

Gas Quality Reports

North Wichita

11/25/2019 - 2/25/2020

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%)
11/25/2019	1,038.7	1,020.6	0.593	1,348.52	-142.70	1.401	0.507	92.770	5.020	0.250	0.013	0.021	0.006	0.005	0.008
11/26/2019	1,043.0	1,024.9	0.600	1,347.04	-137.53	1.950	0.366	91.317	5.987	0.336	0.013	0.021	0.004	0.003	0.004
11/27/2019	1,044.1	1,026.0	0.604	1,344.05	-134.73	2.458	0.233	90.382	6.467	0.411	0.015	0.024	0.004	0.004	0.003
11/28/2019	1,044.5	1,026.4	0.604	1,344.26	-134.24	2.557	0.168	90.309	6.444	0.468	0.017	0.028	0.004	0.003	0.002
11/29/2019	1,037.2	1,019.2	0.593	1,347.15	-143.46	1.629	0.385	92.704	4.968	0.273	0.011	0.017	0.004	0.003	0.005
11/30/2019	1,039.1	1,021.0	0.596	1,345.64	-140.59	1.957	0.312	91.911	5.461	0.317	0.011	0.019	0.004	0.003	0.004
12/01/2019	1,049.1	1,030.8	0.611	1,341.78	-128.68	3.172	0.050	88.689	7.443	0.589	0.017	0.030	0.004	0.004	0.002
12/02/2019	1,051.2	1,032.9	0.609	1,347.54	-129.16	2.572	0.189	89.552	6.995	0.623	0.021	0.037	0.005	0.004	0.002
12/03/2019	1,044.1	1,026.0	0.599	1,349.51	-137.40	1.717	0.417	91.655	5.779	0.380	0.015	0.025	0.004	0.004	0.005
12/04/2019	1,043.0	1,024.8	0.598	1,348.76	-138.41	1.739	0.407	91.750	5.690	0.366	0.014	0.024	0.004	0.003	0.002
12/05/2019	1,039.6	1,021.5	0.594	1,349.09	-141.71	1.538	0.413	92.641	5.013	0.340	0.015	0.026	0.005	0.005	0.004
12/06/2019	1,067.8	1,049.2	0.615	1,361.84	-48.83	1.955	0.324	89.328	7.018	1.175	0.060	0.111	0.012	0.010	0.007
12/07/2019	1,041.8	1,023.7	0.596	1,349.22	-139.31	1.640	0.410	92.177	5.320	0.390	0.018	0.030	0.005	0.004	0.004
12/08/2019	1,038.2	1,020.1	0.592	1,348.86	-143.55	1.401	0.474	92.862	4.990	0.234	0.010	0.015	0.004	0.003	0.007
12/09/2019	1,070.6	1,052.0	0.621	1,359.08	-53.39	2.332	0.323	87.842	8.318	1.036	0.047	0.081	0.010	0.008	0.003
12/10/2019	1,072.9	1,054.2	0.621	1,361.96	-50.76	2.159	0.348	87.929	8.357	1.047	0.049	0.085	0.012	0.010	0.005
12/11/2019	1,054.0	1,035.6	0.604	1,355.87	-62.54	1.639	0.426	90.995	6.135	0.675	0.037	0.062	0.012	0.010	0.008
12/12/2019	1,036.3	1,018.3	0.592	1,347.08	-144.26	1.633	0.359	92.937	4.688	0.338	0.013	0.022	0.003	0.003	0.003
12/13/2019	1,045.1	1,026.9	0.599	1,350.12	-136.24	1.883	0.303	91.539	5.719	0.490	0.020	0.034	0.005	0.004	0.002
12/14/2019	1,070.7	1,052.1	0.618	1,362.15	-55.94	2.151	0.273	88.215	8.293	0.952	0.037	0.059	0.008	0.007	0.005
12/15/2019	1,074.7	1,056.0	0.620	1,365.18	-52.61	2.016	0.320	87.899	8.707	0.931	0.038	0.063	0.010	0.008	0.006
12/16/2019	1,069.7	1,051.1	0.619	1,360.00	-56.88	2.148	0.364	88.077	8.413	0.874	0.039	0.064	0.009	0.007	0.004
12/17/2019	1,070.2	1,051.5	0.619	1,360.33	-56.01	2.125	0.375	88.124	8.313	0.926	0.043	0.072	0.010	0.008	0.004
12/18/2019	1,055.0	1,036.6	0.608	1,353.39	-70.20	1.971	0.379	90.093	6.813	0.647	0.029	0.050	0.007	0.006	0.004
12/19/2019	1,048.7	1,030.5	0.603	1,350.99	-132.78	1.894	0.363	91.014	6.093	0.552	0.025	0.042	0.007	0.006	0.005
12/20/2019	1,043.8	1,025.7	0.597	1,350.88	-137.42	1.644	0.379	92.078	5.385	0.431	0.022	0.037	0.008	0.007	0.009
12/21/2019	1,045.2	1,027.1	0.600	1,349.91	-135.66	1.834	0.352	91.527	5.755	0.451	0.022	0.035	0.007	0.006	0.009
12/22/2019	1,043.7	1,025.5	0.599	1,348.02	-136.63	1.864	0.388	91.531	5.714	0.437	0.019	0.030	0.006	0.005	0.007
12/23/2019	1,034.0	1,016.0	0.591	1,344.42	-145.40	1.589	0.459	93.102	4.515	0.281	0.014	0.022	0.006	0.005	0.008
12/24/2019	1,026.7	1,008.8	0.586	1,341.66	-152.42	1.468	0.459	94.217	3.625	0.188	0.010	0.016	0.005	0.004	0.009
12/25/2019	1,029.3	1,011.4	0.586	1,344.33	-149.95	1.329	0.489	94.234	3.661	0.213	0.016	0.027	0.009	0.008	0.015
12/26/2019	1,050.5	1,032.2	0.604	1,351.92	-70.69	1.902	0.363	90.793	6.276	0.576	0.025	0.043	0.007	0.006	0.007
12/27/2019	1,035.7	1,017.6	0.590	1,348.08	-144.60	1.441	0.410	93.425	4.334	0.317	0.017	0.029	0.008	0.007	0.013
12/28/2019	1,027.7	1,009.8	0.584	1,345.02	-151.96	1.264	0.442	94.727	3.263	0.228	0.016	0.028	0.009	0.008	0.015
12/29/2019	1,054.9	1,036.6	0.608	1,352.68	-62.94	2.020	0.384	90.035	6.783	0.669	0.031	0.054	0.009	0.008	0.008
12/30/2019	1,061.4	1,042.9	0.614	1,354.94	-58.71	2.140	0.385	89.055	7.514	0.778	0.037	0.065	0.010	0.009	0.006
12/31/2019	1,050.7	1,032.4	0.605	1,351.31	-61.45	1.872	0.421	90.839	6.122	0.625	0.033	0.058	0.011	0.010	0.010
01/01/2020	1,033.7	1,015.7	0.589	1,346.48	-67.03	1.377	0.475	93.730	4.014	0.312	0.021	0.036	0.010	0.009	0.017
01/02/2020	1,035.6	1,017.6	0.591	1,347.07	-62.59	1.444	0.460	93.385	4.282	0.328	0.023	0.039	0.011	0.010	0.017
01/03/2020	1,037.5	1,019.5	0.593	1,347.74	-71.60	1.600	0.382	92.923	4.669	0.347	0.019	0.032	0.009	0.007	0.014
01/04/2020	1,036.8	1,018.8	0.592	1,347.93	-142.91	1.641	0.323	93.034	4.576	0.353	0.018	0.030	0.007	0.006	0.011
01/05/2020	1,035.3	1,017.3	0.590	1,347.39	-144.81	1.554	0.361	93.300	4.398	0.320	0.017	0.028	0.007	0.006	0.010
01/06/2020	1,039.9	1,021.8	0.594	1,349.62	-140.78	1.665	0.310	92.634	4.928	0.396	0.018	0.028	0.006	0.005	0.009

