

Gas Quality Reports

LS130 - Kansas Hugoton at Hugoton

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	1,033.2	1,015.3	0.611	1,322.11	-72.11	4.064	0.054	88.633	6.649	0.541	0.013	0.028	0.004	0.005	0.007
05/18/2019	987.6	970.4	0.664	1,211.61	6.64	11.875	0.034	79.179	6.464	1.761	0.139	0.338	0.066	0.077	0.066
05/19/2019	1,023.7	1,005.9	0.609	1,312.11	-139.87	4.481	0.033	88.540	6.704	0.233	0.002	0.002	0	0	0.004
05/20/2019	1,034.2	1,016.2	0.605	1,329.13	-137.65	3.545	0.031	89.402	6.726	0.288	0.002	0.003	0	0	0.004
05/21/2019	1,034.0	1,016.0	0.608	1,325.54	-135.84	3.805	0.055	88.910	6.788	0.433	0.002	0.003	0	0	0.003
05/22/2019	1,034.0	1,016.0	0.609	1,324.67	-135.52	3.870	0.063	88.717	6.936	0.406	0.002	0.003	0	0	0.004
05/23/2019	1,031.5	1,013.6	0.608	1,323.07	-137.48	3.849	0.085	88.928	6.831	0.299	0.002	0.003	0	0	0.003
05/24/2019	1,034.6	1,016.6	0.605	1,329.70	-137.84	3.441	0.079	89.438	6.792	0.243	0.002	0.002	0	0	0.004
05/25/2019	1,034.3	1,016.3	0.606	1,329.13	-137.74	3.481	0.076	89.404	6.769	0.261	0.002	0.003	0	0	0.004
05/26/2019	1,035.1	1,017.1	0.606	1,329.77	-137.24	3.467	0.073	89.384	6.771	0.297	0.002	0.003	0	0	0.003
05/27/2019	1,035.1	1,017.0	0.606	1,330.13	-137.36	3.467	0.053	89.426	6.756	0.291	0.002	0.003	0	0	0.004
05/28/2019	1,036.1	1,018.1	0.607	1,329.74	-135.86	3.557	0.050	89.195	6.787	0.402	0.002	0.003	0	0	0.003
05/29/2019	1,036.6	1,018.5	0.607	1,330.30	-135.70	3.534	0.049	89.193	6.813	0.403	0.002	0.003	0	0	0.003
05/30/2019	1,036.8	1,018.8	0.607	1,330.36	-135.44	3.531	0.056	89.163	6.823	0.418	0.002	0.003	0	0	0.003
05/31/2019	1,037.0	1,019.0	0.608	1,330.35	-135.19	3.540	0.057	89.134	6.822	0.439	0.002	0.003	0	0	0.003
06/01/2019	1,037.0	1,019.0	0.608	1,330.01	-134.98	3.566	0.059	89.088	6.822	0.456	0.002	0.003	0	0	0.004
06/02/2019	1,034.9	1,016.9	0.607	1,328.64	-136.46	3.578	0.058	89.292	6.656	0.407	0.002	0.003	0	0	0.004
06/03/2019	1,035.6	1,017.5	0.607	1,328.99	-135.93	3.581	0.059	89.216	6.707	0.428	0.002	0.003	0	0	0.004
06/04/2019	1,036.5	1,018.4	0.608	1,329.44	-135.25	3.591	0.056	89.101	6.795	0.447	0.002	0.003	0	0	0.004
06/05/2019	1,036.8	1,018.8	0.608	1,329.76	-135.10	3.577	0.058	89.085	6.823	0.447	0.002	0.003	0	0	0.004
06/06/2019	1,036.8	1,018.8	0.608	1,329.79	-135.10	3.573	0.059	89.094	6.815	0.449	0.002	0.003	0	0	0.004
06/07/2019	1,037.0	1,018.9	0.608	1,329.83	-134.95	3.578	0.059	89.071	6.826	0.457	0.002	0.003	0	0	0.004
06/08/2019	1,036.9	1,018.8	0.608	1,329.53	-134.85	3.599	0.059	89.049	6.812	0.472	0.002	0.003	0	0	0.004
06/09/2019	1,036.8	1,018.8	0.608	1,329.96	-135.21	3.559	0.059	89.112	6.824	0.437	0.002	0.003	0	0	0.004
06/10/2019	1,038.6	1,020.5	0.607	1,333.21	-135.05	3.373	0.057	89.312	6.822	0.426	0.002	0.004	0	0	0.004
06/11/2019	1,033.3	1,015.3	0.606	1,326.89	-137.23	3.650	0.059	89.300	6.612	0.370	0.002	0.003	0	0	0.004
06/12/2019	1,029.4	1,011.5	0.606	1,321.79	-138.68	3.888	0.060	89.230	6.470	0.343	0.002	0.003	0	0	0.004
06/13/2019	1,037.5	1,019.5	0.607	1,332.25	-135.61	3.402	0.059	89.371	6.743	0.416	0.002	0.003	0	0	0.004
06/14/2019	1,038.1	1,020.0	0.607	1,332.77	-135.33	3.384	0.059	89.349	6.778	0.421	0.002	0.003	0	0	0.004
06/15/2019	1,038.0	1,019.9	0.606	1,332.88	-135.48	3.369	0.060	89.380	6.771	0.411	0.002	0.003	0	0	0.004
06/16/2019	1,038.0	1,019.9	0.607	1,332.73	-135.44	3.382	0.059	89.357	6.780	0.413	0.002	0.003	0	0	0.004
06/17/2019	1,037.8	1,019.8	0.607	1,332.49	-135.43	3.396	0.059	89.344	6.776	0.415	0.002	0.003	0	0	0.004
06/18/2019	1,037.2	1,019.2	0.606	1,332.58	-136.20	3.356	0.060	89.466	6.744	0.365	0.002	0.003	0	0	0.004
06/19/2019	1,038.6	1,020.5	0.606	1,334.04	-135.44	3.302	0.059	89.458	6.763	0.409	0.002	0.003	0	0	0.004
06/20/2019	1,037.8	1,019.8	0.607	1,332.43	-135.34	3.399	0.060	89.352	6.748	0.430	0.002	0.003	0	0	0.005
06/21/2019	1,032.3	1,014.3	0.606	1,325.54	-137.54	3.712	0.060	89.295	6.550	0.372	0.002	0.003	0	0	0.005
06/22/2019	1,035.8	1,017.8	0.605	1,331.39	-136.94	3.386	0.060	89.596	6.578	0.371	0.002	0.003	0	0	0.005
06/23/2019	1,037.7	1,019.6	0.607	1,332.30	-135.47	3.402	0.060	89.353	6.760	0.415	0.002	0.003	0	0	0.005
06/24/2019	1,037.1	1,019.1	0.607	1,331.37	-135.56	3.450	0.063	89.304	6.760	0.412	0.002	0.003	0	0	0.005
06/25/2019	1,037.3	1,019.3	0.607	1,331.14	-135.16	3.483	0.061	89.231	6.773	0.441	0.002	0.003	0	0	0.005
06/26/2019	1,037.0	1,018.9	0.608	1,330.23	-135.05	3.544	0.060	89.159	6.768	0.457	0.003	0.004	0	0	0.005
06/27/2019	1,037.1	1,019.0	0.608	1,330.19	-134.88	3.556	0.058	89.133	6.771	0.470	0.003	0.004	0	0	0.005
06/28/2019	1,037.1	1,019.1	0.608	1,330.22	-134.83	3.555	0.059	89.131	6.772	0.472	0.003	0.004	0	0	0.005

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06/29/2019	1,037.2	1,019.1	0.608	1,330.39	-134.87	3.543	0.059	89.145	6.775	0.466	0.003	0.004	0	0	0.005
06/30/2019	1,037.2	1,019.2	0.608	1,330.75	-135.02	3.516	0.058	89.191	6.768	0.455	0.003	0.004	0	0	0.005
07/01/2019	1,037.1	1,019.1	0.607	1,330.79	-135.15	3.508	0.058	89.215	6.761	0.446	0.003	0.004	0	0	0.005
07/02/2019	1,035.7	1,017.6	0.606	1,330.18	-136.36	3.485	0.059	89.413	6.631	0.401	0.002	0.003	0	0	0.005
07/03/2019	1,035.0	1,016.9	0.606	1,329.57	-136.71	3.504	0.057	89.467	6.557	0.403	0.002	0.003	0	0	0.005
07/04/2019	1,036.4	1,018.4	0.607	1,330.07	-135.45	3.534	0.058	89.254	6.693	0.451	0.003	0.004	0	0	0.005
07/05/2019	1,036.9	1,018.9	0.607	1,330.47	-135.22	3.524	0.058	89.205	6.759	0.442	0.003	0.004	0	0	0.005
07/06/2019	1,036.9	1,018.8	0.607	1,330.56	-135.32	3.516	0.057	89.220	6.765	0.432	0.003	0.003	0	0	0.005
07/07/2019	1,036.9	1,018.9	0.607	1,330.56	-135.24	3.517	0.059	89.212	6.764	0.437	0.003	0.004	0	0	0.006
07/08/2019	1,037.1	1,019.0	0.607	1,330.64	-135.13	3.519	0.057	89.206	6.761	0.446	0.003	0.004	0	0	0.006
07/09/2019	1,035.9	1,017.8	0.607	1,329.10	-135.50	3.590	0.058	89.193	6.701	0.446	0.003	0.004	0	0	0.006
07/10/2019	1,037.5	1,019.4	0.607	1,331.62	-135.14	3.456	0.057	89.293	6.734	0.447	0.003	0.004	0	0	0.006
07/11/2019	1,038.8	1,020.8	0.605	1,335.82	-136.04	3.165	0.057	89.722	6.667	0.377	0.002	0.004	0	0	0.005
07/12/2019	1,037.8	1,019.7	0.604	1,335.13	-136.94	3.169	0.057	89.831	6.564	0.369	0.003	0.004	0	0	0.002
07/13/2019	1,039.7	1,021.6	0.605	1,336.27	-135.72	3.165	0.058	89.615	6.750	0.404	0.003	0.004	0	0	0
07/14/2019	1,040.3	1,022.2	0.606	1,336.75	-135.31	3.159	0.057	89.562	6.797	0.418	0.003	0.004	0	0	0
07/15/2019	1,040.4	1,022.3	0.606	1,336.68	-135.18	3.167	0.058	89.542	6.798	0.428	0.003	0.004	0	0	0
07/16/2019	1,040.3	1,022.2	0.606	1,336.32	-134.86	3.191	0.058	89.519	6.795	0.426	0.003	0.004	0	0	0.004
07/17/2019	1,041.3	1,023.1	0.606	1,337.69	-134.45	3.124	0.057	89.573	6.790	0.444	0.003	0.004	0	0	0.006
07/18/2019	1,041.8	1,023.7	0.606	1,338.49	-134.38	3.080	0.058	89.603	6.802	0.446	0.003	0.004	0	0	0.005
07/19/2019	1,042.0	1,023.9	0.606	1,338.87	-134.44	3.059	0.059	89.620	6.795	0.458	0.003	0.004	0	0	0.002
07/20/2019	1,041.4	1,023.2	0.606	1,337.91	-134.64	3.109	0.058	89.589	6.781	0.454	0.003	0.004	0	0	0.002
07/21/2019	1,040.7	1,022.6	0.605	1,337.46	-135.20	3.114	0.058	89.620	6.785	0.414	0.003	0.004	0	0	0.002
07/22/2019	1,040.4	1,022.3	0.605	1,337.38	-135.56	3.109	0.058	89.647	6.782	0.398	0.003	0.004	0	0	0
07/23/2019	1,040.4	1,022.3	0.605	1,337.28	-135.56	3.115	0.058	89.640	6.781	0.400	0.003	0.004	0	0	0
07/24/2019	1,040.4	1,022.3	0.605	1,337.13	-135.41	3.127	0.059	89.617	6.774	0.415	0.003	0.004	0	0	0
07/25/2019	1,040.6	1,022.5	0.606	1,337.13	-135.21	3.138	0.057	89.588	6.782	0.428	0.003	0.004	0	0	0
07/26/2019	1,040.4	1,022.3	0.606	1,336.95	-135.31	3.145	0.058	89.585	6.784	0.421	0.003	0.004	0	0	0
07/27/2019	1,038.8	1,020.7	0.605	1,335.92	-136.39	3.149	0.059	89.762	6.623	0.399	0.003	0.004	0	0	0
07/28/2019	1,039.7	1,021.6	0.603	1,338.54	-136.92	2.971	0.058	90.022	6.590	0.353	0.003	0.004	0	0	0
07/29/2019	1,041.1	1,023.0	0.604	1,339.27	-135.77	2.981	0.059	89.838	6.726	0.389	0.003	0.004	0	0	0
07/30/2019	1,041.1	1,023.0	0.604	1,339.27	-135.77	2.981	0.059	89.838	6.726	0.389	0.003	0.004	0	0	0
07/31/2019	1,034.9	1,016.9	0.607	1,328.68	-136.80	3.581	0.057	89.231	6.759	0.366	0.002	0.003	0	0	0
08/01/2019	1,036.3	1,018.3	0.606	1,330.89	-136.57	3.460	0.057	89.326	6.791	0.360	0.002	0.003	0	0	0
08/02/2019	1,038.7	1,020.6	0.606	1,333.89	-135.56	3.319	0.058	89.405	6.793	0.419	0.003	0.004	0	0	0
08/03/2019	1,039.1	1,021.0	0.606	1,334.45	-135.31	3.296	0.057	89.423	6.777	0.441	0.003	0.004	0	0	0
08/04/2019	1,039.2	1,021.1	0.606	1,334.37	-135.21	3.303	0.058	89.410	6.772	0.450	0.003	0.004	0	0	0
08/05/2019	1,039.3	1,021.2	0.606	1,334.67	-135.23	3.286	0.056	89.436	6.766	0.449	0.003	0.004	0	0	0
08/06/2019	1,038.2	1,020.1	0.606	1,334.02	-136.03	3.285	0.056	89.563	6.661	0.428	0.003	0.004	0	0	0
08/07/2019	1,038.4	1,020.3	0.606	1,333.99	-135.76	3.297	0.057	89.525	6.668	0.447	0.003	0.004	0	0	0
08/08/2019	1,039.0	1,020.9	0.606	1,334.46	-135.48	3.286	0.057	89.464	6.749	0.437	0.003	0.004	0	0	0
08/09/2019	1,039.0	1,021.0	0.606	1,334.24	-135.25	3.302	0.062	89.421	6.755	0.454	0.003	0.004	0	0	0
08/10/2019	1,039.3	1,021.2	0.607	1,334.39	-135.04	3.305	0.060	89.398	6.765	0.466	0.003	0.004	0	0	0

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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%)
08/11/2019	1,038.4	1,020.4	0.607	1,333.17	-135.28	3.370	0.058	89.359	6.745	0.461	0.003	0.004	0	0	0
08/12/2019	1,038.0	1,019.9	0.605	1,334.62	-136.53	3.223	0.057	89.706	6.602	0.405	0.003	0.004	0	0	0
08/13/2019	1,034.4	1,016.4	0.604	1,331.53	-138.62	3.309	0.057	89.917	6.361	0.350	0.003	0.004	0	0	0
08/14/2019	1,033.1	1,015.1	0.603	1,330.63	-139.53	3.323	0.055	90.041	6.248	0.327	0.002	0.004	0	0	0
08/15/2019	1,033.1	1,015.1	0.603	1,330.63	-139.53	3.323	0.055	90.041	6.248	0.327	0.002	0.004	0	0	0

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 = 63331