

INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL

(Valores promedio diarios)

PERMISIONARIO:	Compañía Nacional de Gas SA de CV - Permiso G/11/DIS/1997
PUNTO DE MEDICIÓN:	Cruce Internacional I - Estacion Importacion Rio Bravo
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)
01/01/16	92.2285	0.2494	0.1637	0.4131	5.6914	271.3640	105.7442	40.4839	52.3742	0.9189
02/01/16	92.8085	0.1839	0.1667	0.3506	5.2431	269.2210	109.2939	40.3322	52.3345	0.9189
03/01/16	93.3154	0.1723	0.1596	0.3319	5.0062	271.3540	113.7967	40.1054	52.2206	0.6892
04/01/16	93.0074	0.1755	0.1449	0.3204	5.2381	272.5180	103.7996	40.1996	52.2778	8.2705
05/01/16	92.3043	0.1850	0.1866	0.3716	5.5034	271.8870	107.5479	40.5217	52.4293	4.8245
06/01/16	91.9655	0.2033	0.1873	0.3906	5.7235	272.2640	107.9644	40.6334	52.4781	5.0542
07/01/16	91.3012	0.2270	0.2111	0.4381	6.0261	274.1580	101.4609	40.9148	52.6056	8.2705
08/01/16	91.5304	0.2156	0.2038	0.4194	5.9259	273.2110	103.3831	40.8160	52.5625	0.0000
09/01/16	91.6815	0.2098	0.1968	0.4066	5.7963	273.2150	98.1451	40.7751	52.5470	5.5137
10/01/16	92.6250	0.2587	0.1238	0.3824	5.2043	274.3560	133.2735	40.3976	52.3379	0.0000
11/01/16	92.6747	0.2437	0.1317	0.3753	5.2780	275.1380	99.3144	40.3615	52.3250	0.0000
12/01/16	93.2191	0.2621	0.1297	0.3918	4.4994	273.4250	100.7561	40.3056	52.2802	3.6758
13/01/16	93.4579	0.2482	0.1260	0.3743	4.3969	274.8110	98.9940	40.1818	52.2234	2.9866
14/01/16	93.2466	0.2743	0.1223	0.3966	4.5479	274.4170	93.3235	40.2429	52.2407	5.5137
15/01/16	93.2849	0.2639	0.1248	0.3887	4.5279	275.3210	84.4172	40.2279	52.2386	0.0000
16/01/16	93.3686	0.2828	0.1259	0.4087	4.4162	274.3950	92.0901	40.1984	52.2083	5.7434
17/01/16	93.6656	0.2347	0.1371	0.3718	4.2453	276.7190	93.7080	40.1063	52.1858	2.0676
18/01/16	93.6597	0.2239	0.1312	0.3551	4.2941	274.3940	86.1152	40.1050	52.1955	1.8379
19/01/16	93.5273	0.2454	0.1210	0.3664	4.2490	271.5410	90.4402	40.2139	52.2449	1.8379
20/01/16	93.6053	0.2172	0.1436	0.3608	4.3512	274.1880	90.1839	40.0915	52.1874	3.2163
21/01/16	93.0858	0.3030	0.1338	0.4368	4.5610	272.6340	87.6209	40.3187	52.2570	1.6082
22/01/16	93.3248	0.2482	0.1248	0.3730	4.5397	274.3480	85.5225	40.2122	52.2410	1.3784
23/01/16	93.4090	0.2609	0.1250	0.3859	4.4443	272.5280	81.2937	40.1775	52.2127	0.0000
24/01/16	93.5750	0.2466	0.1311	0.3777	4.2507	275.2160	88.4219	40.1503	52.2045	0.0000
25/01/16	93.3581	0.2396	0.1448	0.3844	4.3662	274.5860	84.4973	40.2628	52.2652	8.7300
26/01/16	93.3013	0.2516	0.1322	0.3838	4.4456	274.4380	83.9367	40.2713	52.2675	0.0000
27/01/16	93.5307	0.2784	0.1335	0.4119	4.3524	271.6460	80.4607	40.0969	52.1519	1.3784
28/01/16	94.4320	0.1830	0.1269	0.3099	3.8784	272.6610	98.6737	39.7699	52.0409	4.8245
29/01/16	93.9755	0.2321	0.1326	0.3646	4.1043	275.3400	73.9892	39.9287	52.0916	1.6082
30/01/16	94.1757	0.2106	0.1355	0.3461	3.9469	276.1310	74.5499	39.8792	52.0777	2.2974
31/01/16	94.8997	0.1738	0.1431	0.3169	3.5215	274.3110	94.9414	39.5929	51.9411	0.2297

Azufre total* (mg/m ³)	Oxígeno* (% vol)

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

Mínimo	91.3012	0.1723	0.1210	0.3099	3.5215	269.2210	73.9892	39.5929	51.9411	0.0000
Promedio	93.1466	0.2324	0.1452	0.3776	4.7282	273.6044	95.0858	40.2540	52.2661	2.6901
Máximo	94.8997	0.3030	0.2111	0.4381	6.0261	276.7190	133.2735	40.9148	52.6056	8.7300
Desv. Est.	0.812657962	0.034762133	0.026077781	0.032004636	0.65671083	1.642418109	12.47771629	0.283135735	0.147007857	2.676001079

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

PERMISIONARIO:	Compañía Nacional de Gas SA de CV - Permiso G/11/DIS/1997
PUNTO DE MEDICIÓN:	Cruce Internacional II - Estacion Importacion Phenix
ZONA DE MEDICIÓN:	<u>RESTO DEL PAÍS</u>

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)
01/01/16	91.1990	0.3640	1.3250	1.6890	5.3420			39.7280		
02/01/16										
03/01/16										
04/01/16										
05/01/16										
06/01/16										
07/01/16										
08/01/16										
09/01/16										
10/01/16										
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26/01/16										
27/01/16										
28/01/16										
29/01/16										
30/01/16										
31/01/16										

Azufre total* (mg/m ³)	Oxígeno* (% vol)

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

Mínimo	91.1990	0.3640	1.3250	1.6890	5.3420	0.0000	0.0000	39.7280	0.0000	0.0000
Promedio	91.1990	0.3640	1.3250	1.6890	5.3420	0.0000	0.0000	39.7280	0.0000	0.0000
Máximo	91.1990	0.3640	1.3250	1.6890	5.3420	0.0000	0.0000	39.7280	0.0000	0.0000
Desv. Est.	91.1990	0.3640	1.3250	1.6890	5.3420	0.0000	0.0000	39.7280	0.0000	0.0000

