

1REPORT R699660 PUBLIC SERVICE COMPANY OF COLORADO PUC_Reports_Q2-2019.txt DATE RUN: 03/18/2019 TIME RUN: 14:07:01 BTU ZONES ENERGY FACTORS SECOND QUARTER, 2019 - HEATING VALUE (BTU/CF, 14.73 PSIA, 60 F, DRY) - ENERGY FACTOR BTU ZONE DECEMBER JANUARY FEBRUARY QTR AVG 0 BRUSH 1108.2 1102.8 1110.7 1107.2 1.1072 DENVER 1065.3 1062.3 1060.7 1062.8 1.0628 GRAND JUNCTION 1048.2 1037.6 1027.1 1037.6 1.0376 GREASEWOOD 1049.2 1024.3 1024.3 1032.6 1.0326 MERINO 1049.4 1049.8 1049.2 1049.5 1.0495 MOUNTAIN 1057.0 1052.1 1053.4 1054.2 1.0542 NORTHERN 1116.0 1117.1 1107.8 1113.6 1.1136 PUEBLO 972.3 973.6 975.2 973.7 0.9737 RIFLE-VAIL 1035.7 1038.1 1037.2 1037.0 1.0369 SOUTHERN 968.0 961.9 955.9 961.9 0.9620 STERLING 1006.2 1007.2 1020.6 1011.3 1.0113 - The numbers under the "Energy Factor" column are incorporated in the tariffs but are not calculated directly from the numbers under the "Qtr Avg" column. 0 The "Qtr Avg" numbers are used solely to validate the "Energy Factor" calculation, and there may be slight differences between the last digits of the numbers under the "Energy Factor" and the "Qtr Avg" columns. 0 The "Energy Factor" for each Btu Zone is calculated from data in the attached work papers by (1) averaging the monthly gas compositions for the measurement quarter*, (2) calculating the heating value corresponding to the resulting quarterly average composition, and (3) taking one thousandth of the resulting average heating value. The heating values under the "Qtr Avg" column are the averages of the three monthly average heating values in the measurement quarter. Each monthly heating value is calculated from the average gas composition in a given month.** - *The measurement quarter is the three months immediately to the left of "Qtr Avg" column on this summary page 0 **For Zones with multiple measurement sites, the average gas composition is weighted according to the corresponding gas volumes.

1REPORT R699680 PUBLIC SERVICE COMPANY OF COLORADO DATE RUN: 03/18/2019 TIME RUN: 14:07:01 BTU ZONE SUMMARY HEATING VALUES REPORT SECOND QUARTER, 2019 0 BTU ZONE: BRUSH 0 SITE ID SAMPLING SITE NAME NET FLOW HV (BTU/CF, 14.73 PSIA, 60 F, DRY) VOLUME (MCF AT 14.73 PSIA) DECEMBER JANUARY FEBRUARY 0 CIGBRU CIG BRUSH TOWN BORDER IN 1108.2 1102.8 1110.7 40,518 40,222 40,466 0 VOLUME WEIGHTED HEATING VALUE: 1108.2 1102.8 1110.7 TOTAL VOL: 40,518 40,222 40,466 0 QUARTER AVERAGE HEATING VALUE: 1107.2 - DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.

1REPORT R69629Z0 PUBLIC SERVICE COMPANY OF COLORADO DATE RUN: 03/18/2019 TIME RUN: 14:07:01 2018 0 ZONE NAME: BRUSH - MTH: JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC AVG MIN MAX CO2 1.881 1.630 1.734 1.707 1.489 1.470 1.323 1.397 1.480 1.883 1.915 1.965 1.760 1.323 1.965 OXYGEN 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 NITROGEN 1.024 1.522 1.301 1.262 1.591 1.787 2.021 1.905 1.972 1.180 1.098 1.010 1.295 1.010 2.021 METHANE 85.012 87.188 86.134 86.142 87.660 88.125 89.082 88.656 88.229 85.164 85.049 84.223 85.964 84.223 89.082 ETHANE 10.068 7.376 8.475 8.907 7.313 6.478 5.637 6.064 6.069 9.111 9.700 10.297 8.742 5.637 10.297 PROPANE 1.525 1.721 1.758 1.458 1.430 1.550 1.389 1.399 1.595 1.927 1.602 1.820 1.646 1.389 1.927 I-BUTANE 0.139 0.170 0.168 0.142 0.148 0.165 0.156 0.162 0.186 0.195 0.162 0.176 0.163 0.139 0.195 N-BUTANE 0.245 0.278 0.294 0.252 0.250 0.279 0.251 0.268 0.295 0.359 0.310 0.341 0.290 0.245 0.359 I-PENTANE 0.041 0.048 0.052 0.048 0.047 0.057 0.054 0.058 0.065 0.067 0.059 0.061 0.053 0.041 0.067 N-PENTANE 0.026 0.026 0.039 0.039 0.035 0.044 0.040 0.035 0.048 0.061 0.056 0.058 0.042 0.026 0.061 HEXANES+ 0.039 0.041 0.045 0.043 0.037 0.045 0.047 0.056 0.061 0.053 0.049 0.049 0.045 0.037 0.061 TOTAL 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 N2/O2

PUC_Reports_Q2-2019.txt																
%INERTS	2.905	3.152	3.035	2.969	3.080	3.257	3.344	3.302	3.452	3.063	3.013	2.975	3.054	2.905	3.452	
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
VOL(MMCF)	40.6	37.5	26.0	20.8	10.7	7.8	7.4	7.8	7.8	16.6	30.8	40.5	21.2	7.4	40.6	
HIGH BTU/CF	1097.7	1079.1	1090.4	1088.0	1073.9	1069.5	1058.7	1063.3	1066.9	1101.1	1098.8	1108.2	1090.4	1058.7	1108.2	
LOW BTU/CF	992.1	974.8	985.2	983.1	969.9	965.8	955.8	960.1	963.5	995.3	993.1	1001.8	985.3	955.8	1001.8	
SPEC GRAV	0.6491	0.6385	0.6450	0.6426	0.6336	0.6326	0.6258	0.6288	0.6331	0.6530	0.6511	0.6570	0.6454	0.6258	0.6570	
WOBBE INDEX	1362.5	1350.5	1357.7	1357.2	1349.1	1344.7	1338.3	1340.9	1340.9	1362.6	1361.7	1367.2	1357.3	1338.3	1367.2	
LIQ GAL/MCF	0.583	0.661	0.683	0.577	0.566	0.624	0.566	0.580	0.659	0.776	0.654	0.730	0.651	0.566	0.776	

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1REPORT R69629Z0 PUBLIC SERVICE COMPANY OF COLORADO 2019 VOLUME WEIGHTED DATE RUN: 03/18/2019 TIME RUN: 14:07:01

0 ZONE NAME: BRUSH

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.924	2.024											1.974	1.924	2.024
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	1.030	0.902											0.966	0.902	1.030
METHANE	84.620	84.047											84.332	84.047	84.620
ETHANE	10.113	10.334											10.224	10.113	10.334
PROPANE	1.702	2.048											1.876	1.702	2.048
I-BUTANE	0.167	0.180											0.174	0.167	0.180
N-BUTANE	0.324	0.350											0.337	0.324	0.350
I-PENTANE	0.059	0.058											0.058	0.058	0.059
N-PENTANE	0.056	0.056											0.056	0.056	0.056
HEXANES+	0.005	0.001											0.003	0.001	0.005
TOTAL	100.00	100.00											100.00		

N2/O2															
%INERTS	2.954	2.926													

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	40.2	40.5													
HIGH BTU/CF	1102.8	1110.7													
LOW BTU/CF	996.9	1004.2													
SPEC GRAV	0.6531	0.6584													
WOBBE INDEX	1364.6	1368.8													
LIQ GAL/MCF	0.669	0.775													

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1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO 2018 VOLUME WEIGHTED DATE RUN: 03/18/2019 TIME RUN: 14:07:01

