

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) |
|----------------------|-------------------|-------------------------------|----------------------|--------------------------|------------------|-----------------------------|---------------------------------|--|--------------------------------------|---|---------------------------------------|---------------------|
| 01/11/2015 | 90.0193 | 0.0000 | 0.3971 | 0.3971 | 9.3865 | 214.3481 | 2.9885 | 40.4528 | 52.0261 | 0.0000 | | |
| 02/11/2015 | 90.0351 | 0.0000 | 0.4148 | 0.4148 | 9.3548 | 214.2365 | 3.0220 | 40.4366 | 52.0123 | 0.0000 | | |
| 03/11/2015 | 90.0095 | 0.0000 | 0.3833 | 0.3833 | 9.4152 | 214.5671 | 3.9233 | 40.4659 | 52.0409 | 0.0000 | | |
| 04/11/2015 | 90.0045 | 0.0000 | 0.3806 | 0.3806 | 9.4188 | 214.2483 | 3.9302 | 40.4674 | 52.0430 | 0.0000 | | |
| 05/11/2015 | 90.0031 | 0.0000 | 0.3675 | 0.3675 | 9.4334 | 214.4388 | 3.9302 | 40.4768 | 52.0539 | 0.0000 | | |
| 06/11/2015 | 90.0056 | 0.0000 | 0.3424 | 0.3424 | 9.4536 | 215.4279 | 3.9302 | 40.4940 | 52.0746 | 0.0000 | | |
| 07/11/2015 | 89.9988 | 0.0000 | 0.3330 | 0.3330 | 9.4689 | 215.2783 | 2.6684 | 40.5234 | 52.0884 | 0.0000 | | |
| 08/11/2015 | 89.9897 | 0.0000 | 0.3253 | 0.3253 | 9.4849 | 214.5133 | 2.5797 | 40.5112 | 52.0903 | 0.0000 | | |
| 09/11/2015 | 89.9440 | 0.0000 | 0.4155 | 0.4155 | 9.4725 | 214.4255 | 2.6782 | 40.4529 | 52.0194 | 0.0000 | | |
| 10/11/2015 | 89.8466 | 0.0000 | 0.4673 | 0.4673 | 9.5560 | 213.8067 | 3.3075 | 40.4331 | 51.9842 | 0.0000 | | |
| 11/11/2015 | 89.8699 | 0.0000 | 0.4740 | 0.4740 | 9.5265 | 216.5239 | 3.1398 | 40.4219 | 51.9742 | 0.0000 | | |
| 12/11/2015 | 89.8766 | 0.0000 | 0.5250 | 0.5250 | 9.4695 | 213.7416 | 2.9133 | 40.3840 | 51.9295 | 0.0000 | | |
| 13/11/2015 | 89.8635 | 0.0000 | 0.4694 | 0.4694 | 9.5373 | 214.2258 | 2.5832 | 40.4313 | 51.9820 | 0.0000 | | |
| 14/11/2015 | 89.8354 | 0.0000 | 0.3965 | 0.3965 | 9.6366 | 216.6550 | 2.6468 | 40.4844 | 52.0471 | 0.0000 | | |
| 15/11/2015 | 89.8288 | 0.0000 | 0.3693 | 0.3693 | 9.6700 | 215.4956 | 2.5819 | 40.5049 | 52.0683 | 0.0000 | | |
| 16/11/2015 | 89.7795 | 0.0000 | 0.4560 | 0.4560 | 9.6464 | 217.6903 | 2.7562 | 40.4559 | 51.9983 | 0.0000 | | |
| 17/11/2015 | 89.7145 | 0.0000 | 0.6378 | 0.6378 | 9.5488 | 214.2098 | 2.7348 | 40.3476 | 51.8607 | 0.0000 | | |
