

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

PERMISIONARIO: **TRACTEBEL GNP, S.A. de C.V.**  
 PUNTO DE MEDICIÓN: **Nuevo Madero**  
 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 <sup>3</sup> )	Poder Calorífico (MJ/m <sup>3</sup> )	Índice Wobbe (MJ/m <sup>3</sup> )	Acido Sulfhídrico (mg/m <sup>3</sup> )	Azufre total* (mg/m <sup>3</sup> )	Oxígeno* (% vol)
	84.0 MÍN.	3.0 MÁX.	4.0 MÁX.	4.0 MÁX.	11.0 MÁX.	271.15 MÁX	110.0 MÁX.	37.3 MÍN.	48.2 MÍN.	6.0 MÁX.	150.0 MÁX.	0.2 MÁX.
01/02/2018	96.2038	0.9898	0.2795	1.2693	2.2683	272.0634	5.3800	38.1400	50.0600	0.6670		
02/02/2018	96.1820	0.9757	0.2742	1.2499	2.3033	271.1532	5.1500	38.1600	50.0900	0.8485		
03/02/2018	96.2708	0.9671	0.2583	1.2255	2.2377	270.8698	4.9300	38.1600	50.0900	0.6868		
04/02/2018	96.2467	1.0320	0.2511	1.2831	2.2063	273.1116	3.9300	38.1200	50.0300	0.8021		
05/02/2018	96.2446	0.9584	0.2865	1.2450	2.2284	273.3362	3.8000	38.1600	50.0900	0.6464		
06/02/2018	96.2299	0.9795	0.3107	1.2901	2.2040	273.2245	3.0600	38.1300	50.0500	0.6116		
07/02/2018	96.4003	0.8818	0.2967	1.1785	2.1680	270.3791	3.1000	38.1400	50.1300	0.5072		
08/02/2018	96.2449	0.7768	0.2484	1.0252	2.4423	267.6572	4.0000	38.2900	50.3100	0.4711		
09/02/2018	96.1878	0.8300	0.2471	1.0772	2.4558	267.5011	3.9700	38.2700	50.2600	0.5338		
10/02/2018	96.1356	0.8372	0.2300	1.0672	2.5275	266.4602	3.6800	38.2900	50.2800	0.6177		
11/02/2018	96.2457	0.8313	0.2067	1.0380	2.4474	267.9851	3.6100	38.2800	50.2900	0.5758		
12/02/2018	96.2502	0.8561	0.2091	1.0652	2.4245	267.7547	4.9000	38.2500	50.2500	0.6448		
13/02/2018	96.2799	0.8765	0.2046	1.0811	2.3639	267.6932	4.4000	38.2300	50.2300	0.6064		
14/02/2018	96.0877	0.9413	0.2264	1.1676	2.4982	269.7355	3.8900	38.2300	50.1700	0.6999		
15/02/2018	96.0636	0.7947	0.2493	1.0440	2.6025	268.8869	3.2300	38.3400	50.3300	0.5536		
16/02/2018	96.2503	0.8303	0.2313	1.0616	2.4089	270.8190	3.1800	38.2700	50.2700	0.5376		
17/02/2018	96.2626	0.9527	0.2395	1.1922	2.2765	273.6721	1.4800	38.1900	50.1400	0.6593		
18/02/2018	96.2227	0.9300	0.2307	1.1607	2.3363	275.0683	1.0000	38.2200	50.1700	0.6787		
19/02/2018	96.4211	0.8343	0.2242	1.0586	2.2529	272.2868	0.8900	38.2100	50.2400	0.5166		
20/02/2018	96.5046	0.8832	0.2383	1.1215	2.1053	273.8892	1.5700	38.1500	50.1600	0.4689		
21/02/2018	96.3462	0.9362	0.2653	1.2015	2.1956	273.6346	1.7700	38.1600	50.1100	0.4841		
22/02/2018	96.3127	0.9689	0.2594	1.2282	2.1873	273.3067	2.9900	38.1500	50.0900	0.4141		
23/02/2018	96.4250	1.0031	0.2492	1.2523	2.0771	273.0443	1.1900	38.0800	50.0400	0.4578		
24/02/2018	96.4566	0.9433	0.2416	1.1849	2.1274	270.3472	0.2300	38.1100	50.1000	0.4839		
25/02/2018	96.4610	0.9111	0.2397	1.1508	2.1318	272.5748	0.5200	38.1600	50.1400	0.4810		
26/02/2018	96.4268	0.9889	0.2430	1.2319	2.0908	273.6731	0.7500	38.1000	50.0600	0.5119		
27/02/2018	96.4161	0.9488	0.2305	1.1794	2.1671	270.4224	0.6800	38.1300	50.1100	0.5708		
28/02/2018	96.4383	0.8562	0.1945	1.0507	2.2510	268.8503	0.1200	38.2100	50.2300	0.5343		