0 SITE ID: CIGBRU SITE NAME: CIG BRUSH TOWN BORDER DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1359 DATA SOURCE: CIG
AIR BLENDED: N

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.881	1.630	1.734	1.707	1.489	1.470	1.323	1.397	1.480	1.883	1.915	1.965	1.760	1.323	1.965
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	1.024	1.522	1.301	1.262	1.591	1.787	2.021	1.905	1.972	1.180	1.098	1.010	1.295	1.010	2.021
METHANE	85.012	87.188	86.134	86.142	87.660	88.125	89.082	88.656	88.229	85.164	85.049	84.223	85.964	84.223	89.082
ETHANE	10.068	7.376	8.475	8.907	7.313	6.478	5.637	6.064	6.069	9.111	9.700	10.297	8.742	5.637	10.297
PROPANE	1.525	1.721	1.758	1.458	1.430	1.550	1.389	1.399	1.595	1.927	1.602	1.820	1.646	1.389	1.927
I-BUTANE	0.139	0.170	0.168	0.142	0.148	0.165	0.156	0.162	0.186	0.195	0.162	0.176	0.163	0.139	0.195
N-BUTANE	0.245	0.278	0.294	0.252	0.250	0.279	0.251	0.268	0.295	0.359	0.310	0.341	0.290	0.245	0.359

PUC_Reports_Q2-2019.txt															
I-PENTANE	0.041	0.048	0.052	0.048	0.047	0.057	0.054	0.058	0.065	0.067	0.059	0.061	0.053	0.041	0.067
N-PENTANE	0.026	0.026	0.039	0.039	0.035	0.044	0.040	0.035	0.048	0.061	0.056	0.058	0.042	0.026	0.061
HEXANES+	0.039	0.041	0.045	0.043	0.037	0.045	0.047	0.056	0.061	0.053	0.049	0.049	0.045	0.037	0.061
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
N2/O2															
%INERTS	2.905	3.152	3.035	2.969	3.080	3.257	3.344	3.302	3.452	3.063	3.013	2.975	3.054	2.905	3.452
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	40.6	37.5	26.0	20.8	10.7	7.8	7.4	7.8	7.8	16.6	30.8	40.5	21.2	7.4	40.6
HIGH BTU/CF	1097.7	1079.1	1090.4	1088.0	1073.9	1069.5	1058.7	1063.3	1066.9	1101.1	1098.8	1108.2	1090.4	1058.7	1108.2
LOW BTU/CF	992.1	974.8	985.2	983.1	969.9	965.8	955.8	960.1	963.5	995.3	993.1	1001.8	985.3	955.8	1001.8
SPEC GRAV	0.6491	0.6385	0.6450	0.6426	0.6336	0.6326	0.6258	0.6288	0.6331	0.6530	0.6511	0.6570	0.6454	0.6258	0.6570
WOBBE INDEX	1362.5	1350.5	1357.7	1357.2	1349.1	1344.7	1338.3	1340.9	1340.9	1362.6	1361.7	1367.2	1357.3	1338.3	1367.2
%DIF	0.3	-0.6	-0.1	-0.1	-0.7	-1.1	-1.5	-1.3	-1.3	0.3	0.2	0.6	-0.1	-1.5	0.6
LIQ GAL/MCF	0.583	0.661	0.683	0.577	0.566	0.624	0.566	0.580	0.659	0.776	0.654	0.730	0.651	0.566	0.776
H2O LB/MMCF													*	*	*
H2S PPMV													*	*	*
O2 PPMV													*	*	*
01REPORT R69629S1													VOLUME WEIGHTED		
PUBLIC SERVICE COMPANY OF COLORADO													DATE RUN: 03/18/2019		
2019													TIME RUN: 14:07:02		
SITE ID: CIGBRU													ONLINE GAS CHROMATOGRAPH		
SITE NAME: CIG BRUSH TOWN BORDER													DATA TYPE: AVG		
TARGET WOBBE: 1359													DATA SOURCE: CIG		
AIR BLENDED: N															
0MTH: JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC													AVG	MIN	MAX
CO2	1.924	2.024											1.974	1.924	2.024
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	1.030	0.902											0.966	0.902	1.030
METHANE	84.620	84.047											84.332	84.047	84.620
ETHANE	10.113	10.334											10.224	10.113	10.334
PROPANE	1.702	2.048											1.876	1.702	2.048
I-BUTANE	0.167	0.180											0.174	0.167	0.180
N-BUTANE	0.324	0.350											0.337	0.324	0.350
I-PENTANE	0.059	0.058											0.058	0.058	0.059
N-PENTANE	0.056	0.056											0.056	0.056	0.056
HEXANES+	0.005	0.001											0.003	0.001	0.005
TOTAL	100.00	100.00											100.00		
N2/O2															
%INERTS	2.954	2.926											2.940	2.926	2.954
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	40.2	40.5											40.4	40.2	40.5
HIGH BTU/CF	1102.8	1110.7											1106.8	1102.8	1110.7
LOW BTU/CF	996.9	1004.2											1000.6	996.9	1004.2
SPEC GRAV	0.6531	0.6584											0.6558	0.6531	0.6584
WOBBE INDEX	1364.6	1368.8											1366.7	1364.6	1368.8
%DIF	0.4	0.7											0.6	0.4	0.7
LIQ GAL/MCF	0.669	0.775											0.722	0.669	0.775

H2O LB/MMCF
H2S PPMV
O2 PPMV

*	*	*
*	*	*
*	*	*

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1REPORT R699680

PUBLIC SERVICE COMPANY OF COLORADO
BTU ZONE SUMMARY HEATING VALUES REPORT
SECOND QUARTER, 2019

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:02

BTU ZONE: DENVER									
SITE ID	SAMPLING SITE NAME	NET FLOW	HV (BTU/CF, 14.73 PSIA, 60 F, DRY)			VOLUME (MCF AT 14.73 PSIA)			
			DECEMBER	JANUARY	FEBRUARY	DECEMBER	JANUARY	FEBRUARY	
AMSO	WGR SOUTH (WATTENBERG)	IN	0.0	0.0	0.0	0	0	0	
CIGEDE	CIG EAST DENVER CONTROL	IN	1061.8	1061.7	1063.3	4,015,237	3,606,177	3,939,998	
CIGMES	CIG MESA PURCHASE POINT	IN	0.0	1061.7	1062.8	0	52,588	24,748	
CIGQUN	CIG EAST QUINCY	IN	1061.9	1066.4	1067.0	959,957	959,184	928,030	
CIGWHP	CIG WHISPERING PINES	IN	1062.0	1065.6	1065.6	4,010,193	3,993,827	3,958,952	
DERH	HIGH PLAINS DERBY LAKE	IN	1065.3	1057.1	1056.2	2,460,662	4,708,936	4,032,310	
MARE	MARSHALL CS EAST	IN	1052.4	0.0	0.0	58	0	0	
MARW	MARSHALL CS WEST	OUT	1058.8	1055.6	1050.6	-802,030	-806,277	-692,536	
YONO	YOSEMITE NORTH OUTLET	IN	1077.7	1071.1	1065.9	4,489,778	3,742,141	3,636,324	
YOSO	YOSEMITE SOUTH OUTLET	IN	1058.0	1053.6	1048.5	4,366,797	3,486,630	3,523,572	
VOLUME WEIGHTED HEATING VALUE:			1065.2	1062.2	1060.7	TOTAL VOL:	19,500,652	19,743,206	19,351,398
QUARTER AVERAGE HEATING VALUE:			1062.7						

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1REPORT R69629Z0

DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.
PUBLIC SERVICE COMPANY OF COLORADO
2018

