

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: (dd/mm/aa) | Metano (% vol) | Bióxido de Carbono (% vol) | Nitrógeno (% vol) | Total Inertes (% vol) | Etano (% vol) | Temperatura de Rocio (K) | Humedad (mg/m ³) | Poder Calorífico (MJ/m ³) | Índice Wobbe (MJ/m ³) | Acido Sulfhídrico (mg/m ³) | Azufre total* (mg/m ³) | Oxígeno* (% vol) | |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|---------------------------------------|---------------------|---|
| 9/1/2018 | 95.7073 | 0.9813 | 0.3034 | 1.2847 | 2.7894 | 261.1820 | 30.0959 | 38.2723 | 50.1681 | 0.0009 | Menor a 10.8 | 0.0050 | 0 |
| 9/2/2018 | 95.6731 | 0.9818 | 0.3028 | 1.2846 | 2.8271 | 260.7860 | 29.0190 | 38.2780 | 50.1710 | 0.0143 | | | 0 |
| 9/3/2018 | 95.4153 | 0.9738 | 0.2564 | 1.2303 | 3.1339 | 260.6400 | 28.9767 | 38.2839 | 50.2053 | 0.0001 | | | 0 |
| 9/4/2018 | 95.3204 | 0.9400 | 0.2854 | 1.2254 | 3.2267 | 260.7200 | 28.8323 | 38.3387 | 50.2973 | 0.0143 | | | 0 |
| 9/5/2018 | 95.8960 | 0.9128 | 0.2654 | 1.1782 | 2.7341 | 260.2000 | 28.0390 | 38.2758 | 50.2349 | 0.2700 | | | 0 |
| 9/6/2018 | 95.2296 | 0.9768 | 0.2774 | 1.2542 | 3.2956 | 259.7300 | 26.7720 | 38.4260 | 50.2029 | 0.3310 | | | 0 |
| 9/7/2018 | 95.9473 | 0.9403 | 0.2928 | 1.2331 | 2.6265 | 260.2900 | 28.1786 | 38.2266 | 50.1748 | 0.2593 | | | 0 |
| 9/8/2018 | 96.2124 | 0.9216 | 0.2863 | 1.2080 | 2.3946 | 260.4800 | 28.5004 | 38.1669 | 50.1569 | 0.2383 | | | 0 |
| 9/9/2018 | 96.2524 | 0.9467 | 0.2767 | 1.2234 | 2.3303 | 260.2900 | 27.9711 | 38.1606 | 50.1397 | 0.2615 | | | 0 |
| 9/10/2018 | 96.2176 | 0.9888 | 0.2826 | 1.2714 | 2.3247 | 260.2500 | 27.7680 | 38.1235 | 50.0866 | 0.2890 | | | 0 |
| 9/11/2018 | 96.1415 | 0.9820 | 0.2976 | 1.2796 | 2.3922 | 260.2300 | 27.7990 | 38.1344 | 50.0908 | 0.2780 | | | 0 |
| 9/12/2018 | 96.3645 | 0.9931 | 0.2885 | 1.2816 | 2.1573 | 260.2400 | 27.5990 | 38.0752 | 50.0528 | 0.3060 | | | 0 |
| 9/13/2018 | 96.3105 | 1.0036 | 0.2833 | 1.2869 | 2.2096 | 259.9600 | 27.0200 | 38.0848 | 50.0536 | 0.3010 | | | 0 |
