

**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)
	83.0 MÍN.	3.0 MÁX.	6.0 MÁX.	6.0 MÁX.	11.0 MÁX.	271.15 MÁX	110.0 MÁX.	36.8 MÍN.	47.3 MÍN.	6.0 MÁX.	150.0 MÁX.	0.2 MÁX.
01/12/2016	94.0304	0.6173	1.9060	2.5232	3.1377	257.3454	26.0100	38.6100	50.3600	0.7113		
02/12/2016	93.6588	0.5511	2.3148	2.8661	3.2205	257.1783	23.8600	38.4700	50.1500	1.0004		
03/12/2016	93.2681	0.5058	2.8156	3.3214	3.1303	256.6666	25.4600	38.2800	49.8400	1.0431		
04/12/2016	93.6449	0.6084	2.0718	2.6802	3.3975	256.6132	25.2800	38.6000	50.2900	0.9879		
05/12/2016	93.6749	0.6549	1.8524	2.5074	3.4888	256.9088	22.2200	38.7300	50.4400	0.9561		
06/12/2016	92.5283	0.6119	2.7758	3.3876	3.7385	258.2001	25.9200	38.4800	49.9000	1.2148		
07/12/2016	92.7001	0.6929	2.4712	3.1639	3.8165	257.3944	24.8800	38.5700	50.0400	1.0528		
08/12/2016	92.2867	0.6895	2.7306	3.4200	3.9509	257.5901	24.1900	38.5200	49.9000	0.9421		
09/12/2016	92.3191	0.7059	2.6049	3.3107	4.0467	257.1989	23.1800	38.5800	49.9800	0.9515		
10/12/2016	92.6242	0.6959	2.0129	2.7088	4.3508	256.4199	22.3200	38.9000	50.4200	0.9662		
11/12/2016	93.7466	0.6637	1.8819	2.5456	3.4149	256.5294	20.7800	38.6700	50.3800	0.9969		
12/12/2016	94.5643	0.7001	1.2511	1.9512	3.1911	256.6014	20.9400	38.8300	50.7400	0.4275		
13/12/2016	94.9047	0.7450	0.7666	1.5116	3.2881	256.2883	19.1800	39.0300	51.0400	0.8619		
14/12/2016	94.1490	0.5179	2.2293	2.7472	2.8323	259.6859	22.5500	38.4200	50.1700	1.6570		
15/12/2016	93.5546	0.5461	2.4364	2.9827	3.1941	255.7234	24.0600	38.4300	50.0700	1.1989		
16/12/2016	94.6636	0.6824	1.3072	1.9897	3.0679	253.9414	19.6000	38.7700	50.6900	0.9392		
17/12/2016	94.4335	0.6081	1.6232	2.2314	3.1052	254.9842	18.2600	38.6600	50.5300	1.0840		
18/12/2016	94.8476	0.6426	1.3551	1.9980	2.9052	256.0201	19.5600	38.7100	50.6600	1.2641		
19/12/2016	94.2443	0.6431	1.4378	2.0810	3.3209	256.4344	19.0100	38.8700	50.7200	1.0558		
20/12/2016	94.2016	0.6354	1.8101	2.4455	3.0383	257.5366	20.7900	38.6200	50.4000	1.3529		
21/12/2016	93.8855	0.5684	2.2439	2.8122	3.0062	257.6548	20.2600	38.4500	50.1500	1.3120		
22/12/2016	94.2031	0.6117	1.9912	2.6028	2.9072	256.9080	20.8400	38.5100	50.2600	1.1618		
23/12/2016	94.9450	0.6795	1.1055	1.7849	2.9632	256.5561	21.4700	38.8500	50.8200	0.8268		
24/12/2016	94.5344	0.6338	1.5904	2.2243	2.9060	257.8726	21.4200	38.6700	50.5400	0.9222		
25/12/2016	95.3794	0.6997	0.7160	1.4157	2.8896	256.9497	20.5300	38.9700	51.0700	0.7464		
26/12/2016	95.1828	0.6679	0.7637	1.4316	3.0430	258.3775	19.9300	39.0300	51.1000	1.5537		
27/12/2016	94.8998	0.6260	1.3778	2.0039	2.8350	259.2522	20.0700	38.7000	50.6500	1.6449		
28/12/2016	94.0457	0.6130	1.8989	2.5120	3.1685	258.4414	21.0700	38.6000	50.3700	1.3015		
29/12/2016	93.9716	0.5275	2.4591	2.9864	2.7701	258.1337	22.8700	38.3100	50.0100	1.2436		
30/12/2016	93.9709	0.5386	2.4275	2.9660	2.7886	257.9871	23.4700	38.3200	50.0100	1.1169		
31/12/2016	92.9232	0.4000	3.6304	4.0303	2.7630	258.8067	24.1500	37.9100	49.3300	1.5354		

\*/ 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>	92.2867	0.4000	0.7160	1.4157	2.7630	253.9414	18.2600	37.9100	49.3300	0.4275		
<b>Promedio</b>	93.9351	0.6221	1.9309	2.5530	3.2154	257.1678	22.0687	38.6152	50.3558	1.0977		
<b>Máximo</b>	95.3794	0.7450	3.6304	4.0303	4.3508	259.6859	26.0100	39.0300	51.1000	1.6570		
<b>Desv. Est.</b>	0.84931	0.07445	0.67722	0.63041	0.40037	1.19100	2.21288	0.24025	0.40105	0.27508		

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)
	83.0 MÍN.	3.0 MÁX.	6.0 MÁX.	6.0 MÁX.	11.0 MÁX.	271.15 MÁX	110.0 MÁX.	43.6 MÁX.	53.2 MÁX.	6.0 MÁX.	150.0 MÁX.	0.2 MÁX.
01/12/2016	94.4644	0.6807	4.5068	4.6191	5.6788	271.8676	30.0700	38.8000	50.5400	1.0109		
02/12/2016	94.2615	0.6296	4.4587	4.5784	5.6560	271.9631	27.5600	38.6800	50.3800	1.4254		
03/12/2016	93.8802	0.5765	4.5195	4.6316	5.6393	272.0363	50.2700	38.5600	50.2500	1.5245		
04/12/2016	94.5446	0.8108	4.3651	4.5006	5.5430	272.1775	41.9300	39.0600	50.9900	1.3713		
05/12/2016	94.8610	0.7952	4.3156	4.4591	5.5984	271.9150	49.9700	39.0600	50.9800	1.4074		
06/12/2016	93.5706	0.7307	4.4250	4.5539	5.6167	272.0650	51.8800	38.7400	50.3000	2.0021		
07/12/2016	93.3721	0.7815	4.4955	4.6152	5.6732	271.9556	29.5700	38.8100	50.4200	1.5515		
08/12/2016	92.9076	0.7740	4.5031	4.6238	5.6673	271.9537	25.3500	38.7300	50.2500	1.5335		
09/12/2016	92.9945	0.7660	4.1660	4.4298	5.2805	272.1220	24.1400	38.7900	50.2800	1.4524		
10/12/2016	93.7630	0.8041	4.0496	4.2825	5.4315	272.5345	23.4400	39.1000	50.8000	1.4074		
11/12/2016	94.4798	0.7628	4.1410	4.3263	5.5010	272.2887	22.3300	38.9700	50.7700	1.3894		
12/12/2016	95.5126	0.8233	4.1142	4.2978	5.3789	272.1007	22.5300	39.1800	51.3400	28.8081		
13/12/2016	95.4580	0.8548	3.5670	3.8229	5.1821	272.2737	21.3300	39.2500	51.3900	1.3083		
14/12/2016	97.0601	0.7802	4.2046	4.6012	5.1385	272.2635	25.3500	39.1000	51.2500	2.8310		
15/12/2016	94.2150	0.6123	4.3207	4.5157	5.1859	272.2250	50.0700	38.6600	50.4600	6.3721		
16/12/2016	95.5780	0.7961	3.7271	3.9731	5.0550	272.1489	22.0300	39.1000	51.2400	1.2362		
17/12/2016	95.4846	0.6550	3.4763	3.7710	4.7339	272.3162	20.7200	38.8900	50.7400	1.4705		
18/12/2016	95.5259	0.7280	3.1816	3.4822	4.4674	272.2461	21.0200	38.9800	51.1000	2.2544		
19/12/2016	95.4484	0.7638	3.5787	3.8370	5.0891	272.3365	20.0200	39.0100	51.1000	2.5877		
20/12/2016	94.9219	0.7664	4.0644	4.2525	5.3629	272.5141	22.3300	38.9300	50.9000	2.4616		
21/12/2016	94.8235	0.6933	4.0565	4.2543	5.2558	272.4225	21.8300	38.8800	50.7900	1.9660		
22/12/2016	94.5535	0.6537	4.2391	4.4074	5.3749	272.3854	21.9300	38.6100	50.4100	1.7768		
23/12/2016	95.8658	0.7756	3.9512	4.1597	5.0537	272.3202	23.3400	39.1400	51.3500	1.3173		
24/12/2016	95.1183	0.6872	3.9552	4.1630	5.1684	272.5708	22.6300	38.8800	50.9000	1.3533		
25/12/2016	95.7064	0.7892	3.6857	3.9197	5.0598	272.5225	22.3300	39.2200	51.4000	0.9749		
26/12/2016	95.6898	0.7638	3.3850	3.6531	5.0134	272.4146	21.1200	39.2400	51.4100	4.7322		
27/12/2016	96.8342	0.7570	3.4249	3.7006	5.0107	272.4290	21.4300	39.1300	51.3400	2.3445		
28/12/2016	95.3367	0.7720	3.3438	3.6427	4.8490	272.4154	22.7300	39.0100	51.1000	1.9750		
29/12/2016	94.8459	0.6524	3.5917	3.9163	4.5804	272.4245	24.0400	38.8100	50.6200	1.7678		
30/12/2016	94.8702	0.6814	6.8838	6.9364	4.1961	272.4557	24.5400	38.6200	50.5400	1.8038		
31/12/2016	95.1442	0.4820	5.6092	5.7947	4.3369	272.4452	50.5700	38.3800	50.3400	2.1643		

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<b>Mínimo</b>	92.9076	0.4820	3.1816	3.4822	4.1961	271.8676	20.0200	38.3800	50.2500	0.9749		
<b>Promedio</b>	94.8739	0.7290	4.1389	4.3459	5.1864	272.2616	28.3355	38.9135	50.8284	2.8252		
<b>Máximo</b>	97.0601	0.8548	6.8838	6.9364	5.6788	272.5708	51.8800	39.2500	51.4100	28.8081		
<b>Desv. Est.</b>	0.97652	0.08175	0.70762	0.65705	0.40513	0.20315	10.70187	0.22207	0.39972	4.94216		

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)
	83.0 MÍN.	3.0 MÁX.	6.0 MÁX.	6.0 MÁX.	11.0 MÁX.	271.15 MÁX	110.0 MÁX.	36.8 MÍN.	47.3 MÍN.	6.0 MÁX.	150.0 MÁX.	0.2 MÁX.
01/12/2016	89.3797	0.1124	1.5898	2.2294	3.0095	255.3246	20.0200	38.5000	49.5400	0.4433		
02/12/2016	89.4475	0.1198	1.9402	2.5223	2.9570	255.4546	14.3900	38.0500	49.5400	0.5964		
03/12/2016	89.4120	0.1120	2.1202	2.6926	2.9272	254.9237	16.9000	38.0000	49.4300	0.6235		
04/12/2016	89.6404	0.1355	0.8643	1.6514	3.1520	254.9559	15.3000	38.3400	49.5900	0.6685		
05/12/2016	89.6234	0.1435	0.8619	1.6514	3.0150	255.4313	20.0200	38.4000	49.6200	0.5964		
06/12/2016	89.5098	0.1290	2.0266	2.6850	3.4157	256.2168	23.3400	38.1100	49.3700	0.6685		
07/12/2016	89.3921	0.1197	1.8077	2.5742	3.6554	255.5923	22.8300	38.3200	49.5400	0.7226		
08/12/2016	89.3893	0.1207	2.1090	2.8710	3.7978	255.5230	22.8300	38.3100	49.5300	0.6325		
09/12/2016	89.9541	0.2638	2.0872	2.8061	3.8581	255.8621	22.2300	38.3200	49.5400	0.6505		
10/12/2016	89.9618	0.2329	1.3251	2.1023	3.8182	254.9598	20.9200	38.6400	49.6900	0.6325		
11/12/2016	89.8519	0.1853	1.2243	1.9412	3.2088	254.9873	19.6200	38.5500	49.6900	0.6775		
12/12/2016	90.0029	0.1836	0.2377	1.0339	3.0710	254.9214	19.3200	38.6200	49.6800	0.6775		
13/12/2016	90.6803	0.2559	0.2381	1.0234	3.0343	254.4663	17.0000	38.6900	49.9500	0.6775		
14/12/2016	90.4747	0.2293	0.3795	0.9666	1.7343	257.5821	19.0100	37.8400	49.0300	0.6055		
15/12/2016	89.9837	0.1950	1.7651	2.3721	2.8712	253.5466	19.7200	38.0700	49.3100	0.9569		
16/12/2016	90.6512	0.2460	0.3458	1.1400	2.8963	251.6800	16.6000	38.5300	49.8300	0.6505		
17/12/2016	91.1923	0.2947	1.1634	1.7815	2.5030	253.4760	16.5000	38.4600	49.8900	0.7136		
18/12/2016	91.7558	0.3006	0.6260	1.3385	2.5009	253.9575	18.3100	38.5600	50.0300	0.8307		
19/12/2016	90.7590	0.2584	0.6262	1.3435	2.9067	254.6927	18.0100	38.5700	49.9200	0.6505		
20/12/2016	90.0532	0.1881	0.9511	1.6942	2.7661	255.6788	19.2200	38.1700	49.7100	0.7226		
21/12/2016	90.1713	0.1979	1.2760	1.8890	2.8850	255.9135	18.6100	38.1400	49.6400	0.9118		
22/12/2016	89.8971	0.1684	1.8032	2.4239	2.6951	255.2611	19.0100	38.3900	49.6100	0.8577		
23/12/2016	90.4675	0.2085	0.2215	0.9764	2.6993	254.4677	19.0100	38.3900	49.7100	0.5334		
24/12/2016	90.3446	0.2078	1.0201	1.6853	2.6952	256.2696	11.3800	38.5300	49.7300	0.5694		
25/12/2016	90.6971	0.2340	0.2470	0.9849	2.7397	255.2547	18.6100	38.6700	49.8700	0.4793		
26/12/2016	90.9919	0.2681	0.2450	0.9779	2.7448	256.8658	18.3100	38.5900	50.0400	0.4793		
27/12/2016	90.9734	0.2757	0.2089	0.8218	2.1048	257.5808	18.6100	38.4300	49.9900	0.9478		
28/12/2016	91.2016	0.2989	0.5727	1.3448	2.7378	256.0016	19.5200	38.2900	49.8400	0.8668		
29/12/2016	91.3198	0.3074	1.5248	2.1363	2.6368	256.3290	11.6800	38.0900	49.6400	0.8758		
30/12/2016	89.5714	0.0526	1.5013	2.1664	2.6571	256.9492	22.5300	36.9100	47.5400	0.8127		
31/12/2016	90.8302	0.1855	1.9016	2.3680	2.2248	257.1624	15.2000	37.3200	48.2500	0.9929		

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<b>Mínimo</b>	89.3797	0.0526	0.2089	0.8218	1.7343	251.6800	11.3800	36.9100	47.5400	0.4433		
<b>Promedio</b>	90.2445	0.2010	1.1229	1.8128	2.9006	255.3964	18.5342	38.2839	49.5577	0.7008		
<b>Máximo</b>	91.7558	0.3074	2.1202	2.8710	3.8581	257.5821	23.3400	38.6900	50.0400	0.9929		
<b>Desv. Est.</b>	0.67108	0.06764	0.67851	0.64391	0.47436	1.24889	2.91702	0.38451	0.50370	0.14571		

Observaciones: DATOS OBTENIDOS DE LOS ANALIZADORES PROPIEDAD DE ENGIE