DATE RUN: 03/18/2019
TIME RUN: 14:07:02

ZONE NAME: DENVER																
	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2		1.929	1.911	1.936	1.904	1.875	1.920	1.921	2.028	2.000	1.993	2.112	2.055	1.975	1.875	2.112
OXYGEN		1.150	1.103	1.169	1.166	1.164	1.199	1.185	1.243	1.270	1.225	0.998	1.027	1.123	0.998	1.270
NITROGEN		4.978	4.904	5.153	5.185	5.194	5.406	5.128	5.355	5.383	5.444	5.165	5.310	5.164	4.904	5.444
METHANE		78.707	79.021	78.143	78.480	78.907	78.117	78.747	77.655	77.525	77.040	77.726	76.974	78.077	76.974	79.021
ETHANE		11.731	11.587	12.011	11.527	10.668	10.995	11.273	11.430	11.448	11.810	11.628	12.233	11.696	10.668	12.233
PROPANE		1.187	1.165	1.248	1.352	1.691	1.856	1.372	1.783	1.820	1.860	1.777	1.788	1.509	1.165	1.860
I-BUTANE		0.088	0.086	0.093	0.105	0.134	0.135	0.099	0.131	0.143	0.153	0.150	0.153	0.119	0.086	0.153
N-BUTANE		0.173	0.167	0.185	0.213	0.276	0.276	0.202	0.274	0.300	0.335	0.322	0.333	0.248	0.167	0.335
I-PENTANE		0.024	0.023	0.025	0.029	0.039	0.040	0.030	0.041	0.045	0.054	0.052	0.054	0.037	0.023	0.054
N-PENTANE		0.023	0.022	0.025	0.029	0.038	0.040	0.030	0.042	0.045	0.057	0.055	0.057	0.038	0.022	0.057
HEXANES+		0.010	0.011	0.012	0.010	0.014	0.016	0.013	0.018	0.021	0.029	0.015	0.016	0.014	0.010	0.029
TOTAL		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
N2/O2		4.329	4.446	4.408	4.447	4.462	4.509	4.327	4.308	4.239	4.444	5.175	5.170	4.619	4.239	5.175
%INERTS		8.057	7.918	8.258	8.255	8.233	8.525	8.234	8.626	8.653	8.662	8.275	8.392	8.262	7.918	8.662
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																
VOL(MMCF)		18365.0	18161.1	12647.3	9562.5	5355.4	3638.2	3625.8	3653.5	4080.6	9474.0	15637.7	19500.7	10308.5	3625.8	19500.7
HIGH BTU/CF		1048.4	1048.2	1050.0	1049.0	1050.6	1052.8	1047.3	1054.0	1055.6	1060.9	1061.2	1065.3	1054.4	1047.3	1065.3
LOW BTU/CF		947.8	947.5	949.3	948.4	949.9	952.0	946.8	953.2	954.7	959.7	959.8	963.7	953.5	946.8	963.7
SPEC GRAV		0.6741	0.6723	0.6773	0.6765	0.6771	0.6819	0.6753	0.6844	0.6856	0.6891	0.6855	0.6890	0.6804	0.6723	0.6891
WOBBE INDEX		1276.9	1278.4	1275.8	1275.4	1276.8	1274.9	1274.4	1274.0	1274.9	1278.0	1281.7	1283.4	1278.3	1274.0	1283.4
LIQ GAL/MCF		0.431	0.423	0.456	0.499	0.630	0.678	0.501	0.658	0.684	0.720	0.685	0.694	0.566	0.423	0.720

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1REPORT R69629Z0

PUBLIC SERVICE COMPANY OF COLORADO
2019

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:03

ZONE NAME: DENVER															
MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	2.119	2.116											2.118	2.116	2.119
OXYGEN	1.020	0.995											1.008	0.995	1.020
NITROGEN	5.214	5.140											5.177	5.140	5.214
METHANE	77.395	77.876											77.632	77.395	77.876
ETHANE	11.890	11.446											11.670	11.446	11.890
PROPANE	1.765	1.837											1.801	1.765	1.837
I-BUTANE	0.151	0.153											0.152	0.151	0.153
N-BUTANE	0.326	0.327											0.326	0.326	0.327
I-PENTANE	0.052	0.049											0.051	0.049	0.052
N-PENTANE	0.054	0.050											0.052	0.050	0.054
HEXANES+	0.014	0.011											0.013	0.011	0.014
TOTAL	100.00	100.00											100.00		
N2/O2	5.112	5.166											5.139	5.112	5.166
%INERTS	8.353	8.251											8.303	8.251	8.353
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	19743.2	19351.4											19547.3	19351.4	19743.2
HIGH BTU/CF	1062.3	1060.7											1061.5	1060.7	1062.3
LOW BTU/CF	960.8	959.3											960.1	959.3	960.8
SPEC GRAV	0.6870	0.6849											0.6860	0.6849	0.6870
WOBBE INDEX	1281.6	1281.7											1281.6	1281.6	1281.7
LIQ GAL/MCF	0.683	0.700											0.691	0.683	0.700

VOLUME WEIGHTED															
REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO DATE RUN: 03/18/2019															
2018 TIME RUN: 14:07:03															
SITE ID: AMSO			SITE NAME: WGR SOUTH (WATTENBERG)				DATA TYPE: AVG				CALCULATED GAS COMPOSITION				
			TARGET WOBBE: 1207				DATA SOURCE: HPG BRIGHTON								
			AIR BLENDED: Y												
MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
NITROGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
METHANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
ETHANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
PROPANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
I-BUTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
N-BUTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
I-PENTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
N-PENTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
HEXANES+	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		
N2/O2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*	*	*
%INERTS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*	*	*
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*
HIGH BTU/CF													*	*	*
LOW BTU/CF													*	*	*

PUC_Reports_Q2-2019.txt													*	*	*
SPEC GRAV													*	*	*
WOBBE INDEX													*	*	*
%DIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*
LIQ GAL/MCF													*	*	*
H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*
H2S PPMV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*
O2 PPMV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*
0													STRAIGHT AVERAGED		
1	REPORT R69629S1												DATE RUN: 03/18/2019		
	PUBLIC SERVICE COMPANY OF COLORADO												TIME RUN: 14:07:03		
	2019														
0	SITE ID: AMSO SITE NAME: WGR SOUTH (WATTENBERG) DATA TYPE: AVG CALCULATED GAS COMPOSITION														
	TARGET WOBBE: 1207 DATA SOURCE: HPG BRIGHTON														
	AIR BLENDED: Y														
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.000	0.000											0	*	*
OXYGEN	0.000	0.000											0	*	*
NITROGEN	0.000	0.000											0	*	*
METHANE	0.000	0.000											0	*	*
ETHANE	0.000	0.000											0	*	*
PROPANE	0.000	0.000											0	*	*
I-BUTANE	0.000	0.000											0	*	*
N-BUTANE	0.000	0.000											0	*	*
I-PENTANE	0.000	0.000											0	*	*
N-PENTANE	0.000	0.000											0	*	*
HEXANES+	0.000	0.000											0	*	*
TOTAL	0.00	0.00											100.00		
N2/O2													*	*	*
%INERTS	0.000	0.000													
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	.0	.0											.0		
HIGH BTU/CF													*	*	*
LOW BTU/CF													*	*	*
SPEC GRAV													*	*	*
WOBBE INDEX													*	*	*
%DIF	0.0	0.0											*	*	*
LIQ GAL/MCF													*	*	*
H2O LB/MMCF	0.0	0.0											*	*	*
H2S PPMV	0.0	0.0											*	*	*
O2 PPMV	0.0	0.0											*	*	*
0													STRAIGHT AVERAGED		
1	REPORT R69629S1												DATE RUN: 03/18/2019		
	PUBLIC SERVICE COMPANY OF COLORADO												TIME RUN: 14:07:03		
	2018														
0	SITE ID: CIGEDE SITE NAME: CIG EAST DENVER CONTROL DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH														
	TARGET WOBBE: 1275 DATA SOURCE: CIG														
	AIR BLENDED: Y														
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	2.027	2.012	2.008	1.961	1.866	1.956	1.921	1.983	1.935	2.022	2.096	2.090	2.018	1.866	2.096
OXYGEN	1.266	1.234	1.257	1.271	1.301	1.360	1.456	1.580	1.571	1.442	1.387	1.442	1.364	1.234	1.580

