



Terminal
de LNG
de Altamira

ANEXO “A”

**INFORME MENSUAL SOBRE LA CALIDAD DEL GAS NATURAL EN LOS PUNTOS
DE INYECCIÓN CORRESPONDIENTE AL MES DE DICIEMBRE 2018 PARA EL
PERMISIONARIO TERMINAL DE LNG DE ALTAMIRA S. DE R.L. DE C.V.**

TLA-CRE-01-2019
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INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL
(Valores promedio diarios)



PERMISIONARIO: Terminal de LNG de Altamira S. de R.L. de C.V.
 PUNTO DE MEDICIÓN: RESTO DEL PAÍS
 ZONA DE MEDICIÓN: PEMEX

| 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) |
|-------------------|----------------|----------------------------|-------------------|-----------------------|---------------|--------------------------|------------------------------|---------------------------------------|-----------------------------------|--|------------------------------------|------------------|
| 01/12/2018 | 91.1731 | 0.0000 | 0.0101 | 0.0101 | 5.7965 | 236.5759 | 3.3683 | 41.3268 | 52.6871 | 0.6285 | 1.0000 | 0.0050 |
| 02/12/2018 | 91.4889 | 0.0000 | 0.0155 | 0.0155 | 5.5883 | 235.5629 | 3.0213 | 41.1946 | 52.6130 | 0.6115 | | |
| 03/12/2018 | 91.0838 | 0.0000 | 0.0083 | 0.0083 | 5.8545 | 236.8967 | 2.8100 | 41.3653 | 52.7087 | 0.7170 | | |
| 04/12/2018 | 91.1896 | 0.0000 | 0.0102 | 0.0102 | 5.7847 | 236.5568 | 3.0927 | 41.3209 | 52.6838 | 0.4754 | | |
| 05/12/2018 | 91.3137 | 0.0000 | 0.0123 | 0.0123 | 5.7006 | 236.1703 | 2.6861 | 41.2686 | 52.6551 | 0.4975 | | |
| 06/12/2018 | 91.2148 | 0.0000 | 0.0105 | 0.0105 | 5.7672 | 236.4801 | 2.8350 | 41.3107 | 52.6782 | 0.6695 | | |
| 07/12/2018 | 91.7582 | 0.0000 | 0.0186 | 0.0186 | 5.3546 | 235.6248 | 3.4829 | 41.1127 | 52.5669 | 0.7513 | | |
| 08/12/2018 | 92.4406 | 0.0000 | 0.0295 | 0.0295 | 4.8050 | 235.0968 | 2.5624 | 40.8806 | 52.4354 | 0.5743 | | |
| 09/12/2018 | 92.1500 | 0.0000 | 0.0181 | 0.0181 | 5.0109 | 235.9145 | 2.4991 | 41.0028 | 52.5070 | 0.4500 | | |
| 10/12/2018 | 91.9604 | 0.0000 | 0.0132 | 0.0132 | 5.1435 | 236.4402 | 2.4287 | 41.0805 | 52.5515 | 0.4123 | | |
| 11/12/2018 | 92.1530 | 0.0000 | 0.0193 | 0.0193 | 5.0169 | 235.7182 | 2.8074 | 40.9954 | 52.5025 | 0.4443 | | |
| 12/12/2018 | 92.0909 | 0.0000 | 0.0156 | 0.0156 | 5.0967 | 236.1207 | 3.0519 | 41.0482 | 52.5228 | 0.6459 | | |
| 13/12/2018 | 92.3103 | 0.0000 | 0.0217 | 0.0217 | 4.9010 | 236.3965 | 2.9793 | 40.9357 | 52.4690 | 0.7915 | | |
| 14/12/2018 | 92.0485 | 0.0000 | 0.0131 | 0.0131 | 5.0724 | 236.3735 | 2.3921 | 41.0519 | 52.5359 | 0.6064 | | |
| 15/12/2018 | 92.0385 | 0.0000 | 0.0125 | 0.0125 | 5.0845 | 236.4020 | 2.3949 | 41.0554 | 52.5381 | 0.7361 | | |
| 16/12/2018 | 91.9437 | 0.0000 | 0.0120 | 0.0120 | 5.1659 | 236.4486 | 2.5169 | 41.0853 | 52.5546 | 0.3813 | | |
| 17/12/2018 | 91.9375 | 0.0000 | 0.0120 | 0.0120 | 5.1726 | 236.4413 | 2.4827 | 41.0869 | 52.5555 | 0.3635 | | |
| 18/12/2018 | 92.0704 | 0.0000 | 0.0161 | 0.0161 | 5.0850 | 236.9699 | 2.5303 | 41.0286 | 52.5220 | 0.6029 | | |
| 19/12/2018 | 92.0224 | 0.0000 | 0.0131 | 0.0131 | 5.0826 | 236.4646 | 2.5848 | 41.0641 | 52.5425 | 0.7167 | | |
| 20/12/2018 | 92.3351 | 0.0216 | 0.0259 | 0.0474 | 4.8799 | 236.9687 | 3.1408 | 40.8996 | 52.4308 | 0.5531 | | |
| 21/12/2018 | 92.5138 | 0.0000 | 0.0400 | 0.0400 | 4.7609 | 234.4867 | 2.4689 | 40.8342 | 52.4055 | 0.4800 | | |
| 22/12/2018 | 92.7352 | 0.1585 | 0.0724 | 0.2309 | 4.7132 | 236.7003 | 4.5438 | 40.5123 | 52.1036 | 0.6516 | | |
| 23/12/2018 | 93.5283 | 0.0905 | 0.1054 | 0.1960 | 4.1744 | 230.2918 | 3.3942 | 40.2298 | 51.9792 | 0.5713 | | |
| 24/12/2018 | 92.1731 | 0.0000 | 0.0248 | 0.0248 | 5.0429 | 234.8908 | 2.7675 | 40.9595 | 52.4808 | 0.9025 | | |
| 25/12/2018 | 94.3090 | 0.1530 | 0.1275 | 0.2805 | 3.6840 | 228.2695 | 5.0468 | 39.8220 | 51.7012 | 0.7504 | | |
| 26/12/2018 | 93.3857 | 0.0059 | 0.2916 | 0.2985 | 0.2447 | 188.9733 | 3.0114 | 37.7807 | 50.5960 | 0.2328 | | |
| 27/12/2018 | 92.2903 | 0.0000 | 0.0291 | 0.0291 | 4.9567 | 234.0004 | 3.0150 | 40.9108 | 52.4514 | 0.6793 | | |
| 28/12/2018 | 92.0456 | 0.0000 | 0.0192 | 0.0192 | 5.1176 | 235.4208 | 3.0631 | 41.0199 | 52.5161 | 0.6282 | | |
| 29/12/2018 | 92.0849 | 0.0000 | 0.0208 | 0.0208 | 5.0863 | 235.2942 | 2.6351 | 41.0037 | 52.5065 | 0.5916 | | |
| 30/12/2018 | 92.1540 | 0.0000 | 0.0233 | 0.0233 | 5.0388 | 235.0607 | 2.2119 | 40.9739 | 52.4892 | 0.4926 | | |
| 31/12/2018 | 92.0696 | 0.0000 | 0.0211 | 0.0211 | 5.0954 | 236.3318 | 2.5662 | 41.0096 | 52.5096 | 0.4186 | | |

