Pad Sec.5-T4N-R64W | MD Reference: | WELL @ 4762.0ft (Original Well Elev) |
| Well: | Burman C05-23D | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Landmark |

| 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) | |
| 1,078.0 | 3.90 | 214.60 | 1,077.8 | -8.3 | -5.1 | 9.8 | 1.98 | 1.98 | 2.59 | |
| 1,160.0 | 5.30 | 215.00 | 1,159.5 | -13.7 | -8.9 | 16.3 | 1.71 | 1.71 | 0.49 | |
| 1,242.0 | 6.20 | 220.00 | 1,241.1 | -20.2 | -13.9 | 24.5 | 1.26 | 1.10 | 6.10 | |
| 1,324.0 | 7.00 | 211.40 | 1,322.6 | -27.9 | -19.3 | 33.9 | 1.55 | 0.98 | -10.49 | |
| 1,405.0 | 8.40 | 210.50 | 1,402.8 | -37.2 | -24.9 | 44.8 | 1.73 | 1.73 | -1.11 | |
| 1,487.0 | 10.00 | 214.20 | 1,483.8 | -48.3 | -32.0 | 57.9 | 2.08 | 1.95 | 4.51 | |
| 1,569.0 | 10.60 | 212.00 | 1,564.5 | -60.5 | -40.0 | 72.5 | 0.87 | 0.73 | -2.68 | |
| 1,651.0 | 10.00 | 210.50 | 1,645.1 | -73.1 | -47.6 | 87.1 | 0.80 | -0.73 | -1.83 | |
| 1,732.0 | 10.60 | 218.60 | 1,724.8 | -84.9 | -55.8 | 101.6 | 1.93 | 0.74 | 10.00 | |
| 1,814.0 | 10.10 | 216.50 | 1,805.5 | -96.6 | -64.8 | 116.3 | 0.76 | -0.61 | -2.56 | |
| 1,896.0 | 10.70 | 213.00 | 1,886.2 | -108.8 | -73.2 | 131.1 | 1.06 | 0.73 | -4.27 | |
| 1,977.0 | 10.60 | 211.60 | 1,965.8 | -121.4 | -81.2 | 146.0 | 0.34 | -0.12 | -1.73 | |
| 2,059.0 | 10.50 | 212.80 | 2,046.4 | -134.1 | -89.2 | 161.0 | 0.29 | -0.12 | 1.46 | |
| 2,141.0 | 10.50 | 214.60 | 2,127.0 | -146.6 | -97.5 | 176.0 | 0.40 | 0.00 | 2.20 | |
| 2,223.0 | 9.80 | 210.90 | 2,207.7 | -158.7 | -105.3 | 190.4 | 1.17 | -0.85 | -4.51 | |
| 2,304.0 | 10.60 | 217.80 | 2,287.4 | -170.5 | -113.4 | 204.7 | 1.80 | 0.99 | 8.52 | |
| 2,386.0 | 10.30 | 214.90 | 2,368.1 | -182.5 | -122.2 | 219.6 | 0.74 | -0.37 | -3.54 | |
| 2,468.0 | 11.30 | 210.40 | 2,448.6 | -195.4 | -130.5 | 234.9 | 1.59 | 1.22 | -5.49 | |
| 2,550.0 | 11.10 | 212.90 | 2,529.1 | -209.0 | -138.8 | 250.8 | 0.64 | -0.24 | 3.05 | |
| 2,631.0 | 9.80 | 211.10 | 2,608.7 | -221.4 | -146.6 | 265.5 | 1.65 | -1.60 | -2.22 | |
| 2,713.0 | 11.90 | 221.80 | 2,689.3 | -233.7 | -155.9 | 280.9 | 3.54 | 2.56 | 13.05 | |
| 2,795.0 | 11.90 | 220.90 | 2,769.5 | -246.4 | -167.1 | 297.7 | 0.23 | 0.00 | -1.10 | |
| 2,877.0 | 11.90 | 217.40 | 2,849.7 | -259.5 | -177.7 | 314.5 | 0.88 | 0.00 | -4.27 | |
| 2,958.0 | 11.00 | 216.90 | 2,929.1 | -272.3 | -187.4 | 330.6 | 1.12 | -1.11 | -0.62 | |
| 3,040.0 | 10.20 | 216.50 | 3,009.7 | -284.4 | -196.5 | 345.7 | 0.98 | -0.98 | -0.49 | |
| 3,122.0 | 11.60 | 213.70 | 3,090.2 | -297.1 | -205.3 | 361.2 | 1.82 | 1.71 | -3.41 | |
| 3,204.0 | 10.40 | 210.00 | 3,170.7 | -310.4 | -213.6 | 376.8 | 1.70 | -1.46 | -4.51 | |
| 3,285.0 | 10.30 | 211.60 | 3,250.4 | -322.9 | -221.1 | 391.3 | 0.38 | -0.12 | 1.98 | |
| 3,367.0 | 9.80 | 212.30 | 3,331.2 | -335.0 | -228.6 | 405.6 | 0.63 | -0.61 | 0.85 | |
| 3,449.0 | 10.60 | 213.20 | 3,411.9 | -347.2 | -236.5 | 420.1 | 0.99 | 0.98 | 1.10 | |
| 3,531.0 | 11.00 | 213.70 | 3,492.4 | -360.1 | -245.0 | 435.4 | 0.50 | 0.49 | 0.61 | |
| 3,612.0 | 10.60 | 214.40 | 3,572.0 | -372.6 | -253.5 | 450.6 | 0.52 | -0.49 | 0.86 | |
| 3,694.0 | 11.30 | 217.60 | 3,652.5 | -385.2 | -262.6 | 466.2 | 1.13 | 0.85 | 3.90 | |
| 3,776.0 | 11.80 | 222.00 | 3,732.8 | -397.8 | -273.1 | 482.5 | 1.23 | 0.61 | 5.37 | |
| 3,857.0 | 12.10 | 224.10 | 3,812.1 | -410.1 | -284.6 | 499.1 | 0.65 | 0.37 | 2.59 | |
| 3,939.0 | 12.30 | 220.60 | 3,892.2 | -422.9 | -296.3 | 516.3 | 0.93 | 0.24 | -4.27 | |
| 4,021.0 | 11.80 | 217.40 | 3,972.4 | -436.2 | -307.0 | 533.4 | 1.02 | -0.61 | -3.90 | |
| 4,103.0 | 10.30 | 215.30 | 4,052.9 | -448.8 | -316.4 | 549.1 | 1.89 | -1.83 | -2.56 | |
| 4,184.0 | 8.70 | 212.30 | 4,132.8 | -459.9 | -323.8 | 562.5 | 2.07 | -1.98 | -3.70 | |
| 4,266.0 | 8.40 | 209.30 | 4,213.9 | -470.4 | -330.1 | 574.6 | 0.66 | -0.37 | -3.66 | |
| 4,348.0 | 7.40 | 210.90 | 4,295.1 | -480.1 | -335.7 | 585.8 | 1.25 | -1.22 | 1.95 | |
| 4,430.0 | 6.20 | 209.80 | 4,376.5 | -488.5 | -340.6 | 595.5 | 1.47 | -1.46 | -1.34 | |
| 4,511.0 | 6.00 | 216.90 | 4,457.1 | -495.7 | -345.3 | 604.1 | 0.96 | -0.25 | 8.77 | |
| 4,593.0 | 4.00 | 217.80 | 4,538.7 | -501.4 | -349.7 | 611.3 | 2.44 | -2.44 | 1.10 | |
| 4,675.0 | 1.20 | 209.00 | 4,620.6 | -504.4 | -351.8 | 615.0 | 3.44 | -3.41 | -10.73 | |
| 4,757.0 | 1.70 | 197.70 | 4,702.6 | -506.3 | -352.6 | 617.0 | 0.70 | 0.61 | -13.78 | |
| 4,838.0 | 0.90 | 121.10 | 4,783.6 | -507.8 | -352.4 | 618.1 | 2.13 | -0.99 | -94.57 | |
| 4,920.0 | 0.40 | 181.90 | 4,865.6 | -508.4 | -351.9 | 618.3 | 0.96 | -0.61 | 74.15 | |
| 5,002.0 | 0.50 | 179.80 | 4,947.6 | -509.0 | -351.9 | 618.8 | 0.12 | 0.12 | -2.56 | |
| 5,054.2 | 0.55 | 199.74 | 4,999.7 | -509.5 | -352.0 | 619.2 | 0.36 | 0.09 | 38.23 | |
| TARGET BHL 1320°FSL, 1320°FEL | | | | | | | | | | |
| 5,084.0 | 0.60 | 209.10 | 5,029.6 | -509.8 | -352.1 | 619.5 | 0.36 | 0.18 | 31.36 | |
| 5,165.0 | 0.60 | 266.30 | 5,110.6 | -510.2 | -352.7 | 620.2 | 0.71 | 0.00 | 70.62 | |
| 5,247.0 | 0.60 | 326.60 | 5,192.6 | -509.8 | -353.4 | 620.3 | 0.74 | 0.00 | 73.54 | |

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|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | NOBLE ENERGY INC WELD COUNTY CO | Local Co-ordinate Reference: | Well Burman C05-23D |
| Project: | SEC.5-T4N-R64W | TVD Reference: | WELL @ 4762.0ft (Original Well Elev) |
| Site: | Burman C04-33D Pad Sec.5-T4N-R64W | MD Reference: | WELL @ 4762.0ft (Original Well Elev) |
| Well: | Burman C05-23D | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Landmark |

| 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) | |
| 5,329.0 | 0.60 | 324.10 | 5,274.6 | -509.1 | -353.9 | 620.0 | 0.03 | 0.00 | -3.05 | |
| 5,411.0 | 0.80 | 188.40 | 5,356.6 | -509.3 | -354.2 | 620.4 | 1.58 | 0.24 | -165.49 | |
| 5,492.0 | 1.50 | 205.40 | 5,437.6 | -510.8 | -354.8 | 621.9 | 0.95 | 0.86 | 20.99 | |
| 5,574.0 | 1.80 | 210.40 | 5,519.5 | -512.9 | -355.9 | 624.3 | 0.41 | 0.37 | 6.10 | |
| 5,656.0 | 1.70 | 185.60 | 5,601.5 | -515.3 | -356.7 | 626.6 | 0.92 | -0.12 | -30.24 | |
| 5,738.0 | 1.70 | 168.20 | 5,683.4 | -517.7 | -356.5 | 628.5 | 0.63 | 0.00 | -21.22 | |
| 5,819.0 | 1.50 | 169.40 | 5,764.4 | -519.9 | -356.1 | 630.1 | 0.25 | -0.25 | 1.48 | |
| 5,901.0 | 1.10 | 168.40 | 5,846.4 | -521.7 | -355.7 | 631.4 | 0.49 | -0.49 | -1.22 | |
| 5,983.0 | 1.10 | 167.80 | 5,928.4 | -523.2 | -355.4 | 632.5 | 0.01 | 0.00 | -0.73 | |
| 6,064.0 | 1.10 | 148.80 | 6,009.4 | -524.7 | -354.8 | 633.3 | 0.45 | 0.00 | -23.46 | |
| 6,146.0 | 0.80 | 162.40 | 6,091.4 | -525.9 | -354.3 | 634.0 | 0.46 | -0.37 | 16.59 | |
| 6,228.0 | 0.60 | 130.40 | 6,173.3 | -526.7 | -353.8 | 634.3 | 0.53 | -0.24 | -39.02 | |
| 6,310.0 | 0.40 | 129.70 | 6,255.3 | -527.2 | -353.2 | 634.4 | 0.24 | -0.24 | -0.85 | |
| 6,391.0 | 0.70 | 142.30 | 6,336.3 | -527.7 | -352.7 | 634.6 | 0.40 | 0.37 | 15.56 | |
| 6,473.0 | 0.70 | 115.80 | 6,418.3 | -528.4 | -351.9 | 634.6 | 0.39 | 0.00 | -32.32 | |
| 6,555.0 | 0.70 | 115.80 | 6,500.3 | -528.8 | -351.0 | 634.5 | 0.00 | 0.00 | 0.00 | |
| 6,637.0 | 0.70 | 123.20 | 6,582.3 | -529.3 | -350.2 | 634.4 | 0.11 | 0.00 | 9.02 | |
| 6,686.3 | 0.94 | 126.53 | 6,631.6 | -529.7 | -349.6 | 634.4 | 0.50 | 0.49 | 6.77 | |
| LEGAL BOX 800' X 800' 1329'FSL & 1322'FEL | | | | | | | | | | |
| 6,686.3 | 0.94 | 126.53 | 6,631.6 | -529.7 | -349.6 | 634.4 | 0.00 | 0.00 | 0.00 | |
| TARGET CIRCLE 1320'FSL & 1320'FEL | | | | | | | | | | |
| 6,718.0 | 1.10 | 127.90 | 6,663.3 | -530.0 | -349.1 | 634.4 | 0.50 | 0.50 | 4.31 | |
| 6,800.0 | 1.30 | 129.20 | 6,745.3 | -531.1 | -347.8 | 634.5 | 0.25 | 0.24 | 1.59 | |
| 6,882.0 | 1.00 | 125.60 | 6,827.3 | -532.1 | -346.5 | 634.6 | 0.38 | -0.37 | -4.39 | |
| 6,964.0 | 0.80 | 128.10 | 6,909.3 | -532.9 | -345.5 | 634.6 | 0.25 | -0.24 | 3.05 | |
| 7,045.0 | 0.70 | 138.50 | 6,990.3 | -533.6 | -344.7 | 634.8 | 0.21 | -0.12 | 12.84 | |
| 7,127.0 | 0.30 | 120.70 | 7,072.3 | -534.1 | -344.2 | 634.9 | 0.52 | -0.49 | -21.71 | |
| 7,209.0 | 0.30 | 190.00 | 7,154.3 | -534.4 | -344.0 | 635.0 | 0.42 | 0.00 | 84.51 | |
| 7,291.0 | 0.20 | 84.50 | 7,236.3 | -534.6 | -343.9 | 635.1 | 0.49 | -0.12 | -128.66 | |
| 7,372.0 | 0.50 | 187.30 | 7,317.3 | -534.9 | -343.8 | 635.4 | 0.71 | 0.37 | 126.91 | |
| 7,454.0 | 0.70 | 202.10 | 7,399.3 | -535.8 | -344.1 | 636.2 | 0.31 | 0.24 | 18.05 | |
| 7,536.0 | 0.70 | 167.10 | 7,481.2 | -536.7 | -344.1 | 637.0 | 0.51 | 0.00 | -42.68 | |
| 7,577.0 | 0.90 | 192.60 | 7,522.2 | -537.3 | -344.1 | 637.5 | 0.98 | 0.49 | 62.20 | |
| 7,628.0 | 1.00 | 200.00 | 7,573.2 | -538.1 | -344.4 | 638.3 | 0.31 | 0.20 | 14.51 | |

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| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|