PUC_Reports_Q2-2019.txt																
NITROGEN	5.321	5.345	5.484	5.607	5.825	6.247	5.888	6.080	6.081	5.647	5.465	5.699	5.612	5.321	6.247	
METHANE	77.854	78.094	77.309	77.299	77.320	76.437	77.096	75.946	76.101	76.372	76.878	76.113	76.964	75.946	78.094	
ETHANE	10.894	10.705	11.306	11.244	10.759	11.118	11.002	11.513	11.425	11.627	11.341	11.654	11.257	10.705	11.654	
PROPANE	2.073	2.052	2.057	2.007	2.212	2.164	1.976	2.162	2.165	2.192	2.192	2.327	2.144	1.976	2.327	
I-BUTANE	0.156	0.155	0.159	0.164	0.189	0.186	0.169	0.185	0.184	0.178	0.172	0.183	0.171	0.155	0.189	
N-BUTANE	0.308	0.303	0.319	0.335	0.394	0.391	0.358	0.398	0.391	0.375	0.351	0.373	0.350	0.303	0.398	
I-PENTANE	0.042	0.041	0.043	0.047	0.056	0.058	0.054	0.061	0.059	0.057	0.052	0.053	0.050	0.041	0.061	
N-PENTANE	0.041	0.040	0.042	0.046	0.056	0.058	0.055	0.063	0.060	0.059	0.053	0.053	0.050	0.040	0.063	
HEXANES+	0.018	0.019	0.016	0.019	0.022	0.025	0.025	0.029	0.028	0.029	0.013	0.013	0.020	0.013	0.029	
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00			
N2/O2	4.203	4.331	4.363	4.411	4.477	4.593	4.044	3.848	3.871	3.916	3.940	3.952	4.127	3.848	4.593	
%INERTS	8.614	8.591	8.749	8.839	8.992	9.563	9.265	9.643	9.587	9.111	8.948	9.231	8.994	8.591	9.643	
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																
VOL(MMCF)	3346.8	3209.4	2731.3	2327.8	1196.7	886.8	945.8	1241.3	1438.7	3592.2	4190.5	4015.2	2426.9	886.8	4190.5	
HIGH BTU/CF	1055.8	1054.1	1057.6	1056.3	1056.7	1053.0	1051.0	1055.8	1055.4	1061.6	1059.5	1061.8	1057.7	1051.0	1061.8	
LOW BTU/CF	954.8	953.2	956.6	955.4	955.8	952.6	950.6	955.2	954.8	960.5	958.4	960.7	956.7	950.6	960.7	
SPEC GRAV	0.6855	0.6840	0.6880	0.6878	0.6893	0.6936	0.6890	0.6967	0.6955	0.6948	0.6920	0.6965	0.6908	0.6840	0.6967	
WOBBE INDEX	1275.2	1274.5	1275.1	1273.7	1272.8	1264.4	1266.2	1264.9	1265.5	1273.6	1273.6	1272.3	1272.5	1264.4	1275.2	
%DIF	0.0	0.0	0.0	-0.1	-0.2	-0.8	-0.7	-0.8	-0.7	-0.1	-0.1	-0.2	-0.2	-0.8	0.0	
LIQ GAL/MCF	0.757	0.749	0.757	0.754	0.845	0.833	0.762	0.839	0.835	0.834	0.814	0.862	0.801	0.749	0.862	
H2O LB/MMCF													*	*	*	
H2S PPMV													*	*	*	
O2 PPMV										0.3	1.4	1.4	0.4	0.3	1.4	
VOLUME WEIGHTED																
0	PUBLIC SERVICE COMPANY OF COLORADO													DATE RUN: 03/18/2019		
1	REPORT R69629S1													TIME RUN: 14:07:03		
0	SITE ID: CIGEDE		SITE NAME: CIG EAST DENVER CONTROL				DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH							
			TARGET WOBBE: 1275													
			AIR BLENDED: Y													
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	
	CO2	2.154	2.096										2.124	2.096	2.154	
	OXYGEN	1.411	1.390										1.400	1.390	1.411	
	NITROGEN	5.630	5.596										5.612	5.596	5.630	
	METHANE	76.249	76.393										76.324	76.249	76.393	
	ETHANE	11.522	11.359										11.437	11.359	11.522	
	PROPANE	2.358	2.511										2.438	2.358	2.511	
	I-BUTANE	0.184	0.185										0.185	0.184	0.185	
	N-BUTANE	0.373	0.366										0.369	0.366	0.373	
	I-PENTANE	0.053	0.047										0.050	0.047	0.053	
	N-PENTANE	0.054	0.047										0.050	0.047	0.054	
	HEXANES+	0.012	0.010										0.011	0.010	0.012	
	TOTAL	100.00	100.00										100.00			
	N2/O2	3.990	4.026										4.009	3.990	4.026	
	%INERTS	9.195	9.082										9.136	9.082	9.195	
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																
	VOL(MMCF)	3606.2	3940.0										3773.1	3606.2	3940.0	
	HIGH BTU/CF	1061.7	1063.3										1062.5	1061.7	1063.3	
	LOW BTU/CF	960.5	962.0										961.3	960.5	962.0	

SPEC GRAV	0.6964	0.6958	0.6961	0.6958	0.6964
WOBBE INDEX	1272.2	1274.7	1273.5	1272.2	1274.7
%DIF	-0.2	0.0	-0.1	-0.2	0.0
LIQ GAL/MCF	0.871	0.906	0.889	0.871	0.906
-----			-----		
H2O LB/MMCF			*	*	*
H2S PPMV			*	*	*
O2 PPMV	1.4	1.4	1.4	1.4	1.4
-----			-----		

0
1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2018

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:03

0

SITE ID: CIGMES

SITE NAME: CIG MESA PURCHASE POINT

TARGET WOBBE: 1207

AIR BLENDED: Y

DATA TYPE: AVG

DATA SOURCE: CIG

ONLINE GAS CHROMATOGRAPH

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.998	2.003	1.994	1.932	1.855	1.963	1.907	1.983	1.922	2.001	0.000	0.000	1.975	1.855	2.003
OXYGEN	1.265	1.234	1.250	1.258	1.303	1.370	1.454	1.582	1.574	1.422	0.000	0.000	1.295	1.234	1.582
NITROGEN	5.340	5.350	5.456	5.565	5.832	6.277	5.925	6.085	6.098	5.605	0.000	0.000	5.533	5.340	6.277
METHANE	77.925	78.146	77.384	77.431	77.332	76.349	77.099	75.970	76.120	76.628	0.000	0.000	77.529	75.970	78.146
ETHANE	10.836	10.680	11.325	11.239	10.750	11.116	10.981	11.493	11.429	11.531	0.000	0.000	11.008	10.680	11.531
PROPANE	2.083	2.042	2.032	1.978	2.218	2.203	1.975	2.164	2.153	2.157	0.000	0.000	2.069	1.975	2.218
I-BUTANE	0.156	0.154	0.156	0.162	0.190	0.190	0.171	0.185	0.182	0.172	0.000	0.000	0.162	0.154	0.190
N-BUTANE	0.308	0.302	0.312	0.333	0.396	0.400	0.364	0.399	0.389	0.360	0.000	0.000	0.328	0.302	0.400
I-PENTANE	0.041	0.041	0.042	0.047	0.057	0.059	0.055	0.061	0.059	0.054	0.000	0.000	0.046	0.041	0.061
N-PENTANE	0.040	0.039	0.041	0.046	0.056	0.060	0.056	0.063	0.060	0.055	0.000	0.000	0.045	0.039	0.063
HEXANES+	0.008	0.009	0.008	0.009	0.011	0.013	0.013	0.015	0.014	0.015	0.000	0.000	0.010	0.008	0.015
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	100.00		
N2/O2	4.221	4.335	4.365	4.424	4.476	4.582	4.075	3.846	3.874	3.942			4.281	3.846	4.582
%INERTS	8.603	8.587	8.700	8.755	8.990	9.610	9.286	9.650	9.594	9.028	0.000	0.000	8.804	8.587	9.650

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)

VOL (MMCF)	43.2	42.0	29.9	20.1	9.7	6.3	6.5	6.1	6.6	6.5	.0	.0	17.7	6.1	43.2
HIGH BTU/CF	1055.1	1053.3	1057.3	1056.2	1056.4	1053.0	1050.4	1055.1	1054.6	1060.0			1055.2	1050.4	1060.0
LOW BTU/CF	954.2	952.5	956.3	955.3	955.6	952.6	950.0	954.6	954.0	958.9			954.3	950.0	958.9
SPEC GRAV	0.6848	0.6835	0.6871	0.6867	0.6890	0.6942	0.6888	0.6963	0.6950	0.6927			0.6869	0.6835	0.6963
WOBBE INDEX	1275.0	1274.0	1275.5	1274.6	1272.7	1263.8	1265.6	1264.4	1265.0	1273.6			1273.1	1263.8	1275.5
%DIF	5.6	5.6	5.7	5.6	5.4	4.7	4.9	4.8	4.8	5.5	0.0	0.0	5.5	4.7	5.7
LIQ GAL/MCF	0.755	0.741	0.743	0.740	0.844	0.844	0.760	0.834	0.824	0.810			0.763	0.740	0.844

H2O LB/MMCF											0.0	0.0	*	*	*
H2S PPMV											0.0	0.0	*	*	*
O2 PPMV											0.0	0.0	*	*	*

0
1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2019

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:04

0

SITE ID: CIGMES

SITE NAME: CIG MESA PURCHASE POINT

TARGET WOBBE: 1207

AIR BLENDED: Y

DATA TYPE: AVG

DATA SOURCE: CIG

ONLINE GAS CHROMATOGRAPH

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	2.145	2.054										2.116	2.054	2.145
	OXYGEN	1.408	1.395										1.404	1.395	1.408

NITROGEN	5.654	5.665	5.658	5.654	5.665
METHANE	76.208	76.317	76.242	76.208	76.317
ETHANE	11.544	11.444	11.512	11.444	11.544
PROPANE	2.369	2.479	2.404	2.369	2.479
I-BUTANE	0.185	0.183	0.184	0.183	0.185
N-BUTANE	0.375	0.365	0.372	0.365	0.375
I-PENTANE	0.053	0.047	0.051	0.047	0.053
N-PENTANE	0.053	0.046	0.051	0.046	0.053
HEXANES+	0.006	0.005	0.006	0.005	0.006
TOTAL	100.00	100.00	100.00		

N2/O2	4.016	4.061	4.030	4.016	4.061
%INERTS	9.207	9.114	9.177	9.114	9.207

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)					

VOL(MMCF)	52.6	24.7	38.7	24.7	52.6
HIGH BTU/CF	1061.7	1062.8	1062.1	1061.7	1062.8
LOW BTU/CF	960.6	961.6	960.9	960.6	961.6
SPEC GRAV	0.6965	0.6957	0.6962	0.6957	0.6965
WOBBE INDEX	1272.2	1274.2	1272.8	1272.2	1274.2
%DIF	5.4	5.6	5.5	5.4	5.6
LIQ GAL/MCF	0.872	0.894	0.879	0.872	0.894

H2O LB/MMCF			*	*	*
H2S PPMV			*	*	*
O2 PPMV			*	*	*

0
1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2018

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:04

0

SITE ID: CIGQUN SITE NAME: CIG EAST QUINCY

TARGET WOBBE: 1207 DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH

AIR BLENDED: Y DATA SOURCE: CIG

0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	2.031	2.032	1.998	1.966	1.860	1.869	0.000	0.000	0.000	2.024	2.088	2.065	2.027	1.860	2.088
	OXYGEN	1.197	1.119	1.199	1.232	1.313	1.472	0.000	0.000	0.000	1.314	1.283	1.355	1.243	1.119	1.472
	NITROGEN	5.295	5.183	5.402	5.557	5.684	5.963	0.000	0.000	0.000	5.627	5.527	5.890	5.499	5.183	5.963
	METHANE	77.791	78.114	77.303	77.152	77.294	76.613	0.000	0.000	0.000	76.457	76.787	75.923	77.119	75.923	78.114
	ETHANE	10.995	10.895	11.486	11.402	10.873	11.059	0.000	0.000	0.000	11.659	11.433	11.742	11.316	10.873	11.742
	PROPANE	2.125	2.095	2.051	2.071	2.257	2.327	0.000	0.000	0.000	2.225	2.239	2.360	2.180	2.051	2.360
	I-BUTANE	0.159	0.158	0.156	0.168	0.192	0.186	0.000	0.000	0.000	0.180	0.175	0.183	0.169	0.156	0.192
	N-BUTANE	0.312	0.306	0.312	0.344	0.399	0.387	0.000	0.000	0.000	0.375	0.354	0.370	0.339	0.306	0.399
	I-PENTANE	0.042	0.042	0.042	0.048	0.057	0.055	0.000	0.000	0.000	0.057	0.052	0.052	0.048	0.042	0.057
	N-PENTANE	0.041	0.040	0.040	0.047	0.056	0.054	0.000	0.000	0.000	0.059	0.052	0.051	0.047	0.040	0.059
	HEXANES+	0.012	0.016	0.011	0.013	0.015	0.015	0.000	0.000	0.000	0.023	0.010	0.009	0.013	0.009	0.023
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00		

	N2/O2	4.424	4.632	4.505	4.511	4.329	4.051				4.282	4.308	4.347	4.430	4.051	4.632
	%INERTS	8.523	8.334	8.599	8.755	8.857	9.304	0.000	0.000	0.000	8.965	8.898	9.310	8.769	8.334	9.310

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																

	VOL(MMCF)	906.0	900.1	602.8	457.2	235.2	17.8	.0	.0	.0	416.4	723.3	960.0	579.9	17.8	960.0
	HIGH BTU/CF	1058.2	1058.8	1060.0	1059.5	1059.7	1057.1				1063.7	1061.4	1061.9	1060.3	1057.1	1063.7
	LOW BTU/CF	957.0	957.6	958.8	958.4	958.6	956.3				962.3	960.2	960.8	959.1	956.3	962.3

										PUC_Reports_Q2-2019.txt						
SPEC GRAV	0.6860	0.6843	0.6878	0.6890	0.6898	0.6931				0.6943	0.6925	0.6972	0.6900	0.6843	0.6972	
WOBBE INDEX	1277.6	1279.9	1278.1	1276.4	1275.9	1269.7				1276.6	1275.5	1271.8	1276.4	1269.7	1279.9	
%DIF	5.8	6.0	5.9	5.7	5.7	5.2	0.0	0.0	0.0	5.8	5.7	5.4	5.7	5.2	6.0	
LIQ GAL/MCF	0.771	0.762	0.749	0.774	0.858	0.870				0.842	0.828	0.868	0.803	0.749	0.870	

H2O LB/MMCF							0.0	0.0	0.0				*	*	*	
H2S PPMV							0.0	0.0	0.0				*	*	*	
O2 PPMV							0.0	0.0	0.0				*	*	*	

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO VOLUME WEIGHTED
2019 DATE RUN: 03/18/2019
TIME RUN: 14:07:04

0 SITE ID: CIGQUN SITE NAME: CIG EAST QUINCY DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1207 DATA SOURCE: CIG
AIR BLENDED: Y