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

| | | | | | | | | | | | | |
|-----------|------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|--|--|
| Mínimo | 91.0838 | 0.0000 | 0.0083 | 0.0083 | 0.2447 | 188.9733 | 2.2119 | 37.7807 | 50.5960 | 0.2328 | | |
| Promedio | 92.3211 | 0.0139 | 0.0349 | 0.0488 | 4.9444 | 233.9143 | 2.9352 | 40.8765 | 52.4197 | 0.5814 | | |
| Máximo | 99.3857 | 0.1585 | 0.2916 | 0.2985 | 5.8545 | 236.8967 | 5.0468 | 41.3653 | 52.7087 | 0.9025 | | |
| Desv. Est | 1.46094242 | 0.041340949 | 0.054763579 | 0.081100755 | 0.979986715 | 8.531504324 | 0.606657223 | 0.65253364 | 0.396392563 | 0.145471781 | | |

Observaciones:

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

PERMISIONARIO: Terminal de LNG de Altamira S. de R.L. de C.V.

PUNTO DE MEDICIÓN: PEMEX

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 Roció (K) | Humedad (mg/m ³) | Poder Calorífico (MJ/m ³) | Índice Wobbe (MJ/m ³) | Acido Sulfhídrico (mg/m ³) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|---|
| 01/12/2018 | 91.5954 | 0.0000 | 0.0205 | 0.0205 | 6.1908 | 238.5883 | 8.5565 | 41.5867 | 52.8280 | 1.2281 |
| 02/12/2018 | 91.6319 | 0.0000 | 0.0178 | 0.0178 | 5.8564 | 236.8872 | 5.3807 | 41.3662 | 52.7087 | 1.2257 |
| 03/12/2018 | 91.1003 | 0.0000 | 0.0086 | 0.0086 | 5.9370 | 237.3237 | 4.3549 | 41.4192 | 52.7379 | 1.2630 |
| 04/12/2018 | 91.6219 | 0.0000 | 0.0184 | 0.0184 | 6.1338 | 238.2278 | 5.6174 | 41.5403 | 52.8023 | 1.1242 |
| 05/12/2018 | 91.6205 | 0.0000 | 0.0172 | 0.0172 | 5.9890 | 237.5888 | 3.1634 | 41.4541 | 52.7567 | 1.0398 |
| 06/12/2018 | 91.5206 | 0.0000 | 0.0170 | 0.0170 | 5.8899 | 236.9473 | 6.1834 | 41.3753 | 52.7133 | 1.2628 |
| 07/12/2018 | 92.3516 | 0.0000 | 0.0830 | 0.0830 | 5.8740 | 236.7041 | 5.2182 | 41.3523 | 52.6995 | 1.3304 |
| 08/12/2018 | 92.5414 | 0.0000 | 0.0811 | 0.0811 | 4.9370 | 236.3553 | 3.4702 | 40.9941 | 52.4940 | 1.1591 |
| 09/12/2018 | 92.3990 | 0.0000 | 0.0248 | 0.0248 | 5.1606 | 236.5528 | 3.4002 | 41.0932 | 52.5583 | 1.1952 |
| 10/12/2018 | 91.9697 | 0.0000 | 0.0133 | 0.0133 | 5.1500 | 236.5016 | 3.5665 | 41.0842 | 52.5535 | 1.1594 |
| 11/12/2018 | 92.3174 | 0.0000 | 0.0245 | 0.0245 | 5.2659 | 237.0795 | 4.2944 | 41.1604 | 52.5948 | 1.4002 |
| 12/12/2018 | 92.3272 | 0.0000 | 0.0249 | 0.0249 | 5.1981 | 236.6786 | 4.3335 | 41.1154 | 52.5705 | 1.2289 |
