

INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL

(Valores promedio diarios)



| | |
|---------------------------|---|
| PERMISIONARIO: | TERMINAL KMS DE GNL S. DE R.L DE C.V |
| PUNTO DE MEDICIÓN: | ESTACION DE MEDICION MANZANILLO |
| 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 Rocío (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) |
|----------------------|-------------------|----------------------------------|----------------------|-----------------------------|------------------|--------------------------------|---------------------------------|---|---|--|--|---------------------|
| 01/03/2016 | 96.6489 | 0.0000 | 0.0958 | 0.0958 | 3.1390 | 198.6609 | 3.7446 | 38.7212 | 51.2079 | 0.0000 | | |
| 02/03/2016 | 94.0618 | 0.0000 | 0.2775 | 0.2775 | 5.5492 | 204.9348 | 2.6232 | 39.3416 | 51.4772 | 0.0000 | | |
| 03/03/2016 | 89.8843 | 0.0000 | 0.5589 | 0.5589 | 9.4535 | 213.2588 | 1.5274 | 40.3506 | 51.9010 | 0.0000 | | |
| 04/03/2016 | 90.0576 | 0.0000 | 0.4951 | 0.4951 | 9.3432 | 213.5675 | 1.1554 | 40.3436 | 51.9202 | 0.0000 | | |
| 05/03/2016 | 90.9131 | 0.0000 | 0.4360 | 0.4360 | 8.5453 | 211.3538 | 2.4423 | 40.1378 | 51.8318 | 0.0000 | | |
| 06/03/2016 | 92.6184 | 0.0000 | 0.3153 | 0.3153 | 6.9573 | 209.7741 | 4.1590 | 39.7300 | 51.6637 | 0.0000 | | |
| 07/03/2016 | 93.2522 | 0.0000 | 0.2738 | 0.2738 | 6.3640 | 208.0863 | 4.6828 | 39.5759 | 51.5977 | 0.0000 | | |
| 08/03/2016 | 93.4252 | 0.0000 | 0.2470 | 0.2470 | 6.2166 | 206.5901 | 4.8960 | 39.5441 | 51.5937 | 0.0000 | | |
| 09/03/2016 | 93.4677 | 0.0000 | 0.2494 | 0.2494 | 6.1719 | 206.0791 | 5.0364 | 39.5305 | 51.5810 | 0.0000 | | |
| 10/03/2016 | 93.4867 | 0.0000 | 0.2881 | 0.2881 | 6.1154 | 205.8110 | 4.8145 | 39.4955 | 51.5470 | 0.0000 | | |
| 11/03/2016 | 93.4347 | 0.0000 | 0.2159 | 0.2159 | 6.2375 | 207.2533 | 4.8585 | 39.5624 | 51.6191 | 0.0000 | | |
| 12/03/2016 | 93.4295 | 0.0000 | 0.2078 | 0.2078 | 6.2505 | 206.4461 | 4.4885 | 39.5696 | 51.6247 | 0.0000 | | |
| 13/03/2016 | 93.4191 | 0.0000 | 0.1957 | 0.1957 | 6.2725 | 206.2719 | 4.9175 | 39.5805 | 51.6377 | 0.0000 | | |
| 14/03/2016 | 93.4060 | 0.0000 | 0.1851 | 0.1851 | 6.2957 | 206.3295 | 4.7080 | 39.5915 | 51.6480 | 0.0000 | | |
| 15/03/2016 | 91.9421 | 0.0000 | 0.3433 | 0.3433 | 7.6053 | 209.3786 | 3.4512 | 39.9053 | 51.7551 | 0.0000 | | |
| 16/03/2016 | 90.3836 | 0.0000 | 0.5721 | 0.5721 | 8.9406 | 213.2821 | 2.4623 | 40.1988 | 51.8086 | 0.0000 | | |
| 17/03/2016 | 90.5759 | 0.0000 | 0.4492 | 0.4492 | 8.8689 | 212.8472 | 2.6948 | 40.2268 | 51.8811 | 0.0000 | | |
| 18/03/2016 | 90.8463 | 0.0000 | 0.3825 | 0.3825 | 8.6639 | 211.6401 | 2.4492 | 40.1933 | 51.8911 | 0.0000 | | |
| 19/03/2016 | 90.3780 | 0.0000 | 0.5675 | 0.5675 | 8.9502 | 212.2848 | 1.9421 | 40.2219 | 51.8085 | 0.0000 | | |
| 20/03/2016 | 89.9583 | 0.0000 | 0.6348 | 0.6348 | 9.3037 | 215.7631 | 1.6521 | 40.2800 | 51.8279 | 0.0000 | | |
| 21/03/2016 | 90.2293 | 0.0000 | 0.5185 | 0.5185 | 9.1475 | 213.2837 | 1.8817 | 40.2783 | 51.8773 | 0.0000 | | |
| 22/03/2016 | 90.2214 | 0.0000 | 0.4979 | 0.4979 | 9.1756 | 212.6929 | 2.1227 | 40.2950 | 51.8953 | 0.0000 | | |
| 23/03/2016 | 90.1993 | 0.0000 | 0.4357 | 0.4357 | 9.2590 | 212.8960 | 1.9095 | 40.3433 | 51.9511 | 0.0000 | | |
| 24/03/2016 | 90.1923 | 0.0000 | 0.3959 | 0.3959 | 9.3052 | 213.0196 | 1.8466 | 40.3720 | 51.9426 | 0.0000 | | |
| 25/03/2016 | 90.1786 | 0.0000 | 0.3812 | 0.3812 | 9.3335 | 213.0709 | 1.6881 | 40.3855 | 51.9561 | 0.0000 | | |
| 26/03/2016 | 90.1730 | 0.0000 | 0.3619 | 0.3619 | 9.3581 | 213.1304 | 1.7803 | 40.4000 | 52.0151 | 0.0000 | | |
| 27/03/2016 | 90.1420 | 0.0000 | 0.3370 | 0.3370 | 9.4135 | 213.2578 | 1.7582 | 40.4257 | 52.0402 | 0.0000 | | |
| 28/03/2016 | 89.9256 | 0.0000 | 0.4456 | 0.4456 | 9.5166 | 213.4894 | 1.6974 | 40.4168 | 51.9815 | 0.0000 | | |
| 29/03/2016 | 89.7318 | 0.0000 | 0.5571 | 0.5571 | 9.5948 | 213.6662 | 1.4435 | 40.3995 | 51.9259 | 0.0000 | | |
| 30/03/2016 | 89.7536 | 0.0000 | 0.5059 | 0.5059 | 9.6238 | 213.7334 | 1.3074 | 40.4275 | 51.9655 | 0.0000 | | |
| 31/03/2016 | 89.7456 | 0.0000 | 0.4867 | 0.4867 | 9.6506 | 213.7972 | 1.3642 | 40.4425 | 51.9816 | 0.0000 | | |