0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

CO2	2.148	2.124												2.136	2.124	2.148
OXYGEN	1.303	1.287												1.295	1.287	1.303
NITROGEN	5.480	5.475												5.478	5.475	5.480
METHANE	76.312	76.452												76.379	76.312	76.452
ETHANE	11.662	11.415												11.541	11.415	11.662
PROPANE	2.414	2.582												2.497	2.414	2.582
I-BUTANE	0.187	0.188												0.187	0.187	0.188
N-BUTANE	0.377	0.374												0.376	0.374	0.377
I-PENTANE	0.053	0.048												0.051	0.048	0.053
N-PENTANE	0.053	0.047												0.050	0.047	0.053
HEXANES+	0.011	0.008												0.010	0.008	0.011
TOTAL	100.00	100.00												100.00		

N2/O2	4.206	4.254														
%INERTS	8.931	8.886														

----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----

VOL(MMCF)	959.2	928.0														
HIGH BTU/CF	1066.4	1067.0														
LOW BTU/CF	964.8	965.4														
SPEC GRAV	0.6964	0.6961														
WOBBE INDEX	1277.9	1278.9														
%DIF	5.9	6.0														
LIQ GAL/MCF	0.888	0.928														

H2O LB/MMCF																
H2S PPMV																
O2 PPMV																

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO VOLUME WEIGHTED
2018 DATE RUN: 03/18/2019
TIME RUN: 14:07:04

0 SITE ID: CIGWHP SITE NAME: CIG WHISPERING PINES DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1207 DATA SOURCE: CIG
AIR BLENDED: Y

0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

CO2	2.031	2.025	2.012	1.960	1.856	1.951	1.902	1.977	1.927	2.015	2.095	2.081	2.024	1.856	2.095	
OXYGEN	1.130	1.066	1.167	1.141	1.159	1.204	1.120	1.064	1.126	1.394	1.400	1.437	1.230	1.064	1.437	

PUC_Reports_Q2-2019.txt																													
NITROGEN	5.396	5.380	5.542	5.721	5.888	6.356	6.163	6.505	6.430	5.484	5.401	5.791	5.627	5.380	6.505														
METHANE	77.768	78.013	77.199	77.202	77.295	76.319	77.109	75.954	76.038	76.576	76.827	75.918	77.036	75.918	78.013														
ETHANE	10.989	10.846	11.407	11.313	10.844	11.211	11.043	11.585	11.579	11.625	11.412	11.740	11.277	10.844	11.740														
PROPANE	2.126	2.113	2.104	2.055	2.249	2.238	2.006	2.193	2.190	2.230	2.229	2.369	2.187	2.006	2.369														
I-BUTANE	0.158	0.158	0.160	0.166	0.190	0.190	0.171	0.185	0.184	0.177	0.173	0.183	0.170	0.158	0.190														
N-BUTANE	0.307	0.303	0.314	0.334	0.391	0.395	0.358	0.393	0.388	0.365	0.349	0.368	0.340	0.303	0.395														
I-PENTANE	0.042	0.041	0.042	0.047	0.057	0.059	0.055	0.061	0.059	0.055	0.052	0.052	0.048	0.041	0.061														
N-PENTANE	0.040	0.040	0.041	0.046	0.056	0.059	0.055	0.062	0.060	0.057	0.052	0.052	0.048	0.040	0.062														
HEXANES+	0.013	0.015	0.012	0.015	0.015	0.018	0.018	0.021	0.019	0.022	0.010	0.009	0.013	0.009	0.022														
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00																
-----													-----	-----	-----														
N2/O2	4.775	5.047	4.749	5.014	5.080	5.279	5.503	6.114	5.710	3.934	3.858	4.030	4.637	3.858	6.114														
%INERTS	8.557	8.471	8.721	8.822	8.903	9.511	9.185	9.546	9.483	8.893	8.896	9.309	8.882	8.471	9.546														
-----													-----	-----	-----														
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)													-----	-----	-----														
VOL(MMCF)	3567.4	3660.6	2065.5	1738.9	983.2	666.6	612.7	593.1	518.7	580.1	3683.7	4010.2	1890.1	518.7	4010.2														
HIGH BTU/CF	1057.7	1057.2	1059.2	1057.6	1058.5	1055.5	1052.4	1057.4	1057.6	1063.8	1061.0	1062.0	1059.0	1052.4	1063.8														
LOW BTU/CF	956.6	956.1	958.0	956.6	957.5	954.8	951.9	956.7	956.8	962.4	959.8	960.9	957.9	951.9	962.4														
SPEC GRAV	0.6859	0.6846	0.6886	0.6883	0.6893	0.6944	0.6885	0.6959	0.6952	0.6937	0.6924	0.6974	0.6904	0.6846	0.6974														
WOBBE INDEX	1277.1	1277.7	1276.4	1274.8	1274.9	1266.6	1268.3	1267.6	1268.4	1277.2	1275.1	1271.7	1274.6	1266.6	1277.7														
%DIF	5.8	5.9	5.7	5.6	5.6	4.9	5.1	5.0	5.1	5.8	5.6	5.4	5.6	4.9	5.9														
LIQ GAL/MCF	0.769	0.765	0.766	0.766	0.852	0.853	0.769	0.842	0.837	0.837	0.823	0.870	0.806	0.765	0.870														
-----													-----	-----	-----														
H2O LB/MMCF													*	*	*														
H2S PPMV													*	*	*														
O2 PPMV										1.4		1.4	0.5	1.4	1.4														
-----													-----	-----	-----														
0													VOLUME WEIGHTED																
1REPORT R69629S1													PUBLIC SERVICE COMPANY OF COLORADO																
													2019																
													DATE RUN: 03/18/2019																
													TIME RUN: 14:07:04																
0													SITE ID: CIGWHP																
													SITE NAME: CIG WHISPERING PINES																
													DATA TYPE: AVG																
													ONLINE GAS CHROMATOGRAPH																
													TARGET WOBBE: 1207																
													DATA SOURCE: CIG																
													AIR BLENDED: Y																
0													MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX		
-----													-----																
													CO2	2.152	2.111												2.132	2.111	2.152
													OXYGEN	1.325	1.314												1.320	1.314	1.325
													NITROGEN	5.425	5.476												5.450	5.425	5.476
													METHANE	76.417	76.538												76.476	76.417	76.538
													ETHANE	11.624	11.360												11.493	11.360	11.624
													PROPANE	2.391	2.551												2.471	2.391	2.551
													I-BUTANE	0.184	0.186												0.185	0.184	0.186
													N-BUTANE	0.368	0.364												0.366	0.364	0.368
													I-PENTANE	0.053	0.047												0.050	0.047	0.053
													N-PENTANE	0.052	0.046												0.049	0.046	0.052
													HEXANES+	0.009	0.007												0.008	0.007	0.009
													TOTAL	100.00	100.00												100.00		
-----													-----																
													N2/O2	4.094	4.167												4.130	4.094	4.167
													%INERTS	8.902	8.901												8.902	8.901	8.902
-----													-----																
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)													-----	-----	-----														
													VOL(MMCF)	3993.8	3959.0											3976.4	3959.0	3993.8	
													HIGH BTU/CF	1065.6	1065.6											1065.6	1065.6	1065.6	
													LOW BTU/CF	964.1	964.1											964.1	964.1	964.1	

SPEC GRAV	0.6956	0.6954	0.6955	0.6954	0.6956
WOBBE INDEX	1277.7	1277.8	1277.7	1277.7	1277.8
%DIF	5.9	5.9	5.9	5.9	5.9
LIQ GAL/MCF	0.877	0.915	0.896	0.877	0.915
-----					-----
H2O LB/MMCF			*	*	*
H2S PPMV			*	*	*
O2 PPMV	1.3	1.3	1.3	1.3	1.3
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0
1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2018

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:04

0

SITE ID: DERH

SITE NAME: HIGH PLAINS DERBY LAKE

TARGET WOBBE: 1207

AIR BLENDED: N

DATA TYPE: AVG

DATA SOURCE: CIG

ONLINE GAS CHROMATOGRAPH

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	
	CO2	1.948	1.924	1.891	1.971	2.017	2.048	0.000	0.000	2.051	2.048	2.226	2.138	1.982	1.891	2.226
	OXYGEN	1.075	1.042	1.071	0.603	0.021	0.020	0.000	0.000	0.023	0.122	1.167	1.199	1.095	0.020	1.199
	NITROGEN	4.588	4.466	4.685	3.144	0.602	0.543	0.000	0.000	0.531	0.436	4.736	4.775	4.611	0.436	4.775
	METHANE	78.811	79.040	79.050	81.131	83.877	83.780	0.000	0.000	83.739	83.776	77.888	76.844	78.448	76.844	83.877
	ETHANE	13.318	13.339	12.902	12.525	12.898	13.067	0.000	0.000	13.098	13.065	12.438	13.399	13.261	12.438	13.399
	PROPANE	0.196	0.141	0.281	0.421	0.360	0.354	0.000	0.000	0.362	0.362	1.016	1.097	0.415	0.141	1.097
	I-BUTANE	0.012	0.009	0.020	0.034	0.029	0.028	0.000	0.000	0.029	0.029	0.112	0.119	0.039	0.009	0.119
	N-BUTANE	0.027	0.018	0.047	0.078	0.068	0.067	0.000	0.000	0.068	0.067	0.276	0.286	0.092	0.018	0.286
	I-PENTANE	0.005	0.005	0.010	0.017	0.018	0.017	0.000	0.000	0.017	0.017	0.055	0.056	0.018	0.005	0.056
	N-PENTANE	0.006	0.005	0.012	0.020	0.021	0.020	0.000	0.000	0.020	0.020	0.062	0.063	0.021	0.005	0.063
	HEXANES+	0.014	0.011	0.031	0.056	0.089	0.056	0.000	0.000	0.062	0.058	0.024	0.024	0.018	0.011	0.089
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00		
	N2/O2	4.268	4.286	4.374	5.214	28.667	27.150			23.087	3.574	4.058	3.982	4.221	3.574	28.667
	%INERTS	7.611	7.432	7.647	5.718	2.640	2.611	0.000	0.000	2.605	2.606	8.129	8.112	7.687	2.605	8.129

----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	3363.7	3183.4	1613.4	6.6	.5	.0	.0	.0	.1	242.8	2460.7	1358.9	.0	3363.7	
HIGH BTU/CF	1044.0	1044.7	1043.4	1064.7	1098.9	1099.1		1099.8	1099.3	1056.0	1065.3	1049.2	1043.4	1099.8	
LOW BTU/CF	943.5	944.2	942.9	962.2	993.1	993.3		993.9	993.5	954.9	963.6	948.4	942.9	993.9	
SPEC GRAV	0.6664	0.6648	0.6661	0.6591	0.6477	0.6476		0.6480	0.6479	0.6814	0.6867	0.6708	0.6476	0.6867	
WOBBE INDEX	1278.9	1281.3	1278.4	1311.4	1365.4	1365.8		1366.2	1365.7	1279.3	1285.5	1281.1	1278.4	1366.2	
%DIF	6.0	6.2	5.9	8.6	13.1	13.2	0.0	0.0	13.2	13.1	6.0	6.5	6.2	5.9	
LIQ GAL/MCF	0.076	0.056	0.120	0.188	0.181	0.164		0.170	0.168	0.456	0.484	0.178	0.056	0.484	

H2O LB/MMCF							0.0	0.0				*	*	*	
H2S PPMV							0.0	0.0				*	*	*	
O2 PPMV							0.0	0.0				*	*	*	

0
1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2019

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:04

0

SITE ID: DERH

SITE NAME: HIGH PLAINS DERBY LAKE

TARGET WOBBE: 1207

AIR BLENDED: N

DATA TYPE: AVG

DATA SOURCE: CIG

ONLINE GAS CHROMATOGRAPH

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	2.112	2.167										2.137	2.112	2.167
	OXYGEN	1.114	1.018										1.070	1.018	1.114

NITROGEN	4.572	4.262	4.429	4.262	4.572
METHANE	78.425	79.387	78.869	78.425	79.387
ETHANE	12.262	11.632	11.971	11.632	12.262
PROPANE	1.019	1.030	1.024	1.019	1.030
I-BUTANE	0.110	0.113	0.111	0.110	0.113
N-BUTANE	0.263	0.272	0.267	0.263	0.272
I-PENTANE	0.050	0.050	0.050	0.050	0.050
N-PENTANE	0.054	0.053	0.054	0.053	0.054
HEXANES+	0.019	0.016	0.018	0.016	0.019
TOTAL	100.00	100.00	100.00		

N2/O2	4.104	4.187	4.142	4.104	4.187
%INERTS	7.798	7.447	7.636	7.447	7.798

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)					

VOL(MMCF)	4708.9	4032.3	4370.6	4032.3	4708.9
HIGH BTU/CF	1057.1	1056.2	1056.7	1056.2	1057.1
LOW BTU/CF	955.9	954.8	955.4	954.8	955.9
SPEC GRAV	0.6779	0.6737	0.6760	0.6737	0.6779
WOBBE INDEX	1283.9	1286.8	1285.2	1283.9	1286.8
%DIF	6.4	6.6	6.5	6.4	6.6
LIQ GAL/MCF	0.445	0.450	0.447	0.445	0.450

H2O LB/MMCF			*	*	*
H2S PPMV			*	*	*
O2 PPMV			*	*	*

0
1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2018

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:04

0

SITE ID: MARE

SITE NAME: MARSHALL CS EAST

DATA TYPE: AVG

ONLINE GAS CHROMATOGRAPH

TARGET WOBBE: 1207

DATA SOURCE: HPG BRIGHTON

AIR BLENDED: Y

0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	0.000	0.000	0.000	0.000	0.000	1.926	0.000	0.000	2.041	0.000	0.000	2.043	1.931	1.926	2.043
	OXYGEN	0.000	0.000	0.000	0.000	0.000	1.252	0.000	0.000	1.324	0.000	0.000	1.225	1.253	1.225	1.324
	NITROGEN	0.000	0.000	0.000	0.000	0.000	5.029	0.000	0.000	5.209	0.000	0.000	5.156	5.036	5.029	5.209
	METHANE	0.000	0.000	0.000	0.000	0.000	78.783	0.000	0.000	77.867	0.000	0.000	77.875	78.741	77.867	78.783
	ETHANE	0.000	0.000	0.000	0.000	0.000	10.900	0.000	0.000	11.451	0.000	0.000	11.977	10.938	10.900	11.977
	PROPANE	0.000	0.000	0.000	0.000	0.000	1.711	0.000	0.000	1.607	0.000	0.000	1.162	1.696	1.162	1.711
	I-BUTANE	0.000	0.000	0.000	0.000	0.000	0.107	0.000	0.000	0.127	0.000	0.000	0.125	0.108	0.107	0.127
	N-BUTANE	0.000	0.000	0.000	0.000	0.000	0.215	0.000	0.000	0.268	0.000	0.000	0.296	0.218	0.215	0.296
	I-PENTANE	0.000	0.000	0.000	0.000	0.000	0.031	0.000	0.000	0.042	0.000	0.000	0.056	0.032	0.031	0.056
	N-PENTANE	0.000	0.000	0.000	0.000	0.000	0.032	0.000	0.000	0.044	0.000	0.000	0.063	0.033	0.032	0.063
	HEXANES+	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.020	0.000	0.000	0.022	0.014	0.014	0.022
	TOTAL	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	100.00		

	N2/O2						4.017			3.934			4.209	4.020	3.934	4.209
	%INERTS	0.000	0.000	0.000	0.000	0.000	8.207	0.000	0.000	8.574	0.000	0.000	8.424	8.221	8.207	8.574

