

Gas Quality Reports

LS265 - Superior Nebraska

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	1,046.6	1,028.4	0.588	1,364.44	-71.19	0.896	0.222	93.803	4.610	0.371	0.029	0.038	0.010	0.007	0.013
05/14/2020	1,044.4	1,026.2	0.586	1,364.45	-142.64	0.883	0.163	94.217	4.298	0.352	0.027	0.033	0.009	0.006	0.012
05/15/2020	1,042.9	1,024.7	0.584	1,365.21	-144.89	0.850	0.098	94.581	4.077	0.316	0.024	0.029	0.008	0.005	0.011
05/16/2020	1,043.5	1,025.3	0.584	1,365.20	-144.01	0.832	0.128	94.562	4.004	0.390	0.026	0.033	0.008	0.005	0.011
05/17/2020	1,042.0	1,023.9	0.584	1,363.93	-145.09	0.843	0.145	94.650	3.924	0.358	0.025	0.031	0.008	0.005	0.011
05/18/2020	1,043.0	1,024.8	0.584	1,364.42	-144.30	0.837	0.153	94.517	4.057	0.355	0.025	0.031	0.008	0.005	0.011
05/19/2020	1,045.2	1,027.0	0.586	1,365.96	-142.55	0.814	0.153	94.295	4.281	0.376	0.025	0.031	0.008	0.005	0.011
05/20/2020	1,042.1	1,024.0	0.584	1,364.09	-144.78	0.808	0.162	94.735	3.814	0.392	0.027	0.036	0.009	0.006	0.012
05/21/2020	1,038.5	1,020.4	0.581	1,362.37	-148.09	0.798	0.152	95.142	3.522	0.311	0.023	0.027	0.008	0.005	0.013
05/22/2020	1,037.0	1,018.9	0.581	1,360.42	-148.66	0.870	0.163	95.166	3.408	0.312	0.025	0.030	0.009	0.006	0.012
05/23/2020	1,037.4	1,019.3	0.581	1,360.55	-148.25	0.877	0.163	95.101	3.464	0.311	0.026	0.030	0.009	0.006	0.013
05/24/2020	1,035.0	1,017.0	0.580	1,358.85	-149.91	0.921	0.153	95.338	3.182	0.323	0.027	0.031	0.009	0.005	0.012
05/25/2020	1,034.8	1,016.8	0.580	1,358.43	-149.97	0.910	0.175	95.353	3.146	0.327	0.029	0.033	0.009	0.006	0.012
05/26/2020	1,033.9	1,015.9	0.579	1,358.71	-151.03	0.892	0.144	95.579	2.972	0.329	0.026	0.032	0.009	0.005	0.012
05/27/2020	1,033.4	1,015.5	0.580	1,356.73	-150.58	0.959	0.193	95.361	3.089	0.311	0.027	0.033	0.009	0.006	0.013
05/28/2020	1,033.5	1,015.6	0.580	1,356.76	-150.47	0.960	0.194	95.345	3.101	0.310	0.028	0.033	0.010	0.006	0.013
05/29/2020	1,033.5	1,015.6	0.580	1,356.91	-150.53	0.951	0.192	95.376	3.076	0.317	0.028	0.033	0.009	0.006	0.013
05/30/2020	1,033.7	1,015.7	0.580	1,357.02	-150.51	0.940	0.197	95.371	3.084	0.323	0.027	0.032	0.009	0.006	0.012
05/31/2020	1,034.6	1,016.6	0.581	1,357.86	-149.99	0.926	0.188	95.298	3.181	0.323	0.026	0.031	0.009	0.005	0.012
06/01/2020	1,035.1	1,017.1	0.581	1,358.13	-149.49	0.937	0.183	95.231	3.233	0.333	0.026	0.031	0.009	0.005	0.012
06/02/2020	1,038.7	1,020.6	0.582	1,360.98	-146.76	0.932	0.143	94.925	3.535	0.376	0.028	0.034	0.009	0.006	0.013
06/03/2020	1,047.2	1,029.0	0.588	1,365.86	-71.33	0.904	0.159	93.935	4.441	0.464	0.031	0.039	0.009	0.006	0.013
06/04/2020	1,048.1	1,029.8	0.588	1,366.44	-71.10	0.895	0.159	93.849	4.533	0.467	0.030	0.039	0.009	0.006	0.012
06/05/2020	1,046.4	1,028.2	0.587	1,365.69	-73.05	0.883	0.156	94.078	4.347	0.442	0.029	0.037	0.009	0.006	0.012
06/06/2020	1,049.3	1,031.1	0.589	1,367.12	-70.23	0.897	0.159	93.696	4.670	0.480	0.031	0.039	0.009	0.006	0.013
06/07/2020	1,029.9	1,012.0	0.577	1,355.51	-154.13	0.983	0.135	95.875	2.645	0.270	0.028	0.032	0.010	0.006	0.015
06/08/2020	1,024.3	1,006.4	0.573	1,352.89	-160.21	0.933	0.137	96.600	2.073	0.178	0.024	0.026	0.009	0.006	0.014
06/09/2020	1,031.5	1,013.5	0.576	1,358.89	-154.85	0.787	0.133	96.026	2.765	0.215	0.023	0.025	0.008	0.005	0.012
06/10/2020	1,029.8	1,011.9	0.575	1,358.20	-156.31	0.801	0.111	96.252	2.562	0.197	0.024	0.026	0.009	0.006	0.012
06/11/2020	1,030.4	1,012.5	0.576	1,358.12	-155.45	0.815	0.122	96.153	2.609	0.219	0.026	0.028	0.009	0.006	0.013
06/12/2020	1,043.8	1,025.6	0.589	1,360.28	-63.21	0.962	0.314	94.099	3.887	0.615	0.039	0.052	0.011	0.007	0.014
06/13/2020	1,041.8	1,023.7	0.587	1,359.49	-66.22	0.952	0.303	94.342	3.719	0.571	0.036	0.046	0.011	0.007	0.014
06/14/2020	1,036.7	1,018.6	0.583	1,357.51	-71.61	0.950	0.254	94.977	3.267	0.454	0.031	0.036	0.010	0.006	0.014
06/15/2020	1,036.3	1,018.3	0.583	1,357.32	-71.68	0.950	0.253	95.029	3.221	0.451	0.031	0.035	0.010	0.006	0.014
06/16/2020	1,036.6	1,018.6	0.583	1,357.49	-71.39	0.951	0.254	94.984	3.259	0.455	0.031	0.036	0.010	0.006	0.014
06/17/2020	1,037.8	1,019.7	0.584	1,358.05	-68.56	0.962	0.251	94.910	3.236	0.532	0.034	0.043	0.010	0.007	0.014
06/18/2020	1,036.4	1,018.3	0.583	1,357.76	-72.22	0.963	0.223	95.079	3.165	0.471	0.031	0.037	0.010	0.006	0.014
06/19/2020	1,036.2	1,018.1	0.582	1,357.68	-71.72	0.963	0.222	95.101	3.155	0.461	0.031	0.037	0.010	0.006	0.014
06/20/2020	1,035.9	1,017.9	0.582	1,358.19	-71.38	0.945	0.198	95.246	3.041	0.470	0.031	0.038	0.010	0.006	0.014
06/21/2020	1,036.0	1,018.0	0.581	1,359.37	-71.76	0.894	0.173	95.441	2.883	0.504	0.032	0.041	0.010	0.007	0.014
06/22/2020	1,037.2	1,019.2	0.583	1,358.95	-70.48	0.902	0.225	95.176	3.062	0.533	0.032	0.040	0.010	0.006	0.014
06/23/2020	1,037.9	1,019.8	0.583	1,358.86	-68.83	0.932	0.230	95.067	3.086	0.577	0.035	0.044	0.010	0.006	0.014
06/24/2020	1,037.9	1,019.8	0.583	1,358.86	-68.83	0.932	0.230	95.067	3.086	0.577	0.035	0.044	0.010	0.006	0.014

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06/25/2020	1,037.9	1,019.8	0.583	1,358.86	-68.83	0.932	0.230	95.067	3.086	0.577	0.035	0.044	0.010	0.006	0.014
06/26/2020	1,044.1	1,025.9	0.587	1,362.30	-141.41	0.960	0.215	94.243	3.866	0.598	0.038	0.052	0.015	0.011	0.001
06/27/2020	1,043.5	1,025.3	0.587	1,361.68	-74.56	0.950	0.237	94.254	3.882	0.571	0.034	0.044	0.010	0.007	0.010
06/28/2020	1,042.4	1,024.3	0.587	1,361.03	-142.27	0.991	0.213	94.344	3.777	0.577	0.032	0.041	0.010	0.006	0.009
06/29/2020	1,042.3	1,024.2	0.585	1,362.80	-69.43	0.971	0.129	94.638	3.558	0.597	0.033	0.043	0.010	0.006	0.013
06/30/2020	1,042.5	1,024.3	0.585	1,363.34	-65.69	0.935	0.129	94.703	3.540	0.585	0.034	0.044	0.010	0.006	0.015
07/01/2020	1,040.6	1,022.4	0.583	1,362.50	-68.33	0.911	0.131	94.974	3.314	0.563	0.033	0.044	0.009	0.006	0.014
07/02/2020	1,041.5	1,023.4	0.583	1,363.66	-72.86	0.874	0.122	94.947	3.394	0.562	0.033	0.043	0.009	0.006	0.012
07/03/2020	1,043.9	1,025.7	0.585	1,364.80	-66.31	0.874	0.134	94.633	3.686	0.562	0.034	0.048	0.010	0.007	0.015
07/04/2020	1,045.3	1,027.1	0.586	1,365.58	-69.49	0.886	0.126	94.413	3.913	0.559	0.032	0.042	0.009	0.006	0.013
07/05/2020	1,047.2	1,028.9	0.588	1,365.33	-66.07	0.963	0.146	94.013	4.154	0.615	0.034	0.045	0.010	0.006	0.014
07/06/2020	1,047.5	1,029.3	0.590	1,364.33	-66.47	0.981	0.199	93.796	4.304	0.612	0.034	0.045	0.010	0.006	0.013
07/07/2020	1,045.5	1,027.3	0.588	1,363.39	-67.60	0.952	0.207	94.088	4.051	0.595	0.034	0.044	0.010	0.007	0.013
07/08/2020	1,048.8	1,030.5	0.590	1,365.63	-68.03	0.852	0.251	93.862	4.244	0.693	0.031	0.042	0.008	0.005	0.012
07/09/2020	1,047.7	1,029.4	0.589	1,365.07	-67.07	0.844	0.253	93.999	4.142	0.663	0.031	0.042	0.008	0.005	0.013
07/10/2020	1,047.6	1,029.4	0.589	1,364.72	-67.31	0.931	0.213	93.878	4.244	0.627	0.034	0.045	0.010	0.006	0.013
07/11/2020	1,047.4	1,029.2	0.589	1,364.64	-62.35	0.966	0.189	93.874	4.250	0.610	0.034	0.045	0.010	0.007	0.015
07/12/2020	1,042.4	1,024.3	0.585	1,363.25	-69.76	0.917	0.142	94.751	3.445	0.651	0.030	0.037	0.008	0.005	0.013
08/09/2020	1,039.5	1,021.4	0.586	1,357.95	-59.79	1.200	0.152	94.478	3.441	0.604	0.040	0.048	0.012	0.007	0.017
08/10/2020	1,046.5	1,028.3	0.590	1,362.36	-56.85	1.163	0.153	93.746	4.112	0.696	0.041	0.052	0.012	0.007	0.017
08/11/2020	1,052.4	1,034.1	0.594	1,365.33	-55.98	1.175	0.164	93.049	4.667	0.805	0.043	0.061	0.012	0.008	0.015

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 = 52911