

Gas Quality Reports

LS455 - Springfield
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	1,025.4	1,007.6	0.588	1,337.81	-152.38	1.739	0.452	93.677	3.958	0.145	0.007	0.013	0.002	0.002	0.005
05/18/2019	1,027.7	1,009.8	0.589	1,338.87	-150.38	1.742	0.464	93.362	4.247	0.154	0.008	0.014	0.003	0.002	0.005
05/19/2019	1,024.6	1,006.8	0.587	1,336.77	-152.81	1.780	0.455	93.688	3.907	0.140	0.007	0.014	0.003	0.003	0.004
05/20/2019	1,025.0	1,007.2	0.588	1,336.23	-151.83	1.824	0.469	93.531	3.978	0.160	0.009	0.017	0.003	0.003	0.005
05/21/2019	1,026.8	1,008.9	0.590	1,337.07	-149.98	1.816	0.483	93.349	4.111	0.194	0.012	0.021	0.004	0.004	0.007
05/22/2019	1,027.7	1,009.9	0.588	1,340.19	-151.08	1.645	0.457	93.590	4.132	0.145	0.008	0.013	0.002	0.002	0.005
05/23/2019	1,025.8	1,008.0	0.587	1,338.70	-152.47	1.704	0.440	93.717	3.981	0.132	0.006	0.011	0.002	0.002	0.005
05/24/2019	1,025.6	1,007.7	0.588	1,337.66	-152.09	1.771	0.443	93.618	3.989	0.147	0.008	0.014	0.003	0.003	0.005
05/25/2019	1,027.1	1,009.3	0.590	1,337.59	-150.21	1.805	0.474	93.287	4.236	0.163	0.009	0.015	0.003	0.003	0.006
05/26/2019	1,026.4	1,008.6	0.589	1,337.81	-151.30	1.774	0.461	93.449	4.139	0.150	0.007	0.012	0.002	0.002	0.004
05/27/2019	1,024.8	1,007.0	0.588	1,336.30	-152.38	1.835	0.452	93.522	4.020	0.148	0.006	0.010	0.002	0.001	0.004
05/28/2019	1,028.3	1,010.4	0.591	1,337.81	-148.63	1.825	0.485	93.137	4.301	0.202	0.012	0.022	0.005	0.004	0.007
05/29/2019	1,028.3	1,010.5	0.590	1,339.26	-149.46	1.765	0.448	93.310	4.259	0.177	0.010	0.017	0.004	0.003	0.007
05/30/2019	1,026.8	1,008.9	0.588	1,338.54	-151.01	1.759	0.441	93.521	4.084	0.158	0.009	0.016	0.003	0.003	0.006
05/31/2019	1,024.4	1,006.6	0.587	1,336.90	-152.92	1.857	0.391	93.671	3.917	0.136	0.007	0.012	0.003	0.002	0.005
06/01/2019	1,021.4	1,003.6	0.586	1,333.68	-154.98	1.960	0.402	93.819	3.642	0.144	0.008	0.014	0.003	0.003	0.005
06/02/2019	1,021.9	1,004.2	0.586	1,335.15	-155.08	1.902	0.379	93.934	3.599	0.157	0.008	0.013	0.002	0.001	0.004
06/03/2019	1,019.8	1,002.0	0.584	1,334.06	-157.43	1.865	0.394	94.224	3.370	0.125	0.007	0.010	0.002	0.001	0.004
06/04/2019	1,018.4	1,000.7	0.584	1,332.49	-157.89	1.967	0.370	94.251	3.232	0.156	0.007	0.012	0.001	0.001	0.004
06/05/2019	1,018.7	1,001.0	0.584	1,332.72	-157.55	1.917	0.399	94.284	3.220	0.143	0.009	0.016	0.003	0.003	0.005
06/06/2019	1,016.8	999.1	0.584	1,330.07	-158.86	2.004	0.425	94.220	3.202	0.124	0.006	0.011	0.002	0.001	0.004
06/07/2019	1,017.2	999.5	0.583	1,331.65	-159.21	1.906	0.415	94.432	3.096	0.125	0.006	0.011	0.002	0.002	0.005
06/08/2019	1,016.0	998.3	0.584	1,329.83	-159.74	1.980	0.429	94.364	3.078	0.127	0.005	0.009	0.002	0.001	0.004
06/09/2019	1,016.0	998.3	0.582	1,331.36	-160.83	1.851	0.429	94.666	2.909	0.124	0.005	0.010	0.001	0.001	0.004
06/10/2019	1,017.7	999.9	0.582	1,334.36	-160.84	1.673	0.437	94.792	2.990	0.096	0.003	0.006	0	0	0.003
06/11/2019	1,017.6	999.9	0.583	1,332.91	-159.76	1.759	0.457	94.613	3.012	0.135	0.007	0.011	0.001	0.001	0.003
06/12/2019	1,015.4	997.7	0.583	1,330.31	-159.99	1.870	0.453	94.760	2.709	0.148	0.013	0.026	0.006	0.006	0.008
06/13/2019	1,019.8	1,002.1	0.585	1,333.70	-156.54	1.862	0.417	94.268	3.220	0.199	0.009	0.014	0.003	0.002	0.006
06/14/2019	1,020.6	1,002.9	0.586	1,333.78	-155.67	1.904	0.410	94.072	3.396	0.182	0.009	0.015	0.003	0.003	0.005
06/15/2019	1,020.3	1,002.5	0.586	1,332.83	-155.66	1.945	0.424	93.978	3.453	0.162	0.009	0.016	0.004	0.004	0.005
06/16/2019	1,019.2	1,001.4	0.586	1,331.49	-156.69	1.981	0.438	93.938	3.495	0.122	0.006	0.010	0.002	0.002	0.005
06/17/2019	1,019.1	1,001.3	0.586	1,331.23	-156.96	1.993	0.442	93.885	3.544	0.122	0.004	0.006	0.001	0.001	0.003
06/18/2019	1,018.0	1,000.3	0.584	1,331.91	-158.62	1.874	0.449	94.298	3.237	0.122	0.005	0.009	0.001	0.001	0.004
06/19/2019	1,018.7	1,001.0	0.584	1,332.88	-157.37	1.865	0.423	94.387	3.119	0.159	0.011	0.020	0.004	0.004	0.007
06/20/2019	1,019.4	1,001.7	0.583	1,334.73	-158.07	1.776	0.405	94.468	3.192	0.133	0.006	0.011	0.002	0.001	0.006
06/21/2019	1,022.0	1,004.2	0.584	1,336.90	-156.60	1.649	0.451	94.300	3.462	0.117	0.005	0.009	0.001	0.001	0.005
06/22/2019	1,022.1	1,004.4	0.584	1,337.76	-156.14	1.666	0.398	94.444	3.288	0.166	0.010	0.018	0.003	0.002	0.005
06/23/2019	1,021.0	1,003.3	0.583	1,337.81	-157.92	1.625	0.388	94.644	3.180	0.139	0.007	0.011	0.001	0.001	0.004
06/24/2019	1,022.0	1,004.2	0.583	1,338.88	-157.78	1.539	0.416	94.624	3.286	0.116	0.005	0.009	0.001	0.001	0.003
06/25/2019	1,018.1	1,000.4	0.581	1,335.22	-160.45	1.669	0.407	94.841	2.957	0.106	0.005	0.009	0.001	0.001	0.004
06/26/2019	1,017.3	999.6	0.583	1,332.12	-159.37	1.866	0.422	94.472	3.100	0.113	0.006	0.012	0.002	0.002	0.004
06/27/2019	1,019.6	1,001.8	0.585	1,333.09	-156.14	1.929	0.398	94.190	3.280	0.153	0.010	0.021	0.004	0.005	0.009
06/28/2019	1,019.0	1,001.3	0.584	1,333.60	-158.28	1.854	0.401	94.317	3.290	0.120	0.004	0.008	0.001	0.001	0.003

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06/29/2019	1,023.5	1,005.7	0.588	1,334.86	-151.62	1.929	0.427	93.721	3.637	0.211	0.016	0.035	0.008	0.009	0.008
06/30/2019	1,021.7	1,003.9	0.585	1,336.04	-154.80	1.770	0.410	94.314	3.264	0.175	0.015	0.028	0.006	0.007	0.011
07/01/2019	1,025.8	1,008.0	0.587	1,339.32	-150.75	1.701	0.406	94.062	3.513	0.223	0.020	0.042	0.010	0.010	0.012
07/02/2019	1,024.8	1,007.0	0.586	1,339.26	-152.05	1.646	0.412	94.293	3.344	0.213	0.019	0.042	0.010	0.011	0.011
07/03/2019	1,023.3	1,005.5	0.585	1,338.32	-153.00	1.681	0.394	94.448	3.181	0.202	0.018	0.041	0.010	0.011	0.013
07/04/2019	1,024.0	1,006.1	0.586	1,338.08	-59.90	1.696	0.417	94.452	3.034	0.254	0.030	0.065	0.016	0.017	0.018
07/05/2019	1,026.5	1,008.6	0.589	1,337.16	-78.39	1.885	0.423	93.550	3.787	0.253	0.024	0.044	0.010	0.010	0.013
07/06/2019	1,025.4	1,007.6	0.587	1,338.70	-152.64	1.615	0.485	93.911	3.812	0.137	0.008	0.017	0.004	0.004	0.008
07/07/2019	1,027.0	1,009.1	0.588	1,339.65	-152.18	1.606	0.488	93.646	4.122	0.125	0.004	0.006	0	0	0.003
07/08/2019	1,026.8	1,008.9	0.587	1,340.45	-151.79	1.583	0.454	93.919	3.834	0.161	0.011	0.022	0.004	0.005	0.006
07/09/2019	1,026.8	1,008.9	0.588	1,339.12	-149.98	1.660	0.475	93.827	3.760	0.190	0.018	0.038	0.010	0.010	0.013
07/10/2019	1,026.4	1,008.6	0.589	1,337.82	-150.55	1.750	0.476	93.558	3.994	0.167	0.012	0.024	0.005	0.006	0.009
07/11/2019	1,025.0	1,007.2	0.587	1,337.69	-152.87	1.756	0.434	93.713	3.937	0.135	0.006	0.011	0.001	0.001	0.005
07/12/2019	1,035.3	1,017.3	0.593	1,344.82	-143.54	1.629	0.452	92.939	4.580	0.317	0.019	0.042	0.007	0.008	0.006
07/13/2019	1,045.4	1,027.2	0.601	1,348.77	-45.63	1.702	0.504	91.834	5.254	0.488	0.045	0.107	0.022	0.025	0.020
07/14/2019	1,041.6	1,023.5	0.597	1,347.71	-50.55	1.673	0.462	92.316	4.967	0.409	0.034	0.082	0.018	0.021	0.019
07/15/2019	1,042.5	1,024.3	0.597	1,348.95	-46.47	1.636	0.446	92.448	4.799	0.469	0.040	0.097	0.020	0.024	0.021
07/16/2019	1,035.0	1,017.0	0.594	1,342.42	-144.31	1.733	0.508	92.377	5.141	0.216	0.007	0.011	0.001	0.001	0.005
07/17/2019	1,035.1	1,017.1	0.594	1,342.80	-144.33	1.741	0.485	92.412	5.106	0.229	0.008	0.013	0.001	0.001	0.004
07/18/2019	1,037.0	1,018.9	0.595	1,343.97	-142.75	1.741	0.479	92.211	5.295	0.241	0.011	0.016	0.002	0.001	0.004
07/19/2019	1,038.8	1,020.7	0.596	1,345.12	-141.34	1.695	0.503	92.058	5.440	0.266	0.010	0.017	0.003	0.003	0.004
07/20/2019	1,036.0	1,017.9	0.594	1,344.33	-144.34	1.615	0.510	92.537	5.074	0.240	0.008	0.011	0.001	0.001	0.003
07/21/2019	1,034.5	1,016.5	0.593	1,343.21	-145.27	1.678	0.484	92.614	4.991	0.209	0.006	0.010	0.002	0.002	0.004
07/22/2019	1,034.9	1,016.9	0.593	1,343.96	-145.32	1.640	0.482	92.649	4.986	0.227	0.006	0.008	0	0	0.003
07/23/2019	1,035.1	1,017.1	0.592	1,345.09	-145.72	1.578	0.465	92.805	4.919	0.216	0.006	0.009	0	0	0.003
07/24/2019	1,033.5	1,015.5	0.593	1,342.03	-145.71	1.759	0.463	92.616	4.922	0.216	0.007	0.011	0.001	0.001	0.004
07/25/2019	1,032.3	1,014.3	0.594	1,339.30	-145.94	1.900	0.483	92.340	5.079	0.184	0.004	0.006	0	0	0.003
07/26/2019	1,032.2	1,014.3	0.594	1,339.78	-145.49	1.820	0.507	92.578	4.841	0.212	0.010	0.017	0.004	0.004	0.008
07/27/2019	1,033.3	1,015.3	0.593	1,342.26	-146.19	1.716	0.473	92.693	4.886	0.218	0.005	0.006	0	0	0.003
07/28/2019	1,032.5	1,014.5	0.591	1,343.41	-147.44	1.603	0.458	93.114	4.590	0.212	0.006	0.011	0.001	0.001	0.004
07/29/2019	1,033.0	1,015.0	0.592	1,343.04	-146.85	1.633	0.475	92.932	4.712	0.232	0.006	0.007	0	0	0.002
07/30/2019	1,034.1	1,016.1	0.592	1,344.29	-146.02	1.589	0.470	92.948	4.727	0.236	0.008	0.014	0.002	0.002	0.004
07/31/2019	1,034.4	1,016.4	0.593	1,342.75	-145.02	1.696	0.494	92.615	4.913	0.254	0.009	0.013	0.001	0.001	0.004
08/01/2019	1,035.8	1,017.8	0.594	1,343.49	-142.80	1.693	0.500	92.523	4.956	0.268	0.013	0.027	0.005	0.006	0.009
08/02/2019	1,038.0	1,019.9	0.594	1,346.81	-143.07	1.531	0.494	92.547	5.123	0.283	0.008	0.011	0	0	0.003
08/03/2019	1,037.2	1,019.1	0.592	1,347.62	-143.26	1.481	0.456	92.961	4.746	0.300	0.015	0.024	0.004	0.004	0.010
08/04/2019	1,041.5	1,023.4	0.599	1,346.04	-138.33	1.761	0.495	91.714	5.625	0.335	0.020	0.032	0.005	0.005	0.007
08/05/2019	1,043.4	1,025.2	0.598	1,348.96	-138.66	1.607	0.496	91.677	5.915	0.274	0.009	0.014	0.002	0.002	0.005
08/06/2019	1,045.9	1,027.7	0.601	1,348.53	-136.15	1.733	0.516	91.045	6.376	0.295	0.011	0.016	0.002	0.002	0.005
08/07/2019	1,047.2	1,028.9	0.601	1,350.22	-135.89	1.641	0.525	91.033	6.494	0.278	0.009	0.013	0.002	0.001	0.004
08/08/2019	1,046.6	1,028.4	0.602	1,349.22	-136.00	1.766	0.481	90.895	6.563	0.275	0.006	0.010	0.001	0.001	0.003
08/09/2019	1,047.3	1,029.1	0.603	1,348.68	-134.97	1.798	0.511	90.722	6.628	0.312	0.009	0.014	0.002	0.001	0.004
08/10/2019	1,044.5	1,026.3	0.600	1,347.90	-136.83	1.787	0.470	91.259	6.112	0.328	0.013	0.021	0.003	0.003	0.005

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08/11/2019	1,045.5	1,027.3	0.601	1,349.00	-136.27	1.721	0.487	91.266	6.122	0.357	0.015	0.023	0.003	0.002	0.004
08/12/2019	1,047.6	1,029.4	0.603	1,349.10	-134.46	1.746	0.531	90.843	6.474	0.358	0.014	0.022	0.003	0.003	0.005
08/13/2019	1,048.1	1,029.9	0.603	1,349.76	-134.10	1.735	0.518	90.845	6.497	0.350	0.015	0.026	0.005	0.004	0.006
08/14/2019	1,046.1	1,027.9	0.601	1,348.88	-136.00	1.770	0.481	90.995	6.427	0.294	0.009	0.015	0.002	0.002	0.005
08/15/2019	1,051.6	1,033.3	0.605	1,351.54	-58.70	1.813	0.477	90.613	6.489	0.476	0.029	0.063	0.012	0.015	0.012

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 = 58191