

Gas Quality Reports

LS145 - South Glavin

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5/13/2020 - 8/13/2020

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%)
05/13/2020	1,050.7	1,032.4	0.604	1,352.45	-71.95	1.821	0.394	90.918	6.169	0.605	0.030	0.046	0.007	0.006	0.006
05/14/2020	1,050.7	1,032.4	0.603	1,353.57	-132.18	1.795	0.348	90.999	6.239	0.536	0.025	0.038	0.007	0.006	0.006
05/15/2020	1,051.2	1,032.9	0.604	1,352.62	-131.19	2.028	0.264	90.627	6.418	0.587	0.024	0.037	0.006	0.005	0.005
05/16/2020	1,053.1	1,034.8	0.607	1,352.29	-69.81	1.885	0.437	90.462	6.401	0.724	0.030	0.046	0.006	0.005	0.005
05/17/2020	1,055.5	1,037.2	0.607	1,354.53	-70.14	1.744	0.482	90.339	6.655	0.695	0.028	0.043	0.006	0.005	0.005
05/18/2020	1,054.6	1,036.2	0.606	1,354.98	-72.48	1.731	0.436	90.567	6.506	0.681	0.026	0.040	0.005	0.004	0.004
05/19/2020	1,054.6	1,036.2	0.606	1,354.60	-66.25	1.743	0.448	90.587	6.481	0.602	0.051	0.045	0.033	0.006	0.005
05/20/2020	1,055.3	1,037.0	0.606	1,355.70	-129.48	1.708	0.435	90.404	6.776	0.628	0.018	0.023	0.003	0.001	0.003
05/21/2020	1,047.6	1,029.4	0.603	1,349.61	-134.03	2.001	0.334	90.835	6.279	0.509	0.015	0.019	0.003	0.001	0.003
05/22/2020	1,049.2	1,031.0	0.602	1,352.59	-133.45	1.929	0.269	90.978	6.242	0.537	0.016	0.022	0.003	0.001	0.004
05/23/2020	1,047.3	1,029.1	0.597	1,354.93	-136.18	1.712	0.222	91.810	5.717	0.489	0.017	0.022	0.004	0.003	0.005
05/24/2020	1,048.1	1,029.9	0.598	1,355.44	-135.53	1.710	0.220	91.758	5.737	0.519	0.019	0.024	0.005	0.003	0.005
05/25/2020	1,048.3	1,030.0	0.598	1,355.30	-135.47	1.711	0.233	91.652	5.881	0.465	0.018	0.025	0.005	0.004	0.006
05/26/2020	1,049.6	1,031.3	0.599	1,355.65	-134.51	1.642	0.300	91.518	5.980	0.503	0.020	0.024	0.005	0.003	0.005
05/27/2020	1,053.4	1,035.1	0.604	1,355.85	-72.97	1.776	0.322	90.754	6.514	0.559	0.022	0.034	0.007	0.006	0.006
05/28/2020	1,052.7	1,034.3	0.603	1,355.57	-131.61	1.780	0.311	90.816	6.488	0.549	0.019	0.026	0.004	0.003	0.004
05/29/2020	1,046.1	1,027.9	0.597	1,354.08	-137.05	1.663	0.264	91.943	5.630	0.446	0.018	0.022	0.005	0.003	0.006
05/30/2020	1,047.0	1,028.8	0.599	1,352.95	-135.77	1.865	0.221	91.457	5.946	0.465	0.016	0.020	0.004	0.002	0.005
05/31/2020	1,046.4	1,028.2	0.598	1,352.71	-136.29	1.890	0.198	91.517	5.900	0.453	0.014	0.018	0.003	0.001	0.005
06/01/2020	1,050.2	1,031.9	0.600	1,355.39	-133.47	1.823	0.214	91.254	6.119	0.529	0.019	0.028	0.005	0.003	0.005
06/02/2020	1,050.2	1,032.0	0.600	1,355.62	-133.44	1.817	0.207	91.301	6.062	0.554	0.020	0.026	0.005	0.003	0.005
