

Gas Quality Reports

LS458 - Canadian Blackwell at Blackwell
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	1,024.6	1,006.7	0.581	1,343.82	-100.39	1.334	0.366	94.929	3.194	0.152	0.007	0.013	0.003	0.003	0.001
05/18/2019	1,024.6	1,006.8	0.582	1,343.10	-99.72	1.399	0.363	94.756	3.324	0.133	0.007	0.012	0.003	0.003	0.001
05/19/2019	1,025.0	1,007.2	0.583	1,342.53	-87.38	1.456	0.368	94.612	3.375	0.150	0.009	0.018	0.005	0.004	0.002
05/21/2019	1,025.5	1,007.6	0.581	1,345.17	-96.23	1.433	0.257	94.845	3.282	0.148	0.008	0.017	0.004	0.004	0.002
05/22/2019	1,025.4	1,007.6	0.583	1,342.89	-97.34	1.535	0.311	94.477	3.499	0.150	0.007	0.013	0.003	0.003	0.001
05/23/2019	1,026.9	1,009.1	0.584	1,343.57	-98.17	1.485	0.353	94.299	3.685	0.151	0.007	0.013	0.003	0.003	0.001
05/24/2019	1,029.3	1,011.4	0.585	1,345.47	-93.70	1.451	0.348	94.139	3.830	0.196	0.010	0.017	0.004	0.003	0.001
05/25/2019	1,017.7	1,000.0	0.593	1,321.18	-93.16	2.118	0.868	92.942	3.810	0.219	0.011	0.020	0.005	0.005	0.002
05/26/2019	1,032.6	1,014.7	0.588	1,346.43	-78.62	1.442	0.403	93.702	4.140	0.262	0.013	0.023	0.006	0.005	0.003
05/27/2019	1,032.9	1,015.0	0.588	1,347.40	-75.66	1.439	0.363	93.756	4.143	0.243	0.014	0.026	0.006	0.006	0.003
05/28/2019	1,028.9	1,011.0	0.585	1,345.35	-78.86	1.412	0.366	94.276	3.705	0.191	0.012	0.022	0.006	0.005	0.003
05/29/2019	1,027.4	1,009.5	0.585	1,343.60	-90.80	1.499	0.356	94.223	3.732	0.154	0.009	0.017	0.004	0.004	0.002
05/30/2019	1,027.8	1,009.9	0.585	1,343.98	-81.93	1.410	0.408	94.329	3.602	0.202	0.013	0.023	0.005	0.005	0.002
05/31/2019	1,027.5	1,009.6	0.584	1,344.53	-94.31	1.359	0.401	94.476	3.525	0.207	0.010	0.016	0.003	0.003	0.001
06/01/2019	1,025.8	1,007.9	0.582	1,344.27	-98.88	1.324	0.385	94.753	3.355	0.158	0.007	0.012	0.003	0.002	0.001
06/02/2019	1,028.3	1,010.4	0.585	1,344.47	-93.07	1.433	0.379	94.373	3.470	0.293	0.016	0.028	0.004	0.003	0.001
06/03/2019	1,025.8	1,008.0	0.582	1,344.40	-100.60	1.276	0.411	94.775	3.376	0.136	0.007	0.012	0.003	0.002	0.001
06/04/2019	1,027.7	1,009.8	0.583	1,345.50	-95.39	1.201	0.459	94.691	3.408	0.199	0.012	0.021	0.004	0.004	0.001
06/05/2019	1,026.9	1,009.0	0.583	1,344.75	-98.42	1.179	0.489	94.693	3.467	0.146	0.007	0.013	0.003	0.003	0.001
06/06/2019	1,026.0	1,008.2	0.582	1,345.22	-100.26	1.142	0.462	94.914	3.337	0.128	0.005	0.009	0.001	0.001	0
06/07/2019	1,024.4	1,006.6	0.581	1,344.20	-101.90	1.144	0.466	95.059	3.223	0.098	0.003	0.005	0	0	0