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

Mínimo	96.0636	0.7768	0.1945	1.0252	2.0771	266.4602	0.1200	38.0800	50.0300	0.4141		
Promedio	96.2935	0.9113	0.2452	1.1565	2.2852	271.0500	2.7643	38.1904	50.1614	0.5811		
Máximo	96.5046	1.0320	0.3107	1.2901	2.6025	275.0683	5.3800	38.3400	50.3300	0.8485		
Desv. Est.	0.11810	0.06946	0.02742	0.08530	0.14360	2.45080	1.64830	0.06758	0.09079	0.10509		

Observaciones: **DATOS OBTENIDOS DE LOS ANALIZADORES PROPIEDAD DE ENGIE.**

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

**PERMISIONARIO:** TRACTEBEL GNP, S.A. de C.V.  
**PUNTO DE MEDICIÓN:** Nuevo Madero  
**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 <sup>3</sup> )	Poder Calorífico (MJ/m <sup>3</sup> )	Índice Wobbe (MJ/m <sup>3</sup> )	Acido Sulfhídrico (mg/m <sup>3</sup> )	Azufre total* (mg/m <sup>3</sup> )	Oxígeno* (% vol)
	<b>84.0 MÍN.</b>	<b>3.0 MÁX.</b>	<b>4.0 MÁX.</b>	<b>4.0 MÁX.</b>	<b>11.0 MÁX.</b>	<b>271.15 MÁX</b>	<b>110.0 MÁX.</b>	<b>43.6 MÁX.</b>	<b>53.2 MÁX.</b>	<b>6.0 MÁX.</b>	<b>150.0 MÁX.</b>	<b>0.2 MÁX.</b>
01/02/2018	96.3176	1.0828	0.3191	1.3589	2.8665	273.9118	33.5900	38.2600	50.1000	1.5786		
02/02/2018	96.4275	1.0907	0.3059	1.3796	2.6736	273.2119	5.7500	38.2200	50.1700	1.3443		
03/02/2018	96.4341	1.0670	0.2722	1.3202	2.7033	272.6144	33.4900	38.2400	50.1400	1.2272		
04/02/2018	96.3955	1.1169	0.2706	1.3656	2.3633	276.0988	24.6400	38.1600	50.0900	0.9839		
05/02/2018	96.4550	1.0052	0.3221	1.3058	2.3161	275.6100	32.0800	38.1900	50.1500	0.8307		
06/02/2018	96.3650	1.0221	0.3322	1.3504	2.3791	274.9575	4.3400	38.1800	50.0900	0.7767		
07/02/2018	96.5721	0.9926	0.3203	1.2962	2.2733	273.1432	21.5300	38.2000	50.2100	0.7136		
08/02/2018	96.4789	0.8386	0.3018	1.1364	2.7762	270.9610	32.2800	38.4600	50.4300	0.6235		
09/02/2018	96.3733	0.8757	0.2773	1.1118	2.7430	274.7885	32.7800	38.3800	50.3100	0.7857		
10/02/2018	96.3247	0.9489	0.3113	1.2602	2.6736	274.0152	7.6600	38.3700	50.3700	0.7947		
11/02/2018	96.4068	0.9384	0.2245	1.1336	3.0480	274.8543	9.5700	38.3900	50.3300	1.3984		
12/02/2018	96.4294	0.9722	0.2437	1.2138	2.6051	277.3999	32.1800	38.2900	50.2900	0.9118		
13/02/2018	96.4548	0.9929	0.2308	1.2237	2.6435	288.3883	19.7200	38.3800	50.3000	0.9749		
14/02/2018	96.3640	1.1339	0.2426	1.3437	3.9346	287.7610	27.8600	38.5300	50.2900	1.7318		
15/02/2018	96.2874	0.9468	0.2802	1.2061	3.1626	286.8502	10.7700	38.7200	50.9400	0.8307		
16/02/2018	96.4310	0.9702	0.2504	1.2073	2.7328	287.8265	26.7500	38.4300	50.3700	0.8037		
17/02/2018	96.5435	1.0593	0.2626	1.2877	2.8105	289.4196	3.5400	38.2900	50.2600	0.9388		
18/02/2018	96.4235	1.0518	0.2682	1.3169	2.6537	288.1996	1.7300	38.3400	50.3200	0.9749		
19/02/2018	96.5709	0.9056	0.2380	1.1408	2.3444	286.9536	1.5300	38.2600	50.2900	0.7226		
20/02/2018	96.5829	0.9326	0.2609	1.1779	2.2788	287.4951	5.0400	38.2300	50.2300	0.5874		
21/02/2018	96.6737	1.0848	0.3314	1.3353	2.6116	287.5450	6.8500	38.2900	50.2800	0.6865		
22/02/2018	96.5024	1.0602	0.2783	1.3257	2.4073	289.0518	31.3800	38.2000	50.1500	0.5604		
23/02/2018	96.5787	1.0733	0.2790	1.3322	2.1959	286.9470	4.9400	38.1600	50.1300	0.5694		
24/02/2018	96.5807	1.0126	0.2777	1.2825	2.2107	286.0439	0.6200	38.2000	50.1900	0.6145		
25/02/2018	96.5794	0.9613	0.2687	1.2271	2.2461	288.3920	1.6300	38.2200	50.2000	0.6325		
26/02/2018	96.6057	1.0586	0.2820	1.3051	2.2600	290.0208	3.0300	38.1600	50.1400	0.6235		
27/02/2018	96.6341	1.0367	0.2624	1.2959	2.3197	288.8640	4.5400	38.1900	50.1900	1.2993		
28/02/2018	96.5601	0.9979	0.2391	1.2310	2.5234	288.7411	0.4200	38.3600	50.4000	0.9298		

