

**INFORME MENSUAL SOBRE LAS ESPECIFICACIONES DEL GAS NATURAL**

**(Valores promedio diarios)**

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

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> )
01/10/15	89.8029	0.6588	0.1268	0.7856	6.3171	265.8210	242.2951	41.6114	52.7294	0.0000
02/10/15	87.9464	0.5176	0.1158	0.6334	7.3958	278.2760	207.0385	42.6746	53.4100	0.0000
03/10/15	89.9656	0.6809	0.1252	0.8061	6.2058	273.2780	320.3691	41.4994	52.6536	6.4326
04/10/15	90.0340	0.6970	0.1321	0.8291	6.1859	275.3580	297.9432	41.4253	52.5989	4.5947
05/10/15	90.4475	0.7798	0.1427	0.9225	6.0170	278.3810	320.3691	41.0858	52.3509	8.0408
06/10/15	89.7642	0.7010	0.1354	0.8364	6.3790	276.1220	320.3691	41.5233	52.6491	9.4192
07/10/15	88.6793	0.6235	0.1346	0.7581	6.9910	278.5610	320.3691	42.1578	53.0491	14.4734
08/10/15	89.2696	0.6835	0.1258	0.8093	6.7190	279.5140	320.3691	41.7699	52.8011	8.7300
09/10/15	90.2469	0.7852	0.1246	0.9098	6.1651	280.3890	320.3691	41.1797	52.4066	9.6489
10/10/15	89.5567	0.6611	0.1357	0.7968	6.5635	278.2250	320.3691	41.6504	52.7459	0.0000
11/10/15	89.7980	0.7247	0.1149	0.8396	6.4683	276.1820	133.2735	41.4490	52.6015	1.3784
12/10/15	90.8339	0.8153	0.1462	0.9614	5.7624	280.1230	121.4199	40.8735	52.2073	9.6489
13/10/15	89.8975	0.6640	0.1544	0.8183	6.3673	281.5280	114.3718	41.4494	52.6251	15.3923
14/10/15	89.5005	0.6360	0.1286	0.7646	6.5822	280.7330	107.4838	41.7180	52.8031	4.8245
15/10/15	88.9922	0.5783	0.1187	0.6971	6.8935	278.7490	101.3327	42.0320	53.0185	7.8110
16/10/15	89.7261	0.6409	0.1146	0.7554	6.4748	280.2240	100.3716	41.5984	52.7403	6.2029
17/10/15	90.5409	0.7234	0.1454	0.8688	5.9040	278.6520	100.2755	41.1318	52.4128	14.2436
18/10/15	91.0611	0.7655	0.1469	0.9125	5.5689	276.6840	104.8888	40.8432	52.2236	5.7434
19/10/15	90.7753	0.8513	0.1450	0.9963	5.6971	278.2520	109.2619	40.9413	52.2206	3.9055
20/10/15	89.3040	0.8234	0.0932	0.9167	6.6872	278.3140	107.4518	41.6501	52.6556	7.3516
21/10/15	89.0663	0.8264	0.0867	0.9131	6.8357	280.2180	320.3691	41.7591	52.7167	9.1894
22/10/15	89.0800	0.8204	0.1342	0.9545	6.7620	281.2690	111.4884	41.7111	52.6734	5.7434
23/10/15	89.3756	0.7810	0.1055	0.8866	6.6503	279.1890	110.2390	41.6277	52.6664	4.3650
24/10/15	89.2871	0.8008	0.1233	0.9241	6.6460	278.3210	112.4175	41.6442	52.6542	7.5813
25/10/15	89.5991	0.8365	0.1059	0.9424	6.5497	276.5235	111.7447	41.4432	52.5272	7.1218
26/10/15	90.4348	0.9130	0.0893	1.0024	6.1598	280.2210	112.1292	40.9044	52.1846	9.8786
27/10/15	90.3599	0.9209	0.1313	1.0521	6.0757	279.6180	115.0125	40.9519	52.1867	5.0542
28/10/15	89.2734	1.5071	0.1070	1.6141	5.6553	278.1510	114.3718	41.3611	52.0325	2.2974
29/10/15	1.5511	5.5045	89.9310	95.4356	0.3346	278.9290	119.1773	3.7314	41.3013	0.0000
30/10/15	1.6829	5.6547	89.8435	95.4981	0.3389	281.5819	320.3691	3.7272	41.2522	2.2974
31/10/15	1.5847	5.5759	90.1933	95.7692	0.3205	280.1230	105.7442	3.7348	41.0821	0.9189

<b>Azufre total*</b> (mg/m <sup>3</sup> )	<b>Oxígeno*</b> (% vol)
1.3460	0.0190

**\*/ 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>	1.5511	0.5176	0.0867	0.6334	0.3205	265.8210	100.2755	3.7272	41.0821	0.0000
<b>Promedio</b>	81.2077	1.2307	8.8212	10.0519	5.7959	278.3068	185.2598	37.8342	51.4897	6.2029
<b>Máximo</b>	91.0611	5.6547	90.1933	95.7692	7.3958	281.5819	320.3691	42.6746	53.4100	15.3923
<b>Desv. Est.</b>	26.4947758	1.45629196	27.00770131	28.45478141	1.864827691	2.98569875	97.65713914	11.35421	3.431861476	4.246492491

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

<b>PERMISIONARIO:</b>	Compañía Nacional de Gas SA de CV - Permiso G/11/DIS/1997
<b>PUNTO DE MEDICIÓN:</b>	Cruce Internacional II - Estacion Importacion Phenix
<b>ZONA DE MEDICIÓN:</b>	<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 <sup>3</sup> )	Poder Calorífico (MJ/m <sup>3</sup> )	Índice Wobbe (MJ/m <sup>3</sup> )	Acido Sulfhídrico (mg/m <sup>3</sup> )
01/10/15	88.2060	0.6450	0.3380	0.9830	6.9830			42.2360		
02/10/15										
03/10/15										
04/10/15										
05/10/15										
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28/10/15										
29/10/15										
30/10/15										
31/10/15										

<b>Azufre total*</b> (mg/m <sup>3</sup> )	<b>Oxígeno*</b> (% vol)

\*/ 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>	88.2060	0.6450	0.3380	0.9830	6.9830	0.0000	0.0000	42.2360	0.0000	0.0000
<b>Promedio</b>	88.2060	0.6450	0.3380	0.9830	6.9830	0.0000	0.0000	42.2360	0.0000	0.0000
<b>Máximo</b>	88.2060	0.6450	0.3380	0.9830	6.9830	0.0000	0.0000	42.2360	0.0000	0.0000
<b>Desv. Est.</b>	88.2060	0.6450	0.3380	0.9830	6.9830	0.0000	0.0000	42.2360	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 <sup>3</sup> )	Poder Calorífico (MJ/m <sup>3</sup> )	Índice Wobbe (MJ/m <sup>3</sup> )	Acido Sulfhídrico (mg/m <sup>3</sup> )
01/10/15	89.8916	0.6670	0.1285	0.7955	6.4058	265.8210	242.2951	41.7334	52.8043	0.0000
02/10/15	88.1860	0.5610	0.1603	0.7213	7.5977	278.2760	207.0385	42.8434	53.5316	0.0000
03/10/15	90.0173	0.6864	0.1290	0.8132	6.2237	273.2780	320.3691	41.5214	52.6645	6.4326
04/10/15	90.1796	0.7091	0.1348	0.8436	6.2996	275.3580	297.9432	41.5368	52.6710	4.5947
05/10/15	90.5783	0.7912	0.1450	0.9342	6.0537	278.3810	320.3691	41.1473	52.3924	8.0408
06/10/15	89.8058	0.7158	0.1433	0.8487	6.4092	276.1220	320.3691	41.5524	52.6635	9.4192
07/10/15	89.3432	0.6865	0.1595	0.8256	7.5221	278.5610	320.3691	42.6279	53.3796	14.4734
08/10/15	89.4276	0.7009	0.1515	0.8525	6.8105	279.5140	320.3691	41.8912	52.8826	8.7300
09/10/15	91.1073	0.8859	0.1363	1.0222	6.6280	280.3890	320.3691	41.6725	52.7467	9.6489
10/10/15	89.6430	0.6640	0.1463	0.8044	6.6324	278.2250	320.3691	41.7037	52.7732	0.0000
11/10/15	90.1060	0.7562	0.1187	0.8749	6.6158	276.1820	133.2735	41.5830	52.6941	1.3784
12/10/15	90.9640	0.8368	0.1484	0.9843	5.8473	280.1230	121.4199	40.9675	52.2828	9.6489
13/10/15	89.9594	0.6731	0.1575	0.8261	6.4083	281.5280	114.3718	41.4716	52.6378	15.3923
14/10/15	89.6180	0.6572	0.1303	0.7844	6.6256	280.7330	107.4838	41.7871	52.8512	4.8245
15/10/15	89.0122	0.5850	0.1200	0.7050	6.9052	278.7490	101.3327	42.0555	53.0339	7.8110
16/10/15	89.8343	0.6563	0.1241	0.7662	6.5641	280.2240	100.3716	41.7349	52.8328	6.2029
17/10/15	90.8893	0.7623	0.1489	0.9098	6.2129	278.6520	100.2755	41.4254	52.6056	14.2436
18/10/15	91.1989	0.7829	0.1503	0.9303	5.6375	276.6840	104.8888	40.9063	52.2638	5.7434
19/10/15	90.9481	0.8568	0.1462	1.0019	5.7268	278.2520	109.2619	41.0829	52.2953	3.9055
20/10/15	89.4438	0.8268	0.0966	0.9235	6.7483	278.3140	107.4518	41.6969	52.6904	7.3516
21/10/15	89.1930	0.8396	0.0874	0.9270	6.9027	280.2180	320.3691	41.7888	52.7301	9.1894
22/10/15	89.1657	0.8235	0.1437	0.9672	6.8008	281.2690	111.4884	41.7452	52.6960	5.7434
23/10/15	89.4198	0.7819	0.1093	0.8912	6.6713	279.1890	110.2390	41.6520	52.6834	4.3650
24/10/15	89.4508	0.8102	0.1333	0.9289	6.8094	278.3210	112.4175	41.8167	52.7543	7.5813
25/10/15	89.7069	0.8522	0.1118	0.9559	6.6321	276.5235	111.7447	41.4946	52.5472	7.1218
26/10/15	90.4777	0.9275	0.0902	1.0171	6.1765	280.2210	112.1292	40.9369	52.2109	9.8786
27/10/15	90.6772	0.9363	0.1361	1.0687	6.2820	279.6180	115.0125	41.0662	52.2408	5.0542
28/10/15	89.3900	1.5131	0.1195	1.6178	5.7013	278.1510	114.3718	41.4624	52.0863	2.2974
29/10/15	1.6610	5.6467	90.5365	95.7646	0.3600	278.9290	119.1773	3.7319	41.4460	0.0000
30/10/15	1.7292	5.7344	90.0047	95.5563	0.3474	281.5819	320.3691	3.7284	41.3480	2.2974
31/10/15	1.7119	5.7344	90.3836	95.8843	0.3422	280.1230	105.7442	3.7380	41.2776	0.9189
<b>Máximo</b>	91.1989	5.7344	90.5365	95.8843	7.5977	281.5819	320.3691	42.8434	53.5316	15.3923