| 18/11/2015 | 89.7157 | 0.0000 | 0.5569 | 0.5569 | 9.6276 | 216.1327 | 2.4937 | 40.4013 | 51.9283 | 0.0000 | | |
| 19/11/2015 | 89.7227 | 0.0000 | 0.5211 | 0.5211 | 9.6562 | 214.8230 | 4.8221 | 40.4225 | 51.9567 | 0.0000 | | |
| 20/11/2015 | 89.7035 | 0.0000 | 0.4886 | 0.4886 | 9.7074 | 216.5714 | 2.5917 | 40.4500 | 51.9868 | 0.0000 | | |
| 21/11/2015 | 89.7018 | 0.0000 | 0.4589 | 0.4589 | 9.7385 | 215.9106 | 2.4743 | 40.4701 | 52.0099 | 0.0000 | | |
| 22/11/2015 | 89.7084 | 0.0000 | 0.4558 | 0.4558 | 9.7350 | 214.9113 | 2.4251 | 40.4715 | 52.0095 | 0.0000 | | |
| 23/11/2015 | 89.7238 | 0.0000 | 0.4409 | 0.4409 | 9.7345 | 215.3474 | 2.6534 | 40.4757 | 52.0211 | 0.0000 | | |
| 24/11/2015 | 89.6905 | 0.0000 | 0.4021 | 0.4021 | 9.8058 | 215.5767 | 2.4650 | 40.5126 | 52.0606 | 0.0000 | | |
| 25/11/2015 | 89.6370 | 0.0000 | 0.3562 | 0.3562 | 9.9040 | 215.3435 | 2.3924 | 40.5580 | 52.1056 | 0.0000 | | |
| 26/11/2015 | 89.6390 | 0.0000 | 0.3991 | 0.3991 | 9.8643 | 214.4633 | 2.5744 | 40.5270 | 52.1038 | 0.0000 | | |
| 27/11/2015 | 89.7125 | 0.0000 | 0.6617 | 0.6617 | 9.5377 | 213.3031 | 2.6148 | 40.3247 | 51.8412 | 0.0000 | | |
| 28/11/2015 | 89.7002 | 0.0000 | 0.5911 | 0.5911 | 9.6198 | 214.1979 | 2.6004 | 40.3785 | 51.8966 | 0.0000 | | |
| 29/11/2015 | 89.6919 | 0.0000 | 0.6716 | 0.6716 | 9.5491 | 214.9833 | 2.7314 | 40.3270 | 51.8310 | 0.0000 | | |
| 30/11/2015 | 89.7236 | 0.0000 | 0.6959 | 0.6959 | 9.4942 | 213.2961 | 2.7530 | 40.3011 | 51.8104 | 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 | 89.6370 | 0.0000 | 0.3253 | 0.3253 | 9.3548 | 213.2961 | 2.3924 | 40.3011 | 51.8104 | 0.0000 | | |
| Promedio | 89.8232 | 0.0000 | 0.4618 | 0.4618 | 9.5818 | 214.9564 | 2.9302 | 40.4455 | 51.9952 | 0.0000 | | |
| Máximo | 90.0351 | 0.0000 | 0.6959 | 0.6959 | 9.9040 | 217.6903 | 4.8221 | 40.5580 | 52.1056 | 0.0000 | | |
| Dev. Est. | 0.13458798 | 0 | 0.10433026 | 0.10433026 | 0.142819 | 1.04267783 | 0.59206032 | 0.06343563 | 0.08196176 | 0 | | |

Observaciones: No se detectaron desviaciones en la calidad química y a su vez no se presentarán 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) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|
| 01/11/2015 | 89.9766 | 0.0000 | 0.4077 | 0.4077 | 9.3922 | 215.7497 | 3.8722 | 40.4609 | 52.0335 | 0.0000 |
| 02/11/2015 | 89.9503 | 0.0000 | 0.4532 | 0.4532 | 9.3998 | 215.9552 | 3.9437 | 40.4642 | 52.0420 | 0.0000 |
| 03/11/2015 | 89.9889 | 0.0000 | 0.3899 | 0.3899 | 9.4235 | 221.9861 | 4.6096 | 40.4710 | 52.0548 | 0.0000 |
| 04/11/2015 | 89.9845 | 0.0000 | 0.3874 | 0.3874 | 9.4310 | 214.3260 | 3.9302 | 40.4740 | 52.0530 | 0.0000 |
| 05/11/2015 | 89.9917 | 0.0000 | 0.3730 | 0.3730 | 9.4386 | 218.2388 | 3.9302 | 40.4796 | 52.0614 | 0.0000 |
| 06/11/2015 | 89.9705 | 0.0000 | 0.3665 | 0.3665 | 9.4638 | 240.2042 | 3.9302 | 40.5025 | 52.0922 | 0.0000 |
| 07/11/2015 | 89.8839 | 0.0000 | 0.4443 | 0.4443 | 9.4720 | 229.7699 | 3.8559 | 40.9492 | 52.0974 | 0.0000 |
| 08/11/2015 | 89.9058 | 0.0000 | 0.3946 | 0.3946 | 9.4986 | 215.4361 | 3.7361 | 40.5271 | 52.1094 | 0.0000 |
| 09/11/2015 | 89.7853 | 0.0000 | 0.5040 | 0.5040 | 9.5110 | 220.1769 | 3.8929 | 40.5029 | 52.1003 | 0.0000 |
| 10/11/2015 | 89.8270 | 0.0000 | 0.4784 | 0.4784 | 9.5642 | 213.8508 | 5.6514 | 40.4407 | 51.9950 | 0.0000 |
| 11/11/2015 | 89.7674 | 0.0000 | 0.5595 | 0.5595 | 9.5429 | 240.7155 | 4.9807 | 40.4425 | 52.0051 | 0.0000 |
| 12/11/2015 | 89.8566 | 0.0000 | 0.5389 | 0.5389 | 9.4753 | 216.4348 | 4.8404 | 40.3941 | 51.9413 | 0.0000 |
| 13/11/2015 | 89.7925 | 0.0000 | 0.5161 | 0.5161 | 9.5610 | 220.8598 | 3.5919 | 40.5207 | 52.0078 | 0.0000 |
| 14/11/2015 | 89.7706 | 0.0000 | 0.4467 | 0.4467 | 9.6507 | 241.6708 | 3.7636 | 40.4957 | 52.0652 | 0.0000 |
| 15/11/2015 | 89.7826 | 0.0000 | 0.4052 | 0.4052 | 9.6799 | 244.8246 | 3.6583 | 40.5156 | 52.0795 | 0.0000 |
| 16/11/2015 | 89.5535 | 0.0000 | 0.6290 | 0.6290 | 9.6852 | 246.4832 | 3.7167 | 40.5342 | 52.1228 | 0.0000 |
| 17/11/2015 | 89.6330 | 0.0000 | 0.6804 | 0.6804 | 9.5868 | 226.1713 | 3.7256 | 40.3801 | 51.8964 | 0.0000 |
| 18/11/2015 | 89.6495 | 0.0000 | 0.6096 | 0.6096 | 9.6409 | 242.3723 | 3.4288 | 40.4168 | 51.9516 | 0.0000 |
| 19/11/2015 | 89.6930 | 0.0000 | 0.5347 | 0.5347 | 9.6718 | 223.7376 | 6.2862 | 40.4339 | 51.9729 | 0.0000 |
| 20/11/2015 | 89.6797 | 0.0000 | 0.5030 | 0.5030 | 9.7166 | 249.4242 | 4.7641 | 40.4598 | 52.0076 | 0.0000 |
| 21/11/2015 | 89.6545 | 0.0000 | 0.4761 | 0.4761 | 9.7681 | 248.8167 | 3.3688 | 40.4860 | 52.0298 | 0.0000 |
| 22/11/2015 | 89.5900 | 0.0000 | 0.4735 | 0.4735 | 9.8346 | 226.7355 | 3.5022 | 40.5317 | 52.0784 | 0.0000 |
| 23/11/2015 | 89.5663 | 0.0000 | 0.5057 | 0.5057 | 9.8259 | 232.2406 | 3.7008 | 40.5296 | 52.0755 | 0.0000 |
| 24/11/2015 | 89.6190 | 0.0000 | 0.4368 | 0.4368 | 9.8423 | 231.6724 | 3.6399 | 40.5339 | 52.0850 | 0.0000 |