| 13/12/2018 | 92.4017 | 0.0000 | 0.0247 | 0.0247 | 5.0449 | 236.7788 | 5.5422 | 41.0469 | 52.5284 | 1.4343 |
| 14/12/2018 | 92.3102 | 0.0000 | 0.0212 | 0.0212 | 5.0874 | 238.5053 | 3.8690 | 41.0626 | 52.5420 | 1.5028 |
| 15/12/2018 | 92.0462 | 0.0000 | 0.0127 | 0.0127 | 5.0906 | 236.4843 | 3.7623 | 41.0622 | 52.5418 | 1.7084 |
| 16/12/2018 | 92.0445 | 0.0000 | 0.0125 | 0.0125 | 5.2060 | 236.6583 | 4.3297 | 41.1091 | 52.5676 | 1.7088 |
| 17/12/2018 | 91.9430 | 0.0000 | 0.0121 | 0.0121 | 5.1784 | 236.5046 | 3.9033 | 41.0905 | 52.5575 | 1.0554 |
| 18/12/2018 | 92.2080 | 0.0000 | 0.0213 | 0.0213 | 5.1913 | 236.5427 | 3.7651 | 41.0992 | 52.5622 | 1.2275 |
| 19/12/2018 | 92.3010 | 0.0000 | 0.0220 | 0.0220 | 5.3501 | 237.9306 | 4.2892 | 41.2469 | 52.6422 | 1.2634 |
| 20/12/2018 | 95.1467 | 0.9546 | 0.2504 | 1.2050 | 5.2726 | 237.2154 | 4.2768 | 41.2034 | 52.6160 | 2.0162 |
| 21/12/2018 | 92.6521 | 0.0000 | 0.1584 | 0.1584 | 4.8651 | 235.2636 | 3.7232 | 40.9092 | 52.4481 | 1.2302 |
| 22/12/2018 | 92.5401 | 0.8448 | 0.2047 | 1.0495 | 5.1989 | 235.7846 | 4.0100 | 41.0658 | 52.5412 | 2.2223 |
| 23/12/2018 | 92.2825 | 0.6347 | 0.3125 | 0.9472 | 5.6328 | 236.7769 | 2.4931 | 41.3489 | 52.6964 | 5.8306 |
| 24/12/2018 | 92.4915 | 0.0000 | 0.0366 | 0.0366 | 5.2949 | 236.2400 | 4.5002 | 41.1258 | 52.5752 | 1.5361 |
| 25/12/2018 | 92.5007 | 0.8918 | 0.2805 | 1.1723 | 4.8431 | 233.8369 | 4.1029 | 40.8281 | 52.4044 | 5.7278 |
| 26/12/2018 | 99.6579 | 0.1194 | 0.3168 | 0.4362 | 6.6728 | 217.8525 | 4.3878 | 38.0587 | 50.7672 | 0.6079 |
| 27/12/2018 | 99.6232 | 0.0000 | 0.2972 | 0.2972 | 6.3737 | 241.6535 | 4.5017 | 41.8296 | 52.9492 | 3.4427 |
| 28/12/2018 | 92.5059 | 0.0000 | 0.0361 | 0.0361 | 5.2843 | 236.3194 | 4.4955 | 41.1290 | 52.5765 | 1.1941 |
| 29/12/2018 | 92.5227 | 0.0000 | 0.0371 | 0.0371 | 5.3286 | 236.5978 | 4.1987 | 41.1639 | 52.5962 | 1.1589 |
| 30/12/2018 | 92.5190 | 0.0000 | 0.0369 | 0.0369 | 5.3181 | 236.5564 | 2.9948 | 41.1583 | 52.5993 | 1.1586 |
| 31/12/2018 | 92.4894 | 0.0000 | 0.0359 | 0.0359 | 5.3778 | 236.8336 | 3.7794 | 41.1941 | 52.6127 | 1.0550 |
| Máximo | 99.6579 | 0.9546 | 0.3168 | 1.2050 | 6.3737 | 241.6535 | 8.5565 | 41.8296 | 52.9492 | 5.8306 |

Observaciones:

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



PERMISIONARIO: Terminal de LNG de Altamira S. de R.L. de C.V.

