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|---|---|
| <b>Company:</b> Tug Hill Operating LLC        | <b>Local Co-ordinate Reference:</b> Well Corley N-06HM (slot G) |
| <b>Project:</b> Marshall County West Virginia | <b>TVD Reference:</b> RKB=1254+28 @ 1282.00usft (Precision 110) |
| <b>Site:</b> Corley Pad                       | <b>MD Reference:</b> RKB=1254+28 @ 1282.00usft (Precision 110)  |
| <b>Well:</b> Corley N-06HM (slot G)           | <b>North Reference:</b> Grid                                    |
| <b>Wellbore:</b> Original Hole                | <b>Survey Calculation Method:</b> Minimum Curvature             |
| <b>Design:</b> Sureys Original Hole           | <b>Database:</b> DB_Jul2216dt_v14                               |

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|---|
| <b>Project</b> Marshall County, West Virginia   |
| <b>Map System:</b> Universal Transverse Mercator (US Survey Feet) <b>System Datum:</b> Mean Sea Level |
| <b>Geo Datum:</b> NAD83 West Virginia - HARN  |
| <b>Map Zone:</b> Zone 17N (54° E to 78° W)  |

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| <b>Site</b> Corley Pad   |
| <b>Site Position:</b> <b>Northing:</b> 14,436,832.02 usft <b>Latitude:</b> 39.75286638               |
| <b>From:</b> Lat/Long <b>Easting:</b> 1,706,973.98 usft <b>Longitude:</b> -80.76319015               |
| <b>Position Uncertainty:</b> 0.00 usft <b>Slot Radius:</b> 13-3/16 " <b>Grid Convergence:</b> 0.15 ° |

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| <b>Well</b> Corley N-06HM (slot G)   |
| <b>Well Position</b> <b>+N/-S</b> 0.00 usft <b>Northing:</b> 14,436,870.05 usft <b>Latitude:</b> 39.75297084 |
| <b>+E/-W</b> 0.00 usft <b>Easting:</b> 1,706,970.31 usft <b>Longitude:</b> -80.76320287                      |
| <b>Position Uncertainty</b> 0.00 usft <b>Wellhead Elevation:</b> usft <b>Ground Level:</b> 1,254.00 usft     |

|                               |
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| <b>Wellbore</b> Original Hole |
|-------------------------------|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | GEF2015    | 6/26/2018   | -8.67           | 66.85         | 52,044.36649955     |

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|---|
| <b>Design</b> Sureys Original Hole  |
| <b>Audit Notes:</b>   |
| <b>Version:</b> 1.0 <b>Phase:</b> ACTUAL <b>Tie On Depth:</b> 0.00                          |
| <b>Vertical Section:</b>  |
| <b>Depth From (TVD) (usft)</b> <b>+N/-S (usft)</b> <b>+E/-W (usft)</b> <b>Direction (°)</b> |
| 0.00      0.00      0.00      325.47  |

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| <b>Survey Program</b> <b>Date</b> 7/9/2018   |
| <b>From (usft)</b> <b>To (usft)</b> <b>Survey (Wellbore)</b> <b>Tool Name</b> <b>Description</b> |
| 300.00      14,265.00      MWD (Original Hole)      MWD      MWD - Standard                      |
| 14,316.00      14,316.00      Projection (Original Hole)      MWD      MWD - Standard            |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude    | Longitude    |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-------------|--------------|
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 14,436,870.05       | 1,706,970.31       | 39.75297084 | -80.76320287 |
| 300.00                | 0.08            | 291.21      | 300.00                | -0.08        | -0.19        | 14,436,869.97       | 1,706,970.11       | 39.75297062 | -80.76320356 |
| <b>MWD surveys</b>    |                 |             |                       |              |              |                     |                    |             |              |
| 340.00                | 0.09            | 290.51      | 340.00                | -0.10        | -0.25        | 14,436,869.94       | 1,706,970.06       | 39.75297056 | -80.76320376 |
| 436.00                | 0.14            | 288.43      | 436.00                | -0.24        | -0.32        | 14,436,869.80       | 1,706,969.99       | 39.75297017 | -80.76320400 |
| 532.00                | 0.22            | 284.59      | 532.00                | -0.51        | -0.42        | 14,436,869.53       | 1,706,969.89       | 39.75296943 | -80.76320436 |
| 627.00                | 0.23            | 281.94      | 627.00                | -0.70        | -0.33        | 14,436,869.35       | 1,706,969.97       | 39.75296893 | -80.76320406 |
| 723.00                | 0.14            | 280.60      | 723.00                | -0.85        | -0.14        | 14,436,869.20       | 1,706,970.16       | 39.75296852 | -80.76320339 |
| 818.00                | 0.29            | 283.13      | 818.00                | -0.85        | 0.07         | 14,436,869.19       | 1,706,970.38       | 39.75296849 | -80.76320262 |
| 912.00                | 0.31            | 280.85      | 912.00                | -0.75        | 0.54         | 14,436,869.30       | 1,706,970.85       | 39.75296878 | -80.76320096 |
| 995.00                | 0.21            | 286.55      | 995.00                | -0.91        | 0.77         | 14,436,869.14       | 1,706,971.08       | 39.75296835 | -80.76320013 |



Survey Report - Geographic



|                  |                                |                                     |   |
|------------------|--------------------------------|-------------------------------------|---|
| <b>Company:</b>  | Tug Hill Operating, LLC        | <b>Local Co-ordinate Reference:</b> | Well Corley N-06HM (slot G)               |
| <b>Project:</b>  | Marshall County, West Virginia | <b>TVD Reference:</b>               | RKB=1254+28 @ 1282.00usft (Precision 110) |
| <b>Site:</b>     | Corley Pad                     | <b>MD Reference:</b>                | RKB=1254+28 @ 1282.00usft (Precision 110) |
| <b>Well:</b>     | Corley N-06HM (slot G)         | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Hole                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | Sureys Original Hole           | <b>Database:</b>                    | DB_Jul2216dt_v14                          |

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| Survey                |                 |             |                       |              |              |                     |                    |             |              |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-------------|--------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude    | Longitude    |  |
| 1,055.00              | 0.35            | 122.71      | 1,055.00              | -1.19        | 0.84         | 14,436,868.86       | 1,706,971.15       | 39.75296757 | -80.76319988 |  |
| 1,100.00              | 0.33            | 122.80      | 1,099.99              | -1.43        | 0.95         | 14,436,868.61       | 1,706,971.25       | 39.75296690 | -80.76319952 |  |
| 1,189.00              | 0.45            | 122.18      | 1,188.99              | -2.00        | 1.16         | 14,436,868.05       | 1,706,971.46       | 39.75296534 | -80.76319878 |  |
| 1,279.00              | 0.47            | 122.88      | 1,278.99              | -2.71        | 1.25         | 14,436,867.34       | 1,706,971.55       | 39.75296340 | -80.76319846 |  |
| 1,368.00              | 0.54            | 122.27      | 1,367.99              | -3.48        | 1.33         | 14,436,866.57       | 1,706,971.64       | 39.75296127 | -80.76319816 |  |
| 1,458.00              | 0.82            | 122.73      | 1,457.98              | -4.53        | 1.35         | 14,436,865.52       | 1,706,971.66       | 39.75295839 | -80.76319812 |  |
| 1,548.00              | 0.29            | 122.30      | 1,547.98              | -5.36        | 1.38         | 14,436,864.68       | 1,706,971.68       | 39.75295610 | -80.76319802 |  |
| 1,637.00              | 0.59            | 122.33      | 1,636.97              | -5.21        | 1.79         | 14,436,864.64       | 1,706,972.10       | 39.75295652 | -80.76319656 |  |
| 1,727.00              | 1.62            | 122.19      | 1,726.96              | -3.64        | 1.72         | 14,436,866.41       | 1,706,972.03       | 39.75296084 | -80.76319678 |  |
| 1,817.00              | 4.02            | 122.93      | 1,816.84              | 0.16         | -0.46        | 14,436,870.21       | 1,706,969.85       | 39.75297129 | -80.76320451 |  |
| 1,906.00              | 6.25            | 122.69      | 1,905.48              | 6.12         | -5.70        | 14,436,876.17       | 1,706,964.61       | 39.75298770 | -80.76322308 |  |
| 1,996.00              | 8.77            | 122.04      | 1,994.71              | 13.80        | -14.59       | 14,436,883.85       | 1,706,955.72       | 39.75300884 | -80.76325464 |  |
| 2,086.00              | 9.49            | 122.26      | 2,083.57              | 21.99        | -26.26       | 14,436,892.03       | 1,706,944.04       | 39.75303142 | -80.76329611 |  |
| 2,175.00              | 10.32           | 122.22      | 2,171.24              | 29.43        | -39.62       | 14,436,899.47       | 1,706,930.69       | 39.75305194 | -80.76334356 |  |
| 2,265.00              | 11.36           | 122.55      | 2,259.64              | 36.10        | -55.15       | 14,436,906.15       | 1,706,915.15       | 39.75307038 | -80.76339876 |  |
| 2,355.00              | 10.96           | 122.13      | 2,347.94              | 41.73        | -71.63       | 14,436,911.78       | 1,706,898.68       | 39.75308597 | -80.76345733 |  |
| 2,444.00              | 11.79           | 122.96      | 2,435.19              | 46.88        | -88.41       | 14,436,916.92       | 1,706,881.90       | 39.75310022 | -80.76351700 |  |
| 2,534.00              | 12.84           | 122.52      | 2,523.12              | 53.06        | -106.57      | 14,436,923.11       | 1,706,863.73       | 39.75311734 | -80.76358155 |  |
| 2,584.00              | 12.86           | 122.66      | 2,571.86              | 57.06        | -116.95      | 14,436,927.11       | 1,706,853.36       | 39.75312840 | -80.76361843 |  |
| 2,671.00              | 12.46           | 122.92      | 2,656.75              | 63.99        | -134.71      | 14,436,934.04       | 1,706,835.60       | 39.75314755 | -80.76368157 |  |
| 2,703.00              | 12.39           | 122.06      | 2,688.00              | 66.34        | -141.18      | 14,436,936.39       | 1,706,829.13       | 39.75315406 | -80.76370457 |  |
| 2,793.00              | 14.77           | 122.47      | 2,775.50              | 75.49        | -160.10      | 14,436,945.54       | 1,706,810.21       | 39.75317931 | -80.76377179 |  |
| 2,882.00              | 15.79           | 122.75      | 2,861.35              | 87.05        | -180.49      | 14,436,957.10       | 1,706,789.81       | 39.75321121 | -80.76384424 |  |
| 2,972.00              | 16.49           | 122.38      | 2,947.80              | 98.02        | -202.96      | 14,436,968.07       | 1,706,767.34       | 39.75324151 | -80.76392409 |  |
| 3,061.00              | 15.95           | 122.35      | 3,033.27              | 107.29       | -226.01      | 14,436,977.34       | 1,706,744.30       | 39.75326713 | -80.76400600 |  |
| 3,151.00              | 16.54           | 122.49      | 3,119.67              | 116.29       | -249.51      | 14,436,986.34       | 1,706,720.79       | 39.75329201 | -80.76408954 |  |
| 3,241.00              | 15.93           | 122.54      | 3,206.08              | 126.12       | -272.67      | 14,436,996.17       | 1,706,697.63       | 39.75331918 | -80.76417185 |  |
| 3,330.00              | 15.08           | 122.17      | 3,291.85              | 135.56       | -294.51      | 14,437,005.60       | 1,706,675.79       | 39.75334525 | -80.76424947 |  |
| 3,420.00              | 16.38           | 122.00      | 3,378.47              | 144.92       | -317.04      | 14,437,014.96       | 1,706,653.26       | 39.75337112 | -80.76432955 |  |
| 3,510.00              | 15.95           | 122.94      | 3,464.92              | 153.89       | -340.44      | 14,437,023.93       | 1,706,629.87       | 39.75339592 | -80.76441269 |  |
| 3,600.00              | 16.46           | 122.52      | 3,551.34              | 162.78       | -363.92      | 14,437,032.83       | 1,706,606.39       | 39.75342052 | -80.76449617 |  |
| 3,689.00              | 15.95           | 122.90      | 3,636.80              | 171.77       | -387.08      | 14,437,041.82       | 1,706,583.23       | 39.75344537 | -80.76457847 |  |
| 3,779.00              | 14.88           | 122.89      | 3,723.56              | 180.49       | -409.35      | 14,437,050.54       | 1,706,560.96       | 39.75346948 | -80.76465764 |  |
| 3,869.00              | 15.85           | 122.37      | 3,810.35              | 189.28       | -431.52      | 14,437,059.32       | 1,706,538.79       | 39.75349377 | -80.76473644 |  |
| 3,958.00              | 15.52           | 122.34      | 3,896.03              | 197.65       | -454.07      | 14,437,067.70       | 1,706,516.23       | 39.75351693 | -80.76481660 |  |
| 4,048.00              | 15.87           | 122.78      | 3,982.68              | 206.99       | -476.52      | 14,437,077.04       | 1,706,493.79       | 39.75354274 | -80.76489637 |  |
| 4,138.00              | 15.04           | 122.48      | 4,069.43              | 217.36       | -498.14      | 14,437,087.41       | 1,706,472.17       | 39.75357139 | -80.76497321 |  |
| 4,228.00              | 16.14           | 122.49      | 4,156.12              | 228.16       | -519.78      | 14,437,098.21       | 1,706,450.53       | 39.75360120 | -80.76505010 |  |
| 4,317.00              | 15.54           | 122.13      | 4,241.74              | 239.31       | -541.36      | 14,437,109.36       | 1,706,428.94       | 39.75363197 | -80.76512679 |  |
| 4,407.00              | 16.62           | 122.05      | 4,328.21              | 250.86       | -563.45      | 14,437,120.91       | 1,706,406.85       | 39.75366385 | -80.76520528 |  |
| 4,497.00              | 17.99           | 122.24      | 4,414.14              | 262.62       | -587.49      | 14,437,132.67       | 1,706,382.82       | 39.75369631 | -80.76529068 |  |
| 4,586.00              | 16.79           | 122.83      | 4,499.07              | 272.83       | -612.04      | 14,437,142.88       | 1,706,358.27       | 39.75372454 | -80.76537793 |  |
| 4,678.00              | 15.86           | 122.52      | 4,587.36              | 281.97       | -636.23      | 14,437,152.01       | 1,706,334.08       | 39.75374980 | -80.76546392 |  |
| 4,768.00              | 16.68           | 122.69      | 4,673.76              | 291.67       | -659.48      | 14,437,161.72       | 1,706,310.82       | 39.75377662 | -80.76554657 |  |
| 4,858.00              | 16.50           | 122.91      | 4,760.02              | 302.45       | -682.81      | 14,437,172.50       | 1,706,287.50       | 39.75380639 | -80.76562947 |  |
| 4,948.00              | 15.77           | 122.40      | 4,846.47              | 313.08       | -705.45      | 14,437,183.13       | 1,706,264.86       | 39.75383574 | -80.76570992 |  |
| 5,037.00              | 14.95           | 122.79      | 4,932.29              | 322.90       | -726.88      | 14,437,192.95       | 1,706,243.43       | 39.75386286 | -80.76578608 |  |
| 5,127.00              | 16.04           | 122.46      | 5,019.02              | 332.53       | -748.91      | 14,437,202.58       | 1,706,221.40       | 39.75388947 | -80.76586437 |  |
| 5,217.00              | 16.25           | 122.58      | 5,105.47              | 341.70       | -772.18      | 14,437,211.75       | 1,706,198.13       | 39.75391482 | -80.76594708 |  |
| 5,307.00              | 16.15           | 122.49      | 5,191.90              | 350.30       | -795.77      | 14,437,220.35       | 1,706,174.54       | 39.75393862 | -80.76603093 |  |
| 5,396.00              | 15.64           | 122.96      | 5,277.50              | 358.14       | -818.84      | 14,437,228.18       | 1,706,151.47       | 39.75396029 | -80.76611294 |  |
| 5,486.00              | 14.83           | 122.42      | 5,364.33              | 365.69       | -841.24      | 14,437,235.74       | 1,706,129.07       | 39.75398121 | -80.76619257 |  |
| 5,576.00              | 14.35           | 122.02      | 5,451.43              | 373.53       | -862.51      | 14,437,243.58       | 1,706,107.80       | 39.75400288 | -80.76626819 |  |
| 5,666.00              | 13.59           | 122.79      | 5,538.77              | 380.75       | -883.00      | 14,437,250.80       | 1,706,087.31       | 39.75402287 | -80.76634102 |  |
| 5,755.00              | 13.84           | 122.14      | 5,625.25              | 389.47       | -902.11      | 14,437,259.52       | 1,706,068.20       | 39.75404694 | -80.76640893 |  |

WV Department of Environmental Protection



Survey Report - Geographic



|                  |                               |                                     |   |
|------------------|-------------------------------|-------------------------------------|---|
| <b>Company:</b>  | Tug Hill Operating, LLC       | <b>Local Co-ordinate Reference:</b> | Well Corley N-06HM (slot G)               |
| <b>Project:</b>  | Marshall County West Virginia | <b>TVD Reference:</b>               | RKB=1254+28 @ 1282.00usft (Precision 110) |
| <b>Site:</b>     | Corley Pad                    | <b>MD Reference:</b>                | RKB=1254+28 @ 1282.00usft (Precision 110) |
| <b>Well:</b>     | Corley N-06HM (slot G)        | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Hole                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | Sureys Original               | <b>Database:</b>                    | DB_Jul2216dt_v14                          |

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| Survey                |                 |             |                       |              |              |                     |                    |             |              |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-------------|--------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude    | Longitude    |
| 5,845.00              | 15.08           | 299.07      | 5,712.40              | 400.56       | -921.65      | 14,437,270.61       | 1,706,048.66       | 39.75407754 | -80.76647836 |
| 5,935.00              | 15.63           | 299.62      | 5,799.18              | 412.43       | -942.32      | 14,437,282.47       | 1,706,027.99       | 39.75411027 | -80.76655178 |
| 6,024.00              | 17.91           | 299.71      | 5,884.39              | 425.32       | -964.53      | 14,437,295.36       | 1,706,005.78       | 39.75414583 | -80.76663067 |
| 6,078.00              | 18.70           | 299.00      | 5,935.66              | 433.63       | -979.31      | 14,437,303.68       | 1,705,991.00       | 39.75416877 | -80.76668320 |
| 6,168.00              | 19.82           | 299.48      | 6,020.63              | 449.04       | -1,004.66    | 14,437,319.09       | 1,705,965.65       | 39.75421128 | -80.76677324 |
| 6,257.00              | 25.23           | 299.04      | 6,102.85              | 471.05       | -1,030.44    | 14,437,341.10       | 1,705,939.87       | 39.75427190 | -80.76686478 |
| 6,347.00              | 30.29           | 299.90      | 6,182.49              | 502.99       | -1,057.47    | 14,437,373.03       | 1,705,912.84       | 39.75435980 | -80.76696066 |
| 6,437.00              | 39.30           | 299.54      | 6,256.33              | 544.68       | -1,087.35    | 14,437,414.73       | 1,705,882.95       | 39.75447452 | -80.76706660 |
| 6,526.00              | 43.87           | 299.80      | 6,322.88              | 593.45       | -1,120.65    | 14,437,463.50       | 1,705,849.65       | 39.75460870 | -80.76718463 |
| 6,616.00              | 48.40           | 299.27      | 6,385.23              | 646.93       | -1,157.37    | 14,437,516.98       | 1,705,812.93       | 39.75475582 | -80.76731478 |
| 6,705.00              | 53.27           | 299.45      | 6,441.42              | 703.69       | -1,196.58    | 14,437,573.73       | 1,705,773.73       | 39.75491197 | -80.76745377 |
| 6,795.00              | 58.73           | 299.94      | 6,491.73              | 765.68       | -1,238.05    | 14,437,635.72       | 1,705,732.26       | 39.75508251 | -80.76760074 |
| 6,885.00              | 66.99           | 299.05      | 6,532.75              | 833.56       | -1,280.41    | 14,437,703.61       | 1,705,689.90       | 39.75526924 | -80.76775084 |
| 6,974.00              | 73.71           | 299.11      | 6,562.66              | 905.80       | -1,322.81    | 14,437,775.85       | 1,705,647.50       | 39.75546794 | -80.76790104 |
| 7,064.00              | 78.11           | 299.37      | 6,584.57              | 981.56       | -1,366.13    | 14,437,851.61       | 1,705,604.18       | 39.75567631 | -80.76805447 |
| 7,154.00              | 81.93           | 299.37      | 6,600.16              | 1,058.60     | -1,409.94    | 14,437,928.64       | 1,705,560.36       | 39.75588818 | -80.76820965 |
| 7,244.00              | 89.10           | 299.99      | 6,607.20              | 1,136.78     | -1,453.85    | 14,438,006.82       | 1,705,516.46       | 39.75610320 | -80.76836516 |
| 7,333.00              | 91.38           | 299.55      | 6,606.82              | 1,214.44     | -1,497.31    | 14,438,084.49       | 1,705,473.00       | 39.75631678 | -80.76851907 |
| 7,422.00              | 89.58           | 299.44      | 6,606.08              | 1,291.11     | -1,542.48    | 14,438,161.16       | 1,705,427.83       | 39.75652767 | -80.76867909 |
| 7,512.00              | 90.81           | 299.08      | 6,605.77              | 1,367.65     | -1,589.82    | 14,438,237.69       | 1,705,380.48       | 39.75673820 | -80.76884685 |
| 7,602.00              | 88.57           | 299.29      | 6,606.26              | 1,443.70     | -1,637.93    | 14,438,313.75       | 1,705,332.38       | 39.75694740 | -80.76901732 |
| 7,691.00              | 89.36           | 299.56      | 6,607.87              | 1,518.69     | -1,685.84    | 14,438,388.74       | 1,705,284.47       | 39.75715368 | -80.76918710 |
| 7,781.00              | 90.33           | 299.12      | 6,608.11              | 1,594.46     | -1,734.41    | 14,438,464.50       | 1,705,235.90       | 39.75736210 | -80.76935922 |
| 7,871.00              | 89.14           | 299.35      | 6,608.53              | 1,670.56     | -1,782.45    | 14,438,540.60       | 1,705,187.86       | 39.75757143 | -80.76952947 |
| 7,960.00              | 88.57           | 299.93      | 6,610.31              | 1,746.94     | -1,828.09    | 14,438,616.98       | 1,705,142.22       | 39.75778152 | -80.76969117 |
| 8,050.00              | 89.71           | 299.75      | 6,611.66              | 1,824.74     | -1,873.30    | 14,438,694.79       | 1,705,097.00       | 39.75799552 | -80.76985134 |
| 8,139.00              | 89.19           | 299.99      | 6,612.51              | 1,902.10     | -1,917.30    | 14,438,772.15       | 1,705,053.01       | 39.75820827 | -80.77000718 |
| 8,229.00              | 90.33           | 299.28      | 6,612.89              | 1,980.53     | -1,961.43    | 14,438,850.58       | 1,705,008.87       | 39.75842398 | -80.77016350 |
| 8,318.00              | 91.74           | 299.93      | 6,611.28              | 2,057.68     | -2,005.78    | 14,438,927.72       | 1,704,964.52       | 39.75863615 | -80.77032061 |
| 8,408.00              | 91.30           | 299.69      | 6,608.89              | 2,136.22     | -2,049.66    | 14,439,006.26       | 1,704,920.65       | 39.75885215 | -80.77047601 |
| 8,498.00              | 90.55           | 299.95      | 6,607.44              | 2,215.54     | -2,092.16    | 14,439,085.59       | 1,704,878.15       | 39.75907029 | -80.77062650 |
| 8,587.00              | 89.98           | 299.60      | 6,607.03              | 2,293.95     | -2,134.25    | 14,439,164.00       | 1,704,836.06       | 39.75928594 | -80.77077556 |
| 8,677.00              | 90.77           | 299.02      | 6,606.44              | 2,372.52     | -2,178.14    | 14,439,242.57       | 1,704,792.17       | 39.75950201 | -80.77093102 |
| 8,766.00              | 90.29           | 299.16      | 6,605.62              | 2,450.05     | -2,221.84    | 14,439,320.09       | 1,704,748.47       | 39.75971523 | -80.77108582 |
| 8,856.00              | 88.70           | 299.78      | 6,606.41              | 2,529.11     | -2,264.82    | 14,439,399.16       | 1,704,705.49       | 39.75993267 | -80.77123804 |
| 8,946.00              | 89.23           | 299.69      | 6,608.03              | 2,608.37     | -2,307.43    | 14,439,478.41       | 1,704,662.87       | 39.76015062 | -80.77138895 |
| 9,035.00              | 91.12           | 299.86      | 6,607.76              | 2,686.78     | -2,349.52    | 14,439,556.83       | 1,704,620.78       | 39.76036626 | -80.77153801 |
| 9,125.00              | 89.58           | 299.95      | 6,607.21              | 2,766.17     | -2,391.91    | 14,439,636.22       | 1,704,578.40       | 39.76058459 | -80.77168810 |
| 9,214.00              | 89.85           | 299.42      | 6,607.66              | 2,844.52     | -2,434.12    | 14,439,714.57       | 1,704,536.19       | 39.76080006 | -80.77183760 |
| 9,304.00              | 89.36           | 299.07      | 6,608.28              | 2,923.42     | -2,477.41    | 14,439,793.47       | 1,704,492.89       | 39.76101704 | -80.77199094 |
| 9,394.00              | 88.75           | 299.40      | 6,609.76              | 3,001.53     | -2,522.09    | 14,439,871.58       | 1,704,448.22       | 39.76123187 | -80.77214919 |
| 9,483.00              | 90.07           | 299.05      | 6,610.68              | 3,078.00     | -2,567.62    | 14,439,948.04       | 1,704,402.69       | 39.76144218 | -80.77231053 |
| 9,573.00              | 88.66           | 299.23      | 6,611.67              | 3,155.25     | -2,613.78    | 14,440,025.29       | 1,704,356.53       | 39.76165465 | -80.77247409 |
| 9,663.00              | 89.63           | 299.40      | 6,613.02              | 3,232.64     | -2,659.70    | 14,440,102.68       | 1,704,310.60       | 39.76186751 | -80.77263681 |
| 9,752.00              | 90.68           | 299.61      | 6,612.78              | 3,308.93     | -2,705.53    | 14,440,178.97       | 1,704,264.77       | 39.76207734 | -80.77279920 |
| 9,842.00              | 90.73           | 299.49      | 6,611.67              | 3,386.10     | -2,751.82    | 14,440,256.15       | 1,704,218.49       | 39.76228962 | -80.77296320 |
| 9,932.00              | 89.49           | 299.00      | 6,611.50              | 3,463.04     | -2,798.51    | 14,440,333.09       | 1,704,171.80       | 39.76250122 | -80.77312866 |
| 10,021.00             | 88.35           | 299.44      | 6,613.17              | 3,538.68     | -2,845.37    | 14,440,408.73       | 1,704,124.93       | 39.76270928 | -80.77329474 |
| 10,111.00             | 89.67           | 299.61      | 6,614.73              | 3,615.43     | -2,892.36    | 14,440,485.47       | 1,704,077.95       | 39.76292037 | -80.77346124 |
| 10,200.00             | 91.60           | 299.00      | 6,613.74              | 3,691.14     | -2,939.11    | 14,440,561.19       | 1,704,031.19       | 39.76312864 | -80.77362694 |
| 10,290.00             | 90.11           | 299.44      | 6,612.40              | 3,767.64     | -2,986.51    | 14,440,637.69       | 1,703,983.80       | 39.76333905 | -80.77379490 |
| 10,380.00             | 88.44           | 299.19      | 6,613.54              | 3,845.03     | -3,032.43    | 14,440,715.07       | 1,703,937.88       | 39.76355189 | -80.77395761 |
| 10,469.00             | 89.76           | 299.60      | 6,614.94              | 3,922.77     | -3,075.71    | 14,440,792.82       | 1,703,894.60       | 39.76376571 | -80.77411094 |
| 10,559.00             | 91.52           | 299.20      | 6,613.93              | 4,002.10     | -3,118.21    | 14,440,872.15       | 1,703,852.10       | 39.76398385 | -80.77426146 |
| 10,649.00             | 89.36           | 299.96      | 6,613.24              | 4,080.41     | -3,162.52    | 14,440,950.46       | 1,703,807.79       | 39.76419924 | -80.77441843 |

WV Department of Environmental Protection

|   |   |
|---|---|
| <b>Company:</b> Tug Hill Operating LLC        | <b>Local Co-ordinate Reference:</b> Well Corley N-06HM (slot G) |
| <b>Project:</b> Marshall County West Virginia | <b>TVD Reference:</b> RKB=1254+28 @ 1282.00usft (Precision 110) |
| <b>Site:</b> Corley Pad                       | <b>MD Reference:</b> RKB=1254+28 @ 1282.00usft (Precision 110)  |
| <b>Well:</b> Corley N-06HM (slot G)           | <b>North Reference:</b> Grid                                    |
| <b>Wellbore:</b> Original Hole                | <b>Survey Calculation Method:</b> Minimum Curvature             |
| <b>Design:</b> Sureys Original Hole           | <b>Database:</b> DB_Jul2216dt_v14                               |

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| Survey   |                 |             |                       |              |              |                     |                    |             |              |
|--|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-------------|--------------|
| Measured Depth (usft)                              | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude    | Longitude    |
| 10,738.00  | 89.14           | 321.08      | 6,614.40              | 4,156.31     | -3,208.99    | 14,441,026.36       | 1,703,761.32       | 39.76440799 | -80.77458312 |
| 10,828.00  | 91.12           | 321.00      | 6,614.20              | 4,232.66     | -3,256.63    | 14,441,102.71       | 1,703,713.68       | 39.76461800 | -80.77475196 |
| 10,918.00  | 90.46           | 321.93      | 6,612.96              | 4,309.77     | -3,303.02    | 14,441,179.81       | 1,703,667.29       | 39.76483008 | -80.77491636 |
| 11,007.00  | 89.23           | 322.02      | 6,613.20              | 4,386.82     | -3,347.55    | 14,441,256.87       | 1,703,622.76       | 39.76504200 | -80.77507414 |
| 11,097.00  | 90.46           | 322.71      | 6,613.44              | 4,466.17     | -3,389.98    | 14,441,336.22       | 1,703,580.33       | 39.76526021 | -80.77522443 |
| 11,186.00  | 88.44           | 322.66      | 6,614.30              | 4,545.59     | -3,430.13    | 14,441,415.64       | 1,703,540.18       | 39.76547860 | -80.77536658 |
| 11,276.00  | 88.88           | 322.39      | 6,616.40              | 4,625.42     | -3,471.64    | 14,441,495.47       | 1,703,498.67       | 39.76569811 | -80.77551359 |
| 11,366.00  | 90.90           | 322.66      | 6,616.58              | 4,705.26     | -3,513.16    | 14,441,575.31       | 1,703,457.15       | 39.76591767 | -80.77566063 |
| 11,455.00  | 89.58           | 322.51      | 6,616.20              | 4,783.91     | -3,554.82    | 14,441,653.95       | 1,703,415.49       | 39.76613393 | -80.77580820 |
| 11,545.00  | 88.18           | 322.55      | 6,617.96              | 4,862.63     | -3,598.40    | 14,441,732.67       | 1,703,371.90       | 39.76635042 | -80.77596259 |
| 11,635.00  | 89.01           | 322.72      | 6,620.17              | 4,941.04     | -3,642.52    | 14,441,811.09       | 1,703,327.78       | 39.76656606 | -80.77611890 |
| 11,725.00  | 90.81           | 322.49      | 6,620.31              | 5,019.06     | -3,687.38    | 14,441,889.11       | 1,703,282.93       | 39.76678063 | -80.77627783 |
| 11,814.00  | 90.99           | 322.38      | 6,618.91              | 5,094.88     | -3,733.96    | 14,441,964.92       | 1,703,236.35       | 39.76698917 | -80.77644292 |
| 11,904.00  | 89.63           | 322.47      | 6,618.43              | 5,170.72     | -3,782.41    | 14,442,040.76       | 1,703,187.90       | 39.76719778 | -80.77661468 |
| 11,994.00  | 88.09           | 322.00      | 6,620.22              | 5,246.80     | -3,830.45    | 14,442,116.85       | 1,703,139.86       | 39.76740706 | -80.77678494 |
| 12,083.00  | 89.14           | 322.08      | 6,622.37              | 5,322.29     | -3,877.54    | 14,442,192.33       | 1,703,092.77       | 39.76761469 | -80.77695187 |
| 12,173.00  | 90.20           | 322.73      | 6,622.89              | 5,398.53     | -3,925.36    | 14,442,268.58       | 1,703,044.95       | 39.76782440 | -80.77712137 |
| 12,262.00  | 89.36           | 322.67      | 6,623.23              | 5,474.57     | -3,971.59    | 14,442,344.62       | 1,702,998.71       | 39.76803355 | -80.77728523 |
| 12,352.00  | 90.55           | 322.75      | 6,623.30              | 5,552.28     | -4,016.99    | 14,442,422.33       | 1,702,953.32       | 39.76824728 | -80.77744609 |
| 12,442.00  | 92.13           | 322.58      | 6,621.19              | 5,629.94     | -4,062.43    | 14,442,499.98       | 1,702,907.88       | 39.76846085 | -80.77760711 |
| 12,531.00  | 90.86           | 322.75      | 6,618.87              | 5,706.72     | -4,107.36    | 14,442,576.77       | 1,702,862.95       | 39.76867203 | -80.77776634 |
| 12,621.00  | 89.89           | 322.16      | 6,618.28              | 5,785.02     | -4,151.74    | 14,442,655.06       | 1,702,818.57       | 39.76888735 | -80.77792358 |
| 12,710.00  | 91.38           | 322.04      | 6,617.30              | 5,863.30     | -4,194.07    | 14,442,733.35       | 1,702,776.24       | 39.76910262 | -80.77807352 |
| 12,800.00  | 89.89           | 322.46      | 6,616.30              | 5,942.19     | -4,237.35    | 14,442,812.24       | 1,702,732.96       | 39.76931958 | -80.77822686 |
| 12,890.00  | 88.62           | 322.75      | 6,617.47              | 6,020.21     | -4,282.20    | 14,442,890.26       | 1,702,688.11       | 39.76953414 | -80.77838580 |
| 12,979.00  | 89.98           | 322.19      | 6,618.56              | 6,097.25     | -4,326.74    | 14,442,967.30       | 1,702,643.57       | 39.76974603 | -80.77854361 |
| 13,069.00  | 89.71           | 322.58      | 6,618.80              | 6,175.11     | -4,371.89    | 14,443,045.15       | 1,702,598.41       | 39.76996014 | -80.77870363 |
| 13,159.00  | 91.65           | 322.63      | 6,617.73              | 6,253.12     | -4,416.74    | 14,443,123.17       | 1,702,553.56       | 39.77017469 | -80.77886256 |
| 13,248.00  | 90.86           | 322.05      | 6,615.78              | 6,330.05     | -4,461.45    | 14,443,200.10       | 1,702,508.86       | 39.77038627 | -80.77902098 |
| 13,338.00  | 88.09           | 322.29      | 6,616.61              | 6,406.50     | -4,508.90    | 14,443,276.55       | 1,702,461.40       | 39.77059655 | -80.77918920 |
| 13,427.00  | 88.79           | 322.29      | 6,619.03              | 6,481.36     | -4,556.98    | 14,443,351.41       | 1,702,413.33       | 39.77080245 | -80.77935964 |
| 13,517.00  | 90.42           | 322.06      | 6,619.65              | 6,556.56     | -4,606.42    | 14,443,426.60       | 1,702,363.89       | 39.77100930 | -80.77953494 |
| 13,606.00  | 89.93           | 322.77      | 6,619.38              | 6,630.70     | -4,655.65    | 14,443,500.74       | 1,702,314.65       | 39.77121324 | -80.77970950 |
| 13,696.00  | 90.24           | 322.14      | 6,619.24              | 6,706.98     | -4,703.40    | 14,443,577.03       | 1,702,266.90       | 39.77142305 | -80.77987877 |
| 13,786.00  | 91.69           | 322.02      | 6,617.73              | 6,784.57     | -4,748.97    | 14,443,654.62       | 1,702,221.34       | 39.77163646 | -80.78004024 |
| 13,875.00  | 90.95           | 322.55      | 6,615.68              | 6,861.85     | -4,793.07    | 14,443,731.90       | 1,702,177.24       | 39.77184898 | -80.78019653 |
| 13,965.00  | 89.32           | 322.60      | 6,615.47              | 6,940.62     | -4,836.60    | 14,443,810.67       | 1,702,133.71       | 39.77206560 | -80.78035075 |
| 14,054.00  | 87.21           | 322.83      | 6,618.16              | 7,019.32     | -4,878.06    | 14,443,889.36       | 1,702,092.25       | 39.77228200 | -80.78049764 |
| 14,144.00  | 88.40           | 322.57      | 6,621.61              | 7,099.23     | -4,919.31    | 14,443,969.28       | 1,702,051.00       | 39.77250174 | -80.78064374 |
| 14,233.00  | 90.15           | 322.48      | 6,622.73              | 7,178.18     | -4,960.37    | 14,444,048.23       | 1,702,009.94       | 39.77271885 | -80.78078917 |
| 14,265.00  | 90.77           | 322.48      | 6,622.48              | 7,206.56     | -4,975.15    | 14,444,076.61       | 1,701,995.16       | 39.77279688 | -80.78084155 |
| <b>Survey @ 14265.00 MD 6622.48 TVD</b>            |                 |             |                       |              |              |                     |                    |             |              |
| 14,316.00  | 90.77           | 322.48      | 6,621.79              | 7,251.79     | -4,998.71    | 14,444,121.83       | 1,701,971.59       | 39.77292124 | -80.78092501 |
| <b>Survey projected to 14316.00 MD 6621.79 TVD</b> |                 |             |                       |              |              |                     |                    |             |              |

WV Department of Environmental Protection

| Design Annotations    |                       |                   |              |   |
|-----------------------|-----------------------|-------------------|--------------|---|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                                     |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |   |
| 300.00                | 300.00                | -0.08             | -0.19        | MWD surveys                                 |
| 14,265.00             | 6,622.48              | 7,206.56          | -4,975.15    | Survey @ 14265.00 MD 6622.48 TVD            |
| 14,316.00             | 6,621.79              | 7,251.79          | -4,998.71    | Survey projected to 14316.00 MD 6621.79 TVD |

|                  |                                |                                     |   |
|------------------|--------------------------------|-------------------------------------|---|
| <b>Company:</b>  | Tug Hill Operating, LLC        | <b>Local Co-ordinate Reference:</b> | Well Corley N-06HM (slot G)               |
| <b>Project:</b>  | Marshall County, West Virginia | <b>TVD Reference:</b>               | RKB=1254+28 @ 1282.00usft (Precision 110) |
| <b>Site:</b>     | Corley Pad                     | <b>MD Reference:</b>                | RKB=1254+28 @ 1282.00usft (Precision 110) |
| <b>Well:</b>     | Corley N-06HM (slot G)         | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Hole                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | Sureys Original                | <b>Database:</b>                    | DB_Jul2216dt_v14                          |

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