| 25/11/2015 | 89.4842 | 0.0000 | 0.3808 | 0.3808 | 10.0309 | 226.8629 | 3.3761 | 40.6315 | 52.1894 | 0.0000 |
| 26/11/2015 | 89.2900 | 0.0000 | 0.6006 | 0.6006 | 10.0056 | 219.2833 | 3.3985 | 40.6306 | 52.9804 | 0.0000 |
| 27/11/2015 | 89.6210 | 0.0000 | 0.7126 | 0.7126 | 9.5776 | 213.4827 | 3.5545 | 40.3608 | 51.8996 | 0.0000 |
| 28/11/2015 | 89.6376 | 0.0000 | 0.6346 | 0.6346 | 9.6385 | 221.8222 | 3.5918 | 40.3947 | 51.9198 | 0.0000 |
| 29/11/2015 | 89.5048 | 0.0000 | 0.7776 | 0.7776 | 9.6285 | 241.0803 | 3.6223 | 40.4151 | 52.0073 | 0.0000 |
| 30/11/2015 | 89.6558 | 0.0000 | 0.7437 | 0.7437 | 9.5140 | 214.8754 | 3.7783 | 40.3236 | 51.8467 | 0.0000 |
| Máximo | 89.9917 | 0.0000 | 0.7776 | 0.7776 | 10.0309 | 249.4242 | 6.2862 | 40.9492 | 52.9804 | 0.0000 |

Observaciones: **No se detectarán desviaciones en la calidad química y a su vez no se presentarán 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) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|---|
| 01/11/2015 | 90.0418 | 0.0000 | 0.3899 | 0.3899 | 9.3729 | 214.1167 | 1.8433 | 40.4436 | 52.0162 | 0.0000 |
| 02/11/2015 | 90.1028 | 0.0000 | 0.3875 | 0.3875 | 9.3170 | 213.9863 | 1.8421 | 40.4067 | 51.9731 | 0.0000 |
| 03/11/2015 | 90.1069 | 0.0000 | 0.3784 | 0.3784 | 9.4169 | 214.1929 | 2.5949 | 40.4600 | 52.0332 | 0.0000 |
| 04/11/2015 | 90.0227 | 0.0000 | 0.3747 | 0.3747 | 9.4072 | 214.2060 | 3.9302 | 40.4576 | 52.0341 | 0.0000 |
| 05/11/2015 | 90.0115 | 0.0000 | 0.3649 | 0.3649 | 9.4282 | 214.2360 | 3.9302 | 40.4728 | 52.0411 | 0.0000 |
| 06/11/2015 | 90.0325 | 0.0000 | 0.3356 | 0.3356 | 9.4352 | 214.2363 | 3.9302 | 40.4769 | 52.0464 | 0.0000 |
| 07/11/2015 | 90.0298 | 0.0000 | 0.3193 | 0.3193 | 9.4565 | 214.3550 | 1.4262 | 40.4965 | 52.0776 | 0.0000 |
| 08/11/2015 | 90.1106 | 0.0000 | 0.3076 | 0.3076 | 9.3853 | 214.0962 | 1.5937 | 40.4513 | 52.0130 | 0.0000 |
| 09/11/2015 | 90.1112 | 0.0000 | 0.3378 | 0.3378 | 9.4208 | 213.7127 | 1.5134 | 40.4110 | 51.9489 | 0.0000 |
| 10/11/2015 | 89.8731 | 0.0000 | 0.4530 | 0.4530 | 9.5440 | 213.7730 | 1.4144 | 40.4239 | 51.9737 | 0.0000 |
| 11/11/2015 | 89.9999 | 0.0000 | 0.4476 | 0.4476 | 9.4244 | 213.4193 | 1.5521 | 40.3538 | 51.8911 | 0.0000 |
| 12/11/2015 | 89.9856 | 0.0000 | 0.4189 | 0.4189 | 9.4668 | 213.5630 | 1.5750 | 40.3750 | 51.9188 | 0.0000 |
| 13/11/2015 | 89.9282 | 0.0000 | 0.4473 | 0.4473 | 9.4983 | 213.6460 | 1.5587 | 40.3945 | 51.9443 | 0.0000 |
| 14/11/2015 | 89.9147 | 0.0000 | 0.3827 | 0.3827 | 9.5722 | 213.8264 | 1.6004 | 40.4455 | 52.0002 | 0.0000 |
| 15/11/2015 | 89.9050 | 0.0000 | 0.3579 | 0.3579 | 9.6069 | 213.8931 | 1.5518 | 40.4704 | 52.0309 | 0.0000 |
| 16/11/2015 | 89.9872 | 0.0000 | 0.3313 | 0.3313 | 9.5822 | 213.2867 | 1.4597 | 40.3507 | 51.8171 | 0.0000 |
| 17/11/2015 | 89.7977 | 0.0000 | 0.5952 | 0.5952 | 9.5088 | 213.3427 | 1.6350 | 40.3160 | 51.8299 | 0.0000 |
| 18/11/2015 | 89.7794 | 0.0000 | 0.5351 | 0.5351 | 9.5862 | 213.5857 | 1.5401 | 40.3675 | 51.9011 | 0.0000 |
| 19/11/2015 | 89.7474 | 0.0000 | 0.5052 | 0.5052 | 9.6476 | 213.6609 | 1.6832 | 40.4143 | 51.9379 | 0.0000 |
| 20/11/2015 | 89.7342 | 0.0000 | 0.4744 | 0.4744 | 9.6911 | 213.2032 | 1.3542 | 40.4392 | 51.9700 | 0.0000 |
| 21/11/2015 | 89.7319 | 0.0000 | 0.4451 | 0.4451 | 9.7224 | 213.8080 | 1.2912 | 40.4574 | 51.9931 | 0.0000 |
| 22/11/2015 | 89.8508 | 0.0000 | 0.3850 | 0.3850 | 9.6638 | 213.6953 | 1.2816 | 40.4499 | 51.9534 | 0.0000 |
| 23/11/2015 | 89.8600 | 0.0000 | 0.3870 | 0.3870 | 9.6531 | 213.6099 | 1.3776 | 40.4205 | 51.9480 | 0.0000 |
| 24/11/2015 | 89.7993 | 0.0000 | 0.3788 | 0.3788 | 9.7209 | 213.8513 | 1.3083 | 40.4811 | 52.0101 | 0.0000 |
| 25/11/2015 | 89.7591 | 0.0000 | 0.2789 | 0.2789 | 9.8599 | 214.1249 | 1.2095 | 40.5286 | 52.0757 | 0.0000 |
| 26/11/2015 | 89.9947 | 0.0000 | 0.2763 | 0.2763 | 9.6400 | 213.3839 | 1.2183 | 40.3659 | 51.8757 | 0.0000 |
| 27/11/2015 | 89.8168 | 0.0000 | 0.6169 | 0.6169 | 9.4788 | 213.1333 | 1.4774 | 40.2197 | 51.7917 | 0.0000 |
| 28/11/2015 | 89.7653 | 0.0000 | 0.5681 | 0.5681 | 9.5782 | 213.3621 | 1.5557 | 40.3474 | 51.8594 | 0.0000 |
| 29/11/2015 | 89.9125 | 0.0000 | 0.5194 | 0.5194 | 9.4822 | 213.0485 | 1.3702 | 40.2580 | 51.7348 | 0.0000 |
| 30/11/2015 | 89.7780 | 0.0000 | 0.6580 | 0.6580 | 9.4780 | 213.1004 | 1.4801 | 40.2760 | 51.7673 | 0.0000 |

| | | | | | | | | | | |
|---------------|---------|--------|--------|--------|--------|----------|--------|---------|---------|--------|
| Mínimo | 89.7319 | 0.0000 | 0.2763 | 0.2763 | 9.3170 | 213.0485 | 1.2095 | 40.2197 | 51.7348 | 0.0000 |
|---------------|---------|--------|--------|--------|--------|----------|--------|---------|---------|--------|

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