PUNTO DE MEDICIÓN: PEMEX

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) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|---|
| 01/12/2018 | 90.5465 | 0.0000 | 0.0087 | 0.0087 | 5.5148 | 235.1040 | 1.5079 | 41.3268 | 52.5881 | 0.0935 |
| 02/12/2018 | 91.0790 | 0.0000 | 0.0086 | 0.0086 | 5.4892 | 235.1151 | 1.7818 | 41.1946 | 52.5802 | 0.0557 |
| 03/12/2018 | 90.9537 | 0.0000 | 0.0080 | 0.0080 | 5.8428 | 235.8133 | 1.6446 | 41.3653 | 52.7049 | 0.1954 |
| 04/12/2018 | 90.6497 | 0.0000 | 0.0081 | 0.0081 | 5.4954 | 235.1752 | 2.0457 | 41.3209 | 52.5832 | 0.0557 |
| 05/12/2018 | 90.8694 | 0.0000 | 0.0081 | 0.0081 | 5.4959 | 235.1825 | 2.3745 | 41.2696 | 52.5837 | 0.1261 |
| 06/12/2018 | 91.0458 | 0.0000 | 0.0080 | 0.0080 | 5.5632 | 235.5001 | 2.4983 | 41.3107 | 52.6072 | 0.0928 |
| 07/12/2018 | 91.0849 | 0.0000 | 0.0111 | 0.0111 | 4.8815 | 235.1124 | 2.3816 | 41.1127 | 52.4558 | 0.3320 |
| 08/12/2018 | 92.1845 | 0.0000 | 0.0224 | 0.0224 | 4.7288 | 234.8274 | 2.0667 | 40.8806 | 52.4042 | 0.1269 |
| 09/12/2018 | 91.9310 | 0.0000 | 0.0131 | 0.0131 | 4.8389 | 235.1719 | 2.0529 | 41.0028 | 52.4478 | 0.0214 |
| 10/12/2018 | 91.9510 | 0.0000 | 0.0130 | 0.0130 | 5.1365 | 236.4141 | 1.7980 | 41.0805 | 52.5496 | 0.0000 |
| 11/12/2018 | 91.7676 | 0.0000 | 0.0130 | 0.0130 | 4.9085 | 235.1181 | 2.0648 | 40.9354 | 52.4609 | 0.0000 |
| 12/12/2018 | 91.8743 | 0.0000 | 0.0128 | 0.0128 | 4.9009 | 235.0721 | 2.2654 | 41.0482 | 52.4583 | 0.1961 |
| 13/12/2018 | 92.0528 | 0.0000 | 0.0190 | 0.0190 | 4.8397 | 235.0439 | 2.0272 | 40.9357 | 52.4457 | 0.3330 |
| 14/12/2018 | 92.0250 | 0.0000 | 0.0124 | 0.0124 | 4.8985 | 235.4400 | 1.6079 | 41.0519 | 52.4703 | 0.0564 |
| 15/12/2018 | 92.0251 | 0.0000 | 0.0123 | 0.0123 | 5.0799 | 236.3454 | 1.6036 | 41.0554 | 52.5358 | 0.0559 |
| 16/12/2018 | 91.8842 | 0.0000 | 0.0119 | 0.0119 | 5.0841 | 236.3517 | 1.6446 | 41.0853 | 52.5362 | 0.0000 |
| 17/12/2018 | 91.9283 | 0.0000 | 0.0118 | 0.0118 | 5.1679 | 236.4172 | 1.6251 | 41.0869 | 52.5542 | 0.0000 |
| 18/12/2018 | 91.9078 | 0.0000 | 0.0114 | 0.0114 | 4.9953 | 235.4649 | 1.8952 | 41.0286 | 52.4868 | 0.0554 |
| 19/12/2018 | 91.5891 | 0.0000 | 0.0117 | 0.0117 | 4.8941 | 235.5183 | 1.7761 | 41.0641 | 52.4740 | 0.2972 |
| 20/12/2018 | 91.6925 | 0.0000 | 0.0116 | 0.0116 | 3.4437 | 234.7311 | 1.7256 | 40.8996 | 50.3250 | 0.0000 |
| 21/12/2018 | 92.3486 | 0.0000 | 0.0251 | 0.0251 | 4.6653 | 234.2441 | 1.5984 | 40.8342 | 52.3294 | 0.0000 |
| 22/12/2018 | 91.9299 | 0.0000 | 0.0179 | 0.0179 | 3.8640 | 233.6150 | 1.8490 | 40.5123 | 50.7036 | 0.0216 |
| 23/12/2018 | 91.2364 | 0.0000 | 0.0147 | 0.0147 | 0.1474 | 234.5046 | 1.6884 | 40.2298 | 50.5944 | 0.0222 |
| 24/12/2018 | 91.7875 | 0.0000 | 0.0154 | 0.0154 | 4.8296 | 233.7743 | 1.9809 | 40.9595 | 52.3996 | 0.2300 |
| 25/12/2018 | 92.4730 | 0.0000 | 0.0358 | 0.0358 | 0.6728 | 233.7438 | 1.9352 | 39.8220 | 50.5036 | 0.1612 |
| 26/12/2018 | 98.7569 | 0.0000 | 0.2147 | 0.2147 | 0.0331 | 187.7556 | 2.2006 | 37.7807 | 50.5289 | 0.0000 |
| 27/12/2018 | 90.0649 | 0.0000 | 0.0100 | 0.0100 | 0.0716 | 187.8691 | 2.0276 | 40.9108 | 50.5485 | 0.0000 |
| 28/12/2018 | 91.7864 | 0.0000 | 0.0147 | 0.0147 | 4.8104 | 233.7752 | 2.3092 | 41.0199 | 52.3986 | 0.2298 |
| 29/12/2018 | 91.7091 | 0.0000 | 0.0146 | 0.0146 | 4.7936 | 233.7372 | 1.8861 | 41.0037 | 52.3947 | 0.1952 |
| 30/12/2018 | 91.7240 | 0.0000 | 0.0144 | 0.0144 | 4.7973 | 233.7476 | 1.8842 | 40.9739 | 52.3955 | 0.0000 |
| 31/12/2018 | 91.6351 | 0.0000 | 0.0141 | 0.0141 | 4.8161 | 233.8686 | 1.9195 | 41.0096 | 52.4046 | 0.0216 |
| Mínimo | 90.0649 | 0.0000 | 0.0080 | 0.0080 | 0.0331 | 187.7556 | 1.5079 | 37.7807 | 50.3250 | 0.0000 |

Observaciones:

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

Terminal de LNG de Altamira S. de R.L. de C.V.