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

| | | | | | | | | | | | | |
|------------------|------------|--------|------------|------------|------------|------------|------------|------------|-----------|--------|--|--|
| Mínimo | 89.7318 | 0.0000 | 0.0958 | 0.0958 | 3.1390 | 198.6609 | 1.1554 | 38.7212 | 51.2079 | 0.0000 | | |
| Promedio | 91.4865 | 0.0000 | 0.3843 | 0.3843 | 8.0201 | 210.5049 | 2.8228 | 40.0093 | 51.7857 | 0.0000 | | |
| Máximo | 96.6489 | 0.0000 | 0.6348 | 0.6348 | 9.6506 | 215.7631 | 5.0364 | 40.4425 | 52.0402 | 0.0000 | | |
| Dev. Est. | 1.81499912 | 0 | 0.13794566 | 0.13794566 | 1.69689144 | 3.86032649 | 1.36447798 | 0.44228907 | 0.1927438 | 0 | | |

Observaciones: No se detectaron desviaciones en la calidad química, y a su vez no se presentaron paros por emergencias operativas o por mantenimiento.

INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL

(Registros máximos diarios)



| | |
|---------------------------|---|
| PERMISIONARIO: | TERMINAL KMS DE GNL S. DE R.L DE C.V |
| PUNTO DE MEDICIÓN: | ESTACION DE MEDICION MANZANILLO |
| 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 Sulhídrico (mg/m ³) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|
| 01/03/2016 | 96.5582 | 0.0000 | 0.1469 | 0.1469 | 3.1776 | 198.7822 | 4.9305 | 38.7407 | 51.2233 | 0.0000 |
| 02/03/2016 | 90.5409 | 0.0000 | 0.5826 | 0.5826 | 8.7660 | 220.0954 | 4.8371 | 40.2986 | 51.8443 | 0.0000 |
| 03/03/2016 | 89.7931 | 0.0000 | 0.6194 | 0.6194 | 9.4837 | 213.4179 | 2.1029 | 40.3860 | 51.9502 | 0.0000 |
| 04/03/2016 | 89.9128 | 0.0000 | 0.5288 | 0.5288 | 9.4539 | 225.8801 | 1.9807 | 40.3891 | 51.9462 | 0.0000 |
| 05/03/2016 | 90.5941 | 0.0000 | 0.5094 | 0.5094 | 8.7901 | 213.0349 | 3.9629 | 40.2303 | 51.8791 | 0.0000 |
| 06/03/2016 | 91.9001 | 0.0000 | 0.3703 | 0.3703 | 7.6205 | 244.9760 | 5.2922 | 39.9234 | 51.7486 | 0.0000 |
| 07/03/2016 | 93.0832 | 0.0000 | 0.2873 | 0.2873 | 6.5193 | 241.6140 | 5.6689 | 39.6207 | 51.6164 | 0.0000 |
| 08/03/2016 | 93.3749 | 0.0000 | 0.2624 | 0.2624 | 6.2509 | 215.2023 | 5.9129 | 39.5549 | 51.6039 | 0.0000 |
| 09/03/2016 | 93.3912 | 0.0000 | 0.2811 | 0.2811 | 6.2156 | 207.6404 | 5.8547 | 39.5537 | 51.6106 | 0.0000 |
| 10/03/2016 | 93.2449 | 0.0000 | 0.2932 | 0.2932 | 6.3517 | 205.8576 | 5.8160 | 39.5006 | 51.5561 | 0.0000 |
