

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

PERMISIONARIO: Kinder Morgan Gas Natural Mexico, S. de R.L. de C.V.  
 PUNTO DE MEDICIÓN: PEMEX/KMGNM Estación M1: 40572  
 TIPO DE MEDICIÓN: RESTO DEL PAÍS

FECHA (dd/mm/aa)	Metano (% vol)	Bióxido de Carbono (% vol)	Nitrógeno (% vol)	Total Inertes (% vol)	Etano (% vol)	Temperatura de Rocío (K)	Humedad (mg/m <sup>3</sup> )	Poder Calorífico (MJ/m <sup>3</sup> )	Índice Wobbe (MJ/m <sup>3</sup> )	Acido Sulfídrico (mg/m <sup>3</sup> )	Azufre total* (mg/m <sup>3</sup> )	Oxígeno* (% vol)
01/01/2014	94.5751	1.6150	0.1294	1.7444	2.6445	283.4400	16.6700	38.6981	50.0500	0.9100		
02/01/2014	94.9934	1.5825	0.1281	1.7107	2.4711	281.5000	15.0400	38.5081	49.9600	1.4100		
03/01/2014	94.9066	1.5624	0.1355	1.6979	2.5539	283.1400	16.2100	38.5549	50.0000	1.3900		
04/01/2014	94.5609	1.8582	0.1272	1.9855	2.4770	282.9400	18.9400	38.5159	49.7800	1.9300		
05/01/2014	94.4606	1.8124	0.1311	1.9436	2.5857	281.8800	21.3000	38.5837	49.8500	1.6100		
06/01/2014	94.4660	1.8711	0.1295	2.0006	2.5333	281.7900	19.4100	38.5418	49.7800	1.6200		
07/01/2014	94.6650	1.8007	0.1308	1.9315	2.5386	283.6100	18.2800	38.4752	49.7900	2.1200		
08/01/2014	94.5424	1.7614	0.1337	1.8951	2.7302	283.3800	18.6100	38.5084	49.8400	1.7100		
09/01/2014	94.9489	1.7418	0.1329	1.8748	2.3831	282.1100	20.4500	38.3908	49.7800	1.1500		
10/01/2014	94.6665	1.7135	0.1338	1.8473	2.5470	278.3800	21.4200	38.5698	49.9000	1.2800		
11/01/2014	94.5868	1.8492	0.1276	1.9768	2.5840	281.5900	20.3300	38.4547	49.7500	1.7700		
12/01/2014	94.5293	1.9428	0.1236	2.0664	2.5123	283.7300	18.3400	38.4330	49.6800	1.6600		
13/01/2014	94.6361	1.7945	0.1290	1.9235	2.4653	282.6400	19.9200	38.5310	49.8300	1.5900		
14/01/2014	94.5250	1.7309	0.1246	1.8556	2.5549	285.0000	18.3000	38.6339	49.9400	1.8900		
15/01/2014	94.5250	1.7309	0.1246	1.8556	2.5549	285.0000	18.0800	38.6339	49.9400	1.5000		
16/01/2014	94.4739	1.5302	0.1319	1.6621	2.7849	283.4700	17.7100	38.7986	50.1600	0.9300		
17/01/2014	95.3500	1.5376	0.1308	1.6684	2.2017	281.2900	18.1100	38.4099	49.9300	0.9900		
18/01/2014	95.6917	1.5245	0.1303	1.6549	1.8990	281.5500	18.8600	38.3133	49.8900	1.0000		
19/01/2014	95.4850	1.7146	0.1301	1.8448	1.9004	282.3600	19.1000	38.2560	49.7200	1.1500		
20/01/2014	95.4812	1.7789	0.1248	1.9038	1.8402	282.6500	21.3000	38.2220	49.6600	1.4200		
21/01/2014	95.7413	1.5861	0.1300	1.7161	1.8248	281.9300	18.8100	38.2424	49.8000	1.1300		
22/01/2014	95.4960	1.5923	0.1302	1.7225	2.0199	282.2900	18.1000	38.3279	49.8500	0.9500		
23/01/2014	95.3774	1.6641	0.1332	1.7974	2.0580	280.3800	16.8600	38.3122	49.7900	0.6300		
24/01/2014	95.4034	1.5700	0.1340	1.7041	2.1231	280.5700	14.9600	38.3667	49.8800	0.4000		
25/01/2014	95.7338	1.5188	0.1294	1.6483	1.8446	283.0400	15.9100	38.3155	49.8900	0.6400		
26/01/2014	95.6423	1.5090	0.1304	1.6395	1.9463	282.8500	19.1400	38.3465	49.9200	1.0600		
27/01/2014	95.6215	1.5528	0.1298	1.6826	1.9325	281.9800	20.7200	38.3200	49.8700	1.2400		
28/01/2014	95.6442	1.5863	0.1288	1.7152	1.8928	282.0900	15.3100	38.2868	49.8300	3.3000		
29/01/2014	95.4492	1.4817	0.1389	1.6207	2.1577	281.5500	14.4600	38.4071	49.9600	1.0400		
30/01/2014	95.5240	1.4887	0.1381	1.6269	2.1169	280.8200	15.7600	38.3645	49.9400	0.9300		
31/01/2014	95.4159	1.5008	0.1391	1.6400	2.2147	280.6800	19.0100	38.3858	49.9400	1.1500		

Mínimo	94.4606	1.4817	0.1236	1.6207	1.8248	278.3800	14.3600	38.2220	49.6600	0.4000		
Promedio	95.0683	1.6614	0.1307	1.7921	2.2869	282.2461	18.2168	38.4435	49.8677	1.3387		
Máximo	95.7413	1.9428	0.1391	2.0664	2.7849	285.0000	21.4200	38.7986	50.1600	3.3000		
Desv. Est.												

Observaciones:

Maximu  
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MaxOf Total Max Maximum  
MaxOfmt co2\_co MaxOfn2\_ Inerts Max hourly Humidity HHV Wobbe Max H2S  
Date hn\_cont nt cont max Ethane HCDP K mg/m3 MAX MJ/m3 mg/m3

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

PERMISIONARIO: Kinder Morgan Gas Natural Mexico, S. de R.L. de C.V.  
PUNTO DE MEDICIÓN: PEMEX/KMGNM Estación M1: 40572  
ZONA DE MEDICIÓN: RESTO DEL PAÍS

FECHA: (dd/mm/aa)	Metano (% vol)	Óxido de Carbono (% vol)	Nitrógeno (% vol)	Total Inertes (% vol)	Etano (% vol)	Temperatu ra de Rocío (K)	Humedad (mg/m <sup>3</sup> )	Poder Calorífic o (kJ/m <sup>3</sup> )	Índice Wobbe (MJ/m <sup>3</sup> )	Acido Sulfhídrico (mg/m <sup>3</sup> )
01-01-14	95.2043	1.8198	0.1357	1.9301	2.7496	284.0400	18.3200	38.8003	50.1900	1.0800
02-01-14	95.8418	1.8116	0.1391	1.9298	2.6360	292.0000	16.0000	38.6438	50.1100	1.5700
03-01-14	95.8418	1.8403	0.1433	1.9738	2.8658	292.0000	17.4100	38.6699	50.1900	1.6000
04-01-14	94.6896	1.9289	0.1322	2.0558	2.5976	284.0300	22.4900	38.5917	49.8300	2.0900
05-01-14	94.5419	1.9070	0.1348	2.0376	2.6768	283.2100	26.6100	38.7183	49.9800	1.9200
06-01-14	94.6738	2.1224	0.1379	2.2406	2.7218	283.0100	19.8900	38.7444	50.0100	1.8500
07-01-14	94.8716	1.8958	0.1402	2.0256	2.6386	284.6200	18.9100	38.5656	49.9300	2.6900
08-01-14	94.7439	1.9087	0.1512	2.0348	2.8818	285.1900	21.5100	38.6103	50.0600	2.2500
09-01-14	95.1337	1.8451	0.1431	1.9712	2.9128	282.6600	21.3000	38.5730	49.9100	1.5800
10-01-14	95.0689	1.8217	0.1420	1.9463	2.8945	281.1800	24.0900	38.8413	49.9900	1.6400
11-01-14	94.9455	2.0345	0.1352	2.1525	2.8875	283.2500	24.0800	38.6960	49.9600	2.2400
12-01-14	94.7496	2.0296	0.1336	2.1482	2.6277	285.1900	21.2900	38.5022	49.7900	2.2500
13-01-14	94.9750	1.9095	0.1352	2.0300	2.6213	283.9100	23.2700	38.7072	50.0300	1.8200
14-01-14	94.7676	1.8717	0.1289	1.9967	2.7747	287.3800	20.0400	38.7183	50.0300	2.0500
15-01-14	94.7676	1.8717	0.1289	1.9967	2.7747	287.3800	20.9700	38.7183	50.0300	1.7700
16-01-14	94.8447	1.6327	0.1397	1.7617	2.9803	285.2400	20.0000	38.9083	50.3100	1.1700
17-01-14	95.8414	1.6793	0.1414	1.8024	2.6313	284.2100	19.6200	38.7481	50.1300	1.1900
18-01-14	95.9419	1.6754	0.1318	1.8041	1.9534	282.7900	20.8200	38.3607	49.9500	1.1300
19-01-14	95.6209	1.8210	0.1360	1.9453	2.0658	283.1400	21.1400	38.3197	49.8200	1.1900
20-01-14	95.8281	1.8892	0.1339	1.9969	1.9749	284.4100	27.6200	38.3048	49.7800	1.6000
21-01-14	95.8645	1.6611	0.1345	1.7882	1.8815	283.7800	21.3700	38.2824	49.8600	1.3900
22-01-14	95.6345	1.6349	0.1340	1.7649	2.1831	283.5800	20.0000	38.4054	49.9600	1.0600
23-01-14	95.6702	1.7496	0.1389	1.8805	2.2083	282.3100	19.9700	38.3905	49.9400	0.9700
24-01-14	95.5120	1.6390	0.1368	1.7676	2.1901	282.0000	15.0800	38.4128	49.9900	0.6700
25-01-14	95.8322	1.5688	0.1340	1.6940	1.9783	284.5100	17.4100	38.3458	49.9600	1.0300
26-01-14	95.7494	1.6123	0.1355	1.7399	2.0202	283.9000	21.6100	38.4054	50.0500	1.1800
27-01-14	95.9339	1.6821	0.1389	1.8102	2.0293	283.6400	24.4800	38.3830	50.0500	1.3600
28-01-14	95.7437	1.6880	0.1342	1.8109	1.9702	282.8100	17.0400	38.3271	49.9400	24.2400
29-01-14	95.6938	1.5918	0.1470	1.7282	2.3708	283.1900	15.0300	38.4873	50.0400	1.3800
30-01-14	95.6481	1.5551	0.1440	1.6896	2.1826	281.9100	17.0200	38.4016	50.0200	1.1000
31-01-14	95.6240	1.6238	0.1427	1.7611	2.3607	281.2700	21.0500	38.4538	50.0300	1.4300

Máximo	95.9419	2.1224	0.1512	2.2406	2.9803	292.0000	27.6200	38.9083	50.3100	
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Observación:

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

PERMISIONARIO: Kinder Morgan Gas Natural Mexico, S. de R.L. de C.V.  
 PUNTO DE MEDICIÓN: PEMEX/KMGNM Estación M1: 40572  
 ZONA DE MEDICIÓN: RESTO DEL PAÍS

FECHA: (dd/mm/aa)	Metano (% vol)	Óxido de Carbono (% vol)	Nitrógen o (% vol)	Total Inertes (% vol)	Etano (% vol)	Temperatu ra de Rocío (K)	Humedad (mg/m <sup>3</sup> )	Poder Calorífico (MJ/m <sup>3</sup> )	Índice Wobbe (MJ/m <sup>3</sup> )	Activo Sulfídrico (ppm)
01/01/2014	94.4324	1.5006	0.1103	1.6363	2.2706	279.8500	14.6500	38.4463	49.8500	0.6700
02/01/2014	94.4583	1.3551	0.1182	1.4942	2.0017	278.5500	14.4900	38.3346	49.7900	1.1500
03/01/2014	94.3164	1.3266	0.1294	1.4669	2.0017	281.0600	14.4700	38.4240	49.7700	1.2800
04/01/2014	94.3958	1.8165	0.1235	1.9472	2.3678	282.0200	14.8400	38.4575	49.7300	1.6100
05/01/2014	94.3417	1.7301	0.1289	1.8645	2.5042	280.3100	18.3400	38.5097	49.7600	1.3800
06/01/2014	94.1925	1.7199	0.1182	1.8578	2.3675	280.2100	18.2200	38.3756	49.5300	1.5200
07/01/2014	94.4537	1.6734	0.1261	1.8136	2.3767	281.4600	17.6500	38.3681	49.7200	1.8800
08/01/2014	94.3590	1.5153	0.1251	1.6665	2.5239	281.9800	15.9000	38.4352	49.7300	0.3100
09/01/2014	94.3565	1.5974	0.1254	1.7405	2.2043	281.1400	17.6100	38.3122	49.6800	0.8500
10/01/2014	94.1110	1.6142	0.1233	1.7553	2.2189	275.1500	18.4800	38.3979	49.7700	0.9100
11/01/2014	94.2430	1.7192	0.1173	1.8511	2.3244	280.5800	17.4700	38.3532	49.5800	1.5900
12/01/2014	94.3503	1.8401	0.1164	1.9654	2.4043	281.9900	16.1900	38.3718	49.6300	1.2200
13/01/2014	94.3780	1.6441	0.1247	1.7734	2.2634	281.9300	15.4300	38.3234	49.6800	1.1600
14/01/2014	94.1783	1.6439	0.1205	1.7728	2.3546	282.6800	16.2400	38.5246	49.8500	1.7600
15/01/2014	94.1783	1.6439	0.1205	1.7728	2.3546	282.6800	15.2400	38.5246	49.8500	0.8800
16/01/2014	94.2458	1.3956	0.1191	1.5353	2.6434	281.5600	15.8300	38.5768	50.0500	0.6200
17/01/2014	94.6232	1.4392	0.1228	1.5687	1.8063	279.3700	17.0500	38.2079	49.7800	0.7200
18/01/2014	95.4812	1.4759	0.1282	1.6065	1.7688	280.0000	17.1500	38.2228	49.7700	0.7900
19/01/2014	95.3608	1.6260	0.1243	1.7606	1.8518	281.4800	17.0700	38.2340	49.6500	1.1100
20/01/2014	95.1690	1.6238	0.1077	1.7474	1.6547	281.4400	17.7700	38.1446	49.5900	1.2200
21/01/2014	95.6258	1.5445	0.1217	1.6751	1.7231	279.7700	16.1100	38.2042	49.7500	0.8200
22/01/2014	95.3090	1.4867	0.1268	1.6207	1.9134	281.2300	16.7200	38.2750	49.8000	0.7900
23/01/2014	95.1811	1.5016	0.1270	1.6405	1.9131	278.6300	14.2300	38.2526	49.7100	0.3300
24/01/2014	95.3512	1.4600	0.1286	1.5966	2.0328	279.8000	13.4100	38.3308	49.8300	0.2100
25/01/2014	95.5825	1.4402	0.1252	1.5727	1.7766	281.8300	14.0400	38.2861	49.8600	0.3500
26/01/2014	95.5391	1.3686	0.1264	1.5041	1.8920	281.9300	15.6700	38.2861	49.8200	0.8900
27/01/2014	95.4854	1.3239	0.1248	1.4611	1.7856	280.0100	16.8000	38.1520	49.6900	1.0800
28/01/2014	95.5244	1.4707	0.1229	1.6049	1.7961	281.1100	13.2100	38.2116	49.7300	1.2400
29/01/2014	95.1470	1.3757	0.1319	1.5126	1.9829	280.4600	14.0100	38.3458	49.8900	0.6400
30/01/2014	95.4255	1.4096	0.1317	1.5528	2.0319	280.0400	14.5000	38.3346	49.8800	0.7000
31/01/2014	95.2943	1.4215	0.1358	1.5642	2.0512	280.0400	15.8300	38.3271	49.8400	0.9500
<b>Mínimo</b>	94.1110	1.3239	0.1077	1.4611	1.6547	275.1500	13.2100	38.1446	49.5300	0.2100

Observaciones: