

Gas Quality Reports

LS120 Black Hills - Colwich

4/10/2025 - 7/10/2025

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%)
04/09/2025 12:00AM	1,056.6	1,038.2	0.612	1,350.40	-61.13	2.266	0.404	89.205	7.301	0.740	0.026	0.042	0.004	0.003	0.009
04/10/2025 12:00AM	1,054.1	1,035.8	0.610	1,349.70	-68.39	2.205	0.402	89.627	6.991	0.692	0.025	0.041	0.004	0.003	0.009
04/11/2025 12:00AM	1,056.0	1,037.6	0.608	1,354.05	-61.92	1.718	0.540	90.058	7.059	0.544	0.024	0.034	0.006	0.004	0.012
04/12/2025 12:00AM	1,056.6	1,038.3	0.608	1,354.92	-60.33	1.650	0.557	90.103	7.058	0.547	0.025	0.036	0.007	0.005	0.013
04/13/2025 12:00AM	1,056.2	1,037.8	0.608	1,354.59	-60.45	1.666	0.551	90.140	7.010	0.547	0.025	0.037	0.007	0.005	0.013
04/14/2025 12:00AM	1,057.6	1,039.2	0.609	1,355.57	-60.51	1.640	0.558	90.001	7.167	0.553	0.024	0.035	0.006	0.004	0.013
04/15/2025 12:00AM	1,060.6	1,042.1	0.614	1,353.25	-55.90	1.772	0.697	89.124	7.655	0.646	0.030	0.049	0.008	0.007	0.012
04/16/2025 12:00AM	1,059.7	1,041.2	0.614	1,351.91	-56.51	1.849	0.691	89.092	7.596	0.667	0.030	0.049	0.008	0.007	0.012
04/17/2025 12:00AM	1,066.9	1,048.4	0.619	1,355.96	-55.91	1.987	0.607	88.113	8.405	0.793	0.029	0.047	0.005	0.004	0.009
04/18/2025 12:00AM	1,062.7	1,044.3	0.618	1,351.52	-51.22	2.190	0.588	88.299	8.017	0.783	0.034	0.059	0.010	0.009	0.012
04/19/2025 12:00AM	1,058.4	1,040.0	0.617	1,347.51	-49.38	2.314	0.592	88.566	7.647	0.745	0.035	0.063	0.012	0.012	0.014
04/20/2025 12:00AM	1,048.3	1,030.0	0.606	1,346.49	-62.35	2.098	0.464	90.441	6.330	0.556	0.028	0.051	0.010	0.009	0.013
04/21/2025 12:00AM	1,043.7	1,025.5	0.601	1,346.17	-62.88	1.957	0.425	91.368	5.665	0.478	0.026	0.049	0.009	0.009	0.013
04/22/2025 12:00AM	1,043.6	1,025.5	0.601	1,346.15	-62.93	1.957	0.425	91.373	5.662	0.477	0.026	0.049	0.009	0.009	0.013
04/23/2025 12:00AM	1,043.6	1,025.5	0.601	1,346.15	-62.98	1.956	0.426	91.376	5.660	0.477	0.026	0.049	0.009	0.009	0.013
04/24/2025 12:00AM	1,056.5	1,038.2	0.609	1,353.53	-59.40	1.750	0.564	89.984	6.973	0.623	0.029	0.051	0.008	0.007	0.011
04/25/2025 12:00AM	1,075.9	1,057.2	0.622	1,364.04	-52.08	1.510	0.755	87.829	8.912	0.890	0.034	0.054	0.005	0.003	0.009
04/26/2025 12:00AM	1,076.7	1,057.9	0.622	1,365.19	-52.32	1.509	0.714	87.812	8.978	0.886	0.033	0.052	0.004	0.003	0.009
04/27/2025 12:00AM	1,076.3	1,057.6	0.622	1,364.98	-52.52	1.513	0.713	87.840	8.956	0.877	0.033	0.051	0.004	0.003	0.009
04/28/2025 12:00AM	1,076.3	1,057.6	0.622	1,364.97	-52.52	1.512	0.713	87.844	8.954	0.876	0.033	0.051	0.004	0.003	0.009
04/29/2025 12:00AM	1,066.8	1,048.2	0.615	1,360.63	-66.50	1.510	0.653	89.050	7.987	0.706	0.029	0.046	0.005	0.004	0.010
04/30/2025 12:00AM	1,079.7	1,060.9	0.626	1,365.08	-48.70	0.958	1.179	87.683	9.164	0.891	0.041	0.063	0.007	0.005	0.009
05/01/2025 12:00AM	1,086.6	1,067.6	0.630	1,368.84	-44.20	1.027	1.142	86.953	9.641	1.089	0.049	0.078	0.007	0.005	0.009
05/02/2025 12:00AM	1,089.9	1,071.0	0.631	1,372.01	-42.30	1.062	1.047	86.744	9.825	1.161	0.053	0.086	0.008	0.005	0.009
05/03/2025 12:00AM	1,090.5	1,071.5	0.630	1,373.60	-42.10	1.057	0.978	86.870	9.765	1.162	0.055	0.091	0.009	0.006	0.009
05/04/2025 12:00AM	1,090.6	1,071.6	0.630	1,374.43	-41.99	1.056	0.936	86.958	9.715	1.160	0.057	0.095	0.009	0.006	0.009
05/05/2025 12:00AM	1,090.6	1,071.6	0.630	1,374.42	-42.01	1.057	0.936	86.956	9.717	1.159	0.057	0.095	0.009	0.006	0.009
05/06/2025 12:00AM	1,062.4	1,043.9	0.617	1,352.47	-57.56	1.987	0.657	88.449	8.157	0.668	0.025	0.038	0.004	0.003	0.011
05/07/2025 12:00AM	1,061.4	1,043.0	0.615	1,353.74	-60.54	1.620	0.799	88.980	7.965	0.559	0.024	0.035	0.005	0.004	0.011
05/08/2025 12:00AM	1,053.8	1,035.4	0.612	1,347.07	-64.98	1.929	0.721	89.417	7.314	0.551	0.021	0.030	0.005	0.003	0.010
05/09/2025 12:00AM	1,050.7	1,032.4	0.612	1,343.43	-66.77	2.446	0.486	89.225	7.142	0.637	0.020	0.031	0.003	0.002	0.009
05/10/2025 12:00AM	1,059.8	1,041.3	0.616	1,349.93	-60.45	2.123	0.626	88.611	7.816	0.741	0.026	0.041	0.004	0.002	0.009
05/11/2025 12:00AM	1,064.8	1,046.3	0.619	1,352.99	-52.91	1.876	0.779	88.344	8.059	0.821	0.036	0.062	0.007	0.006	0.010
05/12/2025 12:00AM	1,067.4	1,048.8	0.621	1,354.62	-51.29	1.793	0.826	88.165	8.197	0.888	0.040	0.069	0.007	0.005	0.010
05/13/2025 12:00AM	1,068.5	1,049.9	0.622	1,354.72	-50.58	1.843	0.822	87.983	8.272	0.945	0.042	0.072	0.007	0.005	0.009
05/14/2025 12:00AM	1,076.8	1,058.0	0.631	1,355.11	-41.75	1.915	1.025	86.663	8.973	1.233	0.059	0.108	0.009	0.007	0.009
05/15/2025 12:00AM	1,080.6	1,061.8	0.632	1,359.29	-39.81	1.936	0.897	86.530	9.115	1.309	0.065	0.121	0.010	0.008	0.009
05/16/2025 12:00AM	1,083.1	1,064.3	0.631	1,363.83	-39.97	1.973	0.693	86.604	9.196	1.320	0.065	0.124	0.010	0.008	0.008
05/17/2025 12:00AM	1,082.2	1,063.4	0.626	1,367.41	-42.81	1.713	0.632	87.283	9.008	1.169	0.059	0.110	0.010	0.007	0.009
05/18/2025 12:00AM	1,080.3	1,061.5	0.622	1,369.74	-46.47	1.485	0.589	87.931	8.829	0.998	0.051	0.091	0.009	0.006	0.010
05/19/2025 12:00AM	1,082.6	1,063.8	0.628	1,366.49	-40.96	1.532	0.817	87.240	9.045	1.158	0.063	0.115	0.011	0.009	0.010
05/20/2025 12:00AM	1,084.0	1,065.1	0.631	1,364.73	-38.81	1.577	0.931	86.817	9.198	1.256	0.067	0.124	0.012	0.010	0.010
05/21/2025 12:00AM	1,078.4	1,059.7	0.626	1,362.99	-46.93	1.567	0.858	87.373	9.006	1.045	0.048	0.081	0.007	0.006	0.009

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%)
05/22/2025 12:00AM	1,079.2	1,060.4	0.625	1,364.86	-50.02	1.492	0.825	87.352	9.278	0.935	0.038	0.062	0.005	0.004	0.008
05/23/2025 12:00AM	1,079.3	1,060.5	0.625	1,365.04	-50.07	1.483	0.826	87.345	9.298	0.932	0.038	0.061	0.005	0.004	0.008
05/24/2025 12:00AM	1,079.3	1,060.6	0.625	1,365.06	-50.09	1.482	0.825	87.346	9.300	0.930	0.038	0.061	0.005	0.004	0.008
05/25/2025 12:00AM	1,079.3	1,060.6	0.625	1,365.04	-50.05	1.482	0.826	87.343	9.302	0.930	0.038	0.061	0.005	0.004	0.008
05/26/2025 12:00AM	1,079.8	1,061.0	0.626	1,364.97	-49.39	1.487	0.841	87.271	9.327	0.953	0.039	0.063	0.005	0.004	0.008
05/27/2025 12:00AM	1,074.5	1,055.8	0.624	1,359.90	-48.08	1.440	0.988	87.853	8.548	1.030	0.046	0.075	0.007	0.005	0.009
05/28/2025 12:00AM	1,065.6	1,047.0	0.615	1,358.51	-54.26	1.274	0.887	89.412	7.469	0.830	0.040	0.064	0.008	0.006	0.010
05/29/2025 12:00AM	1,065.4	1,046.9	0.615	1,358.48	-54.41	1.273	0.884	89.438	7.451	0.826	0.040	0.064	0.008	0.006	0.010
05/30/2025 12:00AM	1,074.0	1,055.3	0.625	1,358.74	-61.24	2.023	0.652	87.366	8.737	1.091	0.043	0.073	0.005	0.003	0.008
05/31/2025 12:00AM	1,089.2	1,070.3	0.633	1,369.09	-41.03	1.588	0.845	86.287	9.755	1.352	0.057	0.098	0.006	0.004	0.007
06/01/2025 12:00AM	1,077.5	1,058.7	0.627	1,360.87	-46.69	1.583	0.935	87.316	8.925	1.102	0.045	0.074	0.007	0.004	0.009
06/02/2025 12:00AM	1,069.4	1,050.8	0.622	1,355.50	-51.14	1.512	1.025	88.053	8.430	0.864	0.037	0.057	0.007	0.004	0.010
06/03/2025 12:00AM	1,069.6	1,051.0	0.622	1,355.61	-50.95	1.518	1.021	88.030	8.443	0.872	0.037	0.058	0.007	0.004	0.010
06/04/2025 12:00AM	1,062.4	1,043.9	0.618	1,351.18	-59.01	2.219	0.579	88.141	8.249	0.733	0.025	0.040	0.004	0.002	0.008
06/05/2025 12:00AM	1,062.6	1,044.2	0.620	1,349.43	-58.60	2.276	0.649	87.817	8.434	0.747	0.024	0.039	0.003	0.002	0.008
06/06/2025 12:00AM	1,058.9	1,040.5	0.617	1,347.88	-62.24	2.510	0.460	88.125	8.149	0.691	0.020	0.033	0.003	0.002	0.008
06/07/2025 12:00AM	1,057.3	1,038.9	0.617	1,346.07	-62.86	2.639	0.425	88.091	8.105	0.680	0.018	0.029	0.002	0.002	0.008
06/08/2025 12:00AM	1,056.7	1,038.3	0.617	1,344.76	-62.84	2.735	0.417	87.963	8.144	0.686	0.017	0.027	0.002	0.002	0.008
06/09/2025 12:00AM	1,058.0	1,039.6	0.618	1,345.55	-62.08	2.688	0.445	87.858	8.252	0.701	0.017	0.027	0.002	0.002	0.008
06/10/2025 12:00AM	1,057.0	1,038.6	0.617	1,345.72	-63.15	2.737	0.373	88.004	8.154	0.680	0.016	0.025	0.002	0.002	0.008
06/11/2025 12:00AM	1,056.7	1,038.4	0.617	1,345.62	-63.29	2.745	0.364	88.038	8.125	0.676	0.016	0.025	0.002	0.002	0.008
06/12/2025 12:00AM	1,056.9	1,038.6	0.617	1,345.77	-63.06	2.741	0.365	88.031	8.128	0.683	0.016	0.025	0.002	0.002	0.008
06/13/2025 12:00AM	1,062.8	1,044.3	0.618	1,351.73	-58.95	2.090	0.646	88.155	8.378	0.655	0.024	0.036	0.005	0.003	0.010
06/14/2025 12:00AM	1,064.5	1,046.0	0.619	1,353.48	-58.42	1.983	0.672	88.117	8.504	0.646	0.024	0.037	0.005	0.003	0.010
06/15/2025 12:00AM	1,059.9	1,041.5	0.618	1,347.91	-56.95	2.307	0.625	88.292	7.837	0.844	0.030	0.049	0.005	0.003	0.009
06/16/2025 12:00AM	1,062.4	1,043.9	0.620	1,349.56	-55.25	2.505	0.481	87.934	8.054	0.926	0.032	0.051	0.005	0.003	0.008
06/17/2025 12:00AM	1,062.6	1,044.1	0.620	1,349.87	-55.37	2.519	0.461	87.909	8.096	0.918	0.031	0.050	0.004	0.003	0.009
06/18/2025 12:00AM	1,065.9	1,047.4	0.621	1,352.27	-51.23	2.463	0.471	87.764	8.130	1.046	0.041	0.067	0.006	0.004	0.008
06/19/2025 12:00AM	1,065.8	1,047.2	0.621	1,352.89	-51.49	2.423	0.456	87.906	8.053	1.035	0.042	0.067	0.006	0.004	0.008
06/20/2025 12:00AM	1,065.8	1,047.2	0.621	1,352.94	-51.50	2.419	0.456	87.911	8.052	1.034	0.042	0.067	0.006	0.004	0.008
06/21/2025 12:00AM	1,065.8	1,047.2	0.621	1,352.90	-51.43	2.420	0.457	87.911	8.049	1.035	0.042	0.067	0.006	0.004	0.008
06/22/2025 12:00AM	1,065.8	1,047.2	0.621	1,352.89	-51.41	2.422	0.457	87.910	8.051	1.034	0.042	0.067	0.006	0.004	0.009
06/23/2025 12:00AM	1,067.1	1,048.5	0.622	1,353.00	-48.79	2.556	0.405	87.653	8.147	1.082	0.048	0.087	0.008	0.006	0.008
06/24/2025 12:00AM	1,055.3	1,036.9	0.620	1,339.92	-51.94	3.227	0.331	87.569	7.876	0.858	0.035	0.070	0.010	0.010	0.015
06/25/2025 12:00AM	1,066.3	1,047.8	0.623	1,351.40	-53.72	2.462	0.535	87.342	8.684	0.881	0.029	0.050	0.005	0.004	0.008
06/26/2025 12:00AM	1,063.8	1,045.3	0.620	1,350.63	-56.10	2.409	0.531	87.702	8.475	0.793	0.026	0.045	0.005	0.004	0.009
06/27/2025 12:00AM	1,062.0	1,043.5	0.619	1,349.69	-57.82	2.407	0.526	87.893	8.352	0.740	0.023	0.041	0.005	0.004	0.009
06/28/2025 12:00AM	1,062.0	1,043.5	0.619	1,349.75	-57.81	2.404	0.526	87.894	8.354	0.740	0.023	0.041	0.005	0.004	0.009
06/29/2025 12:00AM	1,060.8	1,042.4	0.618	1,349.55	-57.78	2.353	0.532	88.142	8.170	0.720	0.024	0.041	0.005	0.004	0.010
06/30/2025 12:00AM	1,062.4	1,043.9	0.625	1,343.92	-27.00	2.852	0.597	87.391	7.917	0.931	0.068	0.148	0.031	0.033	0.033
07/01/2025 12:00AM	1,061.3	1,042.9	0.611	1,358.19	-55.50	1.472	0.641	89.816	7.368	0.596	0.031	0.046	0.009	0.007	0.014
07/02/2025 12:00AM	1,062.3	1,043.8	0.611	1,359.28	-55.49	1.559	0.554	89.740	7.387	0.653	0.033	0.046	0.008	0.006	0.013
07/03/2025 12:00AM	1,062.3	1,043.8	0.611	1,359.29	-55.38	1.558	0.554	89.743	7.386	0.653	0.033	0.046	0.008	0.006	0.014

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%)
07/04/2025 12:00AM	1,062.3	1,043.8	0.611	1,359.26	-55.38	1.559	0.556	89.734	7.392	0.653	0.033	0.046	0.008	0.006	0.014
07/05/2025 12:00AM	1,059.1	1,040.7	0.613	1,352.95	-55.83	1.817	0.637	89.309	7.531	0.601	0.030	0.046	0.009	0.007	0.013
07/06/2025 12:00AM	1,065.1	1,046.6	0.616	1,356.59	-56.30	1.662	0.727	88.727	8.109	0.673	0.029	0.048	0.007	0.005	0.011
07/07/2025 12:00AM	1,054.9	1,036.6	0.608	1,352.90	-58.89	1.263	0.869	90.461	6.843	0.465	0.030	0.039	0.010	0.006	0.014
07/08/2025 12:00AM	1,052.7	1,034.4	0.607	1,351.77	-60.92	1.409	0.766	90.618	6.663	0.447	0.029	0.039	0.009	0.007	0.013
07/09/2025 12:00AM	1,053.9	1,035.5	0.607	1,352.56	-59.80	1.699	0.568	90.378	6.700	0.548	0.031	0.048	0.009	0.007	0.013

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 = 67131;