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01/07/2020	1,031.4	1,013.5	0.587	1,345.74	-148.84	1.510	0.359	93.803	4.006	0.280	0.012	0.019	0.003	0.003	0.005
01/08/2020	1,027.5	1,009.6	0.584	1,344.73	-152.96	1.354	0.394	94.548	3.436	0.227	0.010	0.016	0.004	0.003	0.006
01/09/2020	1,022.2	1,004.4	0.580	1,342.49	-158.80	1.231	0.430	95.382	2.763	0.152	0.010	0.015	0.005	0.004	0.009
01/10/2020	1,047.2	1,029.0	0.601	1,350.68	-133.85	2.060	0.224	91.153	5.913	0.570	0.026	0.038	0.006	0.004	0.006
01/11/2020	1,055.7	1,037.4	0.610	1,351.84	-69.73	2.541	0.115	89.345	7.173	0.741	0.030	0.044	0.005	0.004	0.003
01/12/2020	1,051.4	1,033.1	0.609	1,347.22	-128.59	2.809	0.056	89.352	7.016	0.690	0.028	0.042	0.004	0.003	0
01/13/2020	1,032.8	1,014.8	0.591	1,343.38	-145.02	1.847	0.309	93.121	4.291	0.355	0.021	0.034	0.007	0.006	0.009
01/14/2020	1,023.1	1,005.3	0.580	1,343.62	-157.15	1.202	0.418	95.454	2.689	0.164	0.015	0.026	0.009	0.008	0.015
01/15/2020	1,045.6	1,027.5	0.600	1,349.60	-134.79	1.979	0.286	91.400	5.690	0.563	0.025	0.038	0.006	0.005	0.007
01/16/2020	1,049.0	1,030.8	0.607	1,346.53	-130.55	2.693	0.096	89.759	6.750	0.638	0.024	0.034	0.003	0.002	0
01/17/2020	1,041.7	1,023.6	0.600	1,344.81	-136.64	2.409	0.144	91.137	5.733	0.519	0.019	0.029	0.003	0.003	0.003
01/18/2020	1,048.0	1,029.8	0.605	1,347.38	-131.79	2.483	0.155	90.215	6.476	0.602	0.024	0.036	0.004	0.003	0.002
01/19/2020	1,055.2	1,036.8	0.612	1,349.30	-71.37	2.678	0.149	89.048	7.260	0.783	0.030	0.045	0.004	0.003	0.001
01/20/2020	1,059.5	1,041.1	0.613	1,353.14	-62.74	2.460	0.217	88.960	7.398	0.865	0.035	0.051	0.006	0.004	0.004
01/21/2020	1,056.3	1,037.9	0.612	1,350.69	-69.74	2.524	0.207	89.169	7.205	0.809	0.031	0.046	0.004	0.003	0.001
01/22/2020	1,054.9	1,036.5	0.609	1,352.22	-69.67	2.275	0.241	89.786	6.871	0.742	0.029	0.043	0.005	0.004	0.004
01/23/2020	1,043.7	1,025.5	0.600	1,347.45	-135.99	2.088	0.270	91.375	5.665	0.531	0.022	0.034	0.005	0.004	0.005
01/24/2020	1,050.7	1,032.4	0.606	1,349.44	-130.09	2.426	0.162	90.063	6.612	0.661	0.025	0.039	0.005	0.004	0.003
01/25/2020	1,034.0	1,016.0	0.592	1,343.69	-144.83	1.798	0.363	92.831	4.654	0.306	0.013	0.021	0.005	0.004	0.006
01/26/2020	1,031.6	1,013.7	0.589	1,344.24	-148.42	1.646	0.358	93.374	4.374	0.218	0.008	0.013	0.003	0.002	0.003
01/27/2020	1,032.7	1,014.7	0.591	1,342.94	-146.08	1.833	0.339	92.923	4.606	0.254	0.011	0.020	0.004	0.004	0.006
01/28/2020	1,044.8	1,026.7	0.606	1,342.67	-133.16	2.789	0.115	89.853	6.709	0.495	0.014	0.021	0.003	0.002	0.001
01/29/2020	1,044.2	1,026.0	0.603	1,344.63	-134.65	2.502	0.171	90.503	6.272	0.502	0.016	0.026	0.003	0.003	0.002
01/30/2020	1,046.5	1,028.3	0.603	1,347.82	-133.43	2.262	0.226	90.743	6.124	0.574	0.023	0.037	0.005	0.004	0.002
01/31/2020	1,038.5	1,020.5	0.594	1,347.46	-142.05	1.776	0.313	92.432	5.082	0.355	0.014	0.022	0.003	0.002	0.001
02/01/2020	1,031.4	1,013.5	0.587	1,346.26	-149.32	1.499	0.338	93.854	4.014	0.255	0.012	0.019	0.004	0.003	0.003
02/02/2020	1,025.6	1,007.8	0.582	1,344.75	-155.80	1.245	0.407	94.937	3.228	0.140	0.010	0.016	0.005	0.004	0.008
02/03/2020	1,035.9	1,017.8	0.591	1,347.62	-144.79	1.533	0.381	93.164	4.586	0.277	0.015	0.025	0.006	0.005	0.008
02/04/2020	1,062.4	1,043.9	0.615	1,354.57	-62.80	2.410	0.264	88.527	7.899	0.799	0.032	0.054	0.007	0.006	0.003
02/05/2020	1,058.5	1,040.0	0.613	1,352.41	-66.05	2.573	0.149	88.874	7.558	0.748	0.030	0.052	0.007	0.006	0.003
02/06/2020	1,043.7	1,025.5	0.599	1,348.17	-136.74	2.122	0.209	91.338	5.816	0.455	0.018	0.032	0.004	0.004	0.001
02/07/2020	1,034.6	1,016.6	0.592	1,344.23	-144.81	1.940	0.258	92.621	4.865	0.275	0.012	0.022	0.003	0.003	0.001
02/08/2020	1,028.5	1,010.6	0.585	1,344.25	-152.26	1.482	0.366	94.105	3.837	0.185	0.007	0.013	0.002	0.002	0.001
02/09/2020	1,033.4	1,015.4	0.589	1,346.32	-147.37	1.611	0.324	93.341	4.442	0.247	0.010	0.018	0.003	0.002	0.002
02/10/2020	1,038.1	1,020.0	0.594	1,346.83	-141.83	1.876	0.267	92.374	5.100	0.329	0.015	0.025	0.005	0.004	0.005
02/11/2020	1,039.0	1,020.9	0.595	1,346.81	-140.84	1.915	0.272	92.194	5.197	0.367	0.015	0.027	0.004	0.004	0.004
02/12/2020	1,048.1	1,029.8	0.605	1,347.19	-132.01	2.517	0.145	90.053	6.714	0.506	0.020	0.036	0.005	0.004	0.001
02/13/2020	1,060.0	1,041.5	0.615	1,351.56	-66.94	2.496	0.297	88.577	7.703	0.837	0.034	0.048	0.004	0.003	0.001
02/14/2020	1,062.8	1,044.3	0.616	1,354.13	-56.83	2.257	0.400	88.842	7.305	1.064	0.048	0.068	0.008	0.005	0.004
02/15/2020	1,063.9	1,045.4	0.615	1,356.79	-59.96	2.061	0.413	89.095	7.251	1.059	0.044	0.065	0.007	0.004	0.002
02/16/2020	1,034.3	1,016.3	0.590	1,346.74	-146.69	1.505	0.397	93.380	4.353	0.334	0.012	0.017	0.001	0.001	0
02/17/2020	1,030.3	1,012.4	0.587	1,344.42	-149.91	1.552	0.369	93.769	4.029	0.249	0.010	0.016	0.002	0.002	0.001
02/18/2020	1,044.2	1,026.0	0.601	1,347.24	-135.63	2.127	0.274	91.203	5.784	0.545	0.023	0.035	0.004	0.003	0.001

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02/19/2020	1,054.3	1,036.0	0.609	1,351.07	-67.78	2.382	0.216	89.767	6.723	0.811	0.036	0.052	0.006	0.004	0.004
02/20/2020	1,052.9	1,034.6	0.608	1,349.84	-70.50	2.579	0.110	89.671	6.790	0.758	0.032	0.048	0.005	0.004	0.003
02/21/2020	1,052.0	1,033.7	0.603	1,355.13	-69.75	1.933	0.212	90.997	6.077	0.687	0.030	0.046	0.007	0.005	0.006
02/22/2020	1,036.3	1,018.3	0.591	1,347.96	-144.93	1.553	0.364	93.066	4.694	0.273	0.013	0.026	0.005	0.004	0.002
02/23/2020	1,035.2	1,017.2	0.589	1,349.16	-146.89	1.289	0.437	93.593	4.429	0.202	0.011	0.021	0.006	0.005	0.007

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 = 65211