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

PERMISIONARIO: Compañía Nacional de Gas SA de CV - Permiso G/11/DIS/1997
PUNTO DE MEDICIÓN: Cruce Internacional I - Estacion Importacion Rio Bravo
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)
01/01/16	93.0149	0.3101	0.1713	0.4653	6.6009	271.3640	105.7442	40.7570	52.5417	0.9189
02/01/16	92.8616	0.1851	0.1688	0.3528	5.3203	269.2210	109.2939	40.3729	52.3572	0.9189
03/01/16	93.4849	0.1801	0.1647	0.3388	5.0704	271.3540	113.7967	40.1729	52.2555	0.6892
04/01/16	93.2489	0.1806	0.1493	0.3267	5.3108	272.5180	103.7996	40.2987	52.3282	8.2705
05/01/16	92.4644	0.1877	0.1891	0.3764	5.5543	271.8870	107.5479	40.5716	52.4540	4.8245
06/01/16	92.0757	0.2074	0.1897	0.3970	5.8257	272.2640	107.9644	40.7017	52.5118	5.0542
07/01/16	91.5073	0.2316	0.2181	0.4497	6.1118	274.1580	101.4609	40.9912	52.6412	8.2705
08/01/16	91.5996	0.2189	0.2055	0.4244	5.9830	273.2110	103.3831	40.8370	52.5710	0.0000
09/01/16	91.9162	0.2152	0.2011	0.4163	5.8471	273.2150	98.1451	40.8706	52.5938	5.5137
10/01/16	92.7645	0.2723	0.1252	0.3933	5.3002	274.3560	133.2735	40.5048	52.3888	0.0000
11/01/16	92.9031	0.2573	0.1327	0.3870	5.4185	275.1380	99.3144	40.4401	52.3640	0.0000
12/01/16	93.4126	0.2838	0.1381	0.4128	4.6619	273.4250	100.7561	40.3746	52.3037	3.6758
13/01/16	93.6413	0.2513	0.1297	0.3810	4.4750	274.8110	98.9940	40.2552	52.2631	2.9866
14/01/16	93.3576	0.2848	0.1230	0.4064	4.6069	274.4170	93.3235	40.3073	52.2692	5.5137
15/01/16	93.4946	0.2799	0.1265	0.4040	4.6582	275.3210	84.4172	40.3277	52.2829	0.0000
16/01/16	93.4946	0.3090	0.1282	0.4335	4.5115	274.3950	92.0901	40.2823	52.2370	5.7434
17/01/16	93.7964	0.2482	0.1416	0.3897	4.3639	276.7190	93.7080	40.1734	52.2114	2.0676
18/01/16	93.9614	0.2358	0.1343	0.3701	4.4029	274.3940	86.1152	40.1874	52.2314	1.8379
19/01/16	93.8570	0.2538	0.1230	0.3768	4.3125	271.5410	90.4402	40.3786	52.3288	1.8379
20/01/16	94.4600	0.2481	0.1555	0.4037	4.5329	274.1880	90.1839	40.2493	52.2473	3.2163
21/01/16	93.1056	0.3083	0.1341	0.4425	4.5879	272.6340	87.6209	40.3414	52.2683	1.6082
22/01/16	93.5472	0.2528	0.1256	0.3779	4.6462	274.3480	85.5225	40.3069	52.2914	1.3784
23/01/16	93.5740	0.2814	0.1276	0.4040	4.6212	272.5280	81.2937	40.3154	52.2757	0.0000
24/01/16	93.7787	0.2519	0.1334	0.3818	4.3290	275.2160	88.4219	40.2210	52.2407	0.0000
25/01/16	93.5499	0.2542	0.1462	0.3976	4.5154	274.5860	84.4973	40.3905	52.3262	8.7300
26/01/16	93.3508	0.2730	0.1344	0.4073	4.5542	274.4380	83.9367	40.3358	52.3177	0.0000
27/01/16	93.6340	0.2817	0.1356	0.4157	4.4075	271.6460	80.4607	40.1402	52.1733	1.3784
28/01/16	94.5309	0.1939	0.1364	0.3144	3.9874	272.6610	98.6737	39.9043	52.1117	4.8245
29/01/16	94.1143	0.2550	0.1357	0.3831	4.2624	275.3400	73.9892	40.0621	52.1515	1.6082
30/01/16	94.6885	0.2271	0.1377	0.3598	4.1772	276.1310	74.5499	40.0033	52.1364	2.2974
31/01/16	95.0218	0.1844	0.1463	0.3261	3.7084	274.3110	94.9414	39.6871	51.9868	0.2297
Máximo	95.0218	0.3101	0.2181	0.4653	6.6009	276.7190	133.2735	40.9912	52.6412	8.7300

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

PERMISIONARIO: **Compañía Nacional de Gas SA de CV - Permiso G/11/DIS/1997**
 PUNTO DE MEDICIÓN: **Cruce Internacional II - Estacion Importacion Phenix**
 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)
01/01/16	91.1990	0.3640	1.3250	1.6890	5.3420			39.7280		
02/01/16										
03/01/16										
04/01/16										
05/01/16										
06/01/16										
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26/01/16										
27/01/16										
28/01/16										
29/01/16										
30/01/16										
31/01/16										
Máximo	91.1990	0.3640	1.3250	1.6890	5.3420	0.0000	0.0000	39.7280	0.0000	0.0000