| 9/14/2018 | 96.3223 | 1.0189 | 0.2715 | 1.2904 | 2.2100 | 260.0140 | 27.2056 | 38.0717 | 50.0410 | 0.2843 | | | 0 |
| 9/15/2018 | 96.4746 | 1.0015 | 0.2752 | 1.2767 | 2.0706 | 260.1800 | 27.6697 | 38.0391 | 50.0324 | 0.2806 | | | 0 |
| 9/16/2018 | 95.3838 | 0.9671 | 0.2804 | 1.2475 | 3.1606 | 260.0800 | 27.2450 | 38.0585 | 50.0250 | 0.3009 | | | 0 |
| 9/17/2018 | 96.4634 | 0.9985 | 0.2680 | 1.2665 | 2.0913 | 260.5840 | 28.5360 | 38.0487 | 50.0436 | 0.2876 | | | 0 |
| 9/18/2018 | 96.4280 | 1.0165 | 0.2699 | 1.2864 | 2.1006 | 260.7530 | 29.1024 | 38.0493 | 50.0302 | 0.2451 | | | 0 |
| 9/19/2018 | 96.3524 | 1.0007 | 0.2909 | 1.2916 | 2.1687 | 260.5700 | 28.8492 | 38.0681 | 50.0425 | 0.2589 | | | 0 |
| 9/20/2018 | 96.4954 | 0.9530 | 0.2912 | 1.2442 | 2.1047 | 260.7670 | 29.2538 | 38.0465 | 50.0634 | 0.2474 | | | 0 |
| 9/21/2018 | 96.4893 | 0.9380 | 0.3007 | 1.2387 | 2.0939 | 260.8700 | 29.5870 | 38.0620 | 50.0783 | 0.2160 | | | 0 |
| 9/22/2018 | 96.4548 | 0.9154 | 0.2970 | 1.2123 | 2.1502 | 260.7300 | 29.1560 | 38.0920 | 50.1130 | 0.1790 | | | 0 |
| 9/23/2018 | 96.0659 | 0.9731 | 0.2780 | 1.2512 | 2.4983 | 260.6900 | 29.2040 | 38.1745 | 50.1290 | 0.2040 | | | 0 |
| 9/24/2018 | 96.4848 | 0.9681 | 0.2791 | 1.2472 | 2.0847 | 260.7300 | 29.1508 | 38.0578 | 50.0648 | 0.2240 | | | 0 |
| 9/25/2018 | 96.5346 | 0.9447 | 0.2922 | 1.2368 | 2.0486 | 260.7600 | 29.2529 | 38.0492 | 50.0701 | 0.2120 | | | 0 |
| 9/26/2018 | 96.3436 | 0.9658 | 0.2993 | 1.2650 | 2.2018 | 261.0200 | 29.6933 | 38.0954 | 50.0783 | 0.2664 | | | 0 |
| 9/27/2018 | 96.3998 | 0.9647 | 0.2754 | 1.2401 | 2.1839 | 260.5900 | 28.9816 | 38.0839 | 50.0838 | 0.2663 | | | 0 |
| 9/28/2018 | 96.3380 | 0.9559 | 0.2845 | 1.2404 | 2.2249 | 260.8110 | 28.2285 | 38.1093 | 50.1002 | 0.2634 | | | 0 |
| 9/29/2018 | 96.3611 | 0.9940 | 0.2763 | 1.2703 | 2.1714 | 260.4480 | 28.3334 | 38.0905 | 50.0667 | 0.2701 | | | 0 |
| 9/30/2018 | 96.4234 | 1.0142 | 0.2825 | 1.2966 | 2.0894 | 260.4890 | 28.5483 | 38.0501 | 50.0265 | 0.2278 | | | 0 |

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

| | | | | | | | | | | | | |
|------------|---------|--------|--------|--------|--------|----------|---------|---------|---------|--------|--------|--------|
| Mínimo | 95.2296 | 0.9128 | 0.2564 | 1.1782 | 2.0486 | 259.7300 | 26.7720 | 38.0391 | 50.0250 | 0.0001 | 0.0000 | 0.0050 |
| Promedio | 96.1501 | 0.9711 | 0.2837 | 1.2548 | 2.4032 | 260.5028 | 28.4856 | 38.1318 | 50.1019 | 0.2266 | | 0.0050 |
| Máximo | 96.5346 | 1.0189 | 0.3034 | 1.2966 | 3.2956 | 261.1820 | 30.0959 | 38.4260 | 50.2973 | 0.3310 | 0.0000 | 0.0050 |
| Desv. Est. | 0.3932 | 0.0296 | 0.0117 | 0.0292 | 0.3864 | 0.3357 | 0.8430 | 0.1012 | 0.0697 | 0.0934 | | |

Observaciones: N.D. Valor menor al minimo detectable

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

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ZONA DE MEDICIÓN: RESTO DEL PAÍS



| FECHA: (dd/mm/aa) | Metano (% vol) | Bióxido de Carbono (% vol) | Nitrógeno (% vol) | Total Inertes (% vol) | Etano (% vol) | Temperatura de Rocio (K) | Humedad (mg/m ³) | Poder Calorífico (MJ/m ³) | Índice Wobbe (MJ/m ³) | Acido Sulfhídrico (mg/m ³) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|
| 9/1/2018 | | | | | | 269.7709 | 63.6741 | | 50.2701 | 0.2595 |
| 9/2/2018 | | | | | | 269.1841 | 60.5491 | | 50.2284 | 0.1494 |
| 9/3/2018 | | | | | | 269.3800 | 62.2880 | | 50.2959 | 0.3371 |
| 9/4/2018 | | | | | | 269.1900 | 60.5429 | | 50.3957 | 0.1747 |
| 9/5/2018 | | | | | | 269.0500 | 60.9740 | | 50.3951 | 0.5270 |
| 9/6/2018 | | | | | | 268.9800 | 60.4360 | | 50.3362 | 0.6220 |
| 9/7/2018 | | | | | | 268.8900 | 59.9602 | | 50.3160 | 0.6984 |
| 9/8/2018 | | | | | | 269.3800 | 62.1694 | | 50.2660 | 0.4710 |
| 9/9/2018 | | | | | | 269.2400 | 61.3453 | | 50.2843 | 0.5915 |
| 9/10/2018 | | | | | | 269.8200 | 64.1700 | | 50.1483 | 0.6870 |
| 9/11/2018 | | | | | | 269.3000 | 61.5950 | | 50.1563 | 0.5190 |
| 9/12/2018 | | | | | | 267.3700 | 51.8340 | | 50.0990 | 0.6070 |
| 9/13/2018 | | | | | | 266.4300 | 47.9950 | | 50.1061 | 0.7640 |
| 9/14/2018 | | | | | | 269.0057 | 59.9684 | | 50.1002 | 0.6619 |
| 9/15/2018 | | | | | | 269.3900 | 62.0786 | | 50.0742 | 0.5110 |
| 9/16/2018 | | | | | | 263.0200 | 35.4788 | | 50.1110 | 0.6346 |
| 9/17/2018 | | | | | | 269.5152 | 62.3633 | | 50.1334 | 0.7355 |
| 9/18/2018 | | | | | | 269.4005 | 62.0301 | | 50.0928 | 0.6604 |
| 9/19/2018 | | | | | | 269.1448 | 61.1762 | | 50.1219 | 0.4649 |
| 9/20/2018 | | | | | | 266.9021 | 50.2994 | | 50.1215 | 0.5714 |
| 9/21/2018 | | | | | | 269.4900 | 62.8620 | | 50.1580 | 0.5160 |
| 9/22/2018 | | | | | | 269.470 | 62.6470 | | 50.1461 | 0.3780 |
| 9/23/2018 | | | | | | 262.6800 | 34.9130 | | 50.2130 | 0.4120 |
| 9/24/2018 | | | | | | 269.3800 | 62.1982 | | 50.1297 | 0.4633 |
| 9/25/2018 | | | | | | 266.4800 | 48.5585 | | 50.1368 | 0.5057 |
| 9/26/2018 | | | | | | 263.2600 | 36.2750 | | 50.2407 | 0.5582 |
| 9/27/2018 | | | | | | 266.5500 | 49.1247 | | 50.1934 | 0.4427 |
| 9/28/2018 | | | | | | 267.4246 | 50.5686 | | 50.2090 | 0.4649 |
| 9/29/2018 | | | | | | 266.0391 | 46.5360 | | 50.1710 | 0.4996 |
| 9/30/2018 | | | | | | 262.4990 | 34.2061 | | 50.1733 | 0.3874 |

| | | | | | | | | | | |
|---------------|--|--|--|--|--|----------|---------|--|---------|--------|
| Máximo | | | | | | 269.8200 | 64.1700 | | 50.3957 | 0.7640 |
|---------------|--|--|--|--|--|----------|---------|--|---------|--------|