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<b>Mínimo</b>	96.2874	0.8386	0.2245	1.1118	2.1959	270.9610	0.4200	38.1600	50.0900	0.5604		
<b>Promedio</b>	96.4769	1.0082	0.2769	1.2668	2.5985	282.1452	15.0086	38.2964	50.2629	0.9089		
<b>Máximo</b>	96.6737	1.1339	0.3322	1.3796	3.9346	290.0208	33.5900	38.7200	50.9400	1.7318		
<b>Desv. Est.</b>	0.10493	0.07318	0.03109	0.07803	0.36753	7.05121	12.94665	0.12976	0.16429	0.31515		

Observaciones: DATOS OBTENIDOS DE LOS ANALIZADORES PROPIEDAD DE ENGIE.

INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL (Registros Mínimos diarios)												
PERMISIONARIO:	TRACTEBEL GNP, S.A. de C.V.											
PUNTO DE MEDICIÓN:	Nuevo Madero											
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 <sup>3</sup> )	Poder Calorífico (MJ/m <sup>3</sup> )	Índice Wobbe (MJ/m <sup>3</sup> )	Acido Sulfhídrico (mg/m <sup>3</sup> )	Azufre total* (mg/m <sup>3</sup> )	Oxígeno* (% vol)
	84.0 MÍN.	3.0 MÁX.	4.0 MÁX.	4.0 MÁX.	11.0 MÁX.	271.15 MÁX	110.0 MÁX.	37.3 MÍN.	48.2 MÍN.	6.0 MÁX.	150.0 MÁX.	0.2 MÁX.
01/02/2018	95.5422	0.9413	0.2627	1.2296	2.1936	270.3442	4.4400	38.1100	50.0100	0.4703		
02/02/2018	95.7338	0.8612	0.2444	1.1272	2.0986	269.1834	4.4400	38.0900	50.0100	0.5514		
03/02/2018	95.7232	0.9242	0.2436	1.1823	2.0908	269.4025	0.4200	38.1200	50.0600	0.5244		
04/02/2018	96.0041	0.9748	0.2332	1.2229	2.0494	269.5589	0.4200	38.0900	49.9700	0.5874		
05/02/2018	96.1175	0.9125	0.2440	1.1667	2.1065	272.2542	2.8300	38.1200	50.0500	0.5063		
06/02/2018	96.0689	0.9450	0.2954	1.2486	2.0804	272.1539	2.1300	38.0900	50.0100	0.5063		
07/02/2018	96.2020	0.8066	0.2574	1.0640	2.0658	266.1387	1.3300	38.0900	50.0300	0.3532		
08/02/2018	95.8644	0.7392	0.2234	0.9733	2.1456	266.1129	1.3300	38.1500	50.1700	0.3351		
09/02/2018	95.8222	0.7786	0.2248	1.0219	2.3117	265.5893	1.3300	38.2300	50.2200	0.3622		
10/02/2018	95.7754	0.7738	0.2111	0.9877	2.3826	265.1799	1.3300	38.2400	50.1500	0.4523		
11/02/2018	95.5739	0.7879	0.1926	0.9907	2.3206	265.9373	1.3300	38.2200	50.2300	0.3442		
12/02/2018	96.0703	0.8166	0.1927	1.0260	2.1377	266.0362	1.3300	38.1300	50.0800	0.3802		
13/02/2018	95.8874	0.8207	0.1954	1.0278	2.1077	265.9514	1.3300	38.1000	50.0600	0.4793		
14/02/2018	94.5341	0.8351	0.2015	1.0747	2.2308	265.5731	1.3300	38.1400	50.0600	0.3982		
15/02/2018	95.6858	0.3057	0.1273	0.4331	2.3044	262.4663	1.2300	38.2400	50.2100	0.2631		
16/02/2018	95.7587	0.7332	0.2119	0.9672	2.2429	267.7203	1.2300	38.1900	50.1300	0.3351		
17/02/2018	95.6866	0.8217	0.2090	1.0535	2.1308	271.0530	0.6200	38.1400	50.0500	0.3712		
18/02/2018	95.9831	0.7901	0.2065	1.0085	2.2361	273.1129	0.5200	38.1600	50.0400	0.4883		
19/02/2018	96.3048	0.7959	0.2161	1.0129	2.1496	270.7343	0.4200	38.1700	50.1700	0.3081		
20/02/2018	96.3837	0.8231	0.2207	1.0607	2.0330	271.6099	0.7200	38.1200	50.1100	0.3261		
21/02/2018	95.8634	0.7899	0.2397	1.0463	1.9659	270.1895	0.6200	38.0900	50.0000	0.2901		
22/02/2018	96.0392	0.8745	0.2386	1.1353	2.0074	268.6820	0.6200	38.1100	50.0200	0.3081		
23/02/2018	96.3206	0.9086	0.2288	1.1738	1.9905	271.4384	0.1200	38.0400	49.9600	0.3171		
24/02/2018	96.3019	0.8692	0.2125	1.0914	2.0059	269.2705	0.0200	38.0400	49.9900	0.3892		
25/02/2018	96.3309	0.8779	0.2243	1.1066	1.9572	268.9526	0.0200	38.0800	50.0500	0.3712		
26/02/2018	96.2501	0.8837	0.2294	1.1439	1.9700	271.5431	0.1200	38.0500	49.9800	0.3712		
27/02/2018	96.2102	0.8854	0.2082	1.1013	1.9791	268.3715	0.0200	38.0600	49.9900	0.4343		
28/02/2018	96.1694	0.7368	0.1710	0.9221	2.0536	266.0591	0.0200	38.0800	50.0500	0.3712		

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Mínimo	94.5341	0.3057	0.1273	0.4331	1.9572	262.4663	0.0200	38.0400	49.9600	0.2631		
Promedio	95.9360	0.8219	0.2202	1.0571	2.1196	268.5935	1.1293	38.1246	50.0664	0.3998		
Máximo	96.3837	0.9748	0.2954	1.2486	2.3826	273.1129	4.4400	38.2400	50.2300	0.5874		
Desv. Est.	0.37043	0.12071	0.03095	0.14897	0.11962	2.71144	1.15380	0.05796	0.07809	0.08565		

Observaciones: DATOS OBTENIDOS DE LOS ANALIZADORES PROPIEDAD DE ENGIE.