| 11/03/2016 | 93.3734 | 0.0000 | 0.2724 | 0.2724 | 6.2419 | 231.8906 | 5.9694 | 39.5685 | 51.6248 | 0.0000 |
| 12/03/2016 | 93.4170 | 0.0000 | 0.2143 | 0.2143 | 6.2561 | 212.0063 | 5.9006 | 39.5758 | 51.6311 | 0.0000 |
| 13/03/2016 | 93.4004 | 0.0000 | 0.2058 | 0.2058 | 6.2806 | 206.3452 | 5.6517 | 39.5858 | 51.6463 | 0.0000 |
| 14/03/2016 | 93.3891 | 0.0000 | 0.1898 | 0.1898 | 6.3073 | 206.3763 | 5.8230 | 39.5970 | 51.6559 | 0.0000 |
| 15/03/2016 | 90.4536 | 0.0000 | 0.5523 | 0.5523 | 8.8839 | 212.8251 | 5.5803 | 40.2715 | 51.8572 | 0.0000 |
| 16/03/2016 | 90.1312 | 0.0000 | 0.6295 | 0.6295 | 9.1342 | 239.3526 | 3.3765 | 40.2732 | 51.8707 | 0.0000 |
| 17/03/2016 | 90.4766 | 0.0000 | 0.4756 | 0.4756 | 8.9413 | 229.8777 | 3.4654 | 40.2506 | 51.8897 | 0.0000 |
| 18/03/2016 | 90.8239 | 0.0000 | 0.3975 | 0.3975 | 8.6709 | 211.6610 | 3.2908 | 40.1995 | 51.8981 | 0.0000 |
| 19/03/2016 | 89.9573 | 0.0000 | 0.7513 | 0.7513 | 9.1848 | 212.8801 | 3.2267 | 40.5006 | 51.9068 | 0.0000 |
| 20/03/2016 | 89.8915 | 0.0000 | 0.6956 | 0.6956 | 9.3091 | 248.7144 | 2.5938 | 40.2882 | 51.8525 | 0.0000 |
| 21/03/2016 | 90.1266 | 0.0000 | 0.5581 | 0.5581 | 9.2105 | 228.6058 | 2.9445 | 40.2845 | 51.8924 | 0.0000 |
| 22/03/2016 | 90.2071 | 0.0000 | 0.5064 | 0.5064 | 9.1812 | 212.7501 | 2.9795 | 40.2997 | 51.9089 | 0.0000 |
| 23/03/2016 | 90.1284 | 0.0000 | 0.4866 | 0.4866 | 9.2786 | 212.9747 | 3.0876 | 40.3585 | 51.9733 | 0.0000 |
| 24/03/2016 | 90.1717 | 0.0000 | 0.4095 | 0.4095 | 9.3119 | 213.3043 | 2.8181 | 40.3801 | 51.9972 | 0.0000 |
| 25/03/2016 | 90.1630 | 0.0000 | 0.3910 | 0.3910 | 9.3389 | 213.1010 | 2.9498 | 40.3916 | 52.0094 | 0.0000 |
| 26/03/2016 | 90.1479 | 0.0000 | 0.3718 | 0.3718 | 9.3731 | 213.1838 | 2.7273 | 40.4104 | 52.0288 | 0.0000 |
| 27/03/2016 | 90.1132 | 0.0000 | 0.3532 | 0.3532 | 9.4257 | 213.2898 | 2.3925 | 40.4366 | 52.0504 | 0.0000 |
| 28/03/2016 | 89.7619 | 0.0000 | 0.5775 | 0.5775 | 9.5437 | 213.6339 | 2.5033 | 40.4545 | 52.0809 | 0.0000 |
| 29/03/2016 | 89.7056 | 0.0000 | 0.5729 | 0.5729 | 9.6049 | 213.9259 | 2.3671 | 40.4088 | 51.9409 | 0.0000 |
| 30/03/2016 | 89.7162 | 0.0000 | 0.5347 | 0.5347 | 9.6320 | 213.7637 | 2.3959 | 40.4362 | 51.9790 | 0.0000 |
| 31/03/2016 | 89.7186 | 0.0000 | 0.5015 | 0.5015 | 9.6625 | 213.8397 | 2.3000 | 40.4520 | 51.9949 | 0.0000 |
| Máximo | 96.5582 | 0.0000 | 0.7513 | 0.7513 | 9.6625 | 248.7144 | 5.9694 | 40.5006 | 52.0809 | 0.0000 |