Observaciones:

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|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|
| 9/1/2018 | | | | | | 253.4200 | 14.6298 | | 49.7403 | 0.1384 |
| 9/2/2018 | | | | | | 253.3260 | 14.4895 | | 50.1401 | 0.1170 |
| 9/3/2018 | | | | | | 252.8000 | 13.9285 | | 50.1274 | 0.1082 |
| 9/4/2018 | | | | | | 252.2100 | 13.0002 | | 49.7571 | 0.0801 |
| 9/5/2018 | | | | | | 252.7900 | 14.0270 | | 50.1209 | 0.1020 |
| 9/6/2018 | | | | | | 254.0100 | 15.7130 | | 50.2172 | 0.0790 |
| 9/7/2018 | | | | | | 253.2600 | 14.6277 | | 50.0712 | 0.1688 |
| 9/8/2018 | | | | | | 257.1200 | 20.9231 | | 50.1133 | 0.1600 |
| 9/9/2018 | | | | | | 252.3400 | 13.2797 | | 50.0716 | 0.1795 |
| 9/10/2018 | | | | | | 252.3200 | 13.2000 | | 49.2854 | 0.1450 |
| 9/11/2018 | | | | | | 252.0000 | 12.8460 | | 50.0515 | 0.0970 |
| 9/12/2018 | | | | | | 252.8600 | 13.8420 | | 50.0180 | 0.1100 |
| 9/13/2018 | | | | | | 254.1700 | 15.7630 | | 49.9910 | 0.1010 |
| 9/14/2018 | | | | | | 252.8500 | 13.9181 | | 49.9929 | 0.1515 |
| 9/15/2018 | | | | | | 252.1700 | 13.0570 | | 50.0011 | 0.1336 |
| 9/16/2018 | | | | | | 252.3000 | 13.1312 | | 49.9765 | 0.1554 |
| 9/17/2018 | | | | | | 254.0080 | 15.4879 | | 49.9777 | 0.1292 |
| 9/18/2018 | | | | | | 253.2700 | 14.4967 | | 49.9810 | 0.1293 |
| 9/19/2018 | | | | | | 259.4370 | 26.0222 | | 49.9914 | 0.1903 |
| 9/20/2018 | | | | | | 256.1410 | 19.1069 | | 50.0190 | 0.0000 |
| 9/21/2018 | | | | | | 252.9300 | 14.1100 | | 50.0191 | 0.1580 |
| 9/22/2018 | | | | | | 253.2700 | 14.5590 | | 50.0550 | 0.1250 |
| 9/23/2018 | | | | | | 258.6500 | 24.2570 | | 50.0016 | 0.1320 |
| 9/24/2018 | | | | | | 253.0500 | 14.2482 | | 50.0153 | 0.0528 |
| 9/25/2018 | | | | | | 253.0400 | 14.2523 | | 50.0250 | 0.1250 |
| 9/26/2018 | | | | | | 254.2600 | 15.8788 | | 50.0034 | 0.1419 |
| 9/27/2018 | | | | | | 256.3300 | 19.5721 | | 50.0216 | 0.1633 |
| 9/28/2018 | | | | | | 253.4300 | 14.2038 | | 50.0477 | 0.0510 |
| 9/29/2018 | | | | | | 254.2000 | 15.8571 | | 49.9661 | 0.1763 |
| 9/30/2018 | | | | | | 259.1740 | 25.3260 | | 49.9471 | 0.0586 |

| | | | | | | | | | | |
|---------------|--|--|--|--|--|----------|---------|--|---------|--------|
| Mínimo | | | | | | 252.0000 | 12.8460 | | 49.2854 | 0.0000 |
|---------------|--|--|--|--|--|----------|---------|--|---------|--------|

Observaciones: