

Gas Quality Reports

LS235 - Sedalia 20" at Ottawa

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	1,077.7	1,059.0	0.618	1,370.41	-36.62	1.365	0.545	89.317	7.077	1.413	0.082	0.150	0.020	0.017	0.012
05/18/2019	1,092.9	1,073.9	0.625	1,382.59	-31.80	0.913	0.640	88.469	8.015	1.648	0.094	0.172	0.021	0.018	0.011
05/19/2019	1,096.3	1,077.3	0.630	1,380.95	-29.51	0.987	0.791	87.582	8.606	1.705	0.098	0.178	0.022	0.020	0.011
05/20/2019	1,063.5	1,045.0	0.639	1,330.69	-16.74	4.033	0.607	85.472	7.778	1.656	0.116	0.237	0.037	0.037	0.027
05/21/2019	1,075.6	1,056.9	0.625	1,360.63	-32.89	1.987	0.622	87.798	8.092	1.217	0.076	0.145	0.023	0.022	0.017
05/22/2019	1,062.0	1,043.6	0.615	1,354.52	-53.00	2.204	0.388	89.031	7.292	0.920	0.048	0.086	0.013	0.011	0.007
05/23/2019	1,053.3	1,035.0	0.611	1,347.87	-66.29	2.744	0.124	89.265	6.966	0.800	0.031	0.052	0.007	0.006	0.004
05/24/2019	1,060.7	1,042.2	0.616	1,351.50	-45.71	2.675	0.203	88.674	7.278	0.976	0.053	0.098	0.016	0.015	0.013
05/25/2019	1,066.8	1,048.2	0.619	1,355.58	-39.47	2.446	0.322	88.394	7.462	1.133	0.066	0.126	0.019	0.018	0.014
05/26/2019	1,073.0	1,054.4	0.621	1,361.70	-39.86	1.983	0.480	88.379	7.689	1.221	0.071	0.130	0.018	0.016	0.011
05/27/2019	1,075.2	1,056.5	0.623	1,362.36	-38.21	1.975	0.518	88.095	7.899	1.252	0.073	0.140	0.020	0.018	0.011
05/28/2019	1,069.1	1,050.5	0.619	1,358.63	-45.73	2.082	0.463	88.517	7.608	1.122	0.060	0.112	0.015	0.013	0.009
05/29/2019	1,070.4	1,051.7	0.620	1,359.17	-46.78	2.158	0.423	88.288	7.763	1.167	0.059	0.109	0.014	0.012	0.007
05/30/2019	1,068.8	1,050.2	0.623	1,354.35	-45.24	2.393	0.491	87.886	7.788	1.219	0.066	0.122	0.015	0.014	0.006
05/31/2019	1,070.1	1,051.4	0.621	1,357.75	-47.64	2.089	0.539	88.296	7.634	1.229	0.065	0.118	0.013	0.011	0.004
06/01/2019	1,064.3	1,045.8	0.618	1,353.48	-52.01	2.320	0.444	88.530	7.430	1.101	0.054	0.097	0.011	0.010	0.005
06/02/2019	1,062.1	1,043.7	0.618	1,350.88	-54.16	2.420	0.454	88.503	7.380	1.080	0.051	0.088	0.010	0.008	0.004
06/03/2019	1,067.7	1,049.2	0.621	1,354.80	-47.17	2.412	0.418	88.186	7.461	1.332	0.059	0.105	0.012	0.009	0.006
06/04/2019	1,068.5	1,049.9	0.620	1,356.67	-50.65	2.500	0.280	88.101	7.665	1.285	0.054	0.095	0.009	0.008	0.003
06/05/2019	1,070.9	1,052.2	0.615	1,365.77	-45.13	1.951	0.204	89.365	6.991	1.266	0.075	0.111	0.017	0.012	0.009
06/06/2019	1,080.7	1,061.9	0.616	1,377.31	-34.77	1.449	0.200	89.625	6.893	1.597	0.077	0.112	0.017	0.012	0.017
06/07/2019	1,065.3	1,046.7	0.609	1,364.73	-49.68	1.863	0.142	90.230	6.415	1.191	0.051	0.077	0.011	0.008	0.011
06/08/2019	1,057.6	1,039.2	0.606	1,358.26	-54.81	1.985	0.180	90.623	6.082	0.995	0.042	0.064	0.011	0.007	0.011
06/09/2019	1,058.7	1,040.3	0.607	1,358.91	-54.48	1.993	0.174	90.502	6.175	1.012	0.045	0.072	0.010	0.007	0.010
06/10/2019	1,065.9	1,047.4	0.611	1,364.07	-40.66	1.778	0.256	90.057	6.641	1.082	0.053	0.085	0.016	0.012	0.020
06/11/2019	1,056.1	1,037.7	0.611	1,350.78	-47.11	2.447	0.246	89.555	6.696	0.901	0.042	0.073	0.013	0.011	0.016
06/12/2019	1,047.8	1,029.6	0.610	1,341.43	-65.08	2.898	0.208	89.447	6.542	0.793	0.034	0.059	0.008	0.007	0.005
06/13/2019	1,055.2	1,036.8	0.615	1,345.49	-58.79	2.651	0.381	88.956	6.837	1.023	0.049	0.083	0.009	0.008	0.003
06/14/2019	1,063.7	1,045.2	0.620	1,350.63	-49.43	2.471	0.486	88.266	7.417	1.157	0.062	0.112	0.013	0.011	0.005
06/15/2019	1,070.9	1,052.3	0.620	1,359.67	-42.88	2.214	0.376	88.316	7.607	1.294	0.058	0.100	0.014	0.012	0.011
06/16/2019	1,075.1	1,056.4	0.622	1,362.94	-44.49	2.038	0.444	88.006	8.024	1.299	0.059	0.100	0.013	0.011	0.008
06/17/2019	1,073.1	1,054.4	0.621	1,361.64	-42.53	1.984	0.485	88.338	7.703	1.273	0.065	0.113	0.016	0.013	0.009
06/18/2019	1,074.6	1,055.9	0.622	1,362.30	-45.37	2.042	0.459	87.999	8.042	1.269	0.058	0.100	0.013	0.011	0.007
06/19/2019	1,066.4	1,047.9	0.616	1,359.16	-48.60	2.198	0.271	88.931	7.338	1.094	0.051	0.085	0.013	0.010	0.009
06/20/2019	1,064.4	1,045.9	0.613	1,358.97	-54.66	2.192	0.222	89.179	7.245	1.021	0.045	0.071	0.010	0.007	0.007
06/21/2019	1,074.8	1,056.1	0.621	1,364.18	-47.70	2.114	0.311	88.158	7.920	1.331	0.053	0.089	0.010	0.008	0.005
06/22/2019	1,070.6	1,052.0	0.619	1,360.64	-46.39	2.144	0.358	88.508	7.527	1.282	0.056	0.095	0.013	0.010	0.008
06/23/2019	1,066.5	1,047.9	0.616	1,358.87	-48.02	2.151	0.319	89.073	7.061	1.206	0.059	0.099	0.014	0.011	0.008
06/24/2019	1,062.9	1,044.4	0.612	1,358.94	-57.04	1.980	0.313	89.700	6.808	1.054	0.047	0.077	0.009	0.007	0.005
06/25/2019	1,064.4	1,045.8	0.613	1,359.67	-55.60	1.928	0.355	89.534	6.982	1.057	0.046	0.075	0.010	0.008	0.006
06/26/2019	1,068.5	1,049.9	0.615	1,362.83	-54.67	1.894	0.333	89.135	7.416	1.081	0.047	0.073	0.009	0.007	0.005
06/27/2019	1,058.5	1,040.0	0.611	1,353.71	-60.96	2.525	0.108	89.226	7.166	0.865	0.036	0.055	0.008	0.006	0.006
06/28/2019	1,059.7	1,041.3	0.613	1,353.38	-57.62	2.544	0.153	89.041	7.167	0.977	0.037	0.060	0.008	0.006	0.006

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06/29/2019	1,065.4	1,046.8	0.616	1,357.45	-50.94	2.238	0.307	88.816	7.428	1.064	0.047	0.073	0.011	0.008	0.009
06/30/2019	1,069.1	1,050.4	0.618	1,359.74	-52.72	2.185	0.332	88.499	7.650	1.194	0.047	0.074	0.008	0.006	0.005
07/01/2019	1,066.3	1,047.7	0.617	1,357.70	-55.64	2.198	0.350	88.646	7.611	1.063	0.046	0.069	0.009	0.006	0.005
07/02/2019	1,072.2	1,053.5	0.617	1,364.64	-48.61	2.049	0.246	88.637	7.730	1.188	0.049	0.076	0.011	0.007	0.008
07/03/2019	1,071.8	1,053.2	0.616	1,365.37	-51.59	2.208	0.089	88.617	7.799	1.137	0.049	0.077	0.010	0.007	0.006
07/04/2019	1,068.7	1,050.1	0.614	1,363.65	-53.63	2.198	0.093	88.899	7.654	1.017	0.047	0.068	0.010	0.007	0.007
07/05/2019	1,064.9	1,046.4	0.614	1,359.46	-57.01	2.297	0.142	88.976	7.490	0.966	0.044	0.064	0.009	0.006	0.006
07/06/2019	1,066.0	1,047.4	0.614	1,359.99	-56.22	2.243	0.182	88.912	7.528	1.001	0.046	0.067	0.009	0.006	0.005
07/07/2019	1,070.0	1,051.4	0.615	1,364.70	-55.25	2.037	0.181	88.919	7.681	1.047	0.048	0.066	0.009	0.006	0.005
07/08/2019	1,070.1	1,051.5	0.615	1,364.79	-54.68	2.027	0.187	88.890	7.743	1.011	0.049	0.070	0.010	0.007	0.006
07/09/2019	1,068.1	1,049.5	0.615	1,362.25	-55.44	2.145	0.186	88.848	7.704	0.980	0.046	0.067	0.010	0.007	0.006
07/10/2019	1,072.0	1,053.4	0.615	1,366.46	-52.18	1.928	0.220	88.857	7.788	1.058	0.050	0.073	0.010	0.007	0.007
07/11/2019	1,075.1	1,056.4	0.616	1,369.65	-49.87	1.749	0.255	88.876	7.849	1.108	0.056	0.081	0.012	0.008	0.007
07/12/2019	1,072.6	1,053.9	0.616	1,366.68	-49.97	2.007	0.172	88.798	7.749	1.117	0.053	0.078	0.011	0.008	0.008
07/13/2019	1,065.3	1,046.7	0.613	1,360.60	-57.00	2.267	0.109	89.054	7.493	0.952	0.041	0.062	0.009	0.007	0.006
07/14/2019	1,064.7	1,046.2	0.615	1,358.07	-57.17	2.246	0.246	88.890	7.521	0.957	0.046	0.073	0.010	0.008	0.004
07/15/2019	1,073.6	1,054.9	0.619	1,364.68	-44.43	2.020	0.306	88.560	7.662	1.239	0.063	0.115	0.014	0.011	0.009
07/16/2019	1,085.8	1,066.9	0.623	1,376.15	-36.37	1.757	0.223	88.169	8.098	1.446	0.083	0.182	0.018	0.015	0.009
07/17/2019	1,075.6	1,056.9	0.618	1,368.38	-47.40	1.947	0.211	88.582	7.901	1.150	0.061	0.118	0.013	0.010	0.006
07/18/2019	1,068.3	1,049.7	0.614	1,362.91	-54.73	2.177	0.135	88.915	7.625	0.993	0.048	0.084	0.010	0.008	0.005
07/19/2019	1,067.3	1,048.7	0.616	1,359.91	-54.61	2.223	0.241	88.688	7.675	1.040	0.043	0.067	0.009	0.007	0.006
07/20/2019	1,069.3	1,050.7	0.616	1,362.16	-49.53	2.181	0.206	88.661	7.764	1.030	0.046	0.080	0.012	0.010	0.009
07/21/2019	1,072.5	1,053.8	0.618	1,364.38	-48.98	2.220	0.157	88.382	7.930	1.154	0.047	0.082	0.011	0.009	0.007
07/22/2019	1,064.7	1,046.2	0.615	1,357.70	-59.10	2.267	0.253	88.788	7.608	0.962	0.040	0.064	0.008	0.006	0.004
07/23/2019	1,068.3	1,049.7	0.615	1,362.72	-54.91	2.103	0.195	88.933	7.616	1.012	0.046	0.073	0.010	0.007	0.006
07/24/2019	1,065.7	1,047.1	0.614	1,360.00	-53.66	2.256	0.163	88.951	7.512	0.985	0.042	0.066	0.010	0.007	0.008
07/25/2019	1,071.7	1,053.1	0.619	1,362.41	-49.13	2.083	0.335	88.428	7.802	1.190	0.053	0.084	0.011	0.008	0.007
07/26/2019	1,071.8	1,053.1	0.616	1,365.09	-54.35	2.165	0.132	88.574	7.869	1.123	0.045	0.072	0.008	0.006	0.004
07/27/2019	1,071.0	1,052.3	0.616	1,365.06	-49.46	2.102	0.149	88.809	7.698	1.085	0.050	0.078	0.012	0.009	0.009
07/28/2019	1,066.3	1,047.7	0.614	1,360.28	-56.46	2.317	0.127	88.791	7.666	0.965	0.043	0.069	0.010	0.008	0.005
07/29/2019	1,064.6	1,046.1	0.615	1,357.74	-56.87	2.439	0.137	88.693	7.638	0.964	0.042	0.066	0.009	0.007	0.005
07/30/2019	1,075.0	1,056.3	0.621	1,364.60	-42.97	2.319	0.158	88.166	7.734	1.437	0.058	0.098	0.012	0.009	0.009
07/31/2019	1,069.3	1,050.7	0.618	1,360.77	-51.64	2.187	0.282	88.538	7.722	1.107	0.051	0.086	0.011	0.009	0.005
08/01/2019	1,076.8	1,058.1	0.623	1,364.16	-42.96	2.032	0.433	87.906	8.072	1.353	0.063	0.108	0.014	0.011	0.007
08/02/2019	1,056.6	1,038.2	0.613	1,349.10	-62.86	2.829	0.107	88.721	7.409	0.826	0.033	0.057	0.008	0.007	0.004
08/03/2019	1,050.7	1,032.4	0.612	1,342.76	-67.85	3.142	0.068	88.738	7.216	0.739	0.030	0.052	0.007	0.006	0.003
08/04/2019	1,049.3	1,031.0	0.612	1,341.49	-69.23	3.173	0.072	88.782	7.195	0.689	0.026	0.047	0.006	0.006	0.003
08/05/2019	1,070.2	1,051.6	0.618	1,361.49	-51.39	2.416	0.118	88.314	7.816	1.199	0.043	0.072	0.009	0.007	0.006
08/06/2019	1,075.5	1,056.8	0.621	1,365.28	-36.24	2.288	0.157	88.287	7.577	1.482	0.064	0.102	0.016	0.011	0.016
08/07/2019	1,065.7	1,047.1	0.615	1,359.01	-48.41	2.370	0.142	88.890	7.358	1.091	0.046	0.072	0.012	0.009	0.011
08/08/2019	1,061.1	1,042.7	0.614	1,354.65	-54.78	2.494	0.160	89.001	7.219	1.001	0.038	0.062	0.010	0.007	0.008
08/09/2019	1,062.3	1,043.8	0.614	1,355.37	-53.29	2.480	0.165	88.953	7.203	1.067	0.040	0.066	0.010	0.007	0.008
08/10/2019	1,071.5	1,052.8	0.617	1,364.37	-43.21	2.116	0.194	88.928	7.222	1.362	0.055	0.090	0.013	0.009	0.012

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08/11/2019	1,070.8	1,052.2	0.618	1,362.18	-47.03	2.365	0.132	88.467	7.576	1.304	0.048	0.081	0.011	0.008	0.009
08/14/2019	1,070.8	1,052.2	0.618	1,362.18	-47.03	2.365	0.132	88.467	7.576	1.304	0.048	0.081	0.011	0.008	0.009
08/15/2019	1,070.8	1,052.2	0.618	1,362.18	-47.03	2.365	0.132	88.467	7.576	1.304	0.048	0.081	0.011	0.008	0.009

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 = 52763