

Gas Quality Reports

LS120 - Hesston to Wichita

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	1,076.4	1,057.7	0.618	1,368.89	-37.36	1.469	0.520	89.291	7.025	1.421	0.080	0.145	0.019	0.016	0.012
05/18/2019	1,082.0	1,063.1	0.621	1,373.47	-35.69	1.297	0.553	89.003	7.349	1.514	0.084	0.152	0.019	0.017	0.011
05/19/2019	1,084.6	1,065.7	0.623	1,373.68	-33.78	1.293	0.626	88.573	7.654	1.556	0.088	0.159	0.020	0.018	0.012
05/20/2019	1,075.5	1,056.8	0.629	1,355.59	-26.46	2.435	0.610	87.349	7.631	1.611	0.100	0.192	0.028	0.026	0.017
05/21/2019	1,072.7	1,054.0	0.629	1,352.54	-25.80	2.610	0.577	87.261	7.712	1.484	0.096	0.184	0.029	0.028	0.020
05/22/2019	1,068.7	1,050.1	0.624	1,353.30	-33.68	2.457	0.504	87.937	7.541	1.276	0.077	0.147	0.023	0.022	0.016
05/23/2019	1,059.8	1,041.4	0.617	1,349.31	-44.95	2.721	0.269	88.593	7.186	1.036	0.054	0.100	0.016	0.015	0.013
05/24/2019	1,061.9	1,043.5	0.615	1,353.63	-43.03	2.517	0.227	88.924	7.077	1.046	0.057	0.104	0.017	0.016	0.014
05/25/2019	1,065.4	1,046.9	0.618	1,354.88	-38.93	2.443	0.318	88.616	7.226	1.151	0.067	0.126	0.020	0.018	0.015
05/26/2019	1,069.7	1,051.1	0.620	1,358.50	-38.56	2.180	0.425	88.511	7.401	1.233	0.071	0.131	0.019	0.017	0.013
05/27/2019	1,071.6	1,053.0	0.621	1,359.33	-37.87	2.137	0.468	88.297	7.582	1.256	0.073	0.136	0.020	0.018	0.013
05/28/2019	1,069.5	1,050.9	0.620	1,357.96	-40.76	2.165	0.460	88.428	7.499	1.210	0.068	0.125	0.018	0.016	0.011
05/29/2019	1,067.0	1,048.4	0.620	1,355.26	-44.35	2.303	0.440	88.387	7.487	1.165	0.063	0.116	0.015	0.014	0.009
05/30/2019	1,070.9	1,052.3	0.624	1,356.00	-42.92	2.294	0.531	87.874	7.745	1.322	0.071	0.128	0.015	0.013	0.007
05/31/2019	1,068.8	1,050.2	0.621	1,356.21	-45.43	2.219	0.500	88.288	7.528	1.247	0.066	0.120	0.014	0.012	0.007
06/01/2019	1,062.5	1,044.1	0.617	1,352.56	-50.12	2.305	0.447	88.829	7.114	1.120	0.057	0.098	0.012	0.010	0.007
06/02/2019	1,061.7	1,043.3	0.617	1,351.28	-51.03	2.382	0.443	88.738	7.149	1.111	0.055	0.095	0.012	0.010	0.006
06/03/2019	1,062.7	1,044.2	0.619	1,351.08	-52.02	2.477	0.422	88.500	7.243	1.183	0.055	0.097	0.010	0.008	0.004
06/04/2019	1,072.5	1,053.9	0.618	1,364.48	-45.49	2.117	0.219	88.827	7.225	1.392	0.079	0.114	0.012	0.009	0.006
06/05/2019	1,078.1	1,059.3	0.618	1,371.89	-34.25	1.813	0.179	89.205	6.997	1.517	0.098	0.133	0.025	0.019	0.014
06/06/2019	1,072.6	1,053.9	0.611	1,372.61	-37.92	1.437	0.215	90.517	6.139	1.472	0.071	0.103	0.017	0.011	0.017
06/07/2019	1,066.2	1,047.7	0.610	1,365.03	-45.07	1.843	0.169	90.217	6.327	1.267	0.058	0.085	0.013	0.009	0.014
06/08/2019	1,063.3	1,044.8	0.609	1,362.08	-47.37	1.938	0.177	90.259	6.270	1.187	0.054	0.080	0.013	0.009	0.013
06/09/2019	1,060.1	1,041.6	0.609	1,358.61	-51.49	2.098	0.165	90.181	6.330	1.078	0.047	0.073	0.011	0.007	0.011
06/10/2019	1,060.3	1,041.8	0.609	1,358.48	-49.67	2.099	0.178	90.120	6.385	1.066	0.047	0.073	0.011	0.008	0.013
06/11/2019	1,053.1	1,034.7	0.609	1,349.21	-54.21	2.528	0.182	89.838	6.428	0.893	0.038	0.062	0.010	0.008	0.012
06/12/2019	1,047.0	1,028.8	0.609	1,341.43	-63.42	2.886	0.188	89.622	6.408	0.789	0.032	0.054	0.008	0.006	0.007
06/13/2019	1,052.6	1,034.2	0.613	1,344.71	-58.51	2.721	0.292	89.261	6.629	0.957	0.044	0.073	0.009	0.007	0.006
06/14/2019	1,059.0	1,040.6	0.617	1,348.78	-52.22	2.541	0.392	88.805	7.003	1.085	0.054	0.093	0.011	0.009	0.006
06/15/2019	1,072.4	1,053.7	0.621	1,360.75	-39.01	2.202	0.369	88.292	7.550	1.378	0.062	0.106	0.015	0.012	0.014
06/16/2019	1,075.2	1,056.4	0.622	1,363.21	-40.70	2.019	0.440	88.223	7.704	1.392	0.068	0.118	0.015	0.012	0.010
06/17/2019	1,071.2	1,052.6	0.621	1,359.71	-43.41	2.097	0.460	88.344	7.624	1.274	0.061	0.104	0.014	0.012	0.010
06/18/2019	1,069.0	1,050.4	0.618	1,359.44	-46.19	2.163	0.359	88.630	7.444	1.222	0.057	0.094	0.013	0.011	0.009
06/19/2019	1,062.1	1,043.6	0.613	1,356.53	-51.31	2.299	0.212	89.304	7.001	1.032	0.048	0.074	0.011	0.009	0.010
06/20/2019	1,070.4	1,051.8	0.618	1,361.15	-49.42	2.169	0.307	88.488	7.650	1.227	0.052	0.083	0.010	0.008	0.006
06/21/2019	1,068.4	1,049.8	0.618	1,359.14	-46.69	2.183	0.344	88.702	7.349	1.242	0.056	0.093	0.012	0.010	0.009
06/22/2019	1,069.6	1,051.0	0.618	1,360.91	-45.76	2.127	0.320	88.822	7.225	1.324	0.057	0.094	0.013	0.010	0.009
06/23/2019	1,063.5	1,045.0	0.614	1,356.92	-50.13	2.183	0.311	89.343	6.816	1.169	0.056	0.092	0.012	0.010	0.008
06/24/2019	1,062.2	1,043.7	0.612	1,357.81	-55.85	2.039	0.316	89.638	6.810	1.055	0.045	0.073	0.009	0.007	0.006
06/25/2019	1,063.2	1,044.7	0.616	1,354.27	-55.66	2.269	0.397	88.839	7.232	1.123	0.048	0.074	0.008	0.006	0.004
06/26/2019	1,053.0	1,034.7	0.612	1,346.35	-68.27	2.843	0.138	89.028	7.075	0.832	0.029	0.044	0.005	0.004	0.003
06/27/2019	1,049.2	1,031.0	0.610	1,343.82	-70.88	2.938	0.092	89.352	6.753	0.784	0.027	0.042	0.005	0.004	0.003
06/28/2019	1,058.6	1,040.2	0.613	1,351.99	-54.88	2.519	0.214	89.142	7.007	0.988	0.041	0.064	0.009	0.007	0.009

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06/29/2019	1,071.0	1,052.3	0.619	1,360.68	-47.47	2.210	0.323	88.363	7.641	1.309	0.051	0.080	0.009	0.007	0.008
06/30/2019	1,064.0	1,045.5	0.617	1,355.12	-55.18	2.296	0.358	88.701	7.443	1.066	0.045	0.070	0.009	0.007	0.005
07/01/2019	1,070.0	1,051.3	0.616	1,362.70	-52.45	2.041	0.289	88.733	7.682	1.123	0.044	0.067	0.008	0.006	0.007
07/02/2019	1,062.1	1,043.6	0.614	1,355.38	-57.45	2.570	0.100	88.832	7.371	0.997	0.042	0.066	0.008	0.006	0.005
07/03/2019	1,058.7	1,040.2	0.613	1,352.38	-59.18	2.695	0.076	88.954	7.234	0.918	0.040	0.062	0.008	0.007	0.005
07/04/2019	1,059.1	1,040.7	0.612	1,354.26	-60.02	2.542	0.087	89.162	7.224	0.871	0.038	0.056	0.008	0.006	0.006
07/05/2019	1,062.8	1,044.4	0.613	1,357.16	-56.69	2.334	0.180	89.082	7.301	0.972	0.045	0.065	0.009	0.006	0.006
07/06/2019	1,072.1	1,053.4	0.615	1,367.63	-50.83	1.921	0.161	89.036	7.642	1.095	0.051	0.069	0.010	0.007	0.008
07/07/2019	1,064.9	1,046.4	0.614	1,358.83	-56.93	2.263	0.200	88.966	7.427	1.015	0.046	0.064	0.008	0.006	0.005
07/08/2019	1,065.8	1,047.2	0.614	1,359.79	-54.78	2.237	0.191	88.950	7.484	0.997	0.048	0.070	0.010	0.007	0.007
07/09/2019	1,062.8	1,044.3	0.614	1,356.69	-57.51	2.348	0.196	88.979	7.411	0.942	0.042	0.062	0.009	0.006	0.006
07/10/2019	1,073.0	1,054.3	0.617	1,366.47	-48.95	1.907	0.262	88.822	7.689	1.152	0.058	0.084	0.011	0.008	0.008
07/11/2019	1,067.0	1,048.5	0.614	1,361.33	-52.14	2.185	0.179	88.999	7.441	1.048	0.050	0.074	0.010	0.007	0.008
07/12/2019	1,064.6	1,046.1	0.613	1,359.47	-54.35	2.323	0.115	89.073	7.342	1.015	0.044	0.065	0.009	0.007	0.008
07/13/2019	1,062.4	1,044.0	0.612	1,357.72	-59.08	2.344	0.130	89.153	7.329	0.927	0.039	0.060	0.008	0.006	0.005
07/14/2019	1,065.3	1,046.8	0.615	1,358.92	-52.50	2.151	0.281	89.054	7.330	1.033	0.049	0.075	0.010	0.008	0.008
07/15/2019	1,080.0	1,061.2	0.623	1,368.41	-34.86	2.082	0.260	88.167	7.666	1.513	0.086	0.181	0.019	0.016	0.011
07/16/2019	1,070.2	1,051.6	0.617	1,362.49	-50.55	2.141	0.243	88.630	7.721	1.088	0.053	0.097	0.011	0.009	0.006
07/17/2019	1,071.1	1,052.4	0.615	1,366.18	-49.41	2.045	0.127	89.034	7.525	1.081	0.055	0.104	0.012	0.009	0.007
07/18/2019	1,065.6	1,047.0	0.615	1,359.18	-53.61	2.270	0.197	88.905	7.462	1.031	0.045	0.068	0.009	0.007	0.007
07/19/2019	1,059.0	1,040.5	0.615	1,350.82	-60.40	2.443	0.340	88.860	7.327	0.924	0.035	0.054	0.007	0.005	0.005
07/20/2019	1,062.1	1,043.6	0.614	1,355.35	-54.47	2.514	0.140	88.735	7.656	0.810	0.038	0.074	0.012	0.012	0.008
07/21/2019	1,059.5	1,041.1	0.614	1,352.67	-61.37	2.469	0.237	88.940	7.357	0.882	0.037	0.060	0.007	0.006	0.004
07/22/2019	1,059.2	1,040.8	0.614	1,351.85	-59.37	2.533	0.229	88.938	7.244	0.917	0.045	0.073	0.009	0.007	0.004
07/23/2019	1,060.5	1,042.0	0.613	1,354.51	-60.29	2.484	0.154	88.995	7.353	0.892	0.039	0.064	0.008	0.006	0.004
07/24/2019	1,063.5	1,045.0	0.614	1,356.84	-55.65	2.398	0.177	88.887	7.399	1.006	0.043	0.068	0.009	0.007	0.006
07/25/2019	1,068.2	1,049.6	0.616	1,361.54	-51.60	2.175	0.209	88.847	7.525	1.094	0.048	0.076	0.010	0.008	0.007
07/26/2019	1,063.7	1,045.2	0.615	1,356.83	-57.03	2.455	0.145	88.779	7.505	0.986	0.041	0.066	0.008	0.007	0.005
07/27/2019	1,064.1	1,045.6	0.615	1,357.35	-56.78	2.442	0.139	88.768	7.540	0.980	0.042	0.068	0.009	0.008	0.005
07/28/2019	1,063.1	1,044.6	0.614	1,356.91	-58.00	2.447	0.128	88.873	7.482	0.940	0.042	0.067	0.009	0.008	0.005
07/29/2019	1,077.0	1,058.3	0.622	1,365.57	-39.36	2.357	0.144	88.001	7.737	1.557	0.064	0.106	0.014	0.010	0.011
07/30/2019	1,064.5	1,046.0	0.615	1,357.80	-53.08	2.410	0.148	88.892	7.332	1.069	0.046	0.078	0.010	0.008	0.007
07/31/2019	1,069.3	1,050.7	0.620	1,358.16	-47.51	2.193	0.423	88.359	7.637	1.195	0.060	0.102	0.013	0.011	0.006
08/01/2019	1,059.0	1,040.6	0.615	1,350.67	-57.66	2.711	0.174	88.689	7.350	0.943	0.041	0.069	0.009	0.008	0.005
08/02/2019	1,049.8	1,031.6	0.612	1,341.70	-66.17	3.177	0.075	88.814	7.041	0.789	0.033	0.055	0.007	0.006	0.004
08/03/2019	1,050.7	1,032.4	0.612	1,343.15	-65.85	3.093	0.077	88.876	7.084	0.768	0.031	0.053	0.007	0.006	0.004
08/04/2019	1,052.3	1,033.9	0.605	1,352.48	-71.55	2.010	0.316	90.547	6.329	0.710	0.028	0.046	0.006	0.005	0.004
08/05/2019	1,057.1	1,038.8	0.612	1,351.58	-62.03	2.659	0.097	89.079	7.213	0.852	0.030	0.051	0.007	0.007	0.005
08/06/2019	1,057.6	1,039.2	0.609	1,355.44	-60.16	2.169	0.216	89.941	6.678	0.887	0.034	0.054	0.008	0.006	0.007
08/07/2019	1,045.1	1,026.9	0.597	1,352.89	-138.28	1.525	0.387	92.032	5.618	0.401	0.013	0.018	0.002	0.002	0.002
08/08/2019	1,045.3	1,027.1	0.595	1,355.52	-139.64	1.211	0.455	92.511	5.452	0.334	0.011	0.018	0.002	0.002	0.003
08/09/2019	1,044.7	1,026.5	0.592	1,357.54	-140.18	1.159	0.363	93.040	4.977	0.405	0.017	0.026	0.004	0.004	0.005
08/10/2019	1,065.5	1,046.9	0.608	1,366.44	-51.90	1.473	0.311	90.625	6.314	1.143	0.042	0.066	0.009	0.006	0.011

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08/11/2019	1,044.4	1,026.3	0.592	1,357.63	-141.58	1.006	0.451	93.067	5.132	0.316	0.009	0.014	0.002	0.001	0.002
08/12/2019	1,062.4	1,044.0	0.606	1,365.10	-52.84	1.302	0.404	91.136	5.958	1.057	0.042	0.073	0.010	0.007	0.011
08/13/2019	1,044.4	1,026.3	0.593	1,356.87	-141.01	1.086	0.440	92.925	5.198	0.317	0.011	0.016	0.002	0.002	0.004
08/14/2019	1,056.3	1,038.0	0.608	1,354.25	-62.67	2.276	0.173	89.916	6.687	0.830	0.037	0.063	0.008	0.007	0.005
08/15/2019	1,053.7	1,035.3	0.603	1,356.62	-71.17	1.821	0.257	90.939	6.201	0.683	0.031	0.052	0.007	0.006	0.005

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 = 52781