

INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL



(Valores promedio diarios)

PERMISIONARIO: TARAHUMARA PIPELINE

PUNTO DE MEDICIÓN: EL ENCINO

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) |
|----------------------|-------------------|----------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|---|--------------------------------------|--|---------------------------------------|---------------------|
| 01/10/2014 | 92,1388 | 0,1023 | 2,4250 | 2,5273 | 4,6656 | 264,5649 | 20,0160 | 38,5815 | 49,9706 | 0,1730 | | |
| 02/10/2014 | 91,8683 | 0,1312 | 2,5341 | 2,6653 | 4,8766 | 264,6055 | 20,0148 | 38,5309 | 49,8737 | 0,0746 | | |
| 03/10/2014 | 91,1431 | 0,1364 | 2,5125 | 2,6490 | 5,5090 | 264,9296 | 20,0154 | 38,7847 | 50,0265 | 0,0777 | | |
| 04/10/2014 | 91,2681 | 0,2239 | 2,3632 | 2,5871 | 5,3048 | 264,3046 | 20,0191 | 38,8508 | 50,0712 | 0,1380 | | |
| 05/10/2014 | 91,1800 | 0,2773 | 2,3575 | 2,6348 | 5,3972 | 261,5702 | 20,0179 | 38,8214 | 50,0212 | 0,1005 | | |
| 06/10/2014 | 90,8505 | 0,2893 | 2,4529 | 2,7422 | 5,6820 | 262,0571 | 20,0191 | 38,8109 | 49,9656 | 0,1263 | | |
| 07/10/2014 | 91,3710 | 0,2418 | 2,5115 | 2,7533 | 5,2811 | 263,7798 | 20,0222 | 38,6149 | 49,8583 | 0,0605 | | |
| 08/10/2014 | 91,5958 | 0,2144 | 2,5596 | 2,7741 | 5,0970 | 263,7089 | 20,0253 | 38,5138 | 49,7969 | 0,1447 | | |
| 09/10/2014 | 90,9593 | 0,2653 | 2,5823 | 2,8475 | 5,5176 | 262,1991 | 20,0229 | 38,6874 | 49,8534 | 0,0796 | | |
| 10/10/2014 | 90,9892 | 0,3262 | 2,5084 | 2,8346 | 5,4373 | 261,5895 | 20,0210 | 38,7136 | 49,8601 | 0,1066 | | |
| 11/10/2014 | 90,2622 | 0,3063 | 2,5284 | 2,8347 | 5,8342 | 261,2851 | 20,0179 | 39,0510 | 50,0587 | 0,1078 | | |
| 12/10/2014 | 90,5843 | 0,2791 | 2,5084 | 2,7874 | 5,6008 | 260,3655 | 20,0204 | 38,9800 | 50,0445 | 0,1281 | | |
| 13/10/2014 | 90,2858 | 0,2790 | 2,5351 | 2,8140 | 5,7965 | 262,1325 | 20,0135 | 39,0791 | 50,0899 | 0,0832 | | |
| 14/10/2014 | 89,9770 | 0,2435 | 2,5711 | 2,8146 | 6,0403 | 261,9822 | 20,0148 | 39,1905 | 50,1619 | 0,1318 | | |
| 15/10/2014 | 89,8591 | 0,2330 | 2,5889 | 2,8219 | 6,1372 | 262,2450 | 20,0173 | 39,2207 | 50,1786 | 0,0384 | | |
| 16/10/2014 | 89,7879 | 0,2492 | 2,5795 | 2,8288 | 6,2140 | 262,2380 | 20,0216 | 39,2329 | 50,1790 | 0,0949 | | |
| 17/10/2014 | 89,9327 | 0,2051 | 2,6669 | 2,8721 | 6,0331 | 263,5138 | 20,0241 | 39,1621 | 50,1292 | 0,1060 | | |
| 18/10/2014 | 90,2160 | 0,1853 | 2,7133 | 2,8986 | 5,7685 | 261,4094 | 20,0253 | 39,0478 | 50,0562 | 0,1085 | | |
| 19/10/2014 | 90,1675 | 0,2001 | 2,6792 | 2,8793 | 5,8665 | 259,0108 | 20,0204 | 39,0650 | 50,0713 | 0,0685 | | |
| 20/10/2014 | 90,8624 | 0,1995 | 2,6790 | 2,8785 | 5,3785 | 260,5800 | 20,0117 | 38,7888 | 49,9126 | 0,0759 | | |
| 21/10/2014 | 90,3267 | 0,1727 | 2,6029 | 2,7756 | 5,8047 | 262,4018 | 20,0117 | 39,0843 | 50,1340 | 0,1035 | | |
| 22/10/2014 | 90,2050 | 0,2115 | 2,5295 | 2,7410 | 6,0021 | 261,8244 | 20,0104 | 39,1247 | 50,1639 | 0,0648 | | |
| 23/10/2014 | 90,1564 | 0,3240 | 2,4495 | 2,7735 | 5,9772 | 262,8724 | 20,0098 | 39,1390 | 50,1321 | 0,0740 | | |
| 24/10/2014 | 89,9782 | 0,2760 | 2,4798 | 2,7558 | 6,0829 | 263,2461 | 20,0104 | 39,2378 | 50,2074 | 0,0882 | | |
| 25/10/2014 | 90,4754 | 0,2235 | 2,5580 | 2,7815 | 5,6292 | 263,0319 | 20,0123 | 39,0563 | 50,1034 | 0,1085 | | |
| 26/10/2014 | 90,5248 | 0,1743 | 2,6177 | 2,7920 | 5,6147 | 262,1736 | 20,0135 | 39,0189 | 50,0886 | 0,1103 | | |
| 27/10/2014 | 90,2770 | 0,1805 | 2,6535 | 2,8340 | 5,8086 | 263,3841 | 20,0142 | 39,0619 | 50,0937 | 0,1460 | | |
| 28/10/2014 | 90,3350 | 0,1679 | 2,6387 | 2,8066 | 5,8156 | 263,3541 | 20,0142 | 39,0487 | 50,1011 | 0,0986 | | |
| 29/10/2014 | 90,6205 | 0,1721 | 2,6537 | 2,8257 | 5,7198 | 262,9102 | 20,0129 | 38,8773 | 49,9935 | 0,0802 | | |
| 30/10/2014 | 90,1959 | 0,1746 | 2,6420 | 2,8166 | 5,9088 | 263,7997 | 20,0142 | 39,0988 | 50,1240 | 0,1232 | | |
| 31/10/2014 | 90,0957 | 0,1705 | 2,7970 | 2,9675 | 5,9215 | 264,5629 | 20,0104 | 38,9928 | 49,9982 | 0,0783 | | |