Observaciones: No se detectaron desviaciones en la calidad química, y a su vez no se presentaron paros por emergencias operativas o por mantenimiento.

INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL

(Registros mínimos diarios)



PERMISIONARIO: **TERMINAL KMS DE GNL S. DE R.L DE C.V**
PUNTO DE MEDICIÓN: **ESTACION DE MEDICION MANZANILLO**
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) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|---|
| 01/03/2016 | 96.9050 | 0.0000 | 0.0858 | 0.0858 | 2.8991 | 197.9333 | 2.5458 | 38.6260 | 51.1231 | 0.0000 |
| 02/03/2016 | 96.3919 | 0.0000 | 0.0944 | 0.0944 | 3.4044 | 198.7077 | 0.3790 | 38.7290 | 51.1397 | 0.0000 |
| 03/03/2016 | 89.9846 | 0.0000 | 0.5074 | 0.5074 | 9.4057 | 213.1600 | 0.1673 | 40.3087 | 51.8578 | 0.0000 |
| 04/03/2016 | 90.4503 | 0.0000 | 0.4776 | 0.4776 | 8.9695 | 212.0939 | 0.1844 | 40.2079 | 51.8329 | 0.0000 |
| 05/03/2016 | 91.6476 | 0.0000 | 0.3846 | 0.3846 | 7.8631 | 209.4846 | 0.3815 | 39.9357 | 51.7404 | 0.0000 |
| 06/03/2016 | 92.9454 | 0.0000 | 0.2955 | 0.2955 | 6.6507 | 206.8869 | 2.6550 | 39.6275 | 51.6171 | 0.0000 |
| 07/03/2016 | 93.3815 | 0.0000 | 0.2639 | 0.2639 | 6.2448 | 206.0940 | 3.5992 | 39.5401 | 51.5814 | 0.0000 |
| 08/03/2016 | 93.4505 | 0.0000 | 0.2389 | 0.2389 | 6.2003 | 206.0451 | 3.4791 | 39.5354 | 51.5794 | 0.0000 |
| 09/03/2016 | 93.5553 | 0.0000 | 0.2283 | 0.2283 | 6.1066 | 205.7877 | 3.9366 | 39.4965 | 51.4591 | 0.0000 |
| 10/03/2016 | 93.5137 | 0.0000 | 0.2832 | 0.2832 | 6.0940 | 205.7368 | 3.9552 | 39.4843 | 51.5345 | 0.0000 |
| 11/03/2016 | 93.5448 | 0.0000 | 0.2097 | 0.2097 | 6.1354 | 206.1483 | 3.7509 | 39.5084 | 51.6116 | 0.0000 |
| 12/03/2016 | 93.4414 | 0.0000 | 0.2034 | 0.2034 | 6.2433 | 206.1725 | 3.3790 | 39.5644 | 51.6177 | 0.0000 |
| 13/03/2016 | 93.4498 | 0.0000 | 0.1898 | 0.1898 | 6.2485 | 206.2055 | 3.4233 | 39.5687 | 51.6263 | 0.0000 |
| 14/03/2016 | 93.4220 | 0.0000 | 0.1804 | 0.1804 | 6.2850 | 206.2866 | 3.3335 | 39.5868 | 51.6407 | 0.0000 |
| 15/03/2016 | 93.2014 | 0.0000 | 0.1754 | 0.1754 | 6.5156 | 206.3306 | 0.8056 | 39.5936 | 51.6523 | 0.0000 |
