

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

PERMISIONARIO: NATGASMEX, S.A. DE C.V.  
 PUNTO DE MEDICIÓN: Tetla  
 ZONA DE MEDICIÓN: SUR



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>83.0 MÍN.</b>	<b>3.0 MÁX.</b>	<b>6.0 MÁX.</b>	<b>6.0 MÁX.</b>	<b>11.0 MÁX.</b>	<b>271.15 MÁX</b>	<b>110.0 MÁX.</b>	<b>36.8 MÍN.</b>	<b>47.3 MÍN.</b>	<b>6.0 MÁX.</b>	<b>150.0 MÁX.</b>	<b>0.2 MÁX.</b>
01/12/2017	95.4607	0.7224	0.2750	0.9974	2.8826	254.1302	28.1300	39.3600	51.4800	0.2596		
02/12/2017	95.6140	0.7144	0.2970	1.0114	2.7830	253.2923	28.8300	39.3100	51.4400	0.2707		
03/12/2017	95.5487	0.7311	0.2865	1.0176	2.8731	252.7822	29.4300	39.2900	51.4300	0.3117		
04/12/2017	95.5882	0.7312	0.2859	1.0171	2.8319	254.1055	30.0900	39.2700	51.4200	0.2228		
05/12/2017	95.8455	0.7303	0.2720	1.0021	2.6515	253.6455	29.7700	39.2000	51.3700	0.1251		
06/12/2017	95.8063	0.6932	0.2544	0.9475	2.6146	253.2720	28.8900	39.2800	51.4800	0.0309		
07/12/2017	95.7291	0.7236	0.2804	1.0040	2.6743	252.1418	28.9000	39.2800	51.4300	0.1495		
08/12/2017	95.7143	0.7178	0.2916	1.0094	2.6498	252.0499	28.0100	39.2700	51.4100	0.1049		
09/12/2017	95.7292	0.7102	0.2721	0.9824	2.6708	252.1706	28.5800	39.2800	51.4400	0.0794		
10/12/2017	95.7925	0.7053	0.2599	0.9653	2.6211	251.7896	27.2600	39.2700	51.4600	0.0722		
11/12/2017	95.3422	0.6395	0.2183	0.8579	2.9300	253.3892	26.4400	39.5600	51.6800	0.0717		
12/12/2017	95.0701	0.6632	0.2475	0.9107	3.1541	254.0663	25.4400	39.5900	51.6600	0.0544		
13/12/2017	94.8932	0.5888	0.2392	0.8280	3.2484	237.3316	24.7500	39.7600	51.8300	0.0147		
14/12/2017	94.6545	0.5353	0.2083	0.7436	3.4374	230.1710	24.6400	39.9300	51.9500	0.0550		
15/12/2017	94.7249	0.6211	0.2682	0.8893	3.4806	245.6659	25.3500	39.7300	51.7500	0.1830		
16/12/2017	95.1204	0.6533	0.2741	0.9274	3.1850	256.4624	27.5800	39.5100	51.6000	0.2708		
17/12/2017	95.2948	0.6587	0.3418	1.0005	3.2345	254.6220	29.2800	39.3200	51.4600	0.1938		
18/12/2017	95.3109	0.6828	0.3418	1.0246	3.2011	239.2450	30.4700	39.3100	51.4400	0.0513		
19/12/2017	95.0894	0.6558	0.2883	0.9441	3.3321	235.8321	29.8800	39.4800	51.6000	0.0741		
20/12/2017	95.3995	0.6664	0.3338	1.0002	3.1748	255.1902	28.2900	39.2800	51.4500	0.1556		
21/12/2017	95.9364	0.6933	0.3205	1.0139	2.7269	255.9326	29.2800	39.0900	51.3300	0.1964		
22/12/2017	95.5644	0.6242	0.3076	0.9318	3.0199	256.6739	30.2100	39.3000	51.5100	0.1536		
23/12/2017	95.4322	0.6397	0.3417	0.9815	3.2485	256.7713	29.9000	39.2600	51.4300	0.0744		
24/12/2017	95.5948	0.6631	0.3623	1.0254	3.1168	255.8938	31.5500	39.1600	51.3700	0.0744		
25/12/2017	95.7961	0.7003	0.3490	1.0492	2.9279	256.4936	30.9400	39.0700	51.2900	0.0744		
26/12/2017	95.6657	0.6728	0.3307	1.0035	2.9280	255.8137	29.9400	39.1800	51.3800	0.0781		
27/12/2017	96.1233	0.7436	0.2640	1.0076	2.4834	256.9826	29.1000	39.0500	51.2900	0.2493		
28/12/2017	96.3190	0.7590	0.2858	1.0448	2.4133	256.7424	28.9600	38.9200	51.1900	0.4081		
29/12/2017	96.2112	0.7205	0.2906	1.0111	2.4058	256.1604	28.7400	39.0200	51.2800	0.3433		
30/12/2017	96.0755	0.7012	0.2643	0.9655	2.5079	256.2660	29.0000	39.1200	51.3600	0.3371		
31/12/2017	96.0439	0.7035	0.2700	0.9735	2.4969	256.9804	28.4800	39.1300	51.3700	0.3217		

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

<b>Mínimo</b>	94.6545	0.5353	0.2083	0.7436	2.4058	230.1710	24.6400	38.9200	51.1900	0.0147		
<b>Promedio</b>	95.5642	0.6828	0.2878	0.9706	2.9002	252.0021	28.5842	39.3090	51.4703	0.1633		
<b>Máximo</b>	96.3190	0.7590	0.3623	1.0492	3.4806	256.9826	31.5500	39.9300	51.9500	0.4081		
<b>Desv. Est.</b>	0.41457	0.04856	0.03800	0.06718	0.31360	6.90971	1.73787	0.22486	0.16508	0.10939		

Observaciones: DATOS OBTENIDOS DE LOS ANALIZADORES PROPIEDAD DE ENGIE.

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

PERMISIONARIO: **NATGASMEX, S.A. DE C.V.**  
 PUNTO DE MEDICIÓN: **Tetla**  
 ZONA DE MEDICIÓN: **SUR**



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>83.0 MÍN.</b>	<b>3.0 MÁX.</b>	<b>6.0 MÁX.</b>	<b>6.0 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>
01/12/2017	95.6785	0.7981	0.2945	1.0892	3.0285	255.6806	29.6700	39.4600	51.5500	0.3802		
02/12/2017	95.7459	0.7829	0.3131	1.0837	2.9151	255.2970	30.1700	39.4400	51.5400	0.3532		
03/12/2017	95.8121	0.8000	0.3137	1.0807	3.2500	254.9792	30.6700	39.4600	51.5300	0.4252		
04/12/2017	96.1166	0.8646	0.3307	1.1873	2.9830	255.7820	53.6900	39.4700	51.5800	0.3081		
05/12/2017	96.3316	0.7670	0.3038	1.0615	2.9683	255.7314	55.1900	39.3700	51.5000	0.3622		
06/12/2017	96.3532	0.7697	0.2941	1.0612	3.1366	254.9581	50.9700	39.5400	51.6000	0.1279		
07/12/2017	96.1933	0.8662	0.3496	1.2113	2.8916	254.5713	53.8900	39.4600	51.6000	0.2721		
08/12/2017	96.1687	0.8668	0.3375	1.1929	2.8180	254.4935	31.8800	39.5100	51.5900	0.1910		
09/12/2017	95.8263	0.7384	0.2833	1.0208	2.8362	253.6959	54.5900	39.3600	51.5100	0.1639		
10/12/2017	95.9106	0.7383	0.2764	1.0015	2.8186	253.7465	46.7500	39.4900	51.6300	0.3712		
11/12/2017	95.9915	0.7493	0.2812	1.0206	3.1429	256.5201	51.7800	39.7400	51.8300	0.1549		
12/12/2017	95.3762	0.7036	0.2712	0.9581	3.4764	257.4364	51.3800	39.7100	51.7500	0.1639		
13/12/2017	95.2314	0.6491	0.2837	0.8845	3.4499	259.0188	26.3500	40.0300	52.0400	0.1279		
14/12/2017	95.1080	0.6951	0.2781	0.9732	3.5839	259.2082	26.1500	40.0600	52.0700	0.1459		
15/12/2017	95.6446	0.8350	0.3441	1.1680	3.8690	257.7070	29.9700	40.0300	52.0000	0.2901		
16/12/2017	95.6182	0.7265	0.3320	0.9805	3.4105	258.7430	31.8800	39.6500	51.7000	0.3712		
17/12/2017	96.0361	0.7761	0.4238	1.0699	3.6754	258.8109	30.8700	39.4600	51.5900	0.3442		
18/12/2017	95.8195	0.7876	0.4013	1.1410	3.5413	257.0222	36.8000	39.5200	51.6000	0.1820		
19/12/2017	95.5972	0.7524	0.3342	1.0861	3.5683	257.3328	35.6000	39.6200	51.7100	0.1549		
20/12/2017	96.0450	0.8150	0.3925	1.1470	3.6749	257.8533	30.4700	39.7700	51.8500	0.2631		
21/12/2017	96.4511	0.7827	0.3813	1.0818	3.0970	259.4777	31.2800	39.2400	51.4400	0.2991		
22/12/2017	95.9924	0.6935	0.3510	0.9733	3.5507	259.7284	35.7000	39.4600	51.6100	0.2721		
23/12/2017	95.8781	0.7276	0.3822	1.0428	3.4537	260.2614	31.2800	39.3900	51.5500	0.2000		
24/12/2017	96.0927	0.7590	0.4233	1.0698	3.6019	259.5558	36.0000	39.2900	51.4700	0.0919		
25/12/2017	96.0635	0.7217	0.3721	1.0869	3.0862	258.6395	36.3000	39.1300	51.3300	0.0828		
26/12/2017	96.1761	0.7519	0.3967	1.0803	3.2865	259.8287	31.3800	39.3800	51.5500	0.2000		
27/12/2017	96.6049	0.8283	0.3176	1.1115	2.9315	260.0533	31.4800	39.3600	51.5600	0.4162		
28/12/2017	96.7511	0.8005	0.3163	1.0965	3.0112	260.2896	30.4700	39.1200	51.3300	0.5604		
29/12/2017	96.7464	0.7795	0.3259	1.0858	2.6303	258.9026	31.0700	39.1600	51.4000	0.4523		
30/12/2017	96.3202	0.7368	0.2919	1.0058	2.6919	259.4610	30.6700	39.2100	51.4300	0.4433		
31/12/2017	96.3929	0.7466	0.3093	1.0136	2.8312	260.0565	29.6700	39.2200	51.4100	0.4343		

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

<b>Mínimo</b>	95.1080	0.6491	0.2712	0.8845	2.6303	253.6959	26.1500	39.1200	51.3300	0.0828		
<b>Promedio</b>	96.0024	0.7681	0.3325	1.0667	3.2003	257.5756	36.9039	39.4874	51.6081	0.2776		
<b>Máximo</b>	96.7511	0.8668	0.4238	1.2113	3.8690	260.2896	55.1900	40.0600	52.0700	0.5604		
<b>Desv. Est.</b>	0.40030	0.05223	0.04500	0.07407	0.33804	2.13724	9.62153	0.24835	0.18824	0.12516		

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

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

PERMISIONARIO: NATGASMEX, S.A. DE C.V.  
 PUNTO DE MEDICIÓN: Tetla  
 ZONA DE MEDICIÓN: SUR



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>83.0 MÍN.</b>	<b>3.0 MÁX.</b>	<b>6.0 MÁX.</b>	<b>6.0 MÁX.</b>	<b>11.0 MÁX.</b>	<b>271.15 MÁX</b>	<b>110.0 MÁX.</b>	<b>36.8 MÍN.</b>	<b>47.3 MÍN.</b>	<b>6.0 MÁX.</b>	<b>150.0 MÁX.</b>	<b>0.2 MÁX.</b>
01/12/2017	95.2620	0.6793	0.2463	0.9467	2.7040	253.0196	26.3500	39.2200	51.3400	0.1639		
02/12/2017	95.3608	0.6613	0.2776	0.9452	2.6873	251.3626	27.0500	39.2100	51.3400	0.1549		
03/12/2017	95.1236	0.6719	0.2500	0.9610	2.6560	251.0967	27.4600	39.1900	51.3400	0.1639		
04/12/2017	95.3649	0.6573	0.2619	0.9279	2.4333	252.3536	25.6500	38.9700	51.1400	0.1279		
05/12/2017	95.4369	0.6824	0.2339	0.9544	2.2782	252.1177	27.9600	39.0200	51.2600	0.1279		
06/12/2017	95.1292	0.6117	0.2136	0.8387	2.2889	251.5548	21.8300	39.0300	51.3000	0.1279		
07/12/2017	95.4596	0.6506	0.2249	0.8792	2.2981	249.4501	16.9000	38.9400	51.1000	0.0468		
08/12/2017	95.4183	0.6680	0.2645	0.9443	2.3502	250.2777	17.1000	38.9300	51.1100	0.0018		
09/12/2017	95.5347	0.6824	0.2587	0.9476	2.5859	250.5750	26.5500	39.2300	51.3900	0.0018		
10/12/2017	95.5092	0.6288	0.2378	0.8697	2.5290	249.7092	25.0400	39.2100	51.3900	0.0018		
11/12/2017	94.9941	0.5719	0.1975	0.7741	2.5204	251.1113	18.7100	39.1300	51.3300	0.0018		
12/12/2017	94.7554	0.6310	0.2166	0.8525	2.9053	213.3993	15.8000	39.4900	51.6000	0.0018		
13/12/2017	94.6084	0.4802	0.2051	0.7116	2.9949	212.9780	16.2000	39.6200	51.7300	0.0018		
14/12/2017	94.3859	0.4655	0.1843	0.6850	3.0766	215.0276	15.2000	39.5500	51.6000	0.0018		
15/12/2017	94.2583	0.5491	0.2125	0.7694	2.7434	212.3114	23.7400	39.1200	51.2400	0.0288		
16/12/2017	94.8358	0.5808	0.2294	0.8830	2.7682	254.4440	24.9400	39.3500	51.5000	0.1549		
17/12/2017	94.8600	0.5578	0.2705	0.9136	2.5073	251.8661	26.8500	39.0500	51.2600	0.0018		
18/12/2017	94.8952	0.6274	0.2618	0.9457	2.7997	207.4763	27.6600	39.0000	51.1900	0.0018		
19/12/2017	94.7914	0.5911	0.2374	0.8608	2.8287	202.0455	27.6600	39.1700	51.3400	0.0018		
20/12/2017	94.6783	0.5116	0.2674	0.8006	2.5188	252.8759	26.4500	38.9500	51.1500	0.0468		
21/12/2017	95.5415	0.6094	0.2704	0.9537	2.2606	253.0990	26.7500	38.8900	51.1800	0.1009		
22/12/2017	95.0263	0.5495	0.2535	0.8774	2.5270	253.3172	27.9600	39.2200	51.4300	0.0468		
23/12/2017	95.1734	0.6060	0.2655	0.9380	2.6873	254.4262	27.7600	39.1500	51.3500	0.0468		
24/12/2017	95.1522	0.5810	0.2922	0.9757	2.5736	253.0766	26.2500	38.9900	51.2200	0.0468		
25/12/2017	95.6314	0.6805	0.3316	1.0256	2.6552	254.8854	25.7500	38.9900	51.2500	0.0468		
26/12/2017	95.3606	0.6253	0.2316	0.8919	2.5027	252.9166	28.3600	38.9500	51.2000	0.0468		
27/12/2017	95.5746	0.6159	0.2279	0.8696	2.1352	254.4970	27.1500	38.8300	51.1300	0.1279		
28/12/2017	95.7366	0.6943	0.2508	0.9934	1.9723	254.4196	27.5600	38.7800	51.1000	0.2631		
29/12/2017	95.8793	0.6704	0.2576	0.9426	2.0398	253.7940	27.1500	38.8000	51.1100	0.1910		
30/12/2017	95.8436	0.6712	0.2392	0.9321	2.3039	253.8419	26.7500	39.0000	51.2600	0.2360		
31/12/2017	95.6930	0.6604	0.2304	0.9437	2.1968	254.8798	27.0500	39.0300	51.3100	0.1820		

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

<b>Mínimo</b>	94.2583	0.4655	0.1843	0.6850	1.9723	202.0455	15.2000	38.7800	51.1000	0.0018		
<b>Promedio</b>	95.2024	0.6169	0.2452	0.8953	2.5267	244.4582	24.6319	39.0971	51.2965	0.0805		
<b>Máximo</b>	95.8793	0.6943	0.3316	1.0256	3.0766	254.8854	28.3600	39.6200	51.7300	0.2631		
<b>Desv. Est.</b>	0.41932	0.06108	0.02967	0.08000	0.27058	17.07094	4.21270	0.20515	0.15605	0.07895		

Observaciones: DATOS OBTENIDOS DE LOS ANALIZADORES PROPIEDAD DE ENGIE.