PERMISIONARIO:

PUNTO DE MEDICIÓN:

ZONA DE MEDICIÓN: RESTO DEL PAÍS

ALTAMIRA V

| 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) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|---|--------------------------------------|--|---------------------------------------|---------------------|
| 01/12/2018 | 91.2560 | 0.0000 | 0.0133 | 0.0133 | 5.7769 | 236.3297 | 4.1056 | 41.2833 | 52.6621 | 0.0146 | 1.0000 | 0.0050 |
| 02/12/2018 | 91.5661 | 0.0000 | 0.0180 | 0.0180 | 5.5681 | 235.3990 | 3.7199 | 41.1548 | 52.5904 | 0.0305 | | |
| 03/12/2018 | 91.1648 | 0.0000 | 0.0118 | 0.0118 | 5.8394 | 236.5935 | 3.4888 | 41.3202 | 52.6828 | 0.0339 | | |
| 04/12/2018 | 91.2724 | 0.0000 | 0.0136 | 0.0136 | 5.7683 | 236.2317 | 3.1150 | 41.2750 | 52.6574 | 0.0645 | | |
| 05/12/2018 | 91.3893 | 0.0000 | 0.0154 | 0.0154 | 5.6688 | 235.8588 | 2.4573 | 41.2267 | 52.6905 | 0.0000 | | |
| 06/12/2018 | 91.2964 | 0.0000 | 0.0139 | 0.0139 | 5.7513 | 236.1570 | 3.4329 | 41.2655 | 52.6521 | 0.0581 | | |
| 07/12/2018 | 91.8335 | 0.0000 | 0.0213 | 0.0213 | 5.3394 | 234.3601 | 3.5609 | 41.0708 | 52.5433 | 0.0194 | | |
| 08/12/2018 | 92.5078 | 0.0000 | 0.0315 | 0.0315 | 4.7932 | 234.8050 | 2.3754 | 40.8431 | 52.4142 | 0.0080 | | |
| 09/12/2018 | 92.2184 | 0.0000 | 0.0208 | 0.0208 | 4.9997 | 235.6193 | 2.0198 | 40.9637 | 52.4846 | 0.0854 | | |
| 10/12/2018 | 92.0331 | 0.0000 | 0.0164 | 0.0164 | 4.9988 | 235.1476 | 1.9724 | 41.0395 | 52.5278 | 0.1324 | | |
| 11/12/2018 | 92.2305 | 0.0000 | 0.0223 | 0.0223 | 4.9888 | 235.4450 | 2.4997 | 40.9535 | 52.4785 | 0.1150 | | |
| 12/12/2018 | 92.1093 | 0.0000 | 0.0186 | 0.0186 | 5.0831 | 235.8932 | 2.9454 | 41.0088 | 52.5101 | 0.0900 | | |
| 13/12/2018 | 92.3795 | 0.0000 | 0.0239 | 0.0239 | 4.8872 | 235.1780 | 2.8967 | 40.8987 | 52.4478 | 0.1048 | | |
| 14/12/2018 | 92.1163 | 0.0000 | 0.0162 | 0.0162 | 5.0596 | 236.1530 | 2.0429 | 41.0144 | 52.5142 | 0.9519 | | |
| 15/12/2018 | 92.0995 | 0.0000 | 0.0157 | 0.0157 | 5.0707 | 236.2143 | 2.0286 | 41.0218 | 52.5184 | 1.0423 | | |
| 16/12/2018 | 91.9984 | 0.0000 | 0.0154 | 0.0154 | 5.1517 | 236.2952 | 2.0664 | 41.0554 | 52.5369 | 1.1234 | | |
| 17/12/2018 | 91.9907 | 0.0000 | 0.0153 | 0.0153 | 5.1581 | 236.2961 | 2.0919 | 41.0578 | 52.5383 | 1.1444 | | |
| 18/12/2018 | 92.1180 | 0.0000 | 0.0189 | 0.0189 | 5.0744 | 235.8393 | 2.4800 | 41.0021 | 52.5064 | 1.1366 | | |
| 19/12/2018 | 92.1047 | 0.0000 | 0.0162 | 0.0162 | 5.0691 | 236.1526 | 2.5751 | 41.0181 | 52.5160 | 1.1680 | | |
| 20/12/2018 | 92.3284 | 0.0019 | 0.0226 | 0.0245 | 4.9714 | 235.4036 | 2.6407 | 40.9177 | 52.4566 | 0.9226 | | |
| 21/12/2018 | 92.5885 | 0.0000 | 0.0318 | 0.0318 | 4.7495 | 234.3900 | 2.3054 | 40.8054 | 52.3936 | 1.2238 | | |
| 22/12/2018 | 92.5367 | 0.0000 | 0.0413 | 0.0413 | 4.8036 | 234.1011 | 2.5832 | 40.8054 | 52.3894 | 1.4292 | | |
| 23/12/2018 | 94.7602 | 0.0000 | 0.1310 | 0.1310 | 3.3649 | 234.0432 | 2.6375 | 39.7976 | 51.7958 | 1.5107 | | |
| 24/12/2018 | 92.5672 | 0.0000 | 0.0408 | 0.0408 | 4.8251 | 233.3064 | 2.9735 | 40.7732 | 52.3721 | 1.2747 | | |
| 25/12/2018 | 92.8210 | 0.0000 | 0.0469 | 0.0469 | 4.6578 | 233.1943 | 2.9412 | 40.6645 | 52.3099 | 0.1235 | | |
| 26/12/2018 | 98.4887 | 0.0000 | 0.2387 | 0.2387 | 0.8592 | 196.2404 | 3.3297 | 38.1950 | 50.8577 | 0.1234 | | |
| 27/12/2018 | 95.6460 | 0.0000 | 0.0691 | 0.0691 | 4.1119 | 226.9115 | 3.3726 | 40.3081 | 52.1027 | 0.1073 | | |
| 28/12/2018 | 92.1809 | 0.0000 | 0.0230 | 0.0230 | 5.0821 | 234.8549 | 3.5601 | 40.9479 | 52.4754 | 0.0800 | | |
| 29/12/2018 | 92.1496 | 0.0000 | 0.0216 | 0.0216 | 5.1099 | 234.9662 | 2.8632 | 40.9616 | 52.4834 | 0.0571 | | |
| 30/12/2018 | 92.2031 | 0.0000 | 0.0237 | 0.0237 | 5.0681 | 234.7736 | 1.7629 | 40.9380 | 52.4697 | 0.0584 | | |
| 31/12/2018 | 92.2139 | 0.0000 | 0.0240 | 0.0240 | 5.0614 | 234.7203 | 2.6135 | 40.9330 | 52.4668 | 0.0765 | | |

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

| | | | | | | | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|
| Mínimo | 91.1648 | 0.0000 | 0.0118 | 0.0118 | 0.8592 | 196.2404 | 1.7629 | 38.1950 | 50.8577 | 0.0000 | | |
| Promedio | 92.3924 | 0.0001 | 0.0340 | 0.0340 | 4.9296 | 233.8005 | 2.7551 | 40.8555 | 52.4189 | 0.4616 | | |
| Máximo | 98.4887 | 0.0019 | 0.2387 | 0.2387 | 5.8394 | 236.5935 | 4.1056 | 41.3202 | 52.6828 | 1.5107 | | |
| Desv. Est. | 1.328738791 | 0.000398838 | 0.044265853 | 0.044265969 | 0.899203121 | 7.200411411 | 0.601191642 | 0.573322427 | 0.335546724 | 0.548971468 | | |

Observaciones:

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



PERMISIONARIO: Terminal de LNG de Altamira S. de R.L. de C.V.

PUNTO DE MEDICIÓN: ALTAMIRA V

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 Sulfidrico (mg/m ³) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|
| 01/12/2018 | 91.6767 | 0.0000 | 0.0226 | 0.0226 | 6.1973 | 238.4594 | 4.1056 | 41.5564 | 52.8101 | 0.0146 |
| 02/12/2018 | 91.7125 | 0.0000 | 0.0203 | 0.0203 | 5.8352 | 236.6591 | 3.7199 | 41.3210 | 52.6828 | 0.0305 |
| 03/12/2018 | 91.1849 | 0.0000 | 0.0122 | 0.0122 | 5.9252 | 237.0308 | 3.4888 | 41.3753 | 52.7127 | 0.0399 |
| 04/12/2018 | 91.6989 | 0.0000 | 0.0220 | 0.0220 | 6.1189 | 237.8814 | 3.1150 | 41.4905 | 52.7740 | 0.0645 |
| 05/12/2018 | 91.6952 | 0.0000 | 0.0199 | 0.0199 | 5.9765 | 237.2456 | 2.4573 | 41.4061 | 52.7293 | 0.0000 |
| 06/12/2018 | 91.5990 | 0.0000 | 0.0197 | 0.0197 | 5.8723 | 236.6474 | 3.4329 | 41.3295 | 52.6873 | 0.0581 |
| 07/12/2018 | 92.4151 | 0.0000 | 0.0769 | 0.0769 | 5.8228 | 243.5313 | 3.5609 | 41.3005 | 52.6710 | 0.0194 |
| 08/12/2018 | 92.6087 | 0.0000 | 0.0776 | 0.0776 | 4.9315 | 235.4686 | 2.3754 | 40.9245 | 52.4579 | 0.0080 |
| 09/12/2018 | 92.4685 | 0.0000 | 0.0271 | 0.0271 | 5.1464 | 236.2593 | 2.0198 | 41.0510 | 52.5340 | 0.0854 |
| 10/12/2018 | 92.0466 | 0.0000 | 0.0180 | 0.0180 | 5.1345 | 236.3152 | 1.9724 | 41.0506 | 52.5339 | 0.1324 |
| 11/12/2018 | 92.3841 | 0.0000 | 0.0266 | 0.0266 | 5.4476 | 237.0722 | 2.4997 | 41.1934 | 52.6114 | 0.1150 |
| 12/12/2018 | 92.3955 | 0.0000 | 0.0269 | 0.0269 | 5.1896 | 236.5166 | 2.8957 | 41.0773 | 52.5484 | 0.0900 |
| 13/12/2018 | 92.4659 | 0.0000 | 0.0267 | 0.0267 | 4.9699 | 235.6239 | 2.8967 | 40.9527 | 52.4783 | 0.1048 |
| 14/12/2018 | 92.3799 | 0.0000 | 0.0236 | 0.0236 | 5.0733 | 236.2849 | 2.0429 | 41.0264 | 52.5210 | 0.9519 |
| 15/12/2018 | 92.1087 | 0.0000 | 0.0177 | 0.0177 | 5.0752 | 236.3271 | 2.0286 | 41.0292 | 52.5225 | 1.0423 |
| 16/12/2018 | 92.0993 | 0.0000 | 0.0169 | 0.0169 | 5.1907 | 236.5156 | 2.0664 | 41.0800 | 52.5502 | 1.1234 |
| 17/12/2018 | 91.9992 | 0.0000 | 0.0170 | 0.0170 | 5.1646 | 236.3875 | 2.0919 | 41.0638 | 52.5414 | 1.1444 |
| 18/12/2018 | 92.2617 | 0.0000 | 0.0233 | 0.0233 | 5.1742 | 236.4213 | 2.4300 | 41.0685 | 52.5443 | 1.1366 |
| 19/12/2018 | 92.3939 | 0.0000 | 0.0244 | 0.0244 | 5.3715 | 237.7161 | 2.5751 | 41.2137 | 52.6228 | 1.1680 |
| 20/12/2018 | 94.5460 | 0.7519 | 0.1793 | 0.9312 | 5.2811 | 237.6081 | 2.6407 | 41.1592 | 52.5875 | 0.9226 |
| 21/12/2018 | 92.6286 | 0.0000 | 0.0383 | 0.0383 | 4.7693 | 234.6285 | 2.3054 | 40.8248 | 52.4058 | 1.2238 |
| 22/12/2018 | 92.6276 | 0.0000 | 0.0476 | 0.0476 | 4.9533 | 234.2237 | 2.5832 | 40.8632 | 52.4242 | 1.4292 |
| 23/12/2018 | 92.5563 | 0.0000 | 0.2315 | 0.2315 | 4.9535 | 234.1886 | 2.6375 | 40.8635 | 52.4244 | 1.5107 |
| 24/12/2018 | 94.1398 | 0.0000 | 0.1054 | 0.1054 | 5.1514 | 235.1981 | 2.9735 | 40.9688 | 52.4985 | 1.2747 |
| 25/12/2018 | 95.9466 | 0.0000 | 0.1568 | 0.1568 | 5.0002 | 234.3741 | 2.9412 | 40.8914 | 52.4418 | 0.1235 |
| 26/12/2018 | 99.6339 | 0.0000 | 0.2771 | 0.2771 | 2.5983 | 216.8019 | 3.3297 | 39.2837 | 51.5021 | 0.1234 |
| 27/12/2018 | 99.6339 | 0.0000 | 0.2748 | 0.2748 | 5.1580 | 235.2796 | 3.3726 | 40.9972 | 52.5038 | 0.1073 |
| 28/12/2018 | 92.3639 | 0.0000 | 0.0299 | 0.0299 | 5.1652 | 235.5278 | 3.5601 | 41.0014 | 52.5065 | 0.0800 |
| 29/12/2018 | 92.3612 | 0.0000 | 0.0288 | 0.0288 | 5.1702 | 235.3645 | 2.8632 | 41.0054 | 52.5088 | 0.0571 |
| 30/12/2018 | 92.3707 | 0.0000 | 0.0297 | 0.0297 | 5.1685 | 235.3067 | 1.7629 | 41.0034 | 52.5076 | 0.0584 |
| 31/12/2018 | 92.4964 | 0.0000 | 0.0327 | 0.0327 | 5.2003 | 235.4725 | 2.6135 | 41.0232 | 52.5188 | 0.0765 |
| Máximo | 99.6339 | 0.7519 | 0.2771 | 0.9312 | 6.1973 | 243.5313 | 4.1056 | 41.5564 | 52.8101 | 1.5107 |

Observaciones:

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



PERMISIONARIO: Terminal de LNG de Altamira S. de R.L. de C.V.

PUNTO DE MEDICIÓN: ALTAMIRA V

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 Sulfidrónico (mg/m ³) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|
| 01/12/2018 | 90.5927 | 0.0000 | 0.0118 | 0.0118 | 5.4956 | 234.8407 | 1.6266 | 41.1096 | 52.5653 | 0.0000 |
| 02/12/2018 | 91.1632 | 0.0000 | 0.0117 | 0.0117 | 5.4722 | 234.8517 | 2.0914 | 41.0945 | 52.5568 | 0.0000 |
| 03/12/2018 | 91.0304 | 0.0000 | 0.0114 | 0.0114 | 5.8284 | 236.5158 | 1.8590 | 41.3140 | 52.6794 | 0.0000 |
| 04/12/2018 | 90.7367 | 0.0000 | 0.0114 | 0.0114 | 5.4830 | 234.8546 | 2.1495 | 41.0990 | 52.5593 | 0.0000 |
| 05/12/2018 | 90.9513 | 0.0000 | 0.0113 | 0.0113 | 5.4853 | 234.8635 | 1.9171 | 41.1005 | 52.5601 | 0.0000 |
| 06/12/2018 | 91.1296 | 0.0000 | 0.0113 | 0.0113 | 5.5495 | 235.1861 | 2.4576 | 41.1409 | 52.5828 | 0.0000 |
| 07/12/2018 | 91.1987 | 0.0000 | 0.0143 | 0.0143 | 4.8737 | 234.8160 | 2.2657 | 40.8767 | 52.4348 | 0.0000 |
| 08/12/2018 | 92.2963 | 0.0000 | 0.0246 | 0.0246 | 4.7177 | 234.5623 | 1.3943 | 40.8080 | 52.3855 | 0.0000 |
| 09/12/2018 | 92.0046 | 0.0000 | 0.0159 | 0.0159 | 4.8271 | 234.8628 | 1.1619 | 40.8611 | 52.4262 | 0.0000 |
| 10/12/2018 | 92.0154 | 0.0000 | 0.0159 | 0.0159 | 5.1228 | 236.0814 | 0.8714 | 41.0347 | 52.5252 | 0.0000 |
| 11/12/2018 | 91.6092 | 0.0000 | 0.0160 | 0.0160 | 4.8989 | 234.8839 | 1.5104 | 40.8873 | 52.4406 | 0.0000 |
| 12/12/2018 | 91.9433 | 0.0000 | 0.0156 | 0.0156 | 4.8897 | 234.8553 | 2.0914 | 40.8829 | 52.4380 | 0.0000 |
| 13/12/2018 | 92.2512 | 0.0000 | 0.0215 | 0.0215 | 4.8308 | 234.8442 | 1.4523 | 40.8615 | 52.4264 | 0.0000 |
| 14/12/2018 | 92.0910 | 0.0000 | 0.0154 | 0.0154 | 4.8858 | 235.2249 | 0.5228 | 40.9031 | 52.4506 | 0.0000 |
| 15/12/2018 | 92.0875 | 0.0000 | 0.0152 | 0.0152 | 5.0653 | 236.1474 | 0.4067 | 41.0182 | 52.5165 | 0.0000 |
| 16/12/2018 | 91.9361 | 0.0000 | 0.0149 | 0.0149 | 5.0732 | 236.1911 | 0.6390 | 41.0221 | 52.5186 | 0.0000 |
| 17/12/2018 | 91.9756 | 0.0000 | 0.0148 | 0.0148 | 5.1538 | 236.2120 | 0.6971 | 41.0534 | 52.5358 | 0.0000 |
| 18/12/2018 | 91.9623 | 0.0000 | 0.0144 | 0.0144 | 4.9811 | 235.3039 | 1.3943 | 40.9413 | 52.4714 | 0.0000 |
| 19/12/2018 | 91.6313 | 0.0000 | 0.0146 | 0.0146 | 4.8796 | 235.1303 | 1.2200 | 40.8937 | 52.4453 | 0.0000 |
| 20/12/2018 | 91.7471 | 0.0000 | 0.0146 | 0.0146 | 3.7517 | 232.1992 | 0.7552 | 38.9950 | 50.8030 | 0.0000 |
| 21/12/2018 | 92.5528 | 0.0000 | 0.0274 | 0.0274 | 4.7256 | 234.1264 | 0.5809 | 40.7829 | 52.3786 | 0.0000 |
| 22/12/2018 | 92.3646 | 0.0000 | 0.0344 | 0.0344 | 4.7302 | 233.9671 | 1.0457 | 40.7794 | 52.3766 | 0.0000 |
| 23/12/2018 | 92.3644 | 0.0000 | 0.0338 | 0.0338 | 1.6407 | 233.4328 | 1.0457 | 38.6496 | 51.1156 | 0.1589 |
| 24/12/2018 | 93.6441 | 0.0000 | 0.0209 | 0.0209 | 3.7735 | 226.7754 | 1.6117 | 40.0754 | 51.9617 | 0.0177 |
| 25/12/2018 | 92.3022 | 0.0000 | 0.0291 | 0.0291 | 2.5983 | 233.3981 | 1.5685 | 39.2837 | 51.5021 | 0.0000 |
| 26/12/2018 | 95.9466 | 0.0000 | 0.1568 | 0.1568 | 0.0663 | 187.9661 | 2.2076 | 37.7094 | 50.5684 | 0.0000 |
| 27/12/2018 | 92.0660 | 0.0000 | 0.0192 | 0.0192 | 0.0662 | 187.9655 | 1.9171 | 37.7094 | 50.5697 | 0.0000 |
| 28/12/2018 | 92.0583 | 0.0000 | 0.0182 | 0.0182 | 4.9475 | 234.1091 | 2.3818 | 40.8606 | 52.4250 | 0.0000 |
| 29/12/2018 | 92.0482 | 0.0000 | 0.0179 | 0.0179 | 4.9650 | 234.2031 | 1.2200 | 40.8697 | 52.4304 | 0.0000 |
| 30/12/2018 | 92.0522 | 0.0000 | 0.0184 | 0.0184 | 4.9569 | 234.1671 | 1.2200 | 40.8653 | 52.4275 | 0.0000 |
| 31/12/2018 | 92.0041 | 0.0000 | 0.0173 | 0.0173 | 4.8749 | 233.7027 | 1.9666 | 40.8113 | 52.3958 | 0.0000 |
| Mínimo | 90.5927 | 0.0000 | 0.0113 | 0.0113 | 0.0662 | 187.9655 | 0.4067 | 37.7094 | 50.5684 | 0.0000 |

Observaciones: