

## Gas Quality Reports

LS190 - KC 26" at Ottawa X-Over

9/6/2019 - 12/6/2019

| Gas Day    | Gross Heating Value (HHV) (Btu/scf) | Net Heating Value (LHV) (Btu/scf) | Specific Gravity | Wobbe Index | Hydrocarbon Dewpoint (HCDP) (deg F) | N2 (mol%) | CO2 (mol%) | Methane (mol%) | Ethane (mol%) | Propane (mol%) | Isobutane (mol%) | N-Butane (mol%) | Isopentane (mol%) | N-Pentane (mol%) | C6 Plus (mol%) |
|------------|-------------------------------------|-----------------------------------|------------------|-------------|-------------------------------------|-----------|------------|----------------|---------------|----------------|------------------|-----------------|-------------------|------------------|----------------|
| 09/06/2019 | 1,038.6                             | 1,038.6                           | 0.600            | 1,341.16    | -139.12                             | 1.931     | 0.559      | 91.552         | 5.528         | 0.380          | 0.014            | 0.023           | 0.004             | 0.003            | 0.006          |
| 09/07/2019 | 1,049.4                             | 1,049.4                           | 0.605            | 1,348.69    | -70.50                              | 2.098     | 0.378      | 90.497         | 6.307         | 0.634          | 0.026            | 0.043           | 0.006             | 0.005            | 0.006          |
| 09/08/2019 | 1,030.8                             | 1,030.8                           | 0.594            | 1,337.27    | -146.18                             | 1.826     | 0.597      | 92.510         | 4.819         | 0.220          | 0.007            | 0.011           | 0.002             | 0.002            | 0.006          |
| 09/09/2019 | 1,037.7                             | 1,037.7                           | 0.598            | 1,341.48    | -140.14                             | 1.837     | 0.575      | 91.831         | 5.370         | 0.324          | 0.016            | 0.030           | 0.006             | 0.005            | 0.007          |
| 09/10/2019 | 1,038.6                             | 1,038.6                           | 0.600            | 1,341.31    | -139.32                             | 1.939     | 0.547      | 91.509         | 5.617         | 0.343          | 0.012            | 0.020           | 0.003             | 0.003            | 0.006          |
| 09/11/2019 | 1,033.0                             | 1,033.0                           | 0.596            | 1,337.82    | -144.03                             | 1.850     | 0.620      | 92.157         | 5.098         | 0.240          | 0.008            | 0.014           | 0.003             | 0.003            | 0.007          |
| 09/12/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/13/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/14/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/15/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/16/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/17/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/18/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/19/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/20/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/21/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/22/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/23/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/24/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/25/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/26/2019 | 1,029.1                             | 1,029.1                           | 0.595            | 1,334.54    | -146.14                             | 1.877     | 0.657      | 92.576         | 4.591         | 0.236          | 0.019            | 0.023           | 0.007             | 0.006            | 0.008          |
| 09/27/2019 | 1,027.6                             | 1,027.6                           | 0.594            | 1,333.41    | -147.56                             | 1.994     | 0.594      | 92.565         | 4.597         | 0.218          | 0.007            | 0.012           | 0.003             | 0.003            | 0.007          |
| 09/28/2019 | 1,028.5                             | 1,028.5                           | 0.594            | 1,334.40    | -147.23                             | 1.927     | 0.613      | 92.536         | 4.689         | 0.205          | 0.007            | 0.011           | 0.003             | 0.002            | 0.007          |
| 09/29/2019 | 1,031.0                             | 1,031.0                           | 0.595            | 1,336.23    | -145.28                             | 1.920     | 0.597      | 92.297         | 4.921         | 0.230          | 0.008            | 0.013           | 0.003             | 0.003            | 0.008          |
| 09/30/2019 | 1,033.0                             | 1,033.0                           | 0.597            | 1,337.11    | -143.38                             | 2.047     | 0.531      | 91.877         | 5.286         | 0.228          | 0.007            | 0.012           | 0.002             | 0.002            | 0.006          |
| 10/01/2019 | 1,031.0                             | 1,031.0                           | 0.595            | 1,336.16    | -145.47                             | 1.919     | 0.600      | 92.270         | 4.971         | 0.208          | 0.007            | 0.012           | 0.003             | 0.003            | 0.007          |
