

## Gas Quality Reports

M - CPL

Page 1 of 3

5/13/2020 - 8/13/2020

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%)
05/13/2020	1,038.0	1,019.9	0.572	1,371.84	-156.16	0.231	0.014	96.424	3.260	0.061	0.004	0.004	0.001	0	0.001
05/14/2020	1,035.6	1,017.6	0.571	1,369.97	-158.09	0.229	0.043	96.667	2.994	0.058	0.004	0.003	0.001	0	0.001
05/15/2020	1,036.2	1,018.2	0.573	1,369.15	-156.81	0.244	0.094	96.469	3.096	0.081	0.005	0.006	0.001	0.001	0.001
05/16/2020	1,039.0	1,020.9	0.574	1,370.88	-154.46	0.246	0.082	96.159	3.398	0.100	0.005	0.007	0.001	0.001	0.001
05/17/2020	1,037.4	1,019.3	0.574	1,369.52	-155.60	0.249	0.106	96.297	3.241	0.089	0.006	0.008	0.002	0.001	0.002
05/18/2020	1,034.4	1,016.4	0.572	1,367.74	-158.11	0.250	0.110	96.685	2.847	0.085	0.007	0.009	0.002	0.002	0.002
05/19/2020	1,031.6	1,013.6	0.570	1,366.29	-160.99	0.255	0.101	97.030	2.526	0.073	0.005	0.006	0.001	0.001	0.002
05/20/2020	1,030.8	1,012.9	0.570	1,365.74	-161.62	0.253	0.108	97.139	2.398	0.086	0.006	0.006	0.002	0.001	0.002
05/21/2020	1,026.3	1,008.5	0.566	1,364.77	-167.55	0.252	0.029	97.861	1.794	0.051	0.005	0.005	0.001	0	0.001
05/22/2020	1,032.3	1,014.3	0.569	1,368.24	-159.39	0.259	0.016	97.440	1.925	0.304	0.031	0.022	0.002	0.001	0.001
05/23/2020	1,027.8	1,009.9	0.568	1,363.45	-164.90	0.266	0.130	97.457	2.043	0.088	0.006	0.007	0.002	0	0.001
05/24/2020	1,026.2	1,008.3	0.567	1,362.95	-166.79	0.265	0.110	97.696	1.836	0.078	0.006	0.006	0.001	0	0.001
05/25/2020	1,027.7	1,009.8	0.568	1,363.24	-164.88	0.270	0.136	97.436	2.052	0.091	0.006	0.006	0.001	0	0.001
05/26/2020	1,027.7	1,009.8	0.569	1,362.96	-164.76	0.267	0.153	97.404	2.068	0.094	0.006	0.006	0.001	0	0.001
05/27/2020	1,024.9	1,007.0	0.564	1,364.20	-169.41	0.254	0.015	98.071	1.606	0.046	0.004	0.004	0.001	0	0.001
05/28/2020	1,033.5	1,015.6	0.570	1,368.98	-159.63	0.256	0.018	96.997	2.609	0.103	0.007	0.007	0.001	0.001	0.001
05/29/2020	1,028.4	1,010.5	0.567	1,366.04	-165.21	0.253	0.024	97.623	2.017	0.065	0.006	0.007	0.002	0.001	0.002
05/30/2020	1,033.8	1,015.8	0.570	1,369.16	-159.45	0.254	0.017	96.963	2.663	0.082	0.008	0.008	0.002	0.001	0.002
05/31/2020	1,025.4	1,007.6	0.565	1,364.47	-168.55	0.253	0.018	98.016	1.641	0.057	0.006	0.006	0.002	0	0.001
06/01/2020	1,034.1	1,016.1	0.570	1,369.35	-159.02	0.251	0.017	96.978	2.601	0.135	0.008	0.007	0.001	0	0.001
06/02/2020	1,043.8	1,025.7	0.577	1,374.31	-148.86	0.253	0.041	95.936	3.383	0.323	0.028	0.027	0.005	0.003	0.003
06/03/2020	1,042.6	1,024.5	0.576	1,373.64	-150.59	0.273	0.028	95.912	3.537	0.206	0.019	0.018	0.003	0.001	0.002
06/04/2020	1,029.7	1,011.8	0.568	1,366.68	-163.20	0.272	0.016	97.445	2.169	0.078	0.008	0.008	0.002	0.001	0.001
06/05/2020	1,027.4	1,009.5	0.566	1,365.72	-166.74	0.257	0.008	97.743	1.941	0.046	0.003	0.002	0	0	0.001
06/06/2020	1,027.4	1,009.5	0.566	1,365.72	-166.74	0.257	0.008	97.743	1.941	0.046	0.003	0.002	0	0	0.001
06/07/2020	1,041.0	1,022.9	0.577	1,370.21	-150.09	0.260	0.168	95.986	3.220	0.293	0.028	0.031	0.006	0.004	0.004
06/08/2020	1,036.9	1,018.9	0.576	1,366.73	-154.59	0.269	0.225	96.144	3.154	0.183	0.010	0.011	0.001	0.001	0.001
06/09/2020	1,032.8	1,014.8	0.572	1,365.32	-158.91	0.260	0.184	96.732	2.685	0.117	0.008	0.009	0.002	0.002	0.002
06/10/2020	1,034.0	1,016.0	0.573	1,365.72	-157.60	0.262	0.197	96.550	2.840	0.127	0.008	0.010	0.002	0.002	0.002
06/11/2020	1,032.8	1,014.8	0.572	1,365.22	-158.87	0.267	0.184	96.712	2.698	0.119	0.008	0.009	0.002	0.001	0.001
06/12/2020	1,031.9	1,013.9	0.571	1,364.98	-159.96	0.264	0.172	96.845	2.596	0.107	0.006	0.007	0.001	0.001	0.001
06/13/2020	1,033.4	1,015.4	0.572	1,365.82	-158.23	0.265	0.171	96.712	2.684	0.139	0.011	0.012	0.003	0.002	0.002
06/14/2020	1,030.2	1,012.3	0.570	1,364.77	-161.98	0.264	0.134	97.130	2.363	0.097	0.005	0.005	0.001	0	0.001
06/15/2020	1,030.0	1,012.1	0.569	1,365.13	-162.18	0.262	0.112	97.220	2.294	0.093	0.006	0.008	0.002	0.001	0.001
06/16/2020	1,025.8	1,007.9	0.565	1,364.57	-168.09	0.257	0.020	97.956	1.692	0.060	0.005	0.006	0.001	0.001	0.001
06/17/2020	1,044.5	1,026.3	0.581	1,370.62	-146.88	0.271	0.243	95.313	3.814	0.295	0.023	0.028	0.005	0.004	0.004
06/18/2020	1,027.3	1,009.4	0.566	1,364.92	-165.93	0.254	0.048	97.745	1.847	0.083	0.007	0.009	0.002	0.002	0.002
06/19/2020	1,028.8	1,010.9	0.569	1,363.85	-162.94	0.264	0.141	97.332	2.137	0.103	0.007	0.010	0.002	0.002	0.002
06/20/2020	1,027.9	1,010.0	0.568	1,363.64	-164.90	0.263	0.125	97.452	2.059	0.088	0.005	0.006	0.001	0	0.001
06/21/2020	1,029.0	1,011.1	0.569	1,364.04	-162.98	0.264	0.136	97.307	2.166	0.111	0.007	0.007	0.001	0	0.001
06/22/2020	1,027.6	1,009.8	0.567	1,364.60	-165.62	0.259	0.072	97.604	1.976	0.076	0.005	0.006	0.001	0	0.001
06/23/2020	1,028.7	1,010.8	0.567	1,366.16	-164.86	0.258	0.023	97.578	2.056	0.068	0.006	0.006	0.002	0.001	0.002
06/24/2020	1,027.9	1,010.0	0.566	1,365.84	-165.89	0.251	0.020	97.708	1.941	0.066	0.005	0.005	0.001	0.001	0.002

## Gas Quality Reports

M - CPL

5/13/2020 - 8/13/2020

Page 2 of 3

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06/25/2020	1,031.2	1,013.2	0.572	1,363.73	-160.26	0.267	0.214	96.844	2.542	0.117	0.006	0.007	0.001	0	0.001
06/26/2020	1,026.8	1,008.9	0.566	1,364.82	-166.93	0.253	0.039	97.797	1.832	0.067	0.005	0.005	0.001	0	0.001
06/27/2020	1,028.3	1,010.4	0.567	1,366.03	-165.40	0.250	0.022	97.649	1.998	0.065	0.006	0.006	0.002	0.001	0.002
06/28/2020	1,027.7	1,009.8	0.566	1,365.74	-166.12	0.251	0.019	97.729	1.925	0.061	0.005	0.006	0.002	0.001	0.001
06/29/2020	1,026.0	1,008.2	0.565	1,364.89	-167.91	0.252	0.013	97.965	1.684	0.071	0.006	0.006	0.001	0	0.001
06/30/2020	1,028.3	1,010.4	0.567	1,366.10	-165.49	0.246	0.021	97.663	1.992	0.062	0.006	0.006	0.002	0.001	0.002
07/01/2020	1,030.0	1,012.1	0.568	1,367.10	-163.24	0.247	0.019	97.434	2.222	0.063	0.005	0.005	0.001	0.001	0.002
07/02/2020	1,038.8	1,020.7	0.578	1,366.91	-152.51	0.264	0.274	95.775	3.501	0.165	0.007	0.008	0.002	0.001	0.001
07/03/2020	1,035.4	1,017.4	0.574	1,366.01	-156.28	0.258	0.225	96.316	3.048	0.134	0.007	0.008	0.002	0.001	0.002
07/04/2020	1,034.2	1,016.2	0.574	1,365.29	-157.31	0.263	0.224	96.465	2.895	0.134	0.007	0.008	0.002	0.001	0.002
07/05/2020	1,033.5	1,015.5	0.573	1,365.91	-158.36	0.261	0.174	96.648	2.779	0.121	0.006	0.007	0.001	0.001	0.001
07/06/2020	1,035.9	1,017.8	0.575	1,366.14	-155.81	0.264	0.228	96.235	3.111	0.147	0.006	0.007	0.001	0	0.001
07/07/2020	1,046.5	1,028.3	0.583	1,370.87	-144.91	0.262	0.293	95.090	3.839	0.467	0.026	0.020	0.001	0.001	0.001
07/08/2020	1,025.6	1,007.8	0.565	1,364.14	-168.27	0.261	0.036	97.905	1.738	0.053	0.003	0.003	0	0	0.001
07/09/2020	1,023.7	1,005.9	0.564	1,363.48	-170.34	0.264	0.012	98.221	1.442	0.046	0.004	0.004	0	0.006	0.001
07/10/2020	1,023.4	1,005.6	0.563	1,363.57	-171.22	0.256	0.005	98.255	1.442	0.038	0.002	0.002	0	0	0
07/11/2020	1,026.1	1,008.3	0.566	1,363.68	-167.06	0.262	0.072	97.812	1.755	0.080	0.006	0.009	0.001	0.001	0.002
07/12/2020	1,028.1	1,010.2	0.568	1,364.09	-164.33	0.265	0.106	97.521	1.975	0.105	0.008	0.013	0.003	0.003	0.003
07/13/2020	1,023.1	1,005.3	0.563	1,363.19	-171.42	0.259	0.011	98.303	1.371	0.046	0.004	0.004	0	0	0.001
07/14/2020	1,023.9	1,006.0	0.564	1,363.58	-170.27	0.262	0.013	98.212	1.437	0.062	0.005	0.005	0.001	0	0.001
07/15/2020	1,023.9	1,006.1	0.564	1,363.71	-170.38	0.259	0.010	98.195	1.476	0.050	0.004	0.004	0.001	0	0.001
07/16/2020	1,023.6	1,005.7	0.564	1,363.45	-170.81	0.258	0.013	98.241	1.430	0.048	0.004	0.004	0.001	0	0.001
07/17/2020	1,022.6	1,004.8	0.563	1,362.90	-171.94	0.259	0.013	98.356	1.320	0.043	0.004	0.004	0	0	0.001
07/18/2020	1,023.2	1,005.4	0.563	1,363.26	-171.19	0.259	0.013	98.271	1.404	0.044	0.004	0.004	0	0	0.001
07/19/2020	1,023.1	1,005.3	0.563	1,363.18	-171.28	0.261	0.013	98.284	1.387	0.046	0.004	0.004	0.001	0	0.001
07/20/2020	1,022.9	1,005.1	0.563	1,363.10	-171.69	0.258	0.011	98.324	1.357	0.042	0.003	0.003	0	0	0.001
07/21/2020	1,023.3	1,005.5	0.563	1,363.47	-171.28	0.257	0.006	98.266	1.425	0.040	0.003	0.002	0	0	0
07/22/2020	1,025.7	1,007.8	0.565	1,364.74	-168.53	0.257	0.009	97.968	1.710	0.048	0.003	0.003	0	0	0.001
07/23/2020	1,022.6	1,004.8	0.563	1,362.96	-171.97	0.258	0.012	98.348	1.334	0.040	0.003	0.003	0	0	0.001
07/24/2020	1,022.5	1,004.7	0.563	1,362.90	-172.14	0.255	0.012	98.376	1.307	0.041	0.004	0.004	0	0	0.001
07/25/2020	1,023.3	1,005.5	0.563	1,363.36	-171.17	0.254	0.012	98.288	1.385	0.052	0.004	0.004	0	0	0.001
07/26/2020	1,023.1	1,005.3	0.563	1,363.27	-171.38	0.255	0.012	98.294	1.387	0.044	0.003	0.004	0	0	0.001
07/27/2020	1,026.1	1,008.2	0.565	1,364.93	-168.02	0.256	0.011	97.930	1.738	0.055	0.005	0.004	0.001	0	0.001
07/28/2020	1,022.5	1,004.7	0.563	1,362.88	-172.10	0.255	0.013	98.380	1.299	0.043	0.004	0.004	0.001	0	0.001
07/29/2020	1,022.2	1,004.4	0.563	1,362.71	-172.42	0.256	0.014	98.408	1.273	0.040	0.004	0.004	0.001	0	0.001
07/30/2020	1,022.0	1,004.3	0.563	1,362.60	-172.63	0.256	0.015	98.431	1.249	0.039	0.004	0.004	0.001	0	0.001
07/31/2020	1,023.6	1,005.8	0.564	1,363.50	-170.78	0.255	0.014	98.233	1.446	0.042	0.004	0.004	0.001	0	0.001
08/01/2020	1,025.4	1,007.6	0.565	1,364.56	-168.78	0.253	0.013	97.997	1.686	0.042	0.004	0.004	0	0	0.001
08/02/2020	1,022.6	1,004.8	0.563	1,362.95	-171.95	0.255	0.014	98.354	1.328	0.039	0.004	0.004	0.001	0	0.001
08/03/2020	1,024.1	1,006.3	0.564	1,363.72	-170.20	0.258	0.014	98.167	1.506	0.044	0.004	0.004	0.001	0	0.001
08/04/2020	1,032.1	1,014.2	0.569	1,368.16	-161.19	0.256	0.021	97.121	2.531	0.060	0.004	0.004	0.001	0	0.001
08/05/2020	1,023.5	1,005.7	0.564	1,363.48	-170.90	0.252	0.015	98.243	1.440	0.041	0.004	0.004	0.001	0	0.001
08/06/2020	1,028.5	1,010.6	0.567	1,366.26	-165.19	0.256	0.012	97.655	1.968	0.098	0.005	0.004	0.001	0	0.001

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M - CPL

5/13/2020 - 8/13/2020

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%)
08/07/2020	1,024.3	1,006.5	0.564	1,363.85	-169.86	0.258	0.014	98.154	1.504	0.058	0.004	0.005	0.001	0	0.001
08/08/2020	1,023.4	1,005.6	0.563	1,363.34	-171.02	0.257	0.014	98.259	1.416	0.044	0.004	0.004	0.001	0	0.001
08/09/2020	1,025.2	1,007.4	0.565	1,364.41	-168.99	0.256	0.013	98.025	1.652	0.045	0.004	0.004	0.001	0	0.001
08/10/2020	1,026.7	1,008.8	0.573	1,356.72	-28.65	0.397	0.356	97.287	1.675	0.050	0.004	0.178	0.001	0	0.052
08/11/2020	1,027.6	1,009.7	0.566	1,365.73	-166.35	0.254	0.015	97.721	1.949	0.050	0.004	0.004	0.001	0	0.001

**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 = 48752