06/08/2019	1,025.0	1,007.1	0.584	1,341.80	-100.38	1.240	0.549	94.572	3.530	0.102	0.002	0.003	0	0	0
06/09/2019	1,025.6	1,007.7	0.583	1,342.87	-100.37	1.150	0.569	94.661	3.507	0.108	0.002	0.002	0	0	0
06/10/2019	1,023.2	1,005.4	0.582	1,341.72	-102.39	1.178	0.539	94.940	3.262	0.078	0.001	0.002	0	0	0
06/11/2019	1,024.2	1,006.4	0.582	1,342.12	-101.41	1.225	0.517	94.779	3.379	0.096	0.002	0.002	0	0	0
06/12/2019	1,027.1	1,009.2	0.585	1,342.96	-98.50	1.327	0.495	94.295	3.707	0.166	0.004	0.006	0	0	0
06/13/2019	1,027.5	1,009.6	0.585	1,343.59	-98.81	1.219	0.546	94.319	3.785	0.125	0.002	0.004	0	0	0
06/14/2019	1,025.5	1,007.7	0.584	1,341.65	-99.94	1.307	0.530	94.374	3.693	0.091	0.002	0.003	0	0	0
06/15/2019	1,025.8	1,008.0	0.584	1,342.86	-100.20	1.198	0.547	94.552	3.606	0.092	0.002	0.004	0	0	0
06/16/2019	1,023.3	1,005.5	0.583	1,340.12	-101.10	1.331	0.528	94.626	3.406	0.102	0.002	0.004	0	0	0
06/17/2019	1,023.7	1,005.9	0.583	1,340.53	-100.42	1.379	0.488	94.583	3.414	0.123	0.004	0.007	0.001	0	0
06/18/2019	1,023.1	1,005.3	0.581	1,342.30	-101.87	1.254	0.456	95.010	3.163	0.105	0.003	0.007	0.001	0.001	0
06/19/2019	1,026.0	1,008.1	0.583	1,344.22	-100.53	1.194	0.481	94.722	3.484	0.111	0.003	0.005	0	0	0
06/20/2019	1,026.3	1,008.4	0.581	1,346.63	-101.05	1.089	0.428	95.082	3.251	0.134	0.005	0.010	0	0	0
06/21/2019	1,025.1	1,007.2	0.579	1,347.25	-103.02	1.007	0.413	95.407	3.076	0.091	0.002	0.004	0	0	0
06/22/2019	1,026.6	1,008.7	0.580	1,347.43	-101.83	0.997	0.456	95.123	3.330	0.087	0.002	0.003	0	0	0
06/23/2019	1,021.9	1,004.1	0.578	1,343.58	-103.91	1.127	0.433	95.495	2.847	0.088	0.003	0.005	0.001	0	0
06/24/2019	1,022.1	1,004.4	0.579	1,343.83	-103.65	1.133	0.423	95.479	2.868	0.086	0.003	0.006	0.001	0.001	0
06/25/2019	1,021.9	1,004.1	0.578	1,344.61	-104.75	1.121	0.380	95.636	2.765	0.090	0.002	0.005	0	0	0
06/26/2019	1,028.0	1,010.1	0.582	1,347.38	-94.76	1.118	0.421	94.899	3.351	0.175	0.009	0.019	0.003	0.003	0.001
06/27/2019	1,028.5	1,010.6	0.583	1,347.31	-72.15	1.133	0.430	94.918	3.230	0.207	0.018	0.039	0.009	0.009	0.005
06/28/2019	1,025.9	1,008.0	0.580	1,347.29	-95.61	1.048	0.409	95.303	3.084	0.125	0.007	0.015	0.003	0.004	0.002
06/29/2019	1,027.3	1,009.4	0.581	1,347.77	-84.98	1.059	0.418	95.158	3.156	0.155	0.012	0.026	0.006	0.007	0.003

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06/30/2019	1,026.3	1,008.4	0.580	1,347.57	-75.91	1.055	0.399	95.397	2.912	0.167	0.015	0.034	0.008	0.009	0.004
07/01/2019	1,025.4	1,007.6	0.579	1,347.45	-81.97	1.021	0.404	95.528	2.839	0.149	0.013	0.028	0.007	0.008	0.003
07/02/2019	1,026.5	1,008.6	0.580	1,347.24	-77.50	1.066	0.416	95.310	2.969	0.168	0.015	0.035	0.008	0.009	0.004
07/03/2019	1,025.1	1,007.3	0.581	1,345.45	-98.88	1.093	0.454	95.128	3.219	0.092	0.004	0.007	0.001	0.001	0.001
07/04/2019	1,025.9	1,008.0	0.580	1,346.55	-102.17	1.023	0.465	95.123	3.306	0.079	0.001	0.002	0	0	0
07/05/2019	1,025.3	1,007.4	0.579	1,346.85	-102.95	1.004	0.443	95.294	3.181	0.075	0.001	0.002	0	0	0
07/06/2019	1,024.4	1,006.6	0.579	1,345.76	-102.93	1.068	0.433	95.298	3.110	0.084	0.002	0.004	0	0	0
07/07/2019	1,023.3	1,005.5	0.579	1,345.15	-103.01	1.101	0.411	95.426	2.965	0.086	0.003	0.006	0.001	0.001	0
07/08/2019	1,022.9	1,005.1	0.578	1,345.25	-104.33	1.082	0.403	95.524	2.906	0.080	0.002	0.002	0	0	0
07/09/2019	1,025.4	1,007.6	0.580	1,346.06	-102.07	1.099	0.427	95.113	3.261	0.093	0.002	0.003	0	0	0
07/10/2019	1,035.0	1,017.0	0.586	1,351.82	-81.28	1.049	0.445	94.234	3.955	0.255	0.015	0.032	0.006	0.006	0.004
07/11/2019	1,038.4	1,020.3	0.588	1,353.96	-57.92	0.998	0.465	94.067	4.038	0.309	0.025	0.060	0.013	0.015	0.009
07/12/2019	1,036.3	1,018.3	0.585	1,354.74	-85.31	0.968	0.382	94.345	4.011	0.249	0.012	0.023	0.004	0.004	0.003
07/13/2019	1,034.4	1,016.4	0.584	1,354.11	-96.91	0.906	0.399	94.581	3.892	0.212	0.005	0.006	0	0	0
07/14/2019	1,039.0	1,021.0	0.589	1,353.98	-92.62	1.004	0.483	93.585	4.682	0.233	0.006	0.008	0	0	0
07/15/2019	1,038.2	1,020.1	0.589	1,353.26	-93.00	1.080	0.445	93.610	4.615	0.236	0.006	0.008	0	0	0
07/16/2019	1,039.9	1,021.8	0.590	1,353.35	-91.45	1.114	0.471	93.268	4.880	0.249	0.007	0.010	0	0	0
07/17/2019	1,039.1	1,021.0	0.590	1,353.31	-92.36	1.037	0.501	93.432	4.805	0.214	0.005	0.006	0	0	0
07/18/2019	1,037.9	1,019.8	0.588	1,353.13	-93.43	0.978	0.511	93.695	4.603	0.203	0.004	0.005	0	0	0
07/19/2019	1,037.7	1,019.6	0.588	1,353.51	-93.67	1.023	0.454	93.778	4.509	0.224	0.006	0.007	0	0	0
07/20/2019	1,037.6	1,019.5	0.588	1,352.99	-93.48	1.071	0.448	93.678	4.573	0.217	0.005	0.007	0	0	0
07/21/2019	1,036.2	1,018.2	0.587	1,352.92	-94.78	1.041	0.429	93.957	4.365	0.197	0.005	0.007	0	0	0
07/22/2019	1,035.7	1,017.6	0.586	1,352.94	-95.27	1.048	0.406	94.061	4.277	0.195	0.005	0.007	0	0	0
07/23/2019	1,033.8	1,015.8	0.585	1,352.09	-96.93	1.006	0.421	94.318	4.097	0.151	0.003	0.004	0	0	0
07/24/2019	1,033.8	1,015.8	0.585	1,352.09	-96.93	1.006	0.421	94.318	4.097	0.151	0.003	0.004	0	0	0
07/25/2019	1,033.8	1,015.8	0.585	1,352.09	-96.93	1.006	0.421	94.318	4.097	0.151	0.003	0.004	0	0	0
07/26/2019	1,036.0	1,017.9	0.585	1,354.48	-94.58	0.908	0.425	94.311	4.136	0.210	0.005	0.005	0	0	0
07/27/2019	1,035.9	1,017.9	0.585	1,354.28	-94.98	0.899	0.439	94.365	4.036	0.238	0.009	0.011	0.001	0.001	0
07/28/2019	1,035.6	1,017.6	0.585	1,353.64	-95.45	0.948	0.432	94.280	4.101	0.225	0.006	0.009	0	0	0
07/29/2019	1,036.5	1,018.4	0.586	1,353.52	-94.43	0.968	0.453	94.087	4.238	0.234	0.007	0.011	0.001	0.001	0
07/30/2019	1,036.5	1,018.4	0.586	1,353.52	-94.43	0.968	0.453	94.087	4.238	0.234	0.007	0.011	0.001	0.001	0
07/31/2019	1,036.5	1,018.4	0.586	1,353.52	-94.43	0.968	0.453	94.087	4.238	0.234	0.007	0.011	0.001	0.001	0
08/01/2019	1,040.1	1,022.0	0.589	1,355.11	-89.64	1.023	0.440	93.686	4.459	0.344	0.015	0.026	0.003	0.002	0
08/02/2019	1,040.1	1,022.0	0.589	1,355.11	-89.64	1.023	0.440	93.686	4.459	0.344	0.015	0.026	0.003	0.002	0
08/03/2019	1,043.5	1,025.3	0.595	1,353.26	-87.62	1.194	0.535	92.540	5.401	0.305	0.009	0.013	0.001	0.001	0
08/04/2019	1,042.3	1,024.2	0.593	1,353.23	-88.96	1.202	0.494	92.754	5.227	0.304	0.008	0.010	0	0	0
08/05/2019	1,041.1	1,023.0	0.592	1,352.74	-90.04	1.198	0.486	92.901	5.134	0.266	0.007	0.008	0	0	0
08/06/2019	1,041.5	1,023.3	0.593	1,352.86	-89.67	1.241	0.463	92.823	5.172	0.285	0.007	0.009	0	0	0
08/07/2019	1,044.5	1,026.3	0.594	1,354.99	-86.61	1.213	0.460	92.555	5.433	0.313	0.009	0.014	0.002	0.001	0.001
08/08/2019	1,043.1	1,024.9	0.591	1,356.99	-86.30	1.117	0.369	93.256	4.854	0.355	0.016	0.025	0.004	0.003	0.001
08/09/2019	1,044.0	1,025.8	0.591	1,357.48	-88.50	1.027	0.432	93.166	4.985	0.358	0.013	0.017	0.001	0.001	0
08/10/2019	1,043.6	1,025.5	0.591	1,357.20	-89.55	0.999	0.455	93.144	5.078	0.304	0.008	0.011	0.001	0	0
08/11/2019	1,046.1	1,027.9	0.594	1,357.81	-86.07	1.032	0.473	92.802	5.306	0.344	0.012	0.022	0.004	0.004	0.001

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08/12/2019	1,043.7	1,025.6	0.592	1,356.17	-88.32	1.078	0.461	92.937	5.209	0.288	0.009	0.014	0.002	0.002	0.001
08/13/2019	1,047.4	1,029.1	0.594	1,358.86	-74.79	1.048	0.446	92.839	5.162	0.415	0.022	0.046	0.008	0.010	0.004
08/14/2019	1,041.8	1,023.7	0.591	1,355.72	-89.72	1.070	0.432	93.275	4.895	0.305	0.009	0.012	0.001	0.001	0
08/15/2019	1,040.8	1,022.7	0.590	1,354.91	-91.35	1.068	0.446	93.304	4.918	0.251	0.006	0.007	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 = 66324