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

PERMISIONARIO: Compañía Nacional de Gas SA de CV - Permiso G/11/DIS/1997
PUNTO DE MEDICIÓN: Cruce Internacional I - Estacion Importacion Rio Bravo
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)
01/01/16	91.3254	0.1868	0.1551	0.3529	4.8928	271.3640	105.7442	40.2145	52.1856	0.9189
02/01/16	92.7085	0.1825	0.1646	0.3486	5.2016	269.2210	109.2939	40.3137	52.3252	0.9189
03/01/16	93.1800	0.1639	0.1508	0.3147	4.9442	271.3540	113.7967	40.0311	52.1854	0.6892
04/01/16	92.8386	0.1706	0.1400	0.3106	5.1215	272.5180	103.7996	40.0913	52.2236	8.2705
05/01/16	92.2020	0.1820	0.1846	0.3668	5.4327	271.8870	107.5479	40.4424	52.3886	4.8245
06/01/16	91.7990	0.2000	0.1831	0.3831	5.6431	272.2640	107.9644	40.5893	52.4539	5.0542
07/01/16	91.1211	0.2210	0.2032	0.4242	5.9321	274.1580	101.4609	40.8283	52.5657	8.2705
08/01/16	91.4624	0.2123	0.2004	0.4127	5.8739	273.2110	103.3831	40.7950	52.5547	0.0000
09/01/16	91.4881	0.2043	0.1911	0.3954	5.7020	273.2150	98.1451	40.6681	52.4946	5.5137
10/01/16	92.3978	0.2370	0.1210	0.3622	5.1466	274.3560	133.2735	40.3465	52.3114	0.0000
11/01/16	92.4725	0.2279	0.1297	0.3604	5.1461	275.1380	99.3144	40.2697	52.2849	0.0000
12/01/16	92.9813	0.2424	0.1168	0.3591	4.3491	273.4250	100.7561	40.2794	52.2623	3.6758
13/01/16	93.3148	0.2417	0.1232	0.3664	4.2913	274.8110	98.9940	40.1033	52.1851	2.9866
14/01/16	93.1126	0.2677	0.1216	0.3893	4.4929	274.4170	93.3235	40.1842	52.2086	5.5137
15/01/16	93.0477	0.2489	0.1235	0.3753	4.4110	275.3210	84.4172	40.1406	52.2001	0.0000
16/01/16	93.1600	0.2659	0.1236	0.3932	4.3525	274.3950	92.0901	40.1452	52.1887	5.7434
17/01/16	93.4737	0.2281	0.1342	0.3635	4.1447	276.7190	93.7080	40.0647	52.1678	2.0676
18/01/16	93.4557	0.2076	0.1281	0.3410	4.1256	274.3940	86.1152	39.9777	52.1355	1.8379
19/01/16	93.2503	0.2360	0.1197	0.3566	4.1438	271.5410	90.4402	40.0261	52.1481	1.8379
20/01/16	93.2170	0.1540	0.1228	0.2768	3.9326	274.1880	90.1839	39.7383	52.0462	3.2163
21/01/16	93.0315	0.2974	0.1331	0.4312	4.5290	272.6340	87.6209	40.3067	52.2523	1.6082
22/01/16	93.1279	0.2429	0.1237	0.3685	4.4203	274.3480	85.5225	40.1057	52.1841	1.3784
23/01/16	93.0830	0.2463	0.1226	0.3719	4.3502	272.5280	81.2937	40.1166	52.1829	0.0000
24/01/16	93.4464	0.2387	0.1291	0.3721	4.1414	275.2160	88.4219	40.0573	52.1574	0.0000
25/01/16	93.0777	0.2311	0.1434	0.3753	4.2824	274.5860	84.4973	40.1630	52.2164	8.7300
26/01/16	93.2407	0.2321	0.1295	0.3616	4.3885	274.4380	83.9367	40.2174	52.2218	0.0000
27/01/16	93.4297	0.2755	0.1314	0.4080	4.2946	271.6460	80.4607	40.0529	52.1297	1.3784
28/01/16	94.1827	0.1780	0.1179	0.2992	3.8224	272.6610	98.6737	39.7218	52.0133	4.8245
29/01/16	93.6656	0.2232	0.1281	0.3563	4.0279	275.3400	73.9892	39.8611	52.0603	1.6082
30/01/16	93.8381	0.1915	0.1328	0.3286	3.5934	276.1310	74.5499	39.6867	51.9834	2.2974
31/01/16	94.6362	0.1683	0.1396	0.3080	3.4089	274.3110	94.9414	39.5505	51.9188	0.2297