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

| | | | | | | | | | | | | |
|-------------------|-------------|------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|------------|--|--|
| Mínimo | 89,7879 | 0,1023 | 2,3575 | 2,5273 | 4,6656 | 259,0108 | 20,0098 | 38,5138 | 49,7969 | 0,0384 | | |
| Promedio | 90,5965 | 0,2205 | 2,5638 | 2,7843 | 5,6685 | 262,6333 | 20,0166 | 38,9506 | 50,0426 | 0,1000 | | |
| Máximo | 92,1388 | 0,3262 | 2,7970 | 2,9675 | 6,2140 | 264,9296 | 20,0253 | 39,2378 | 50,2074 | 0,1730 | | |
| Desv. Est. | 0,607435981 | 0,05725753 | 0,099607724 | 0,092690311 | 0,363052585 | 1,36879239 | 0,004669903 | 0,214411473 | 0,110294196 | 0,02946396 | | |

Observaciones:

INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL

(Registros máximos diarios)



PERMISIONARIO: TARAHUMARA PIPELINE

PUNTO DE MEDICIÓN: EL ENCINO

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) |
|----------------------|-------------------|-------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|
| 01/10/2014 | 92,6396 | 0,1249 | 2,5487 | 2,6736 | 5,0141 | 266,0228 | 20,0334 | 38,6924 | 50,0294 | 0,3397 |
| 02/10/2014 | 92,4093 | 0,1846 | 2,7346 | 2,9192 | 5,0379 | 265,7671 | 20,0297 | 38,6628 | 49,9811 | 0,1490 |
| 03/10/2014 | 91,7304 | 0,1672 | 2,6446 | 2,8118 | 5,6373 | 266,2237 | 20,0272 | 38,9330 | 50,1687 | 0,1552 |
| 04/10/2014 | 91,6441 | 0,2712 | 2,4553 | 2,7265 | 5,4503 | 265,5814 | 20,0347 | 38,9584 | 50,1377 | 0,2745 |
| 05/10/2014 | 91,3138 | 0,2929 | 2,4143 | 2,7072 | 5,5175 | 263,3225 | 20,0322 | 38,9198 | 50,0879 | 0,1995 |
| 06/10/2014 | 91,3090 | 0,4035 | 2,5700 | 2,9735 | 6,0293 | 263,2682 | 20,0322 | 38,9289 | 50,0487 | 0,2523 |
| 07/10/2014 | 91,6677 | 0,2857 | 2,5566 | 2,8422 | 5,8104 | 265,0933 | 20,0384 | 38,8091 | 49,9619 | 0,1207 |
| 08/10/2014 | 91,8053 | 0,2448 | 2,6154 | 2,8602 | 5,2978 | 265,0067 | 20,0458 | 38,5906 | 49,8422 | 0,2855 |
| 09/10/2014 | 91,5380 | 0,3236 | 2,6628 | 2,9863 | 5,7898 | 263,8633 | 20,0409 | 38,8333 | 49,9299 | 0,1589 |
| 10/10/2014 | 91,2548 | 0,3723 | 2,5737 | 2,9461 | 5,7254 | 263,3318 | 20,0371 | 38,8558 | 49,9447 | 0,2093 |
| 11/10/2014 | 90,7425 | 0,3578 | 2,5927 | 2,9505 | 6,0132 | 262,5308 | 20,0334 | 39,1588 | 50,1328 | 0,2154 |