| 16/03/2016 | 90.5103 | 0.0000 | 0.4799 | 0.4799 | 8.9067 | 211.9586 | 1.2964 | 40.1781 | 51.7762 | 0.0000 |
| 17/03/2016 | 90.7943 | 0.0000 | 0.3998 | 0.3998 | 8.6999 | 211.6228 | 1.4345 | 40.1870 | 51.8699 | 0.0000 |
| 18/03/2016 | 90.8609 | 0.0000 | 0.3734 | 0.3734 | 8.6588 | 211.6139 | 1.5245 | 40.1865 | 51.8792 | 0.0000 |
| 19/03/2016 | 91.1586 | 0.0000 | 0.3696 | 0.3696 | 8.3684 | 211.5982 | 0.2466 | 40.1863 | 51.7380 | 0.0000 |
| 20/03/2016 | 90.1079 | 0.0000 | 0.5737 | 0.5737 | 9.2156 | 212.6731 | 0.5860 | 40.2539 | 51.8096 | 0.0000 |
| 21/03/2016 | 90.2497 | 0.0000 | 0.5066 | 0.5066 | 9.1395 | 212.5696 | 0.6906 | 40.2710 | 51.8572 | 0.0000 |
| 22/03/2016 | 90.2403 | 0.0000 | 0.4878 | 0.4878 | 9.1670 | 212.6553 | 0.9953 | 40.2883 | 51.8852 | 0.0000 |
| 23/03/2016 | 90.2711 | 0.0000 | 0.4159 | 0.4159 | 9.2076 | 212.7545 | 0.6945 | 40.3060 | 51.9087 | 0.0000 |
| 24/03/2016 | 90.2163 | 0.0000 | 0.3810 | 0.3810 | 9.2963 | 212.9653 | 0.9592 | 40.3630 | 51.0011 | 0.0000 |
| 25/03/2016 | 90.2023 | 0.0000 | 0.3698 | 0.3698 | 9.3215 | 213.0344 | 0.5523 | 40.3777 | 51.0002 | 0.0000 |
| 26/03/2016 | 90.2019 | 0.0000 | 0.3489 | 0.3489 | 9.3424 | 213.0832 | 0.2552 | 40.3906 | 52.0034 | 0.0000 |
| 27/03/2016 | 90.1807 | 0.0000 | 0.3244 | 0.3244 | 9.3878 | 213.1980 | 0.7010 | 40.4104 | 52.0241 | 0.0000 |
| 28/03/2016 | 90.1114 | 0.0000 | 0.3064 | 0.3064 | 9.4751 | 213.3093 | 0.1418 | 40.3851 | 51.8625 | 0.0000 |
| 29/03/2016 | 89.7567 | 0.0000 | 0.5431 | 0.5431 | 9.5842 | 213.6165 | 0.1452 | 40.3903 | 51.9079 | 0.0000 |
| 30/03/2016 | 89.7747 | 0.0000 | 0.4909 | 0.4909 | 9.6179 | 213.7002 | 0.3882 | 40.4133 | 51.9444 | 0.0000 |
| 31/03/2016 | 89.7718 | 0.0000 | 0.4733 | 0.4733 | 9.6380 | 213.7472 | 0.1070 | 40.4324 | 51.9687 | 0.0000 |
| Mínimo | 89.7567 | 0.0000 | 0.0858 | 0.0858 | 2.8991 | 197.9333 | 0.1070 | 38.6260 | 51.0002 | 0.0000 |

Observaciones: No se detectaron desviaciones en la calidad química, y a su vez no se presentaron paros por emergencias operativas o por mantenimiento.