



Ursa Operating Company, LLC

Rockies Region

Tompkins

Tompkins 42A-08-07-95

Wellbore #1

Design: Actual

End Of Well Report

29 August, 2016



| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Company: | Ursa Operating Company, LLC | Local Co-ordinate Reference: | Well Tompkins 42A-08-07-95 |
| Project: | Rockies Region | TVD Reference: | Tompkins 42A-08-07-95 @ 5549.0usft (Capstar 321) |
| Site: | Tompkins | MD Reference: | Tompkins 42A-08-07-95 @ 5549.0usft (Capstar 321) |
| Well: | Tompkins 42A-08-07-95 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Actual | Database: | MasterDB |

| Project | | Rockies Region | |
|-------------|---------------------------|----------------|----------------|
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

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|-----------------------|----------|-----------|------|------------------------|---------|
| Site | | Tompkins | | | |
| Site Position: | | Northing: | | 1,602,267.16 | usft |
| From: | Lat/Long | Easting: | | 2,290,225.27 | usft |
| Position Uncertainty: | | 0.0 | usft | Slot Radius: 13-3/16 " | |
| | | | | Grid Convergence: | -1.59 ° |

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|----------------------|-------|---|---------------------|-------------------|---------------|------------------|
| Well | | Tompkins 42A-08-07-95, SHL LAT: 39.459961800 LONG: -108.013872200 | | | | |
| Well Position | +N/-S | 0.0 usft | Northing: | 1,602,240.11 usft | Latitude: | 39° 27' 35.862 N |
| | +E/-W | 0.0 usft | Easting: | 2,290,311.43 usft | Longitude: | 108° 0' 49.940 W |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | 5,549.0 usft | Ground Level: | 5,532.0 usft |

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|-----------|-------------|-------------|-----------------|---------------|---------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 6/8/2016 | 9.81 | 65.57 | 51,625 |

| | | | | | |
|-------------------|-----|----------------------------|-----------------|-----------------|------------------|
| Design | | Actual | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | | 0.0 | 0.0 | 0.0 | 182.92 |

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| Survey Program | | Date | 8/29/2016 | | |
|----------------|-----------|--------------------------|-----------|----------------|--|
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 134.0 | 1,725.0 | Surface (Wellbore #1) | MWD | MWD - Standard | |
| 1,830.0 | 7,150.0 | Production (Wellbore #1) | MWD | MWD - Standard | |

| Survey | | | | | | | | | | |
|-----------|---------|-------------------|-------|------------|---------------|------------|------------|------------------|-------------------|------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | DLeg (°/100usft) | Build (°/100usft) | Turn (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 134.0 | 0.97 | 202.12 | 134.0 | 134.0 | 1.1 | -1.1 | -0.4 | 0.72 | 0.72 | 0.00 |
| 163.0 | 0.97 | 189.99 | 163.0 | 163.0 | 1.5 | -1.5 | -0.6 | 0.71 | 0.00 | -41.83 |
| 194.0 | 1.05 | 187.66 | 194.0 | 194.0 | 2.1 | -2.1 | -0.6 | 0.29 | 0.26 | -7.52 |
| 224.0 | 1.05 | 191.04 | 224.0 | 224.0 | 2.6 | -2.6 | -0.7 | 0.21 | 0.00 | 11.27 |
| 255.0 | 1.05 | 185.02 | 255.0 | 255.0 | 3.2 | -3.2 | -0.8 | 0.36 | 0.00 | -19.42 |
| 285.0 | 1.02 | 175.93 | 285.0 | 285.0 | 3.7 | -3.7 | -0.8 | 0.56 | -0.10 | -30.30 |
| 316.0 | 1.14 | 175.57 | 316.0 | 316.0 | 4.3 | -4.3 | -0.8 | 0.39 | 0.39 | -1.16 |
| 347.0 | 1.14 | 183.75 | 347.0 | 347.0 | 4.9 | -4.9 | -0.8 | 0.52 | 0.00 | 26.39 |
| 377.0 | 1.23 | 176.98 | 377.0 | 377.0 | 5.6 | -5.5 | -0.8 | 0.55 | 0.30 | -22.57 |
| 407.0 | 1.10 | 178.03 | 406.9 | 406.9 | 6.2 | -6.1 | -0.7 | 0.44 | -0.43 | 3.50 |
| 438.0 | 1.19 | 181.94 | 437.9 | 437.9 | 6.8 | -6.7 | -0.7 | 0.38 | 0.29 | 12.61 |
| 468.0 | 1.14 | 182.95 | 467.9 | 467.9 | 7.4 | -7.4 | -0.8 | 0.18 | -0.17 | 3.37 |
| 499.0 | 1.27 | 175.35 | 498.9 | 498.9 | 8.0 | -8.0 | -0.8 | 0.66 | 0.42 | -24.52 |
| 530.0 | 1.23 | 179.00 | 529.9 | 529.9 | 8.7 | -8.7 | -0.7 | 0.29 | -0.13 | 11.77 |
| 560.0 | 1.19 | 180.23 | 559.9 | 559.9 | 9.3 | -9.3 | -0.7 | 0.16 | -0.13 | 4.10 |
| 590.0 | 1.45 | 183.53 | 589.9 | 589.9 | 10.0 | -10.0 | -0.7 | 0.90 | 0.87 | 11.00 |
| 621.0 | 2.15 | 185.33 | 620.9 | 620.9 | 11.0 | -11.0 | -0.8 | 2.27 | 2.26 | 5.81 |
| 651.0 | 3.16 | 182.16 | 650.9 | 650.9 | 12.4 | -12.4 | -0.9 | 3.40 | 3.37 | -10.57 |
| 682.0 | 4.04 | 186.87 | 681.8 | 681.8 | 14.3 | -14.3 | -1.1 | 2.99 | 2.84 | 15.19 |
| 712.0 | 4.79 | 183.92 | 711.7 | 711.7 | 16.6 | -16.6 | -1.3 | 2.61 | 2.50 | -9.83 |

| | | | |
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| Site: | Tompkins | MD Reference: | Tompkins 42A-08-07-95 @ 5549.0usft (Capstar 321) |
| Well: | Tompkins 42A-08-07-95 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Actual | Database: | MasterDB |

| Survey | | | | | | | | | | | |
|-------------------------|------------|----------------------|--|---------------|------------------|---------------|---------------|---------------------|----------------------|---------------------|-------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | DLeg (°/100usft) | Build (°/100usft) | Turn (°/100usft) | |
| 743.0 | 5.71 | 182.82 | | 742.6 | 19.5 | -19.4 | | -1.4 | 2.99 | 2.97 | -3.55 |
| 774.0 | 6.39 | 183.43 | | 773.4 | 22.7 | -22.7 | | -1.6 | 2.20 | 2.19 | 1.97 |
| 804.0 | 7.26 | 185.91 | | 803.2 | 26.3 | -26.2 | | -1.9 | 3.06 | 2.90 | 8.27 |
| 835.0 | 8.09 | 184.58 | | 833.9 | 30.4 | -30.4 | | -2.3 | 2.74 | 2.68 | -4.29 |
| 878.0 | 9.62 | 183.88 | | 876.4 | 37.1 | -37.0 | | -2.8 | 3.57 | 3.56 | -1.63 |
| 920.0 | 10.68 | 182.25 | | 917.7 | 44.5 | -44.4 | | -3.2 | 2.61 | 2.52 | -3.88 |
| 963.0 | 12.26 | 183.92 | | 959.9 | 53.0 | -52.9 | | -3.6 | 3.75 | 3.67 | 3.88 |
| 1,006.0 | 13.67 | 184.01 | | 1,001.8 | 62.7 | -62.5 | | -4.3 | 3.28 | 3.28 | 0.21 |
| 1,049.0 | 15.29 | 184.58 | | 1,043.4 | 73.4 | -73.2 | | -5.1 | 3.78 | 3.77 | 1.33 |
| 1,091.0 | 16.94 | 184.08 | | 1,083.8 | 85.1 | -84.9 | | -6.0 | 3.94 | 3.93 | -1.19 |
| 1,134.0 | 18.50 | 182.38 | | 1,124.7 | 98.1 | -97.9 | | -6.7 | 3.82 | 3.63 | -3.95 |
| 1,177.0 | 19.51 | 180.85 | | 1,165.4 | 112.1 | -111.9 | | -7.1 | 2.62 | 2.35 | -3.56 |
| 1,220.0 | 20.89 | 181.61 | | 1,205.7 | 127.0 | -126.8 | | -7.4 | 3.27 | 3.21 | 1.77 |
| 1,262.0 | 21.80 | 183.04 | | 1,244.9 | 142.3 | -142.0 | | -8.1 | 2.50 | 2.17 | 3.40 |
| 1,305.0 | 22.59 | 183.74 | | 1,284.7 | 158.5 | -158.3 | | -9.0 | 1.94 | 1.84 | 1.63 |
| 1,348.0 | 23.21 | 183.30 | | 1,324.3 | 175.2 | -175.0 | | -10.1 | 1.50 | 1.44 | -1.02 |
| 1,390.0 | 24.30 | 183.35 | | 1,362.7 | 192.2 | -191.9 | | -11.0 | 2.60 | 2.60 | 0.12 |
| 1,433.0 | 24.52 | 182.52 | | 1,401.9 | 209.9 | -209.6 | | -11.9 | 0.95 | 0.51 | -1.93 |
| 1,476.0 | 24.65 | 182.30 | | 1,441.0 | 227.8 | -227.5 | | -12.7 | 0.37 | 0.30 | -0.51 |
| 1,519.0 | 24.83 | 181.68 | | 1,480.0 | 245.8 | -245.5 | | -13.3 | 0.73 | 0.42 | -1.44 |
| 1,561.0 | 24.61 | 180.23 | | 1,518.2 | 263.4 | -263.0 | | -13.6 | 1.54 | -0.52 | -3.45 |
| 1,604.0 | 25.09 | 180.41 | | 1,557.2 | 281.4 | -281.1 | | -13.7 | 1.13 | 1.12 | 0.42 |
| 1,647.0 | 25.84 | 183.92 | | 1,596.0 | 299.9 | -299.6 | | -14.4 | 3.92 | 1.74 | 8.16 |
| 1,725.0 | 26.32 | 183.66 | | 1,666.1 | 334.2 | -333.8 | | -16.7 | 0.63 | 0.62 | -0.33 |
| Last PZD Surface Survey | | | | | | | | | | | |
| 1,830.0 | 25.71 | 182.38 | | 1,760.4 | 380.2 | -379.8 | | -19.1 | 0.79 | -0.58 | -1.22 |
| 1,915.0 | 26.72 | 182.73 | | 1,836.7 | 417.8 | -417.3 | | -20.8 | 1.20 | 1.19 | 0.41 |

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| Survey | | | | | | | | | | |
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| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | DLeg (°/100usft) | Build (°/100usft) | Turn (°/100usft) | |
| 2,000.0 | 25.84 | 181.99 | 1,912.9 | 455.4 | -454.9 | -22.3 | 1.10 | -1.04 | -0.87 | |
| 2,086.0 | 25.95 | 182.60 | 1,990.3 | 493.0 | -492.4 | -23.8 | 0.34 | 0.13 | 0.71 | |
| 2,171.0 | 25.93 | 184.27 | 2,066.7 | 530.1 | -529.5 | -26.1 | 0.86 | -0.02 | 1.96 | |
| 2,257.0 | 26.85 | 184.71 | 2,143.8 | 568.4 | -567.6 | -29.1 | 1.09 | 1.07 | 0.51 | |
| 2,342.0 | 25.66 | 183.57 | 2,220.0 | 605.9 | -605.1 | -31.8 | 1.52 | -1.40 | -1.34 | |
| 2,427.0 | 26.28 | 182.87 | 2,296.4 | 643.2 | -642.3 | -33.9 | 0.81 | 0.73 | -0.82 | |
| 2,513.0 | 26.41 | 181.24 | 2,373.5 | 681.3 | -680.4 | -35.2 | 0.85 | 0.15 | -1.90 | |
| 2,598.0 | 25.62 | 180.45 | 2,449.9 | 718.6 | -717.7 | -35.8 | 1.01 | -0.93 | -0.93 | |
| 2,684.0 | 26.28 | 183.17 | 2,527.2 | 756.2 | -755.3 | -37.0 | 1.58 | 0.77 | 3.16 | |
| 2,769.0 | 25.75 | 182.25 | 2,603.6 | 793.5 | -792.5 | -38.8 | 0.78 | -0.62 | -1.08 | |
| 2,854.0 | 26.50 | 183.90 | 2,679.9 | 830.9 | -829.9 | -40.8 | 1.23 | 0.88 | 1.94 | |
| 2,940.0 | 26.76 | 184.14 | 2,756.8 | 869.4 | -868.4 | -43.5 | 0.33 | 0.30 | 0.28 | |
| 3,025.0 | 25.81 | 183.88 | 2,833.0 | 907.1 | -905.9 | -46.1 | 1.13 | -1.12 | -0.31 | |
| 3,111.0 | 26.32 | 183.13 | 2,910.2 | 944.9 | -943.6 | -48.4 | 0.71 | 0.59 | -0.87 | |
| 3,196.0 | 25.53 | 182.34 | 2,986.7 | 982.0 | -980.7 | -50.2 | 1.01 | -0.93 | -0.93 | |
| 3,281.0 | 26.32 | 183.31 | 3,063.1 | 1,019.2 | -1,017.9 | -52.0 | 1.05 | 0.93 | 1.14 | |
| 3,367.0 | 25.44 | 182.21 | 3,140.5 | 1,056.7 | -1,055.3 | -53.9 | 1.17 | -1.02 | -1.28 | |
| 3,452.0 | 26.16 | 182.00 | 3,217.0 | 1,093.7 | -1,092.3 | -55.2 | 0.85 | 0.85 | -0.25 | |
| 3,537.0 | 25.14 | 181.06 | 3,293.6 | 1,130.5 | -1,129.1 | -56.2 | 1.29 | -1.20 | -1.11 | |
| 3,623.0 | 25.49 | 183.44 | 3,371.4 | 1,167.3 | -1,165.8 | -57.6 | 1.25 | 0.41 | 2.77 | |
| 3,708.0 | 25.39 | 183.54 | 3,448.2 | 1,203.8 | -1,202.3 | -59.9 | 0.13 | -0.12 | 0.12 | |
| 3,794.0 | 25.88 | 183.92 | 3,525.7 | 1,241.0 | -1,239.4 | -62.3 | 0.60 | 0.57 | 0.44 | |
| 3,879.0 | 25.71 | 186.60 | 3,602.2 | 1,277.9 | -1,276.2 | -65.7 | 1.39 | -0.20 | 3.15 | |
| 3,965.0 | 24.96 | 185.85 | 3,679.9 | 1,314.7 | -1,312.8 | -69.7 | 0.95 | -0.87 | -0.87 | |
| 4,050.0 | 24.64 | 184.59 | 3,757.1 | 1,350.3 | -1,348.3 | -72.9 | 0.73 | -0.38 | -1.48 | |
| 4,135.0 | 22.59 | 184.76 | 3,835.0 | 1,384.3 | -1,382.2 | -75.7 | 2.41 | -2.41 | 0.20 | |
| 4,221.0 | 20.03 | 185.85 | 3,915.1 | 1,415.5 | -1,413.4 | -78.6 | 3.01 | -2.98 | 1.27 | |

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| Survey | | | | | | | | | | |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|---------------------|----------------------|---------------------|--|
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| 4,306.0 | 17.97 | 183.70 | 3,995.5 | 1,443.2 | -1,440.9 | -80.9 | 2.56 | -2.42 | -2.53 | |
| 4,392.0 | 15.82 | 182.38 | 4,077.7 | 1,468.2 | -1,465.9 | -82.2 | 2.54 | -2.50 | -1.53 | |
| 4,477.0 | 14.85 | 180.89 | 4,159.7 | 1,490.6 | -1,488.4 | -82.9 | 1.23 | -1.14 | -1.75 | |
| 4,563.0 | 12.61 | 179.00 | 4,243.3 | 1,511.0 | -1,508.8 | -82.9 | 2.66 | -2.60 | -2.20 | |
| 4,648.0 | 10.50 | 180.76 | 4,326.5 | 1,528.0 | -1,525.8 | -82.8 | 2.52 | -2.48 | 2.07 | |
| 4,733.0 | 7.82 | 177.11 | 4,410.4 | 1,541.5 | -1,539.3 | -82.6 | 3.22 | -3.15 | -4.29 | |
| 4,819.0 | 4.70 | 181.68 | 4,495.9 | 1,550.9 | -1,548.7 | -82.5 | 3.67 | -3.63 | 5.31 | |
| 4,904.0 | 2.02 | 184.23 | 4,580.8 | 1,555.8 | -1,553.7 | -82.7 | 3.16 | -3.15 | 3.00 | |
| 4,989.0 | 1.41 | 198.20 | 4,665.7 | 1,558.4 | -1,556.1 | -83.1 | 0.86 | -0.72 | 16.44 | |
| 5,075.0 | 1.27 | 195.61 | 4,751.7 | 1,560.3 | -1,558.1 | -83.7 | 0.18 | -0.16 | -3.01 | |
| 5,160.0 | 1.19 | 193.11 | 4,836.7 | 1,562.1 | -1,559.8 | -84.1 | 0.11 | -0.09 | -2.94 | |
| 5,245.0 | 1.27 | 185.11 | 4,921.7 | 1,563.9 | -1,561.6 | -84.4 | 0.22 | 0.09 | -9.41 | |
| 5,330.0 | 1.14 | 173.02 | 5,006.6 | 1,565.7 | -1,563.4 | -84.4 | 0.34 | -0.15 | -14.22 | |
| 5,416.0 | 0.92 | 60.83 | 5,092.6 | 1,566.2 | -1,563.9 | -83.7 | 1.99 | -0.26 | -130.45 | |
| 5,501.0 | 0.66 | 43.60 | 5,177.6 | 1,565.4 | -1,563.2 | -82.8 | 0.41 | -0.31 | -20.27 | |
| 5,586.0 | 0.18 | 29.45 | 5,262.6 | 1,564.9 | -1,562.8 | -82.4 | 0.57 | -0.56 | -16.65 | |
| 5,672.0 | 0.31 | 233.01 | 5,348.6 | 1,565.0 | -1,562.8 | -82.5 | 0.56 | 0.15 | -181.91 | |
| 5,757.0 | 0.47 | 248.65 | 5,433.6 | 1,565.2 | -1,563.0 | -83.0 | 0.22 | 0.19 | 18.40 | |
| 5,842.0 | 0.57 | 236.17 | 5,518.6 | 1,565.6 | -1,563.4 | -83.7 | 0.18 | 0.12 | -14.68 | |
| 5,927.0 | 0.42 | 221.08 | 5,603.6 | 1,566.1 | -1,563.9 | -84.2 | 0.23 | -0.18 | -17.75 | |
| 6,013.0 | 0.42 | 231.90 | 5,689.6 | 1,566.6 | -1,564.3 | -84.7 | 0.09 | 0.00 | 12.58 | |
| 6,098.0 | 0.57 | 238.02 | 5,774.6 | 1,567.0 | -1,564.7 | -85.3 | 0.19 | 0.18 | 7.20 | |
| 6,183.0 | 0.69 | 251.51 | 5,859.6 | 1,567.5 | -1,565.1 | -86.1 | 0.22 | 0.14 | 15.87 | |
| 6,269.0 | 0.79 | 239.12 | 5,945.6 | 1,568.0 | -1,565.6 | -87.1 | 0.22 | 0.12 | -14.41 | |
| 6,354.0 | 1.14 | 223.43 | 6,030.6 | 1,569.0 | -1,566.5 | -88.2 | 0.51 | 0.41 | -18.46 | |
| 6,439.0 | 0.54 | 304.10 | 6,115.6 | 1,569.4 | -1,566.9 | -89.1 | 1.39 | -0.71 | 94.91 | |
| 6,525.0 | 0.68 | 284.73 | 6,201.6 | 1,569.1 | -1,566.5 | -90.0 | 0.29 | 0.16 | -22.52 | |

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| Survey | | | | | | | | | |
|--------------------------------|------------|----------------------|---------------|------------------|---------------|---------------|---------------------|----------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | DLeg (°/100usft) | Build (°/100usft) | Turn (°/100usft) |
| 6,610.0 | 1.02 | 278.51 | 6,286.6 | 1,568.9 | -1,566.3 | -91.2 | 0.41 | 0.40 | -7.32 |
| 6,696.0 | 0.97 | 298.53 | 6,372.6 | 1,568.5 | -1,565.8 | -92.6 | 0.41 | -0.06 | 23.28 |
| 6,781.0 | 0.97 | 297.15 | 6,457.5 | 1,567.9 | -1,565.2 | -93.9 | 0.03 | 0.00 | -1.62 |
| 6,866.0 | 1.01 | 292.07 | 6,542.5 | 1,567.4 | -1,564.5 | -95.2 | 0.11 | 0.05 | -5.98 |
| 6,952.0 | 0.91 | 300.14 | 6,628.5 | 1,566.8 | -1,563.9 | -96.5 | 0.20 | -0.12 | 9.38 |
| 7,037.0 | 0.83 | 277.48 | 6,713.5 | 1,566.4 | -1,563.5 | -97.7 | 0.41 | -0.09 | -26.66 |
| 7,095.0 | 0.88 | 282.45 | 6,771.5 | 1,566.3 | -1,563.4 | -98.5 | 0.15 | 0.09 | 8.57 |
| Last PZD Survey | | | | | | | | | |
| 7,150.0 | 0.88 | 282.45 | 6,826.5 | 1,566.2 | -1,563.2 | -99.4 | 0.00 | 0.00 | 0.00 |
| Straight Line Projection to TD | | | | | | | | | |

| Design Annotations | | | | | |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment | |
| | | +N/-S (usft) | +E/-W (usft) | | |
| 1,725.0 | 1,666.1 | -333.8 | -16.7 | Last PZD Surface Survey | |

Checked By: _____ Approved By: _____ Date: _____



Ursa OPERATING
COMPANY

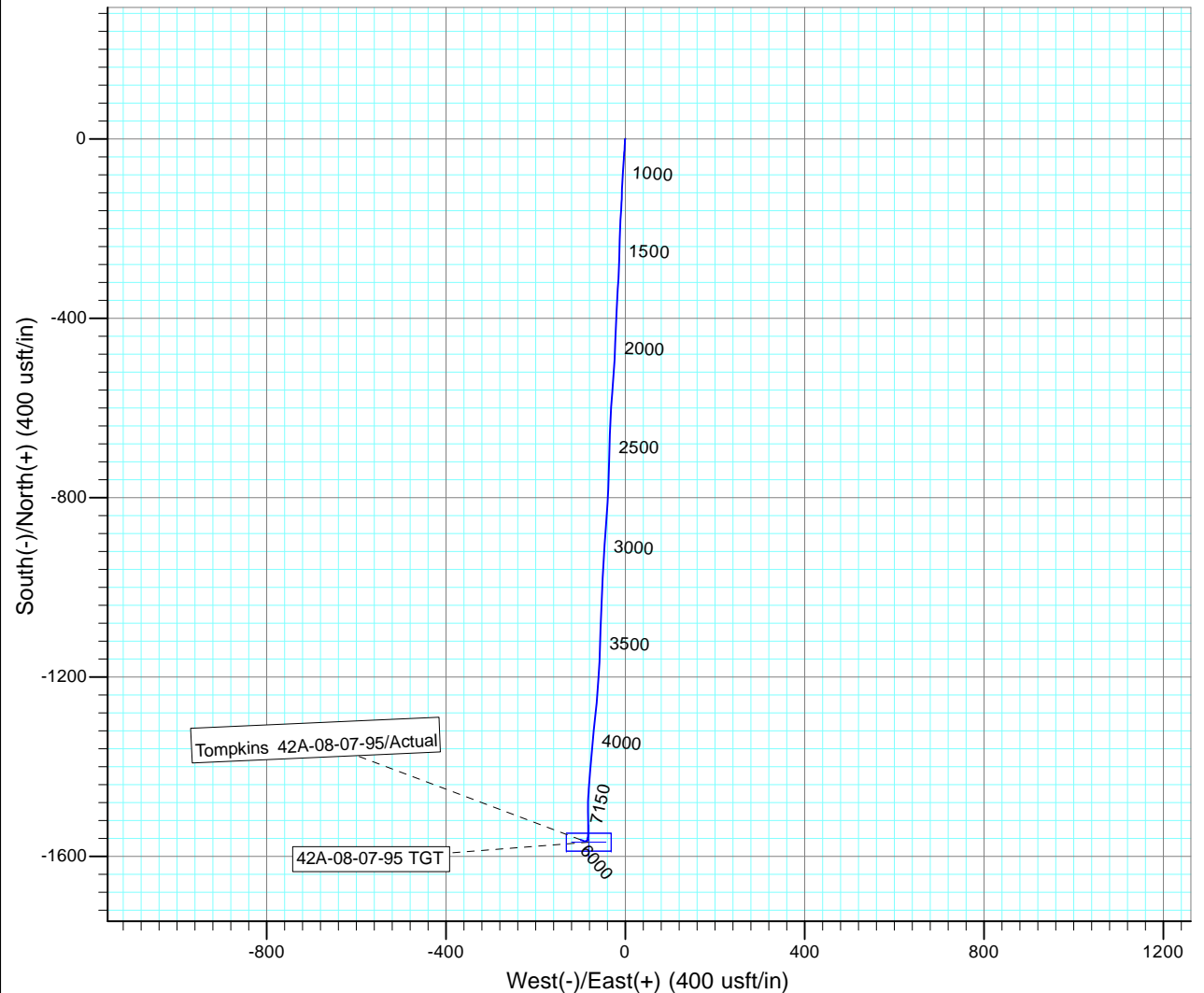
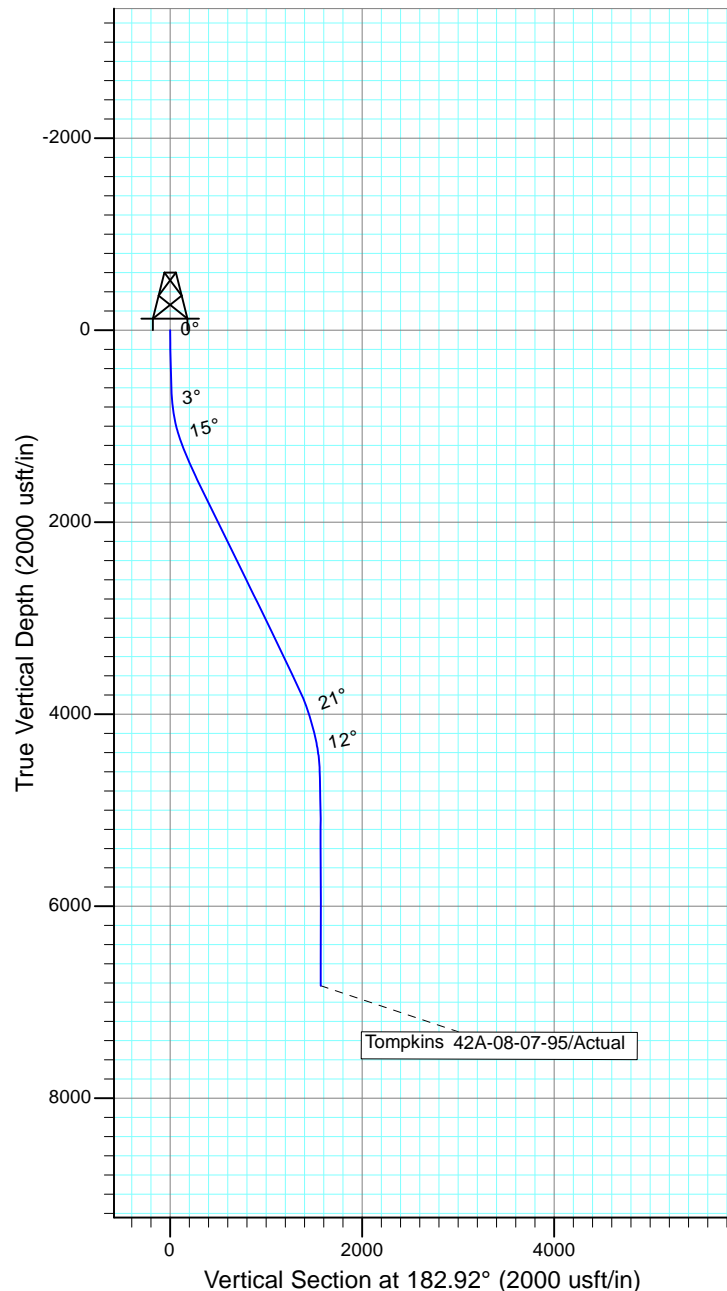
Project: Rockies Region
Site: Tompkins
Well: Tompkins 42A-08-07-95
Wellbore: Wellbore #1
SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North
Magnetic North: 9.81°

Magnetic Field
Strength: 51624.6snT
Dip Angle: 65.57°
Date: 6/8/2016
Model: IGRF2015



Design: Actual (Tompkins 42A-08-07-95/Wellbore #1)

Created By: Sarah Webb-Hudson Date: 21:49, August 29 2016
*THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS
SUPPORTED BY ACTUAL FIELD DATA.*