06/03/2020	1,050.0	1,031.7	0.599	1,356.37	-133.53	1.788	0.176	91.540	5.846	0.568	0.025	0.038	0.007	0.005	0.007
06/04/2020	1,041.4	1,023.3	0.595	1,350.20	-138.84	1.933	0.150	92.301	5.046	0.493	0.022	0.034	0.007	0.006	0.008
06/05/2020	1,029.6	1,011.7	0.589	1,341.06	-147.61	1.954	0.264	93.307	4.103	0.313	0.016	0.026	0.006	0.005	0.007
06/06/2020	1,024.6	1,006.8	0.590	1,333.92	-149.64	2.147	0.370	93.238	3.903	0.280	0.016	0.026	0.006	0.006	0.008
06/07/2020	1,026.0	1,008.2	0.592	1,333.55	-148.00	2.183	0.412	92.901	4.123	0.325	0.015	0.025	0.005	0.004	0.007
06/08/2020	1,035.9	1,017.9	0.594	1,344.37	-141.79	2.008	0.248	92.556	4.686	0.417	0.028	0.035	0.008	0.006	0.009
06/09/2020	1,028.2	1,010.3	0.589	1,339.60	-148.34	2.064	0.225	93.337	3.993	0.321	0.019	0.024	0.006	0.004	0.007
06/10/2020	1,031.5	1,013.6	0.591	1,341.51	-145.84	2.049	0.238	92.919	4.388	0.354	0.018	0.022	0.005	0.003	0.006
06/11/2020	1,030.7	1,012.8	0.590	1,341.68	-146.84	2.022	0.221	93.105	4.267	0.333	0.017	0.022	0.005	0.003	0.005
06/12/2020	1,034.9	1,016.9	0.593	1,344.43	-142.70	2.040	0.191	92.757	4.491	0.437	0.029	0.034	0.007	0.005	0.008
06/13/2020	1,033.0	1,015.0	0.592	1,342.53	-144.42	1.987	0.268	92.909	4.340	0.429	0.022	0.029	0.006	0.004	0.007
06/14/2020	1,026.2	1,008.4	0.590	1,335.74	-148.96	2.056	0.380	93.237	3.952	0.323	0.015	0.022	0.005	0.004	0.007
06/15/2020	1,038.3	1,020.3	0.595	1,346.56	-140.91	1.956	0.238	92.329	4.989	0.431	0.019	0.024	0.005	0.003	0.006
06/16/2020	1,041.5	1,023.4	0.599	1,345.92	-137.94	1.919	0.397	91.676	5.479	0.473	0.019	0.026	0.004	0.003	0.004
06/17/2020	1,040.6	1,022.4	0.597	1,346.37	-138.68	1.919	0.342	91.953	5.239	0.480	0.021	0.030	0.005	0.004	0.005
06/18/2020	1,028.7	1,010.8	0.593	1,335.81	-146.17	2.032	0.470	92.838	4.235	0.352	0.019	0.032	0.007	0.006	0.008
06/19/2020	1,042.7	1,024.6	0.594	1,353.01	-73.14	1.446	0.357	92.873	4.696	0.524	0.030	0.048	0.009	0.008	0.009
06/20/2020	1,064.3	1,045.7	0.607	1,365.65	-54.84	1.310	0.426	90.503	6.907	0.704	0.040	0.073	0.014	0.013	0.011
06/21/2020	1,025.9	1,008.1	0.611	1,312.94	-39.21	4.355	0.137	89.607	4.709	0.899	0.069	0.146	0.029	0.029	0.019
06/22/2020	1,034.3	1,016.3	0.599	1,336.09	-45.57	2.713	0.187	91.654	4.687	0.594	0.040	0.070	0.016	0.016	0.024
06/23/2020	1,028.9	1,011.0	0.591	1,337.95	-79.65	2.125	0.297	93.134	3.928	0.411	0.026	0.049	0.010	0.010	0.010
06/24/2020	1,027.5	1,009.6	0.590	1,337.24	-147.17	2.137	0.284	93.266	3.816	0.414	0.023	0.038	0.008	0.007	0.008