| 10/02/2019 | 1,031.3                             | 1,031.3                           | 0.596            | 1,335.75    | -144.83                             | 1.964     | 0.604      | 92.148         | 5.013         | 0.237          | 0.008            | 0.014           | 0.003             | 0.003            | 0.006          |
| 10/03/2019 | 1,029.0                             | 1,029.0                           | 0.594            | 1,334.94    | -147.12                             | 1.907     | 0.612      | 92.522         | 4.727         | 0.204          | 0.007            | 0.012           | 0.003             | 0.002            | 0.006          |
| 10/04/2019 | 1,029.3                             | 1,029.3                           | 0.591            | 1,338.77    | -148.96                             | 1.686     | 0.556      | 93.056         | 4.528         | 0.153          | 0.005            | 0.008           | 0.002             | 0.002            | 0.005          |
| 10/05/2019 | 1,028.2                             | 1,028.2                           | 0.591            | 1,337.67    | -149.42                             | 1.726     | 0.554      | 93.138         | 4.388         | 0.165          | 0.006            | 0.011           | 0.003             | 0.003            | 0.006          |
| 10/06/2019 | 1,029.7                             | 1,029.7                           | 0.592            | 1,338.41    | -148.01                             | 1.749     | 0.547      | 92.935         | 4.548         | 0.192          | 0.007            | 0.011           | 0.003             | 0.003            | 0.006          |
| 10/07/2019 | 1,028.7                             | 1,028.7                           | 0.591            | 1,338.66    | -149.21                             | 1.699     | 0.535      | 93.179         | 4.390         | 0.167          | 0.007            | 0.011           | 0.003             | 0.003            | 0.006          |
| 10/08/2019 | 1,030.8                             | 1,030.8                           | 0.592            | 1,339.79    | -147.59                             | 1.716     | 0.528      | 92.885         | 4.667         | 0.178          | 0.006            | 0.009           | 0.002             | 0.002            | 0.006          |
| 10/09/2019 | 1,028.8                             | 1,028.8                           | 0.592            | 1,337.59    | -148.69                             | 1.755     | 0.559      | 92.987         | 4.496         | 0.176          | 0.006            | 0.010           | 0.002             | 0.002            | 0.006          |
| 10/10/2019 | 1,028.4                             | 1,028.4                           | 0.591            | 1,337.52    | -149.29                             | 1.733     | 0.566      | 93.044         | 4.478         | 0.157          | 0.005            | 0.009           | 0.002             | 0.002            | 0.005          |
| 10/11/2019 | 1,028.5                             | 1,028.5                           | 0.590            | 1,338.59    | -149.73                             | 1.711     | 0.526      | 93.151         | 4.448         | 0.144          | 0.005            | 0.008           | 0.002             | 0.002            | 0.004          |
| 10/12/2019 | 1,036.3                             | 1,036.3                           | 0.597            | 1,341.55    | -141.02                             | 1.983     | 0.432      | 92.051         | 5.072         | 0.409          | 0.015            | 0.024           | 0.004             | 0.004            | 0.006          |
| 10/13/2019 | 1,025.8                             | 1,025.8                           | 0.592            | 1,332.89    | -149.68                             | 1.962     | 0.586      | 92.819         | 4.448         | 0.160          | 0.006            | 0.009           | 0.002             | 0.002            | 0.006          |
| 10/14/2019 | 1,029.8                             | 1,029.8                           | 0.593            | 1,337.74    | -147.54                             | 1.831     | 0.535      | 92.728         | 4.704         | 0.176          | 0.006            | 0.010           | 0.002             | 0.002            | 0.006          |
| 10/15/2019 | 1,028.5                             | 1,028.5                           | 0.593            | 1,336.01    | -148.37                             | 1.874     | 0.559      | 92.734         | 4.640         | 0.171          | 0.005            | 0.009           | 0.002             | 0.002            | 0.004          |
| 10/16/2019 | 1,029.6                             | 1,029.6                           | 0.591            | 1,339.02    | -148.41                             | 1.708     | 0.539      | 93.039         | 4.505         | 0.179          | 0.007            | 0.012           | 0.003             | 0.003            | 0.005          |
| 10/17/2019 | 1,037.3                             | 1,037.3                           | 0.596            | 1,343.32    | -141.18                             | 1.948     | 0.387      | 92.037         | 5.243         | 0.336          | 0.013            | 0.022           | 0.004             | 0.004            | 0.006          |
| 10/18/2019 | 1,045.0                             | 1,045.0                           | 0.606            | 1,342.67    | -67.92                              | 2.764     | 0.134      | 90.145         | 6.203         | 0.650          | 0.029            | 0.052           | 0.008             | 0.008            | 0.007          |

## Gas Quality Reports

LS190 - KC 26" at Ottawa X-Over

9/6/2019 - 12/6/2019

| Gas Day    | Gross Heating Value (HHV) (Btu/scf) | Net Heating Value (LHV) (Btu/scf) | Specific Gravity | Wobbe Index | Hydrocarbon Dewpoint (HCDP) (deg F) | N2 (mol%) | CO2 (mol%) | Methane (mol%) | Ethane (mol%) | Propane (mol%) | Isobutane (mol%) | N-Butane (mol%) | Isopentane (mol%) | N-Pentane (mol%) | C6 Plus (mol%) |
|------------|-------------------------------------|-----------------------------------|------------------|-------------|-------------------------------------|-----------|------------|----------------|---------------|----------------|------------------|-----------------|-------------------|------------------|----------------|
| 10/19/2019 | 1,036.5                             | 1,036.5                           | 0.600            | 1,338.30    | -74.85                              | 2.294     | 0.412      | 91.550         | 5.133         | 0.522          | 0.026            | 0.042           | 0.007             | 0.006            | 0.008          |
| 10/20/2019 | 1,028.2                             | 1,028.2                           | 0.594            | 1,334.39    | -146.66                             | 2.033     | 0.534      | 92.638         | 4.455         | 0.285          | 0.015            | 0.025           | 0.005             | 0.004            | 0.007          |
| 10/21/2019 | 1,030.8                             | 1,030.8                           | 0.595            | 1,336.58    | -145.59                             | 1.935     | 0.560      | 92.406         | 4.806         | 0.254          | 0.010            | 0.017           | 0.003             | 0.003            | 0.005          |
| 10/22/2019 | 1,038.0                             | 1,038.0                           | 0.599            | 1,341.54    | -139.00                             | 1.895     | 0.543      | 91.875         | 5.185         | 0.411          | 0.022            | 0.043           | 0.009             | 0.009            | 0.008          |
| 10/23/2019 | 1,034.9                             | 1,034.9                           | 0.597            | 1,339.43    | -66.88                              | 1.904     | 0.555      | 92.322         | 4.671         | 0.414          | 0.029            | 0.064           | 0.013             | 0.015            | 0.011          |
| 10/24/2019 | 1,037.1                             | 1,037.1                           | 0.598            | 1,340.99    | -66.80                              | 1.929     | 0.521      | 92.077         | 4.903         | 0.448          | 0.028            | 0.058           | 0.012             | 0.013            | 0.011          |
| 10/25/2019 | 1,038.5                             | 1,038.5                           | 0.599            | 1,341.97    | -73.55                              | 1.937     | 0.507      | 91.860         | 5.133         | 0.469          | 0.025            | 0.045           | 0.008             | 0.008            | 0.009          |
| 10/26/2019 | 1,034.4                             | 1,034.4                           | 0.597            | 1,339.12    | -141.72                             | 1.976     | 0.510      | 92.143         | 4.926         | 0.377          | 0.018            | 0.032           | 0.006             | 0.006            | 0.008          |
| 10/27/2019 | 1,025.5                             | 1,025.5                           | 0.592            | 1,333.30    | -149.42                             | 2.015     | 0.518      | 92.992         | 4.210         | 0.223          | 0.010            | 0.017           | 0.004             | 0.004            | 0.007          |
| 10/28/2019 | 1,039.9                             | 1,039.9                           | 0.601            | 1,341.55    | -137.30                             | 2.056     | 0.498      | 91.386         | 5.495         | 0.492          | 0.021            | 0.035           | 0.006             | 0.005            | 0.005          |
| 10/29/2019 | 1,039.5                             | 1,039.5                           | 0.600            | 1,341.63    | -137.75                             | 1.984     | 0.529      | 91.517         | 5.425         | 0.472          | 0.021            | 0.035           | 0.006             | 0.005            | 0.006          |
| 10/30/2019 | 1,038.3                             | 1,038.3                           | 0.600            | 1,340.17    | -138.22                             | 2.057     | 0.522      | 91.506         | 5.398         | 0.434          | 0.022            | 0.040           | 0.007             | 0.007            | 0.006          |
| 10/31/2019 | 1,036.5                             | 1,036.5                           | 0.599            | 1,339.53    | -139.96                             | 2.006     | 0.533      | 91.760         | 5.245         | 0.384          | 0.018            | 0.033           | 0.006             | 0.006            | 0.007          |
| 11/01/2019 | 1,031.4                             | 1,031.4                           | 0.597            | 1,334.59    | -143.98                             | 2.170     | 0.538      | 91.795         | 5.229         | 0.235          | 0.008            | 0.014           | 0.003             | 0.003            | 0.006          |
| 11/02/2019 | 1,032.7                             | 1,032.7                           | 0.594            | 1,339.56    | -145.02                             | 1.852     | 0.512      | 92.446         | 4.913         | 0.238          | 0.010            | 0.017           | 0.004             | 0.003            | 0.005          |
| 11/03/2019 | 1,036.7                             | 1,036.7                           | 0.597            | 1,341.67    | -141.45                             | 1.869     | 0.514      | 91.940         | 5.335         | 0.300          | 0.011            | 0.019           | 0.003             | 0.003            | 0.006          |
| 11/04/2019 | 1,032.5                             | 1,032.5                           | 0.595            | 1,337.95    | -144.97                             | 1.936     | 0.539      | 92.142         | 5.163         | 0.197          | 0.006            | 0.009           | 0.002             | 0.002            | 0.004          |
| 11/05/2019 | 1,033.2                             | 1,033.2                           | 0.595            | 1,339.54    | -144.52                             | 1.872     | 0.518      | 92.296         | 5.060         | 0.213          | 0.009            | 0.018           | 0.004             | 0.004            | 0.005          |
| 11/06/2019 | 1,034.0                             | 1,034.0                           | 0.596            | 1,339.87    | -143.45                             | 1.874     | 0.523      | 92.226         | 5.075         | 0.257          | 0.011            | 0.020           | 0.004             | 0.004            | 0.005          |
| 11/07/2019 | 1,040.0                             | 1,040.0                           | 0.597            | 1,346.29    | -140.35                             | 1.676     | 0.490      | 92.013         | 5.505         | 0.262          | 0.013            | 0.025           | 0.006             | 0.006            | 0.005          |
| 11/08/2019 | 1,038.1                             | 1,038.1                           | 0.596            | 1,344.35    | -141.34                             | 1.759     | 0.483      | 92.054         | 5.410         | 0.245          | 0.011            | 0.021           | 0.005             | 0.005            | 0.006          |
| 11/09/2019 | 1,039.6                             | 1,039.6                           | 0.600            | 1,342.70    | -138.20                             | 1.927     | 0.510      | 91.638         | 5.413         | 0.441          | 0.019            | 0.033           | 0.005             | 0.005            | 0.007          |
| 11/10/2019 | 1,037.3                             | 1,037.3                           | 0.598            | 1,341.31    | -140.40                             | 1.907     | 0.526      | 91.846         | 5.306         | 0.360          | 0.015            | 0.026           | 0.005             | 0.004            | 0.006          |
| 11/11/2019 | 1,034.8                             | 1,034.8                           | 0.594            | 1,342.06    | -144.62                             | 1.750     | 0.508      | 92.339         | 5.182         | 0.200          | 0.005            | 0.008           | 0.002             | 0.002            | 0.003          |
| 11/12/2019 | 1,036.2                             | 1,036.2                           | 0.595            | 1,343.31    | -143.23                             | 1.753     | 0.482      | 92.258         | 5.251         | 0.225          | 0.008            | 0.014           | 0.003             | 0.003            | 0.004          |
| 11/13/2019 | 1,035.5                             | 1,035.5                           | 0.595            | 1,342.29    | -143.53                             | 1.804     | 0.485      | 92.194         | 5.280         | 0.213          | 0.006            | 0.011           | 0.002             | 0.002            | 0.004          |
| 11/14/2019 | 1,037.6                             | 1,037.6                           | 0.597            | 1,343.43    | -141.55                             | 1.790     | 0.497      | 92.021         | 5.383         | 0.265          | 0.011            | 0.020           | 0.004             | 0.004            | 0.005          |
| 11/15/2019 | 1,037.5                             | 1,037.5                           | 0.597            | 1,343.18    | -141.57                             | 1.807     | 0.497      | 91.975         | 5.424         | 0.259          | 0.009            | 0.016           | 0.003             | 0.003            | 0.005          |
| 11/16/2019 | 1,037.2                             | 1,037.2                           | 0.597            | 1,341.88    | -141.17                             | 1.877     | 0.511      | 91.873         | 5.401         | 0.297          | 0.011            | 0.019           | 0.003             | 0.003            | 0.005          |
| 11/17/2019 | 1,032.9                             | 1,032.9                           | 0.595            | 1,339.43    | -145.24                             | 1.837     | 0.537      | 92.318         | 5.091         | 0.194          | 0.006            | 0.009           | 0.002             | 0.002            | 0.004          |
| 11/18/2019 | 1,036.7                             | 1,036.7                           | 0.597            | 1,341.79    | -141.63                             | 1.907     | 0.483      | 91.886         | 5.416         | 0.272          | 0.010            | 0.016           | 0.003             | 0.003            | 0.005          |
| 11/19/2019 | 1,043.9                             | 1,043.9                           | 0.603            | 1,343.92    | -134.36                             | 2.248     | 0.368      | 90.739         | 6.069         | 0.501          | 0.020            | 0.035           | 0.006             | 0.006            | 0.007          |
| 11/20/2019 | 1,053.5                             | 1,053.5                           | 0.609            | 1,349.83    | -66.22                              | 2.345     | 0.285      | 89.712         | 6.832         | 0.735          | 0.027            | 0.045           | 0.007             | 0.006            | 0.006          |
| 11/21/2019 | 1,037.9                             | 1,037.9                           | 0.600            | 1,339.48    | -139.17                             | 2.112     | 0.511      | 91.296         | 5.680         | 0.355          | 0.013            | 0.021           | 0.004             | 0.004            | 0.004          |
| 11/22/2019 | 1,034.6                             | 1,034.6                           | 0.598            | 1,338.28    | -142.09                             | 2.002     | 0.546      | 91.824         | 5.293         | 0.293          | 0.011            | 0.019           | 0.004             | 0.003            | 0.005          |
| 11/23/2019 | 1,037.0                             | 1,037.0                           | 0.597            | 1,342.63    | -141.99                             | 1.795     | 0.520      | 91.985         | 5.426         | 0.241          | 0.008            | 0.014           | 0.003             | 0.003            | 0.005          |
| 11/24/2019 | 1,039.2                             | 1,039.2                           | 0.598            | 1,343.66    | -139.61                             | 1.855     | 0.491      | 91.790         | 5.457         | 0.355          | 0.014            | 0.024           | 0.004             | 0.004            | 0.006          |
| 11/25/2019 | 1,033.0                             | 1,033.0                           | 0.596            | 1,337.66    | -144.13                             | 1.985     | 0.538      | 91.999         | 5.229         | 0.221          | 0.007            | 0.011           | 0.003             | 0.002            | 0.005          |
| 11/26/2019 | 1,033.6                             | 1,033.6                           | 0.596            | 1,339.28    | -144.18                             | 1.897     | 0.528      | 92.151         | 5.170         | 0.224          | 0.008            | 0.013           | 0.003             | 0.003            | 0.005          |
| 11/27/2019 | 1,038.0                             | 1,038.0                           | 0.599            | 1,341.40    | -139.66                             | 1.967     | 0.506      | 91.658         | 5.445         | 0.369          | 0.015            | 0.026           | 0.005             | 0.004            | 0.005          |
| 11/28/2019 | 1,038.1                             | 1,038.1                           | 0.597            | 1,343.12    | -140.73                             | 1.858     | 0.486      | 91.853         | 5.454         | 0.309          | 0.011            | 0.018           | 0.003             | 0.003            | 0.005          |
| 11/29/2019 | 1,036.1                             | 1,036.1                           | 0.596            | 1,341.54    | -142.14                             | 1.891     | 0.486      | 91.996         | 5.318         | 0.272          | 0.009            | 0.016           | 0.003             | 0.003            | 0.005          |
| 11/30/2019 | 1,032.6                             | 1,032.6                           | 0.595            | 1,338.16    | -144.38                             | 1.981     | 0.501      | 92.204         | 5.012         | 0.266          | 0.009            | 0.016           | 0.003             | 0.003            | 0.005          |

TSP Name: Southern Star Central Gas Pipeline, Inc.

CSI048

TSP: 007906233

12/6/2019 12:15:34 AM

## Gas Quality Reports

LS190 - KC 26" at Ottawa X-Over

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9/6/2019 - 12/6/2019

| Gas Day    | Gross Heating Value (HHV) (Btu/scf) | Net Heating Value (LHV) (Btu/scf) | Specific Gravity | Wobbe Index | Hydrocarbon Dewpoint (HCDP) (deg F) | N2 (mol%) | CO2 (mol%) | Methane (mol%) | Ethane (mol%) | Propane (mol%) | Isobutane (mol%) | N-Butane (mol%) | Isopentane (mol%) | N-Pentane (mol%) | C6 Plus (mol%) |
|------------|-------------------------------------|-----------------------------------|------------------|-------------|-------------------------------------|-----------|------------|----------------|---------------|----------------|------------------|-----------------|-------------------|------------------|----------------|
| 12/01/2019 | 1,035.7                             | 1,035.7                           | 0.596            | 1,342.18    | -143.45                             | 1.819     | 0.488      | 92.087         | 5.399         | 0.187          | 0.005            | 0.008           | 0.002             | 0.002            | 0.004          |
| 12/02/2019 | 1,037.0                             | 1,037.0                           | 0.596            | 1,343.10    | -142.29                             | 1.810     | 0.482      | 92.026         | 5.419         | 0.233          | 0.007            | 0.013           | 0.002             | 0.002            | 0.004          |
| 12/03/2019 | 1,036.7                             | 1,036.7                           | 0.596            | 1,342.39    | -142.37                             | 1.847     | 0.486      | 91.955         | 5.465         | 0.219          | 0.007            | 0.011           | 0.002             | 0.002            | 0.005          |
| 12/04/2019 | 1,035.3                             | 1,035.3                           | 0.596            | 1,341.38    | -143.00                             | 1.886     | 0.474      | 92.104         | 5.256         | 0.249          | 0.008            | 0.014           | 0.003             | 0.002            | 0.005          |

### NOTES:

**Wobbe Index:** Interchangeability constant calculated using the Gross (or Higher) Heating Value (HHV) divided by the square root of the Specific Gravity

**Hydrocarbon Dewpoint (HCDP):** Theoretically determined value using the Redlich-Kwong equation of state (EOS)

Selection: Business Unit ID = 70; Analysis\_Key = 48161