

Gas Quality Reports

LS130 - Kansas Hugoton at Montezuma
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	1,041.7	1,023.6	0.605	1,339.39	-135.13	3.009	0.053	89.754	6.742	0.435	0.003	0.004	0	0	0
05/18/2019	982.0	965.0	0.662	1,206.70	6.89	12.011	0.037	79.384	6.313	1.582	0.134	0.326	0.067	0.075	0.071
05/19/2019	1,031.5	1,013.6	0.606	1,325.12	-138.70	3.752	0.033	89.212	6.760	0.238	0.002	0.002	0	0	0.001
05/21/2019	1,032.7	1,014.8	0.608	1,324.78	-137.02	3.815	0.051	89.007	6.736	0.387	0.002	0.003	0	0	0
05/22/2019	1,033.0	1,015.0	0.609	1,323.61	-136.27	3.914	0.062	88.716	6.916	0.387	0.002	0.003	0	0	0
05/23/2019	1,030.1	1,012.2	0.608	1,320.68	-137.95	3.993	0.080	88.788	6.833	0.302	0.002	0.003	0	0	0
05/24/2019	1,033.3	1,015.3	0.605	1,328.57	-138.85	3.470	0.083	89.491	6.732	0.219	0.001	0.002	0	0	0
05/25/2019	1,033.6	1,015.6	0.605	1,328.51	-138.49	3.501	0.075	89.426	6.755	0.239	0.002	0.003	0	0	0
05/26/2019	1,034.3	1,016.3	0.606	1,328.96	-137.87	3.498	0.075	89.383	6.756	0.284	0.002	0.003	0	0	0
05/27/2019	1,034.0	1,016.0	0.605	1,329.00	-138.12	3.506	0.059	89.430	6.724	0.277	0.002	0.003	0	0	0
05/28/2019	1,035.0	1,017.0	0.606	1,329.23	-137.04	3.552	0.048	89.288	6.760	0.348	0.002	0.003	0	0	0
05/29/2019	1,035.6	1,017.6	0.607	1,329.31	-136.47	3.571	0.049	89.200	6.795	0.379	0.002	0.003	0	0	0
05/30/2019	1,035.7	1,017.7	0.607	1,329.32	-136.35	3.569	0.054	89.187	6.799	0.387	0.002	0.003	0	0	0
05/31/2019	1,036.0	1,018.0	0.607	1,329.53	-136.11	3.561	0.057	89.177	6.796	0.405	0.002	0.003	0	0	0
06/01/2019	1,036.0	1,018.0	0.608	1,329.10	-135.83	3.598	0.058	89.107	6.806	0.426	0.002	0.003	0	0	0
06/02/2019	1,034.5	1,016.5	0.607	1,328.11	-136.89	3.606	0.058	89.253	6.686	0.392	0.002	0.003	0	0	0
06/03/2019	1,034.1	1,016.1	0.607	1,327.78	-137.09	3.615	0.058	89.280	6.651	0.391	0.002	0.003	0	0	0
06/04/2019	1,035.4	1,017.4	0.607	1,328.43	-136.13	3.627	0.056	89.120	6.776	0.417	0.002	0.003	0	0	0
06/05/2019	1,035.7	1,017.7	0.608	1,328.82	-135.99	3.608	0.058	89.112	6.800	0.417	0.002	0.003	0	0	0
06/06/2019	1,035.9	1,017.9	0.608	1,329.03	-135.93	3.597	0.058	89.116	6.805	0.419	0.002	0.003	0	0	0
06/07/2019	1,035.8	1,017.8	0.608	1,328.85	-135.89	3.608	0.059	89.103	6.801	0.424	0.002	0.003	0	0	0
06/08/2019	1,035.9	1,017.9	0.608	1,328.73	-135.72	3.623	0.058	89.079	6.794	0.441	0.002	0.003	0	0	0
06/09/2019	1,036.0	1,018.0	0.608	1,329.22	-135.91	3.587	0.059	89.115	6.821	0.413	0.002	0.003	0	0	0
06/10/2019	1,037.0	1,018.9	0.607	1,331.23	-135.98	3.463	0.058	89.264	6.813	0.397	0.002	0.003	0	0	0
06/11/2019	1,037.0	1,018.9	0.607	1,331.23	-135.98	3.463	0.058	89.264	6.813	0.397	0.002	0.003	0	0	0
06/12/2019	1,028.6	1,010.7	0.607	1,320.42	-138.97	3.972	0.059	89.122	6.492	0.350	0.002	0.003	0	0	0
06/13/2019	1,036.9	1,018.8	0.606	1,331.68	-136.25	3.416	0.060	89.397	6.715	0.407	0.002	0.003	0	0	0
06/14/2019	1,038.1	1,020.1	0.607	1,332.86	-135.55	3.381	0.058	89.333	6.796	0.427	0.002	0.003	0	0	0
06/15/2019	1,038.1	1,020.0	0.607	1,332.91	-135.67	3.372	0.059	89.350	6.796	0.417	0.002	0.003	0	0	0
06/16/2019	1,037.9	1,019.9	0.607	1,332.74	-135.73	3.379	0.060	89.353	6.788	0.416	0.002	0.003	0	0	0
06/17/2019	1,038.0	1,019.9	0.607	1,332.71	-135.67	3.384	0.058	89.345	6.786	0.421	0.002	0.003	0	0	0
06/18/2019	1,036.9	1,018.9	0.606	1,332.09	-136.50	3.385	0.060	89.420	6.761	0.369	0.002	0.003	0	0	0
06/19/2019	1,038.7	1,020.6	0.606	1,334.19	-135.71	3.293	0.059	89.456	6.774	0.413	0.002	0.003	0	0	0
06/20/2019	1,038.0	1,019.9	0.607	1,332.84	-135.66	3.375	0.059	89.370	6.760	0.430	0.002	0.003	0	0	0
06/21/2019	1,032.9	1,015.0	0.607	1,325.87	-137.32	3.717	0.060	89.194	6.633	0.390	0.002	0.003	0	0	0
06/22/2019	1,035.4	1,017.4	0.605	1,331.28	-137.57	3.376	0.059	89.648	6.545	0.367	0.002	0.003	0	0	0
06/23/2019	1,037.6	1,019.5	0.607	1,332.24	-135.59	3.404	0.059	89.362	6.752	0.414	0.002	0.003	0	0	0.004
06/24/2019	1,037.3	1,019.2	0.607	1,331.59	-135.82	3.438	0.064	89.296	6.778	0.418	0.002	0.003	0	0	0
06/25/2019	1,037.4	1,019.3	0.607	1,331.33	-135.52	3.470	0.061	89.236	6.785	0.441	0.002	0.004	0	0	0
06/26/2019	1,037.1	1,019.0	0.608	1,330.46	-135.33	3.533	0.059	89.149	6.793	0.459	0.003	0.004	0	0	0
06/27/2019	1,037.2	1,019.2	0.608	1,330.39	-135.15	3.545	0.059	89.125	6.789	0.476	0.003	0.004	0	0	0
06/28/2019	1,037.2	1,019.1	0.608	1,330.41	-135.18	3.544	0.058	89.130	6.789	0.473	0.003	0.004	0	0	0
06/29/2019	1,037.2	1,019.1	0.608	1,330.35	-135.16	3.548	0.058	89.122	6.792	0.474	0.003	0.004	0	0	0

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06/30/2019	1,037.3	1,019.3	0.607	1,330.92	-135.30	3.507	0.059	89.179	6.791	0.459	0.003	0.004	0	0	0
07/01/2019	1,037.2	1,019.2	0.607	1,330.89	-135.45	3.504	0.057	89.199	6.783	0.451	0.003	0.004	0	0	0
07/02/2019	1,036.2	1,018.2	0.606	1,330.57	-136.31	3.481	0.058	89.342	6.697	0.415	0.002	0.003	0	0	0
07/03/2019	1,035.0	1,017.0	0.606	1,329.71	-137.06	3.495	0.057	89.460	6.576	0.406	0.002	0.004	0	0	0
07/04/2019	1,036.1	1,018.0	0.607	1,330.09	-136.14	3.516	0.057	89.313	6.664	0.444	0.003	0.004	0	0	0
07/05/2019	1,036.9	1,018.9	0.607	1,330.58	-135.57	3.515	0.058	89.202	6.771	0.448	0.003	0.004	0	0	0
07/06/2019	1,036.9	1,018.8	0.607	1,330.64	-135.69	3.510	0.057	89.213	6.779	0.435	0.002	0.004	0	0	0
07/07/2019	1,037.1	1,019.0	0.607	1,330.78	-135.56	3.506	0.057	89.204	6.784	0.442	0.003	0.004	0	0	0
07/08/2019	1,037.0	1,018.9	0.607	1,330.58	-135.54	3.518	0.057	89.196	6.773	0.449	0.003	0.004	0	0	0
07/09/2019	1,036.3	1,018.3	0.607	1,329.79	-135.75	3.555	0.057	89.192	6.741	0.448	0.003	0.004	0	0	0
07/10/2019	1,036.7	1,018.6	0.607	1,330.16	-135.55	3.542	0.056	89.194	6.737	0.463	0.003	0.004	0	0	0
07/11/2019	1,039.2	1,021.2	0.605	1,335.99	-136.07	3.169	0.057	89.652	6.727	0.388	0.002	0.004	0	0	0
07/12/2019	1,038.0	1,020.0	0.604	1,335.35	-136.93	3.164	0.056	89.809	6.591	0.374	0.002	0.004	0	0	0
07/13/2019	1,039.3	1,021.2	0.605	1,336.13	-136.03	3.161	0.057	89.669	6.710	0.397	0.003	0.004	0	0	0
07/14/2019	1,040.5	1,022.4	0.606	1,336.90	-135.23	3.153	0.058	89.555	6.809	0.419	0.003	0.004	0	0	0
07/15/2019	1,040.8	1,022.6	0.606	1,337.02	-135.00	3.157	0.057	89.525	6.822	0.432	0.003	0.004	0	0	0
07/16/2019	1,040.4	1,022.2	0.606	1,336.56	-135.18	3.176	0.057	89.528	6.807	0.426	0.003	0.004	0	0	0
07/17/2019	1,041.1	1,023.0	0.606	1,337.40	-134.80	3.141	0.057	89.531	6.817	0.447	0.003	0.004	0	0	0
07/18/2019	1,041.8	1,023.7	0.606	1,338.50	-134.67	3.081	0.057	89.583	6.823	0.449	0.003	0.004	0	0	0
07/19/2019	1,042.4	1,024.3	0.606	1,339.35	-134.43	3.039	0.058	89.609	6.826	0.461	0.003	0.004	0	0	0
07/20/2019	1,041.8	1,023.6	0.606	1,338.32	-134.56	3.095	0.057	89.568	6.810	0.462	0.003	0.004	0	0	0
07/21/2019	1,041.0	1,022.9	0.606	1,337.79	-135.15	3.103	0.057	89.608	6.803	0.422	0.003	0.004	0	0	0
07/22/2019	1,040.8	1,022.7	0.605	1,337.76	-135.34	3.097	0.058	89.625	6.809	0.405	0.003	0.004	0	0	0
07/23/2019	1,040.6	1,022.5	0.605	1,337.53	-135.42	3.107	0.057	89.629	6.796	0.404	0.003	0.004	0	0	0
07/24/2019	1,040.6	1,022.5	0.605	1,337.35	-135.31	3.121	0.058	89.610	6.788	0.417	0.003	0.004	0	0	0
07/25/2019	1,040.9	1,022.8	0.606	1,337.45	-135.04	3.126	0.058	89.572	6.806	0.431	0.003	0.004	0	0	0
07/26/2019	1,040.7	1,022.6	0.606	1,337.25	-135.18	3.134	0.057	89.584	6.792	0.426	0.003	0.004	0	0	0
07/27/2019	1,039.8	1,021.7	0.605	1,336.65	-135.76	3.139	0.058	89.675	6.707	0.414	0.003	0.004	0	0	0
07/28/2019	1,039.1	1,021.0	0.603	1,337.68	-137.06	3.013	0.059	90.004	6.560	0.358	0.003	0.004	0	0	0
07/29/2019	1,041.7	1,023.6	0.604	1,340.05	-135.58	2.943	0.058	89.857	6.742	0.392	0.003	0.004	0	0	0
07/30/2019	1,039.5	1,021.5	0.606	1,335.02	-135.16	3.266	0.058	89.443	6.779	0.447	0.003	0.004	0	0	0
07/31/2019	1,035.5	1,017.5	0.607	1,329.06	-136.39	3.576	0.057	89.200	6.766	0.394	0.003	0.004	0	0	0
08/01/2019	1,036.2	1,018.2	0.606	1,330.61	-136.54	3.479	0.056	89.303	6.792	0.363	0.002	0.003	0	0	0
08/02/2019	1,038.5	1,020.4	0.606	1,333.57	-135.65	3.337	0.058	89.373	6.824	0.403	0.002	0.003	0	0	0
08/03/2019	1,039.5	1,021.4	0.606	1,334.78	-135.11	3.286	0.056	89.405	6.800	0.446	0.003	0.004	0	0	0
08/04/2019	1,039.5	1,021.4	0.607	1,334.69	-135.02	3.295	0.056	89.388	6.800	0.454	0.003	0.004	0	0	0
08/05/2019	1,039.4	1,021.3	0.606	1,334.75	-135.14	3.285	0.057	89.416	6.785	0.450	0.003	0.004	0	0	0
08/06/2019	1,039.0	1,021.0	0.606	1,334.63	-135.46	3.278	0.055	89.483	6.734	0.443	0.003	0.004	0	0	0
08/07/2019	1,038.3	1,020.2	0.606	1,334.15	-135.92	3.281	0.056	89.567	6.650	0.439	0.003	0.004	0	0	0
08/08/2019	1,039.2	1,021.1	0.606	1,334.69	-135.39	3.278	0.056	89.461	6.760	0.439	0.003	0.004	0	0	0
08/09/2019	1,039.5	1,021.4	0.607	1,334.69	-135.09	3.284	0.062	89.410	6.783	0.454	0.003	0.004	0	0	0
08/10/2019	1,039.5	1,021.5	0.607	1,334.59	-134.90	3.301	0.059	89.379	6.784	0.470	0.003	0.004	0	0	0
08/11/2019	1,039.0	1,020.9	0.607	1,333.78	-135.04	3.344	0.059	89.352	6.772	0.466	0.003	0.004	0	0	0

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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%)
08/12/2019	1,038.4	1,020.3	0.605	1,334.54	-136.05	3.253	0.056	89.599	6.664	0.422	0.003	0.004	0	0	0
08/13/2019	1,035.9	1,017.9	0.604	1,332.71	-137.70	3.283	0.056	89.807	6.475	0.372	0.003	0.004	0	0	0
08/14/2019	1,035.9	1,017.9	0.604	1,332.71	-137.70	3.283	0.056	89.807	6.475	0.372	0.003	0.004	0	0	0
08/15/2019	1,032.2	1,014.2	0.602	1,330.41	-140.43	3.286	0.062	90.192	6.162	0.292	0.002	0.003	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 = 63121