**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 <sup>3</sup> )	Poder Calorífico (MJ/m <sup>3</sup> )	Índice Wobbe (MJ/m <sup>3</sup> )	Acido Sulfhídrico (mg/m <sup>3</sup> )
01/10/15	88.2060	0.6450	0.3380	0.9830	6.9830			42.2360		
02/10/15										
03/10/15										
04/10/15										
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27/10/15										
28/10/15										
29/10/15										
30/10/15										
31/10/15										
<b>Máximo</b>	88.2060	0.6450	0.3380	0.9830	6.9830	0.0000	0.0000	42.2360	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 <sup>3</sup> )	Poder Calorífico (MJ/m <sup>3</sup> )	Índice Wobbe (MJ/m <sup>3</sup> )	Acido Sulfhídrico (mg/m <sup>3</sup> )
01/10/15	89.6079	0.6479	0.1254	0.7736	6.2596	265.8210	242.2951	41.5376	52.6827	0.0000
02/10/15	87.6851	0.4842	0.0986	0.5828	7.2551	278.2760	207.0385	42.5481	53.3390	0.0000
03/10/15	89.9234	0.6757	0.1232	0.8000	6.1874	273.2780	320.3691	41.4588	52.6274	6.4326
04/10/15	89.8411	0.6834	0.1289	0.8123	6.1027	275.3580	297.9432	41.3372	52.5411	4.5947
05/10/15	90.3564	0.7694	0.1410	0.9110	5.9418	278.3810	320.3691	41.0192	52.3127	8.0408
06/10/15	89.7122	0.6828	0.1325	0.8261	6.3503	276.1220	320.3691	41.4893	52.6215	9.4192
07/10/15	87.9166	0.5298	0.1098	0.6396	6.5923	278.5610	320.3691	41.7685	52.7920	14.4734
08/10/15	89.0896	0.6666	0.1160	0.7843	6.6263	279.5140	320.3691	41.6444	52.7089	8.7300
09/10/15	89.4814	0.6921	0.1143	0.8064	5.6694	280.3890	320.3691	40.6243	52.0253	9.6489
10/10/15	89.4296	0.6572	0.1272	0.7881	6.5226	278.2250	320.3691	41.6083	52.7246	0.0000
11/10/15	89.5727	0.6985	0.1129	0.8114	6.2811	276.1820	133.2735	41.2632	52.4759	1.3784
12/10/15	90.6959	0.7817	0.1441	0.9265	5.6881	280.1230	121.4199	40.7819	52.1412	9.6489
13/10/15	89.8543	0.6606	0.1510	0.8120	6.3335	281.5280	114.3718	41.4070	52.5962	15.3923
14/10/15	89.4055	0.6197	0.1272	0.7500	6.5095	280.7330	107.4838	41.6655	52.7721	4.8245
15/10/15	88.9739	0.5744	0.1175	0.6920	6.8857	278.7490	101.3327	42.0012	52.9967	7.8110
16/10/15	89.5345	0.6085	0.1053	0.7326	6.4359	280.2240	100.3716	41.5216	52.6920	6.2029
17/10/15	90.0267	0.6818	0.1405	0.8224	5.7154	278.6520	100.2755	40.9102	52.2628	14.2436
18/10/15	90.9458	0.7505	0.1439	0.8944	5.4607	276.6840	104.8888	40.7657	52.1684	5.7434
19/10/15	90.5701	0.8472	0.1426	0.9903	5.6566	278.2520	109.2619	40.7861	52.1370	3.9055
20/10/15	89.2007	0.8147	0.0862	0.9009	6.5994	278.3140	107.4518	41.5760	52.6122	7.3516
21/10/15	88.9642	0.8199	0.0861	0.9070	6.7590	280.2180	320.3691	41.7035	52.6881	9.1894
22/10/15	89.0241	0.8165	0.1244	0.9435	6.7124	281.2690	111.4884	41.6638	52.6447	5.7434
23/10/15	89.3428	0.7785	0.1012	0.8797	6.6138	279.1890	110.2390	41.6027	52.6503	4.3650
24/10/15	88.9546	0.7864	0.1187	0.9197	6.5626	278.3210	112.4175	41.5613	52.6043	7.5813
25/10/15	89.4647	0.8154	0.1037	0.9272	6.4603	276.5235	111.7447	41.3781	52.4876	7.1218
26/10/15	90.4085	0.9008	0.0887	0.9898	6.1375	280.2210	112.1292	40.8724	52.1626	9.8786
27/10/15	90.0584	0.9001	0.1258	1.0259	5.8853	279.6180	115.0125	40.8281	52.1340	5.0542
28/10/15	89.1137	1.4955	0.1007	1.6102	5.5989	278.1510	114.3718	41.3030	52.0016	2.2974
29/10/15	1.3401	5.2281	89.6156	95.2595	0.2977	278.9290	119.1773	3.7306	41.0061	0.0000
30/10/15	1.6326	5.5516	89.7100	95.4149	0.3301	281.5819	320.3691	3.7264	41.1369	2.2974
31/10/15	1.5323	5.5007	89.7583	95.4927	0.3113	280.1230	105.7442	3.7284	41.0055	0.9189

<b>Mínimo</b>	1.3401	0.4842	0.0861	0.5828	0.2977	265.8210	100.2755	3.7264	41.0055	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 <sup>3</sup> )	Poder Calorífico (MJ/m <sup>3</sup> )	Índice Wobbe (MJ/m <sup>3</sup> )	Acido Sulfhídrico (mg/m <sup>3</sup> )
01/10/15	88.2060	0.6450	0.3380	0.9830	6.9830			42.2360		
02/10/15										
03/10/15										
04/10/15										
05/10/15										
06/10/15										
07/10/15										
08/10/15										
09/10/15										
10/10/15										
11/10/15										
12/10/15										
13/10/15										
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24/10/15										
25/10/15										
26/10/15										
27/10/15										
28/10/15										
29/10/15										
30/10/15										
31/10/15										

<b>Mínimo</b>	88.2060	0.6450	0.3380	0.9830	6.9830	0.0000	0.0000	42.2360	0.0000	0.0000
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GAS TESTING AND MEASUREMENT  
PETROLEUM LABORATORY  
PHYSICAL TEST  
GAS SURVEYS

GAS PRODUCTION SURVEYS  
BACK PRESSURE TESTS  
ELECTRONIC VOLUMES  
CHART INTEGRATION

## THURMOND-McGLOTHLIN, INC.

### NATURAL GAS MEASUREMENT

2688 Business I-35 East  
Pearsall, Texas 78061  
830-334-8900

COMPONENTS	MOL %	GPM
Carbon Dioxide	0.770	
Nitrogen	0.314	
Methane	89.184	15.034
Ethane	6.579	1.749
Propane	1.733	0.475
iso-Butane	0.355	0.115
n-Butane	0.497	0.156
iso-Pentane	0.172	0.063
n-Pentane	0.122	0.044
Hexane +	0.274	0.119

DATE RUN: September 30, 2015  
PLANT:  
COMPANY: WTG  
PURCHASER:  
LEASE: MEXICO STATION  
STATION: 781-006  
PRESSURE: 180#  
TEMPERATURE: 71F  
CYLINDER: TM 11057  
ANALYSIS BY: TM11 CI  
SECURED BY: A. RAMIREZ  
DATE SAMPLED: 09/14/15

100.000

GASOLINE CONTENT @ 14.65 PSIA & 60 F

REMARKS: COMPOSITE

	GPM
PROPANE & HEAVIER	0.972
BUTANE & HEAVIER	0.497
PENTANE & HEAVIER	0.228

Gross Heating Value  
BTU @ 14.65 PSIA & 60 F  
Dry 1110.9  
Wet 1091.4

RESULTS TO:  
West Texas Gas

SPECIFIC GRAVITY  
0.6367

\*Based on GPA 2145 & 2172

*Natural gas is one of our Most Valuable and Profitable Properties. Careful  
Conservation and Expert Handling will pay Abundant Dividends.*

