

Gas Quality Reports

Haysville Anthony
5/17/2019 - 8/17/2019

Gas Day	Gross Heating Value (HHV) (Btu/scf)	Net Heating Value (LHV) (Btu/scf)	Specific Gravity	Wobbe Index	Hydrocarbon Dewpoint (HCDP) (deg F)	N2 (mol%)	CO2 (mol%)	Methane (mol%)	Ethane (mol%)	Propane (mol%)	Isobutane (mol%)	N-Butane (mol%)	Isopentane (mol%)	N-Pentane (mol%)	C6 Plus (mol%)
05/17/2019	1,026.8	1,009.0	0.584	1,343.76	-153.59	1.406	0.392	94.469	3.502	0.196	0.009	0.016	0.003	0.003	0.003
05/18/2019	1,024.2	1,006.3	0.583	1,341.72	-156.03	1.469	0.377	94.682	3.264	0.173	0.009	0.016	0.003	0.003	0.003
05/19/2019	1,024.8	1,007.0	0.583	1,342.37	-155.72	1.480	0.356	94.589	3.396	0.150	0.007	0.013	0.003	0.003	0.003
05/20/2019	1,025.6	1,007.8	0.584	1,342.08	-153.05	1.571	0.336	94.465	3.352	0.209	0.015	0.032	0.007	0.007	0.007
05/21/2019	1,024.8	1,006.9	0.584	1,341.23	-154.36	1.572	0.354	94.479	3.362	0.178	0.012	0.024	0.006	0.006	0.007
05/22/2019	1,026.0	1,008.2	0.584	1,342.78	-153.48	1.588	0.300	94.360	3.540	0.170	0.009	0.018	0.004	0.004	0.006
05/23/2019	1,025.5	1,007.7	0.584	1,341.85	-154.25	1.589	0.334	94.320	3.558	0.164	0.008	0.015	0.004	0.003	0.005
05/24/2019	1,027.4	1,009.5	0.585	1,343.19	-152.62	1.537	0.354	94.151	3.760	0.165	0.008	0.015	0.003	0.003	0.004
05/25/2019	1,029.8	1,011.8	0.586	1,344.82	-150.17	1.509	0.357	94.000	3.864	0.215	0.013	0.024	0.006	0.006	0.007
05/26/2019	1,029.6	1,011.7	0.586	1,344.48	-150.45	1.491	0.383	93.959	3.930	0.193	0.010	0.018	0.004	0.004	0.007
05/27/2019	1,033.8	1,015.8	0.590	1,346.02	-145.89	1.527	0.407	93.440	4.254	0.303	0.017	0.031	0.007	0.006	0.009
05/28/2019	1,032.2	1,014.2	0.588	1,346.26	-147.89	1.515	0.352	93.722	4.112	0.239	0.014	0.025	0.006	0.006	0.009
05/29/2019	1,027.9	1,010.0	0.585	1,343.38	-151.73	1.521	0.370	94.136	3.749	0.177	0.011	0.019	0.005	0.005	0.007
05/30/2019	1,027.4	1,009.5	0.585	1,342.71	-152.01	1.532	0.382	94.151	3.709	0.178	0.011	0.020	0.005	0.005	0.007
05/31/2019	1,028.2	1,010.3	0.585	1,343.97	-151.59	1.401	0.424	94.324	3.554	0.243	0.014	0.023	0.005	0.004	0.007
06/01/2019	1,027.3	1,009.5	0.584	1,344.21	-153.05	1.396	0.390	94.449	3.522	0.206	0.009	0.016	0.003	0.003	0.005
06/02/2019	1,028.7	1,010.8	0.585	1,344.85	-151.15	1.403	0.390	94.400	3.451	0.293	0.017	0.031	0.005	0.005	0.005
06/03/2019	1,025.9	1,008.1	0.584	1,342.33	-153.39	1.498	0.379	94.465	3.387	0.224	0.012	0.022	0.004	0.004	0.006
06/04/2019	1,027.6	1,009.7	0.584	1,344.38	-152.81	1.333	0.430	94.504	3.467	0.219	0.013	0.022	0.004	0.004	0.005
06/05/2019	1,025.1	1,007.3	0.583	1,342.72	-155.77	1.350	0.431	94.663	3.399	0.123	0.007	0.014	0.003	0.004	0.005
06/06/2019	1,026.6	1,008.8	0.584	1,343.48	-154.54	1.322	0.456	94.472	3.581	0.145	0.005	0.010	0.002	0.002	0.005
06/07/2019	1,025.4	1,007.5	0.582	1,344.30	-156.69	1.193	0.457	94.921	3.269	0.135	0.006	0.011	0.002	0.002	0.003
06/08/2019	1,024.7	1,006.9	0.581	1,343.77	-156.90	1.202	0.459	95.027	3.130	0.141	0.009	0.020	0.004	0.004	0.003
06/09/2019	1,026.0	1,008.1	0.586	1,340.48	-153.18	1.412	0.539	94.214	3.626	0.167	0.009	0.019	0.004	0.004	0.005
06/10/2019	1,025.4	1,007.5	0.584	1,341.75	-155.26	1.271	0.543	94.569	3.443	0.139	0.007	0.016	0.003	0.004	0.004
06/11/2019	1,023.9	1,006.1	0.583	1,340.53	-156.76	1.292	0.551	94.628	3.405	0.107	0.004	0.006	0.002	0.002	0.005
06/12/2019	1,023.8	1,006.0	0.584	1,340.24	-156.65	1.375	0.509	94.544	3.429	0.129	0.004	0.005	0.001	0.001	0.003
06/13/2019	1,027.4	1,009.5	0.586	1,342.26	-153.04	1.379	0.507	94.138	3.775	0.186	0.005	0.007	0.001	0.001	0.002
06/14/2019	1,026.5	1,008.7	0.586	1,341.25	-154.24	1.355	0.552	94.139	3.810	0.132	0.004	0.005	0.001	0	0.001
06/15/2019	1,025.3	1,007.4	0.585	1,340.69	-155.55	1.366	0.536	94.280	3.702	0.108	0.003	0.003	0	0	0.001
06/16/2019	1,024.9	1,007.0	0.584	1,340.98	-156.17	1.304	0.549	94.459	3.568	0.110	0.004	0.005	0.001	0	0.001
06/17/2019	1,022.8	1,005.0	0.584	1,338.42	-157.08	1.450	0.525	94.462	3.428	0.123	0.004	0.006	0.001	0	0.001
06/18/2019	1,023.5	1,005.7	0.584	1,339.72	-156.57	1.441	0.484	94.513	3.405	0.138	0.005	0.010	0.001	0.001	0.002
06/19/2019	1,023.4	1,005.6	0.582	1,341.03	-157.36	1.362	0.462	94.749	3.276	0.129	0.005	0.011	0.002	0.002	0.002
06/20/2019	1,023.4	1,005.6	0.582	1,341.51	-157.49	1.352	0.442	94.851	3.188	0.144	0.006	0.011	0.002	0.002	0.002
06/21/2019	1,027.6	1,009.7	0.586	1,342.34	-151.29	1.438	0.470	94.216	3.596	0.213	0.014	0.032	0.006	0.007	0.008
06/26/2019	1,024.1	1,006.2	0.580	1,344.93	-159.02	1.153	0.410	95.229	3.091	0.107	0.003	0.004	0	0	0.001
06/27/2019	1,029.0	1,011.1	0.584	1,346.57	-152.44	1.221	0.427	94.598	3.482	0.220	0.013	0.026	0.004	0.004	0.004
06/28/2019	1,028.9	1,011.0	0.584	1,346.36	-151.14	1.213	0.442	94.717	3.305	0.227	0.020	0.045	0.010	0.011	0.011
06/29/2019	1,025.6	1,007.7	0.580	1,346.26	-157.24	1.112	0.412	95.206	3.103	0.135	0.007	0.015	0.003	0.003	0.004
06/30/2019	1,028.1	1,010.2	0.582	1,347.29	-152.88	1.146	0.412	94.994	3.161	0.201	0.018	0.041	0.009	0.010	0.009
07/01/2019	1,027.6	1,009.7	0.582	1,346.83	-152.99	1.153	0.416	95.035	3.114	0.191	0.017	0.040	0.010	0.011	0.012
07/02/2019	1,026.2	1,008.3	0.581	1,346.29	-155.04	1.156	0.398	95.218	2.968	0.183	0.015	0.033	0.008	0.008	0.011

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5/17/2019 - 8/17/2019

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07/03/2019	1,025.5	1,007.7	0.580	1,346.13	-155.94	1.112	0.416	95.355	2.865	0.176	0.015	0.034	0.008	0.009	0.009
07/04/2019	1,024.2	1,006.3	0.580	1,344.90	-157.21	1.166	0.405	95.394	2.801	0.170	0.013	0.029	0.007	0.007	0.008
07/05/2019	1,025.3	1,007.5	0.583	1,343.10	-155.49	1.297	0.453	94.753	3.301	0.154	0.009	0.018	0.004	0.004	0.006
07/06/2019	1,026.1	1,008.3	0.582	1,345.08	-156.75	1.151	0.468	94.827	3.439	0.106	0.003	0.004	0	0	0.001
07/08/2019	1,024.0	1,006.2	0.581	1,343.94	-158.69	1.175	0.447	95.089	3.181	0.099	0.003	0.004	0	0	0.001
07/09/2019	1,022.9	1,005.1	0.579	1,344.15	-159.90	1.174	0.403	95.345	2.966	0.100	0.003	0.005	0.001	0.001	0.002
07/10/2019	1,027.2	1,009.3	0.582	1,346.47	-156.17	1.136	0.436	94.791	3.522	0.108	0.003	0.003	0	0	0.001
08/06/2019	1,041.0	1,022.9	0.593	1,352.36	-142.76	1.242	0.476	92.863	5.102	0.297	0.008	0.009	0	0	0.001
08/07/2019	1,043.8	1,025.7	0.595	1,353.46	-140.44	1.273	0.484	92.427	5.484	0.312	0.008	0.010	0.001	0	0.002
08/08/2019	1,043.0	1,024.8	0.592	1,355.60	-141.52	1.183	0.399	93.026	5.018	0.328	0.013	0.022	0.003	0.003	0.004
08/09/2019	1,042.1	1,024.0	0.590	1,356.20	-142.86	1.114	0.386	93.302	4.824	0.339	0.012	0.017	0.002	0.001	0.002
08/10/2019	1,045.0	1,026.8	0.593	1,357.54	-140.89	1.013	0.468	92.977	5.159	0.352	0.011	0.015	0.001	0.001	0.002
08/11/2019	1,044.4	1,026.2	0.593	1,356.68	-141.10	1.050	0.471	92.954	5.160	0.332	0.010	0.016	0.002	0.002	0.002
08/12/2019	1,045.6	1,027.4	0.594	1,357.21	-139.85	1.072	0.467	92.775	5.313	0.327	0.012	0.021	0.003	0.004	0.004
08/13/2019	1,044.0	1,025.8	0.593	1,356.30	-141.51	1.067	0.469	92.916	5.226	0.295	0.009	0.011	0.001	0.001	0.003
08/14/2019	1,049.1	1,030.8	0.595	1,359.69	-67.64	1.086	0.428	92.734	5.125	0.510	0.030	0.055	0.010	0.012	0.011
08/15/2019	1,039.6	1,021.5	0.590	1,353.71	-145.07	1.140	0.426	93.357	4.808	0.253	0.007	0.006	0.001	0.001	0.002

NOTES:**Wobbe Index:** Interchangeability constant calculated using the Gross (or Higher) Heating Value (HHV) divided by the square root of the Specific Gravity**Hydrocarbon Dewpoint (HCDP):** Theoretically determined value using the Redlich-Kwong equation of state (EOS)

Selection: Business Unit ID = 70; Analysis_Key = 66022