| 12/10/2014 | 90,9579 | 0,3329 | 2,6039 | 2,9368 | 5,8359 | 262,0081 | 20,0384 | 39,1576 | 50,1258 | 0,2560 |
| 13/10/2014 | 90,6177 | 0,3549 | 2,6630 | 3,0179 | 6,0173 | 263,4419 | 20,0235 | 39,2299 | 50,1817 | 0,1638 |
| 14/10/2014 | 90,0982 | 0,2859 | 2,6061 | 2,8920 | 6,1320 | 263,3934 | 20,0247 | 39,2494 | 50,1993 | 0,2634 |
| 15/10/2014 | 90,2007 | 0,2474 | 2,6442 | 2,8916 | 6,2960 | 263,5732 | 20,0284 | 39,3685 | 50,2834 | 0,0752 |
| 16/10/2014 | 89,9909 | 0,3186 | 2,6259 | 2,9445 | 6,5317 | 263,4828 | 20,0371 | 39,3699 | 50,2441 | 0,1872 |
| 17/10/2014 | 90,1570 | 0,2452 | 2,7343 | 2,9795 | 6,1861 | 264,5340 | 20,0409 | 39,2207 | 50,1637 | 0,2118 |
| 18/10/2014 | 90,5442 | 0,2015 | 2,7566 | 2,9581 | 6,0502 | 263,2379 | 20,0433 | 39,1697 | 50,1277 | 0,2167 |
| 19/10/2014 | 90,5751 | 0,2289 | 2,7211 | 2,9500 | 6,1019 | 260,4254 | 20,0371 | 39,1820 | 50,1337 | 0,1355 |
| 20/10/2014 | 91,2324 | 0,2253 | 2,8077 | 3,0330 | 5,7076 | 261,8369 | 20,0210 | 38,9860 | 50,0191 | 0,1503 |
| 21/10/2014 | 90,5915 | 0,2521 | 2,7296 | 2,9817 | 6,1104 | 263,2540 | 20,0222 | 39,2279 | 50,1941 | 0,2068 |
| 22/10/2014 | 90,7187 | 0,2826 | 2,5787 | 2,8613 | 6,3625 | 262,9800 | 20,0222 | 39,3267 | 50,3025 | 0,1294 |
| 23/10/2014 | 90,4954 | 0,4583 | 2,4926 | 2,9508 | 6,1529 | 263,8232 | 20,0222 | 39,2154 | 50,1423 | 0,1453 |
| 24/10/2014 | 90,3154 | 0,3076 | 2,5319 | 2,8394 | 6,2176 | 264,3882 | 20,0235 | 39,3136 | 50,2434 | 0,1712 |
| 25/10/2014 | 90,5787 | 0,2593 | 2,6176 | 2,8769 | 5,7678 | 264,2019 | 20,0247 | 39,1091 | 50,1336 | 0,2167 |
| 26/10/2014 | 90,6060 | 0,1871 | 2,6648 | 2,8519 | 5,6761 | 264,1112 | 20,0272 | 39,0476 | 50,0990 | 0,2204 |
| 27/10/2014 | 90,5102 | 0,2005 | 2,6958 | 2,8963 | 6,0051 | 264,5617 | 20,0284 | 39,1891 | 50,1856 | 0,2917 |
| 28/10/2014 | 90,5522 | 0,1767 | 2,6800 | 2,8567 | 6,0088 | 264,8879 | 20,0284 | 39,1231 | 50,1415 | 0,1970 |
| 29/10/2014 | 91,0871 | 0,1867 | 2,7649 | 2,9516 | 5,9160 | 264,5550 | 20,0284 | 39,0361 | 50,0951 | 0,1576 |
| 30/10/2014 | 90,4521 | 0,1887 | 2,7097 | 2,8983 | 6,0512 | 264,7917 | 20,0272 | 39,1911 | 50,1848 | 0,2413 |
| 31/10/2014 | 90,4507 | 0,1860 | 2,8645 | 3,0505 | 6,0291 | 265,6509 | 20,0222 | 39,0916 | 50,0532 | 0,1540 |
| Máximo | 92,6396 | 0,4583 | 2,8645 | 3,0505 | 6,5317 | 266,2237 | 20,0458 | 39,3699 | 50,3025 | 0,3397 |

Observaciones:

INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL

(Registros mínimos diarios)



PERMISIONARIO: TARAHUMARA PIPELINE

PUNTO DE MEDICIÓN: EL ENCINO

ZONA DE MEDICIÓN: RESTO DEL PAÍS

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|----------------------|-------------------|-------------------------------|----------------------|--------------------------|------------------|--------------------------------|---------------------------------|--|--------------------------------------|--|
| 01/09/2014 | 91,7165 | 0,0770 | 2,2487 | 2,3257 | 4,2940 | 264,4825 | 19,9987 | 0,0064 | 49,9008 | 0,0064 |
| 02/09/2014 | 91,5956 | 0,0937 | 2,3373 | 2,4310 | 4,5424 | 264,1446 | 19,9999 | 0,0002 | 49,8192 | 0,0002 |
| 03/09/2014 | 90,9906 | 0,1136 | 2,3313 | 2,4449 | 5,0300 | 264,6803 | 20,0036 | 0,0002 | 50,0259 | 0,0002 |
| 04/09/2014 | 91,0447 | 0,1543 | 2,2212 | 2,3754 | 5,0644 | 264,3583 | 20,0036 | 0,0015 | 49,9994 | 0,0015 |
| 05/09/2014 | 90,9993 | 0,2607 | 2,3063 | 2,5670 | 5,2960 | 262,0298 | 20,0036 | 0,0015 | 49,9840 | 0,0015 |
| 06/09/2014 | 90,4723 | 0,2082 | 2,3664 | 2,5746 | 5,2756 | 262,0584 | 20,0061 | 0,0002 | 49,8492 | 0,0002 |
| 07/09/2014 | 90,7177 | 0,1957 | 2,4680 | 2,6637 | 5,0050 | 264,0135 | 20,0061 | 0,0002 | 49,7906 | 0,0002 |
| 08/09/2014 | 91,3670 | 0,1763 | 2,4698 | 2,6461 | 4,9864 | 263,9518 | 20,0049 | 0,0039 | 49,7665 | 0,0039 |
| 09/09/2014 | 90,5157 | 0,1817 | 2,5213 | 2,7031 | 5,1292 | 262,1421 | 20,0049 | 0,0002 | 49,8149 | 0,0002 |
| 10/09/2014 | 90,7184 | 0,2826 | 2,4354 | 2,7180 | 5,1661 | 261,4146 | 20,0049 | 0,0039 | 49,7719 | 0,0039 |
| 11/09/2014 | 90,0198 | 0,2542 | 2,4408 | 2,6951 | 5,4167 | 261,2921 | 20,0024 | 0,0002 | 49,9655 | 0,0002 |
| 12/09/2014 | 90,0960 | 0,2291 | 2,4358 | 2,6648 | 5,3207 | 260,0451 | 20,0024 | 0,0002 | 49,9699 | 0,0002 |
| 13/09/2014 | 89,9895 | 0,1772 | 2,4101 | 2,5872 | 5,4533 | 262,3564 | 20,0036 | 0,0027 | 49,9295 | 0,0027 |
| 14/09/2014 | 89,8389 | 0,2082 | 2,5153 | 2,7235 | 5,9570 | 261,6569 | 20,0049 | 0,0002 | 50,0852 | 0,0002 |