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06/25/2020	1,033.7	1,015.7	0.593	1,342.34	-142.59	2.087	0.235	92.779	4.310	0.496	0.026	0.043	0.008	0.007	0.008
06/26/2020	1,026.0	1,008.2	0.588	1,337.93	-149.43	2.167	0.182	93.500	3.753	0.329	0.020	0.029	0.006	0.005	0.007
06/27/2020	1,034.9	1,016.9	0.595	1,341.96	-141.42	2.069	0.306	92.514	4.504	0.517	0.027	0.043	0.007	0.006	0.007
06/28/2020	1,038.2	1,020.1	0.594	1,346.77	-79.91	1.899	0.258	92.678	4.482	0.585	0.030	0.045	0.008	0.006	0.008
06/29/2020	1,039.2	1,021.1	0.592	1,350.65	-78.67	1.729	0.189	93.125	4.254	0.602	0.032	0.045	0.009	0.006	0.009
06/30/2020	1,025.2	1,007.3	0.589	1,336.35	-149.32	2.255	0.183	93.456	3.653	0.387	0.019	0.030	0.005	0.004	0.007
07/01/2020	1,023.6	1,005.8	0.589	1,333.68	-149.81	2.440	0.159	93.253	3.711	0.382	0.017	0.026	0.004	0.003	0.005
07/02/2020	1,015.1	997.5	0.587	1,325.03	-157.05	2.334	0.430	93.794	3.182	0.222	0.010	0.016	0.003	0.003	0.007
07/03/2020	1,017.8	1,000.1	0.584	1,331.79	-157.83	1.963	0.391	94.345	3.085	0.181	0.009	0.015	0.003	0.003	0.006
07/04/2020	1,020.4	1,002.7	0.587	1,331.83	-153.24	2.134	0.358	93.848	3.304	0.294	0.016	0.027	0.005	0.005	0.007
07/05/2020	1,012.9	995.2	0.585	1,324.52	-159.57	2.259	0.434	94.235	2.845	0.177	0.011	0.020	0.005	0.005	0.008
07/06/2020	1,010.7	993.2	0.585	1,321.56	-160.37	2.397	0.437	94.190	2.755	0.164	0.012	0.023	0.006	0.006	0.009
07/07/2020	1,022.6	1,004.8	0.588	1,333.13	-151.33	2.201	0.311	93.541	3.573	0.315	0.016	0.026	0.005	0.004	0.007
07/08/2020	1,033.7	1,015.7	0.594	1,340.76	-142.13	2.215	0.239	92.426	4.567	0.471	0.024	0.039	0.007	0.006	0.007
07/09/2020	1,014.6	996.9	0.586	1,325.67	-157.61	2.259	0.427	94.091	2.942	0.224	0.014	0.023	0.006	0.005	0.009
07/10/2020	1,023.8	1,006.0	0.589	1,333.68	-150.00	2.355	0.220	93.251	3.771	0.351	0.016	0.025	0.004	0.003	0.005
07/11/2020	1,023.6	1,005.8	0.589	1,333.27	-150.36	2.276	0.288	93.280	3.777	0.328	0.015	0.024	0.004	0.004	0.005
07/12/2020	1,031.4	1,013.5	0.594	1,338.78	-144.07	2.169	0.305	92.657	4.309	0.494	0.023	0.029	0.005	0.004	0.005
07/13/2020	1,023.0	1,005.2	0.589	1,333.43	-150.68	2.296	0.245	93.469	3.564	0.369	0.017	0.026	0.005	0.004	0.006
07/14/2020	1,019.8	1,002.0	0.590	1,327.92	-151.40	2.690	0.187	93.053	3.682	0.336	0.015	0.025	0.004	0.003	0.005
07/15/2020	1,018.6	1,000.9	0.589	1,327.64	-153.11	2.469	0.310	93.395	3.475	0.302	0.014	0.022	0.004	0.004	0.006
07/16/2020	1,023.8	1,006.0	0.590	1,333.14	-149.69	2.314	0.276	93.260	3.713	0.381	0.017	0.026	0.004	0.004	0.006
07/17/2020	1,016.0	998.3	0.586	1,327.60	-156.97	2.146	0.439	94.185	2.906	0.262	0.017	0.026	0.006	0.005	0.007
07/18/2020	1,028.9	1,011.0	0.592	1,337.58	-146.18	2.080	0.350	93.039	4.034	0.427	0.020	0.032	0.006	0.005	0.007
07/19/2020	1,034.2	1,016.2	0.596	1,339.64	-141.35	2.174	0.343	92.240	4.656	0.515	0.021	0.035	0.006	0.005	0.006
07/20/2020	1,032.7	1,014.7	0.597	1,337.03	-141.61	2.413	0.281	92.016	4.697	0.526	0.020	0.033	0.005	0.004	0.004
07/21/2020	1,025.9	1,008.0	0.592	1,332.80	-146.90	2.338	0.346	92.870	3.920	0.457	0.020	0.033	0.006	0.005	0.006
07/22/2020	1,019.1	1,001.3	0.590	1,327.05	-152.07	2.493	0.341	93.262	3.504	0.345	0.015	0.025	0.004	0.004	0.006
07/23/2020	1,021.9	1,004.1	0.591	1,329.33	-149.71	2.492	0.308	93.044	3.688	0.411	0.017	0.028	0.004	0.003	0.005
07/24/2020	1,012.9	995.3	0.587	1,321.64	-157.67	2.402	0.500	93.808	2.991	0.249	0.012	0.021	0.005	0.004	0.007
07/25/2020	1,025.6	1,007.7	0.592	1,332.56	-147.59	2.347	0.343	92.807	4.047	0.401	0.016	0.025	0.004	0.003	0.006
07/26/2020	1,024.7	1,006.9	0.592	1,331.89	-148.02	2.309	0.376	92.991	3.816	0.447	0.018	0.029	0.004	0.003	0.006
07/27/2020	1,036.0	1,017.9	0.595	1,342.81	-140.60	2.098	0.274	92.443	4.504	0.599	0.027	0.040	0.006	0.004	0.006
07/28/2020	1,032.3	1,014.4	0.595	1,338.75	-142.86	2.119	0.369	92.543	4.380	0.520	0.021	0.032	0.005	0.004	0.006
07/29/2020	1,041.1	1,022.9	0.599	1,344.92	-136.69	2.107	0.314	91.730	5.104	0.662	0.027	0.041	0.006	0.004	0.005
07/30/2020	1,038.4	1,020.3	0.601	1,339.18	-136.85	2.407	0.349	91.275	5.247	0.641	0.026	0.041	0.005	0.004	0.004
07/31/2020	1,035.6	1,017.6	0.597	1,340.75	-140.15	2.274	0.262	92.056	4.769	0.564	0.023	0.036	0.006	0.005	0.005
08/01/2020	1,035.8	1,017.8	0.598	1,339.03	-139.12	2.319	0.331	91.833	4.818	0.618	0.026	0.038	0.006	0.004	0.006
08/02/2020	1,026.0	1,008.2	0.599	1,326.23	-143.50	2.726	0.460	91.745	4.472	0.529	0.022	0.034	0.004	0.003	0.004
08/03/2020	1,030.2	1,012.2	0.596	1,333.87	-142.32	2.591	0.257	92.055	4.430	0.596	0.025	0.035	0.004	0.003	0.004
08/04/2020	1,024.6	1,006.8	0.592	1,331.89	-147.48	2.575	0.199	92.839	3.835	0.485	0.022	0.033	0.004	0.003	0.004
08/05/2020	1,026.3	1,008.4	0.595	1,330.24	-145.03	2.753	0.227	92.128	4.356	0.472	0.020	0.031	0.004	0.003	0.005
08/06/2020	1,052.0	1,033.7	0.606	1,351.20	-71.28	2.448	0.094	90.019	6.680	0.687	0.023	0.036	0.005	0.004	0.005

TSP Name: Southern Star Central Gas Pipeline, Inc.

CSI048

TSP: 007906233

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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%)
08/07/2020	1,020.0	1,002.3	0.588	1,329.65	-153.01	2.231	0.401	93.520	3.537	0.261	0.012	0.022	0.004	0.004	0.007
08/08/2020	1,050.5	1,032.2	0.605	1,350.05	-69.03	2.366	0.160	90.378	6.232	0.782	0.028	0.040	0.005	0.004	0.006
08/09/2020	1,055.7	1,037.3	0.605	1,357.47	-61.31	2.009	0.149	90.733	6.090	0.911	0.037	0.050	0.008	0.005	0.008
08/10/2020	1,049.5	1,031.2	0.602	1,353.14	-68.09	2.101	0.131	91.113	5.885	0.683	0.028	0.038	0.007	0.005	0.009
08/11/2020	1,050.7	1,032.4	0.604	1,352.08	-131.20	2.341	0.071	90.413	6.491	0.623	0.020	0.029	0.004	0.003	0.005

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 = 53881