Mínimo	91.1211	0.1540	0.1168	0.2768	3.4089	269.2210	73.9892	39.5505	51.9188	0.0000
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**INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL
(Registros mínimos diarios)**

PERMISIONARIO: Compañía Nacional de Gas SA de CV - Permiso G/11/DIS/1997
PUNTO DE MEDICIÓN: Cruce Internacional II - Estacion Importacion Phenix
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)
01/01/16	91.1990	0.3640	1.3250	1.6890	5.3420			39.7280		
02/01/16										
03/01/16										
04/01/16										
05/01/16										
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Mínimo	91.1990	0.3640	1.3250	1.6890	5.3420	0.0000	0.0000	39.7280	0.0000	0.0000
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Certificate of Analysis
Number: 4030-16010158-014A

Pleasanton Laboratory
627 2nd Street
Pleasanton, TX 78064
Phone 877-SPL-LABS

Jan. 21, 2016

Olen Douglass
Thurmond-McGothlin, Inc
1428 N. Banks
Pampa, TX 79065

Station Name: Mexico #1
Station Number: 781-006
Cylinder No: TM-11312
Analyzed: 01/21/2016 08:21:09 by AC

Sampled By: A. Ramirez
Sample Of: Gas Spot
Sample Date: 01/06/2016
Sample Conditions: 150 psig, @ 48 °F
Method: GPA-2261M

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	0.204	0.324		GPM TOTAL C2+	2.101
Carbon Dioxide	0.279	0.697		GPM TOTAL C3+	0.571
Methane	91.851	83.619		GPM TOTAL iC5+	0.068
Ethane	5.738	9.791	1.530		
Propane	1.247	3.120	0.342		
Iso-butane	0.204	0.673	0.067		
n-Butane	0.299	0.986	0.094		
Iso-pentane	0.075	0.307	0.027		
n-Pentane	0.052	0.213	0.019		
n-Pentane	0.051	0.270	0.022		
Hexanes Plus					
	100.000	100.000	2.101		

Physical Properties

Relative Density Real Gas	Total	C6+
Calculated Molecular Weight	0.6097	3.2176
Compressibility Factor	17.622	93.189
	0.9976	

GPA 2172-09 Calculation:

Calculated Gross BTU per ft ³ @ 14.65 psia & 60°F	
Real Gas Dry BTU	5113.2
Water Sat. Gas Base BTU	5023.7

Comments: H2O Mol% : 1.750 ; Wt% : 1.788

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.



Certificate of Analysis
Number: 4030-16020144-001A

Pleasanton Laboratory
627 2nd Street
Pleasanton, TX 78064
Phone 877-SPL-LABS

Olen Douglass
Thurmond-McGothlin, Inc
1428 N. Banks
Pampa, TX 79065

Feb. 10, 2016

Station Name: Custom Station
Station Number: 781-009
Cylinder No: TM-11324
Analyzed: 02/10/2016 08:43:44 by NDS

Sampled By: A. Ramirez
Sample Of: Gas Spot
Sample Date: 02/09/2016
Sample Conditions: 450 psig, @ 61 °F
Method: GPA-2261M

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	0.153	0.252		GPM TOTAL C2+	1.254
Carbon Dioxide	0.241	0.624		GPM TOTAL C3+	0.327
Methane	95.031	89.645		GPM TOTAL IC5+	0.047
Ethane	3.479	6.151	0.927		
Propane	0.691	1.792	0.190		
Iso-butane	0.105	0.359	0.034		
n-Butane	0.179	0.612	0.056		
Iso-pentane	0.044	0.187	0.016		
n-Pentane	0.035	0.148	0.013		
Hexanes Plus	0.042	0.230	0.018		
	100.000	100.000	1.254		

Physical Properties	Total	C6+
Relative Density Real Gas	0.5883	3.2176
Calculated Molecular Weight	17.006	93.189
Compressibility Factor	0.9978	
GPA 2172-09 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1052.4	5113.2
Water Sat. Gas Base BTU	1034.3	5023.7
Comments: H2O Mol% : 1.750 ; Wt% : 1.852		

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.