| 15/09/2014 | 89,6257 | 0,2098 | 2,5416 | 2,7514 | 5,8915 | 262,1220 | 20,0061 | 0,0015 | 50,0657 | 0,0015 |
| 16/09/2014 | 89,3992 | 0,2238 | 2,5199 | 2,7437 | 6,0483 | 261,8070 | 20,0061 | 0,0027 | 50,1463 | 0,0027 |
| 17/09/2014 | 89,7808 | 0,1747 | 2,6057 | 2,7804 | 5,8698 | 263,3206 | 20,0073 | 0,0002 | 50,0937 | 0,0002 |
| 18/09/2014 | 89,8837 | 0,1645 | 2,6749 | 2,8394 | 5,5376 | 262,6507 | 20,0073 | 0,0002 | 50,0172 | 0,0002 |
| 19/09/2014 | 89,8475 | 0,1579 | 2,6307 | 2,7886 | 5,6295 | 258,6868 | 20,0036 | 0,0015 | 49,9769 | 0,0015 |
| 20/09/2014 | 90,4012 | 0,1547 | 2,4764 | 2,6311 | 5,0021 | 261,2197 | 20,0024 | 0,0015 | 49,7415 | 0,0015 |
| 21/09/2014 | 89,9066 | 0,1291 | 2,5265 | 2,6556 | 5,4349 | 262,5708 | 20,0011 | 0,0002 | 49,9930 | 0,0002 |
| 22/09/2014 | 89,7419 | 0,1696 | 2,4763 | 2,6459 | 5,6314 | 261,8001 | 19,9987 | 0,0002 | 50,0532 | 0,0002 |
| 23/09/2014 | 89,9278 | 0,2715 | 2,4021 | 2,6736 | 5,7685 | 262,8572 | 19,9974 | 0,0027 | 50,0498 | 0,0027 |
| 24/09/2014 | 89,7854 | 0,2407 | 2,4487 | 2,6894 | 5,8297 | 263,4960 | 19,9974 | 0,0051 | 50,1472 | 0,0051 |
| 25/09/2014 | 90,3161 | 0,1796 | 2,5003 | 2,6799 | 5,5148 | 262,8976 | 19,9999 | 0,0002 | 50,0879 | 0,0002 |
| 26/09/2014 | 90,4133 | 0,1604 | 2,5815 | 2,7418 | 5,5471 | 261,9542 | 19,9999 | 0,0002 | 50,0501 | 0,0002 |
| 27/09/2014 | 90,0415 | 0,1570 | 2,5798 | 2,7367 | 5,6208 | 263,3307 | 19,9999 | 0,0002 | 50,0326 | 0,0002 |
| 28/09/2014 | 90,1056 | 0,1559 | 2,6202 | 2,7761 | 5,6283 | 263,9749 | 19,9999 | 0,0002 | 50,0580 | 0,0002 |
| 29/09/2014 | 90,2516 | 0,1549 | 2,5635 | 2,7184 | 5,4984 | 263,1784 | 19,9974 | 0,0027 | 49,7814 | 0,0027 |
| 30/09/2014 | 90,0142 | 0,1631 | 2,6032 | 2,7663 | 5,7045 | 263,8399 | 20,0011 | 0,0051 | 50,0114 | 0,0051 |
| | 89,8649 | 0,1561 | 2,7375 | 2,8937 | 5,6332 | 264,3710 | 19,9987 | 0,0027 | 49,9042 | 0,0027 |
| Mínimo | 89,3992 | 0,0770 | 2,2212 | 2,3257 | 4,2940 | 258,6868 | 19,9974 | 0,0002 | 49,7415 | 0,0002 |

Observaciones: