

**INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL**  
(Valores promedio diarios)

**PERMISIONARIO:** TAG PIPELINES NORTE  
**PUNTO DE MEDICIÓN:** EC LOS RAMONES NUEVA - 42" RAMONES NORTE  
**ZONA DE MEDICIÓN:** RESTO DEL PAÍS



| FECHA:<br>(dd/mm/aa) | Metano<br>(% vol) | Bióxido de<br>Carbono<br>(% vol) | Nitrógeno<br>(% vol) | Total Inertes<br>(% vol) | Etano<br>(% vol) | Temperatura de<br>Rocio<br>(K) | Humedad<br>(mg/m <sup>3</sup> ) | Poder Calorífico<br>(MJ/m <sup>3</sup> ) | Índice Wobbe<br>(MJ/m <sup>3</sup> ) | Acido<br>Sulfhídrico<br>(mg/m <sup>3</sup> ) | Azufre total*<br>(mg/m <sup>3</sup> ) | Oxígeno*<br>(% vol) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|---------------------------------------|---------------------|
| 9/1/2017             | 93.762            | 0.824                            | 0.286                | 1.1095                   | 4.8002           | 260.4210                       | 27.6830                         | 38.9827                                  | 50.6913                              | 0.1870                                       | 10.8000                               | 0.0000              |
| 9/2/2017             | 93.823            | 0.795                            | 0.283                | 1.0780                   | 4.785            | 260.2960                       | 27.5630                         | 38.9760                                  | 50.7088                              | 0.2170                                       |                                       |                     |
| 9/3/2017             | 93.414            | 0.782                            | 0.282                | 1.0638                   | 5.145            | 260.2810                       | 27.3170                         | 39.1314                                  | 50.8061                              | 0.2690                                       |                                       |                     |
| 9/4/2017             | 93.179            | 0.762                            | 0.279                | 1.0404                   | 5.436            | 260.0050                       | 26.2530                         | 39.1944                                  | 50.8577                              | 0.2670                                       |                                       |                     |
| 9/5/2017             | 93.158            | 0.720                            | 0.259                | 0.9790                   | 5.512            | 259.8970                       | 26.1230                         | 39.2450                                  | 50.9241                              | 0.3030                                       |                                       |                     |
| 9/6/2017             | 93.190            | 0.737                            | 0.254                | 0.9911                   | 5.486            | 259.9910                       | 25.9500                         | 39.2198                                  | 50.9004                              | 0.3190                                       |                                       |                     |
| 9/7/2017             | 93.519            | 0.794                            | 0.303                | 1.0963                   | 5.070            | 259.6170                       | 25.4500                         | 39.0216                                  | 50.7399                              | 0.3900                                       |                                       |                     |
| 9/8/2017             | 94.231            | 0.822                            | 0.197                | 1.0190                   | 4.471            | 259.5000                       | 25.6650                         | 38.7358                                  | 50.6763                              | 0.4460                                       |                                       |                     |
| 9/9/2017             | 93.939            | 0.719                            | 0.227                | 0.9455                   | 4.847            | 259.8750                       | 25.5850                         | 39.0184                                  | 50.8114                              | 0.3310                                       |                                       |                     |
| 9/10/2017            | 93.548            | 0.701                            | 0.246                | 0.9470                   | 5.241            | 260.1220                       | 25.6270                         | 39.1271                                  | 50.8768                              | 0.2980                                       |                                       |                     |
| 9/11/2017            | 93.593            | 0.743                            | 0.203                | 0.9455                   | 5.203            | 260.1770                       | 26.0850                         | 39.1142                                  | 50.8602                              | 0.3020                                       |                                       |                     |
| 9/12/2017            | 93.323            | 0.718                            | 0.221                | 0.9383                   | 5.494            | 260.0230                       | 25.6750                         | 39.1876                                  | 50.9110                              | 0.3000                                       |                                       |                     |
| 9/13/2017            | 95.022            | 0.630                            | 0.302                | 0.9321                   | 3.827            | 260.1230                       | 26.5260                         | 38.7014                                  | 50.6588                              | 0.1560                                       |                                       |                     |
| 9/14/2017            | 95.557            | 0.659                            | 0.256                | 0.9149                   | 3.329            | 260.7220                       | 28.0490                         | 38.5539                                  | 50.5761                              | 0.2990                                       |                                       |                     |
| 9/15/2017            | 94.458            | 0.706                            | 0.280                | 0.9862                   | 4.325            | 260.5120                       | 27.3110                         | 38.8317                                  | 50.6901                              | 0.2250                                       |                                       |                     |
| 9/16/2017            | 94.290            | 0.690                            | 0.334                | 1.0238                   | 4.450            | 260.6420                       | 27.5960                         | 38.8573                                  | 50.6912                              | 0.1990                                       |                                       |                     |
| 9/17/2017            | 94.485            | 0.669                            | 0.356                | 1.0252                   | 4.266            | 260.6750                       | 27.4670                         | 38.7935                                  | 50.6594                              | 0.4050                                       |                                       |                     |
| 9/18/2017            | 94.494            | 0.660                            | 0.346                | 1.0058                   | 4.276            | 260.6480                       | 27.8040                         | 38.8055                                  | 50.6772                              | 0.2550                                       |                                       |                     |
| 9/19/2017            | 94.688            | 0.689                            | 0.346                | 1.0352                   | 4.052            | 260.6510                       | 27.6080                         | 38.7303                                  | 50.6140                              | 0.2180                                       |                                       |                     |
| 9/20/2017            | 95.001            | 0.671                            | 0.340                | 1.0101                   | 3.785            | 260.7720                       | 28.2080                         | 38.6493                                  | 50.5839                              | 0.1580                                       |                                       |                     |
| 9/21/2017            | 95.598            | 0.650                            | 0.343                | 0.9930                   | 3.211            | 260.7490                       | 28.1770                         | 38.4922                                  | 50.5069                              | 0.1850                                       |                                       |                     |
| 9/22/2017            | 95.926            | 0.643                            | 0.335                | 0.9784                   | 2.878            | 261.4390                       | 28.7960                         | 38.4184                                  | 50.4730                              | 0.1260                                       |                                       |                     |
| 9/23/2017            | 96.132            | 0.683                            | 0.342                | 1.0253                   | 2.606            | 261.3190                       | 29.8750                         | 38.3325                                  | 50.3925                              | 0.0970                                       |                                       |                     |
| 9/24/2017            | 96.116            | 0.668                            | 0.336                | 1.0037                   | 2.649            | 260.7320                       | 28.3660                         | 38.3477                                  | 50.4152                              | 0.0680                                       |                                       |                     |
| 9/25/2017            | 96.179            | 0.605                            | 0.335                | 0.9400                   | 2.652            | 260.7800                       | 27.7590                         | 38.3746                                  | 50.4749                              | 0.0930                                       |                                       |                     |
| 9/26/2017            | 96.071            | 0.611                            | 0.360                | 0.971                    | 2.736            | 260.7350                       | 27.9330                         | 38.3800                                  | 50.4620                              | 0.0740                                       |                                       |                     |
| 9/27/2017            | 96.223            | 0.590                            | 0.366                | 0.956                    | 2.615            | 260.8440                       | 27.7130                         | 38.3392                                  | 50.4509                              | 0.0820                                       |                                       |                     |
| 9/28/2017            | 96.010            | 0.644                            | 0.388                | 1.032                    | 2.732            | 260.3900                       | 27.1726                         | 38.3615                                  | 50.4155                              | 0.0988                                       |                                       |                     |
| 9/29/2017            | 95.994            | 0.665                            | 0.423                | 1.088                    | 2.685            | 260.5800                       | 27.7298                         | 38.3261                                  | 50.3643                              | 0.0930                                       |                                       |                     |
| 9/30/2017            | 96.315            | 0.667                            | 0.354                | 1.021                    | 2.465            | 260.4900                       | 27.7209                         | 38.2672                                  | 50.3613                              | 0.0843                                       |                                       |                     |

\*/ Los valores trimestrales se deberán reportar en los meses de enero, abril, julio y octubre de cada año, respecto del trimestre inmediato anterior.

|                   |         |        |        |        |        |          |         |         |         |        |         |        |
|-------------------|---------|--------|--------|--------|--------|----------|---------|---------|---------|--------|---------|--------|
| <b>Mínimo</b>     | 93.1575 | 0.5904 | 0.1969 | 0.9149 | 2.4653 | 259.5000 | 25.4500 | 38.2672 | 50.3613 | 0.0680 | 10.8000 | 0.0000 |
| <b>Promedio</b>   | 94.7078 | 0.6973 | 0.3059 | 1.0032 | 4.0343 | 260.4336 | 27.2262 | 38.7425 | 50.6393 | 0.2182 | 10.8000 | 0.0000 |
| <b>Máximo</b>     | 96.3150 | 0.8240 | 0.4226 | 1.1095 | 5.5115 | 261.4390 | 29.8750 | 39.2450 | 50.9241 | 0.4460 | 10.8000 | 0.0000 |
| <b>Desv. Est.</b> | 1.1281  | 0.0627 | 0.0563 | 0.0517 | 1.0836 | 0.4463   | 1.0938  | 0.3310  | 0.1811  | 0.1079 |         |        |

Observaciones:

**INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL**  
(Registros máximos diarios)

PERMISIONARIO: TAG PIPELINES NORTE  
 PUNTO DE MEDICIÓN: EC LOS RAMONES NUEVA - 42" RAMONES NORTE  
 ZONA DE MEDICIÓN: RESTO DEL PAÍS



| FECHA:<br>(dd/mm/aa) | Metano<br>(% vol) | Bióxido de<br>Carbono<br>(% vol) | Nitrógeno<br>(% vol) | Total Inertes<br>(% vol) | Etano<br>(% vol) | Temperatura de<br>Rocio<br>(K) | Humedad<br>(mg/m <sup>3</sup> ) | Poder Calorífico<br>(MJ/m <sup>3</sup> ) | Índice Wobbe<br>(MJ/m <sup>3</sup> ) | Acido<br>Sulfhídrico<br>(mg/m <sup>3</sup> ) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|
| 9/1/2017             |                   |                                  |                      |                          |                  | 261.3960                       | 30.232                          |  | 50.8041                              | 0.4760                                       |
| 9/2/2017             |                   |                                  |                      |                          |                  | 261.4790                       | 30.6720                         |  | 50.7856                              | 0.4980                                       |
| 9/3/2017             |                   |                                  |                      |                          |                  | 261.4240                       | 30.2910                         |  | 50.9870                              | 0.6180                                       |
| 9/4/2017             |                   |                                  |                      |                          |                  | 261.0610                       | 28.8880                         |  | 50.9736                              | 0.5460                                       |
| 9/5/2017             |                   |                                  |                      |                          |                  | 260.4370                       | 27.4370                         |  | 51.0360                              | 0.5860                                       |
| 9/6/2017             |                   |                                  |                      |                          |                  | 260.7740                       | 27.8590                         |  | 51.0302                              | 0.5770                                       |
| 9/7/2017             |                   |                                  |                      |                          |                  | 260.1700                       | 26.7650                         |  | 50.9607                              | 1.2240                                       |
| 9/8/2017             |                   |                                  |                      |                          |                  | 259.7920                       | 26.3580                         |  | 50.7210                              | 0.5140                                       |
| 9/9/2017             |                   |                                  |                      |                          |                  | 260.2970                       | 26.5860                         |  | 50.8759                              | 0.5230                                       |
| 9/10/2017            |                   |                                  |                      |                          |                  | 260.8010                       | 27.2560                         |  | 50.9312                              | 0.4880                                       |
| 9/11/2017            |                   |                                  |                      |                          |                  | 260.7420                       | 27.4550                         |  | 50.9598                              | 0.5400                                       |
| 9/12/2017            |                   |                                  |                      |                          |                  | 260.9460                       | 27.9160                         |  | 51.0428                              | 0.6340                                       |
| 9/13/2017            |                   |                                  |                      |                          |                  | 260.9000                       | 28.4620                         |  | 50.9682                              | 0.6180                                       |
| 9/14/2017            |                   |                                  |                      |                          |                  | 263.1060                       | 34.7310                         |  | 50.6687                              | 0.8460                                       |
| 9/15/2017            |                   |                                  |                      |                          |                  | 261.2990                       | 29.3250                         |  | 50.7836                              | 0.6290                                       |
| 9/16/2017            |                   |                                  |                      |                          |                  | 261.3880                       | 29.5200                         |  | 50.7863                              | 0.3650                                       |
| 9/17/2017            |                   |                                  |                      |                          |                  | 261.4790                       | 29.5320                         |  | 50.7193                              | 4.9690                                       |
| 9/18/2017            |                   |                                  |                      |                          |                  | 261.5590                       | 30.1850                         |  | 50.7430                              | 0.5790                                       |
| 9/19/2017            |                   |                                  |                      |                          |                  | 261.5900                       | 30.0490                         |  | 50.6807                              | 0.6810                                       |
| 9/20/2017            |                   |                                  |                      |                          |                  | 261.4770                       | 30.0590                         |  | 50.6791                              | 0.3950                                       |
| 9/21/2017            |                   |                                  |                      |                          |                  | 261.8070                       | 30.9920                         |  | 50.6302                              | 0.4490                                       |
| 9/22/2017            |                   |                                  |                      |                          |                  | 262.3140                       | 31.1450                         |  | 50.7475                              | 0.4360                                       |
| 9/23/2017            |                   |                                  |                      |                          |                  | 262.2970                       | 32.6160                         |  | 50.4482                              | 0.4070                                       |
| 9/24/2017            |                   |                                  |                      |                          |                  | 261.6250                       | 30.7440                         |  | 50.5196                              | 0.3490                                       |
| 9/25/2017            |                   |                                  |                      |                          |                  | 261.5390                       | 29.7250                         |  | 50.6719                              | 0.3970                                       |
| 9/26/2017            |                   |                                  |                      |                          |                  | 261.8760                       | 30.9570                         |  | 50.5768                              | 0.3100                                       |
| 9/27/2017            |                   |                                  |                      |                          |                  | 261.8790                       | 30.4200                         |  | 50.5358                              | 0.4370                                       |
| 9/28/2017            |                   |                                  |                      |                          |                  | 260.6100                       | 27.7134                         |  | 50.4456                              | 0.1852                                       |
| 9/29/2017            |                   |                                  |                      |                          |                  | 260.8000                       | 28.2826                         |  | 50.3862                              | 0.1640                                       |
| 9/30/2017            |                   |                                  |                      |                          |                  | 260.6800                       | 28.2131                         |  | 50.3875                              | 0.1600                                       |

|               |  |  |  |  |  |          |         |  |  |        |
|---------------|--|--|--|--|--|----------|---------|--|--|--------|
| <b>Máximo</b> |  |  |  |  |  | 263.1060 | 34.7310 |  |  | 4.9690 |
|---------------|--|--|--|--|--|----------|---------|--|--|--------|

Observaciones:

**INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL**  
(Registros mínimos diarios)

PERMISIONARIO: TAG PIPELINES NORTE  
 PUNTO DE MEDICIÓN: EC LOS RAMONES NUEVA - 42" RAMONES NORTE  
 ZONA DE MEDICIÓN: RESTO DEL PAÍS



| FECHA:<br>(dd/mm/aa) | Metano<br>(% vol) | Bióxido de<br>Carbono<br>(% vol) | Nitrógeno<br>(% vol) | Total Inertes<br>(% vol) | Etano<br>(% vol) | Temperatura de<br>Rocio<br>(K) | Humedad<br>(mg/m <sup>3</sup> ) | Poder Calorífico<br>(MJ/m <sup>3</sup> ) | Índice Wobbe<br>(MJ/m <sup>3</sup> ) | Acido<br>Sulfhídrico<br>(mg/m <sup>3</sup> ) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|
| 9/1/2017             |                   |                                  |                      |                          |                  | 258.4610                       | 23.1440                         |  | 50.5753                              | 0.1470                                       |
| 9/2/2017             |                   |                                  |                      |                          |                  | 258.2500                       | 22.8590                         |  | 50.6353                              | 0.2000                                       |
| 9/3/2017             |                   |                                  |                      |                          |                  | 258.5460                       | 23.3110                         |  | 50.7011                              | 0.1760                                       |
| 9/4/2017             |                   |                                  |                      |                          |                  | 258.3190                       | 22.4980                         |  | 50.7933                              | 0.1800                                       |
| 9/5/2017             |                   |                                  |                      |                          |                  | 258.2670                       | 22.5000                         |  | 50.8592                              | 0.1810                                       |
| 9/6/2017             |                   |                                  |                      |                          |                  | 258.7050                       | 23.0710                         |  | 50.7624                              | 0.2120                                       |
| 9/7/2017             |                   |                                  |                      |                          |                  | 258.7750                       | 23.5620                         |  | 49.7624                              | 0.1340                                       |
| 9/8/2017             |                   |                                  |                      |                          |                  | 258.8250                       | 24.1260                         |  | 49.8874                              | 0.4050                                       |
| 9/9/2017             |                   |                                  |                      |                          |                  | 254.7610                       | 15.9090                         |  | 50.7073                              | 0.1490                                       |
| 9/10/2017            |                   |                                  |                      |                          |                  | 258.6170                       | 22.3340                         |  | 50.7947                              | 0.1450                                       |
| 9/11/2017            |                   |                                  |                      |                          |                  | 258.6560                       | 22.7000                         |  | 50.7313                              | 0.2000                                       |
| 9/12/2017            |                   |                                  |                      |                          |                  | 258.2630                       | 21.8530                         |  | 50.7240                              | 0.1620                                       |
| 9/13/2017            |                   |                                  |                      |                          |                  | 258.3830                       | 22.6220                         |  | 50.5324                              | 0.1510                                       |
| 9/14/2017            |                   |                                  |                      |                          |                  | 258.6150                       | 23.1440                         |  | 50.4811                              | 0.1730                                       |
| 9/15/2017            |                   |                                  |                      |                          |                  | 258.5730                       | 22.8810                         |  | 50.5889                              | 0.1500                                       |
| 9/16/2017            |                   |                                  |                      |                          |                  | 259.0050                       | 23.7740                         |  | 50.6046                              | 0.1860                                       |
| 9/17/2017            |                   |                                  |                      |                          |                  | 258.6390                       | 22.8110                         |  | 50.6127                              | 0.1840                                       |
| 9/18/2017            |                   |                                  |                      |                          |                  | 258.4420                       | 22.7320                         |  | 50.5968                              | 0.1580                                       |
| 9/19/2017            |                   |                                  |                      |                          |                  | 259.0900                       | 23.9500                         |  | 50.5594                              | 0.1530                                       |
| 9/20/2017            |                   |                                  |                      |                          |                  | 259.0590                       | 24.1350                         |  | 50.4927                              | 0.1610                                       |
| 9/21/2017            |                   |                                  |                      |                          |                  | 258.8330                       | 23.6610                         |  | 50.4448                              | 0.1730                                       |
| 9/22/2017            |                   |                                  |                      |                          |                  | 259.5610                       | 24.2900                         |  | 50.3555                              | 0.1480                                       |
| 9/23/2017            |                   |                                  |                      |                          |                  | 259.1020                       | 24.4270                         |  | 50.3211                              | 0.1870                                       |
| 9/24/2017            |                   |                                  |                      |                          |                  | 258.6170                       | 23.3900                         |  | 50.3285                              | 0.1260                                       |
| 9/25/2017            |                   |                                  |                      |                          |                  | 259.1760                       | 23.9900                         |  | 50.4059                              | 1.8730                                       |
| 9/26/2017            |                   |                                  |                      |                          |                  | 259.6340                       | 25.2750                         |  | 50.3535                              | 0.1340                                       |
| 9/27/2017            |                   |                                  |                      |                          |                  | 259.4750                       | 24.4720                         |  | 50.3214                              | 0.2040                                       |
| 9/28/2017            |                   |                                  |                      |                          |                  | 259.8900                       | 25.9673                         |  | 50.3949                              | 0.0863                                       |
| 9/29/2017            |                   |                                  |                      |                          |                  | 260.0800                       | 26.4876                         |  | 50.3475                              | 0.1683                                       |
| 9/30/2017            |                   |                                  |                      |                          |                  | 260.1100                       | 26.7780                         |  | 50.3446                              | 0.0819                                       |

|               |  |  |  |  |  |          |         |  |  |        |
|---------------|--|--|--|--|--|----------|---------|--|--|--------|
| <b>Mínimo</b> |  |  |  |  |  | 254.7610 | 15.9090 |  |  | 0.0819 |
|---------------|--|--|--|--|--|----------|---------|--|--|--------|

**Observaciones:**