GAS TESTING AND MEASUREMENT  
 PETROLEUM LABORATORY  
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GAS PRODUCTION SURVEYS  
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 ELECTRONIC VOLUMES  
 CHART INTEGRATION

## THURMOND-McGLOTHLIN, INC.

### NATURAL GAS MEASUREMENT

2688 Business I-35 East  
 Pearsall, Texas 78061  
 830-334-8900

COMPONENTS	MOL %	GPM	DATE RUN:	September 30, 2015
Carbon Dioxide	0.645		PLANT:	
Nitrogen	0.338		COMPANY:	WTG
Methane	88.206	14.869	PURCHASER:	
Ethane	6.983	1.856	LEASE:	CUSTOM STATION
Propane	1.915	0.524	STATION:	781-009
iso-Butane	0.450	0.147	PRESSURE:	360#
n-Butane	0.573	0.180	TEMPERATURE:	83F
iso-Pentane	0.235	0.086	CYLINDER:	TM 11448
n-Pentane	0.164	0.059	ANALYSIS BY:	TM11 CI
Hexane +	0.491	0.213	SECURED BY:	A. RAMIREZ
			DATE SAMPLED:	09/14/15

100.000

GASOLINE CONTENT @ 14.65 PSIA & 60 F

REMARKS: COMPOSITE

	GPM
PROPANE & HEAVIER	1.209
BUTANE & HEAVIER	0.685
PENTANE & HEAVIER	0.358

Gross Heating Value  
 BTU @ 14.65 PSIA & 60 F  
 Dry 1133.6  
 Wet 1113.8

RESULTS TO:  
 West Texas Gas

SPECIFIC GRAVITY  
 0.6496

\*Based on GPA 2145 & 2172

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 Conservation and Expert Handling will pay Abundant Dividends.*



**Laboratorio Contratado por Compañía NacionaI de Gas SA de CV Cruce Internacional II**

September 22, 2015

**FESCO, Ltd.**  
**1100 Fesco Ave. - Alice, Texas 78332**

**For:** Compania Nacional de Gas S.A. de C.V.  
 P.O. Box 690  
 Eagle Pass, Texas 78853

**Sample:** West Texas Gas - Customs Sales  
 Station No. 781-009  
 Composite Gas Sample @ 379 psig & 85°F

Date Sampled: 09/10/2015

Job Number: 54174.001

**CHROMATOGRAPH EXTENDED ANALYSIS - SUMMATION REPORT**

COMPONENT	VOL %	L/M <sup>3</sup>
Oxygen	0.019	
Hydrogen Sulfide*	< 0.001	
Nitrogen	0.966	
Carbon Dioxide	0.805	
Methane	88.918	
Ethane	6.273	
Propane	1.615	0.05913
Isobutane	0.345	0.01500
n-Butane	0.465	0.01948
2-2 Dimethylpropane	0.005	0.00025
Isopentane	0.178	0.00865
n-Pentane	0.129	0.00621
Hexanes	0.152	0.00833
Heptanes Plus	<u>0.130</u>	<u>0.00705</u>
Totals	100.000	0.12412

**Computed Real Characteristics Of Heptanes Plus:**

Specific Gravity ----- 3.345 (Air=1)  
 Molecular Weight ----- 96.64  
 Gross Heating Value ----- 5026 BTU/CF

**Computed Real Characteristics Of Total Sample:**

Specific Gravity ----- 0.639 (Air=1)  
 Compressibility (Z) ----- 0.9974  
 Molecular Weight ----- 18.45  
 Gross Heating Value  
 Dry Basis ----- 1102 BTU/CF 41.05 mJ/M<sup>3</sup>  
 Saturated Basis ----- 1083 BTU/CF 40.37 mJ/M<sup>3</sup>  
 Wobbe Index ----- 1379 BTU/CF 51.37 mJ/M<sup>3</sup>

Water Content Provided By: Compania Nacional de Gas S.A. de C.V.  
 15.0 Lbs/MMCF 240.28 mg/M<sup>3</sup>

\*Hydrogen Sulfide tested on location by Compania Nacional de Gas S.A. de C.V.

Results: 0.063 Gr/100 CF, 1.0 PPMV, 0.000 Mol % or 1.44 mg/M<sup>3</sup>

H2S As Total Sulfur: 0.059 Gr/100 CF or 1.346 mg/M<sup>3</sup>

Base Conditions: 14.650 PSI & 60 Deg F

Sampled By: MSI  
 Analyst: MR  
 Processor: RG  
 Cylinder ID: T-4310

Certified: FESCO, Ltd. - Alice, Texas

David Dannhaus 361-661-7015

**Laboratorio Contratado por Compañía Nacional de Gas SA de CV Cruce Internacional II**

FESCO, Ltd.

Job Number: 54174.001

**CHROMATOGRAPH EXTENDED ANALYSIS  
TOTAL REPORT**

COMPONENT	VOL %	L/M <sup>3</sup>	WT %
Oxygen	0.019		0.033
Hydrogen Sulfide*	< 0.001		< 0.001
Nitrogen	0.966		1.467
Carbon Dioxide	0.805		1.921
Methane	88.918		77.328
Ethane	6.273		10.225
Propane	1.615	0.05913	3.861
Isobutane	0.345	0.01500	1.087
n-Butane	0.465	0.01948	1.465
2,2 Dimethylpropane	0.005	0.00025	0.020
Isopentane	0.178	0.00865	0.696
n-Pentane	0.129	0.00621	0.505
2,2 Dimethylbutane	0.010	0.00055	0.047
Cyclopentane	0.000	0.00000	0.000
2,3 Dimethylbutane	0.014	0.00076	0.065
2 Methylpentane	0.049	0.00270	0.229
3 Methylpentane	0.027	0.00146	0.126
n-Hexane	0.052	0.00284	0.243
Methylcyclopentane	0.013	0.00060	0.059
Benzene	0.011	0.00041	0.047
Cyclohexane	0.012	0.00054	0.055
2-Methylhexane	0.011	0.00068	0.060
3-Methylhexane	0.010	0.00061	0.054
2,2,4 Trimethylpentane	0.000	0.00000	0.000
Other C7's	0.014	0.00081	0.075
n-Heptane	0.015	0.00092	0.081
Methylcyclohexane	0.013	0.00069	0.069
Toluene	0.009	0.00040	0.045
Other C8's	0.012	0.00074	0.072
n-Octane	0.004	0.00027	0.025
Ethylbenzene	0.000	0.00000	0.000
M & P Xylenes	0.002	0.00010	0.012
O-Xylene	0.000	0.00000	0.000
Other C9's	0.003	0.00020	0.021
n-Nonane	0.001	0.00007	0.007
Other C10's	0.000	0.00000	0.000
n-Decane	0.000	0.00000	0.000
Undecanes (11)	<u>0.000</u>	<u>0.00000</u>	<u>0.000</u>
Totals	100.000	0.12412	100.000

**Computed Real Characteristics Of Total Sample:**

Specific Gravity -----	0.639	(Air=1)
Compressibility (Z) -----	0.9974	
Molecular Weight -----	18.45	
Gross Heating Value		
Dry Basis -----	1102	BTU/CF    41.05 mJ/M <sup>3</sup>
Saturated Basis -----	1083	BTU/CF    40.37 mJ/M <sup>3</sup>
Wobbe Index -----	1379	BTU/CF    51.37 mJ/M <sup>3</sup>