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																

	VOL(MMCF)	.0	.0	.0	.0	.0	4.1	.0	.0	.1	.0	.0	.1	1.4	.1	4.1
	HIGH BTU/CF						1050.5			1052.0			1052.4	1050.6	1050.5	1052.4
	LOW BTU/CF						949.8			951.3			951.7	949.9	949.8	951.7

PUC_Reports_Q2-2019.txt												0.6772	0.6828	0.6813	0.6774	0.6772	0.6828
SPEC GRAV												1276.5	1273.1	1275.0	1276.4	1273.1	1276.5
WOBBE INDEX												5.8	5.5	5.6	5.8	5.5	5.8
%DIF	0.0	0.0	0.0	0.0	0.0							0.603	0.608	0.507	0.601	0.507	0.608
LIQ GAL/MCF																	
H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0			*	*	*	
H2S PPMV	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0			*	*	*	
O2 PPMV	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0			*	*	*	

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO VOLUME WEIGHTED
2019 DATE RUN: 03/18/2019
TIME RUN: 14:07:04

0 SITE ID: MARE SITE NAME: MARSHALL CS EAST DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1207 DATA SOURCE: HPG BRIGHTON
AIR BLENDED: Y

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.000	0.000											0	*	*
OXYGEN	0.000	0.000											0	*	*
NITROGEN	0.000	0.000											0	*	*
METHANE	0.000	0.000											0	*	*
ETHANE	0.000	0.000											0	*	*
PROPANE	0.000	0.000											0	*	*
I-BUTANE	0.000	0.000											0	*	*
N-BUTANE	0.000	0.000											0	*	*
I-PENTANE	0.000	0.000											0	*	*
N-PENTANE	0.000	0.000											0	*	*
HEXANES+	0.000	0.000											0	*	*
TOTAL	0.00	0.00											100.00		
N2/O2															
%INERTS	0.000	0.000											*	*	*
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	.0	.0											.0		
HIGH BTU/CF													*	*	*
LOW BTU/CF													*	*	*
SPEC GRAV													*	*	*
WOBBE INDEX													*	*	*
%DIF	0.0	0.0											*	*	*
LIQ GAL/MCF													*	*	*
H2O LB/MMCF	0.0	0.0											*	*	*
H2S PPMV	0.0	0.0											*	*	*
O2 PPMV	0.0	0.0											*	*	*

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO STRAIGHT AVERAGED
2018 DATE RUN: 03/18/2019
TIME RUN: 14:07:04

0 SITE ID: MARW SITE NAME: MARSHALL CS WEST DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1207 DATA SOURCE: HPG BRIGHTON
AIR BLENDED: Y

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.802	1.786	1.896	1.861	1.897	1.907	1.933	2.088	2.081	2.041	2.127	1.981	1.930	1.786	2.127
OXYGEN	1.158	1.116	1.201	1.149	1.131	1.165	1.143	1.152	1.171	1.336	1.273	1.320	1.212	1.116	1.336

PUC_Reports_Q2-2019.txt																											
NITROGEN	4.824	4.681	4.919	4.810	4.696	4.707	4.457	4.500	4.736	5.255	5.007	4.978	4.879	4.457	5.255												
METHANE	79.487	79.908	78.575	79.322	80.078	79.467	80.340	79.111	78.569	77.191	77.809	77.481	78.684	77.191	80.340												
ETHANE	11.922	11.743	12.529	11.955	10.698	10.822	11.066	11.487	11.524	12.066	11.930	12.390	11.958	10.698	12.529												
PROPANE	0.636	0.610	0.708	0.722	1.181	1.594	0.900	1.382	1.532	1.522	1.305	1.300	1.001	0.610	1.594												
I-BUTANE	0.048	0.044	0.049	0.050	0.087	0.094	0.047	0.078	0.102	0.134	0.126	0.126	0.083	0.044	0.134												
N-BUTANE	0.093	0.085	0.094	0.099	0.173	0.183	0.086	0.150	0.206	0.307	0.290	0.292	0.179	0.085	0.307												
I-PENTANE	0.013	0.012	0.013	0.014	0.025	0.025	0.012	0.021	0.031	0.054	0.053	0.053	0.030	0.012	0.054												
N-PENTANE	0.012	0.011	0.012	0.013	0.025	0.026	0.012	0.022	0.032	0.061	0.060	0.060	0.032	0.011	0.061												
HEXANES+	0.005	0.004	0.004	0.005	0.009	0.010	0.004	0.009	0.016	0.033	0.020	0.019	0.012	0.004	0.033												
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00														

N2/O2	4.166	4.194	4.096	4.186	4.152	4.040	3.899	3.906	4.044	3.933	3.933	3.771	4.032	3.771	4.194												
%INERTS	7.784	7.583	8.016	7.820	7.724	7.779	7.533	7.740	7.988	8.632	8.407	8.279	8.021	7.533	8.632												
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																											
VOL(MMCF)	697.7	631.0	590.7	451.1	233.3	94.9	72.9	77.5	93.5	362.3	670.0	802.0	398.1	72.9	802.0												
HIGH BTU/CF	1040.6	1040.5	1044.0	1042.1	1043.7	1050.9	1040.4	1051.8	1054.5	1057.2	1054.0	1058.8	1048.1	1040.4	1058.8												
LOW BTU/CF	940.5	940.3	943.7	941.8	943.3	950.1	940.1	950.9	953.5	956.2	953.2	957.5	947.6	940.1	957.5												
SPEC GRAV	0.6655	0.6631	0.6707	0.6671	0.6674	0.6727	0.6634	0.6738	0.6782	0.6867	0.6827	0.6836	0.6736	0.6631	0.6867												
WOBBE INDEX	1275.6	1277.8	1274.8	1275.9	1277.6	1281.3	1277.4	1281.3	1280.5	1275.8	1275.6	1280.6	1277.1	1274.8	1281.3												
%DIF	5.7	5.9	5.6	5.7	5.8	6.2	5.8	6.2	6.1	5.7	5.7	6.1	5.8	5.6	6.2												
LIQ GAL/MCF	0.231	0.219	0.251	0.258	0.430	0.550	0.301	0.473	0.550	0.615	0.541	0.540	0.386	0.219	0.615												

H2O LB/MMCF													*	*	*												
H2S PPMV													*	*	*												
O2 PPMV										0.5	1.2	1.3	0.4	0.5	1.3												

0													VOLUME WEIGHTED														
1REPORT R69629S1													PUBLIC SERVICE COMPANY OF COLORADO														
													2019														
													DATE RUN: 03/18/2019														
													TIME RUN: 14:07:05														
0 SITE ID: MARW													SITE NAME: MARSHALL CS WEST														
													DATA TYPE: AVG														
													ONLINE GAS CHROMATOGRAPH														
													TARGET WOBBE: 1207														
													DATA SOURCE: HPG BRIGHTON														
													AIR BLENDED: Y														
0 MTH: JAN													FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	

CO2	2.069	2.088												2.078	2.069	2.088											
OXYGEN	1.451	1.470												1.460	1.451	1.470											
NITROGEN	5.114	4.912												5.021	4.912	5.114											
METHANE	77.251	78.134												77.658	77.251	78.134											
ETHANE	12.079	11.492												11.808	11.492	12.079											
PROPANE	1.473	1.359												1.420	1.359	1.473											
I-BUTANE	0.136	0.132												0.134	0.132	0.136											
N-BUTANE	0.305	0.299												0.302	0.299	0.305											
I-PENTANE	0.052	0.049												0.051	0.049	0.052											
N-PENTANE	0.056	0.053												0.055	0.053	0.056											
HEXANES+	0.014	0.012												0.013	0.012	0.014											
TOTAL	100.00	100.00												100.00													

N2/O2	3.524	3.341												3.439	3.341	3.524											
%INERTS	8.634	8.470												8.558	8.470	8.634											
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																											
VOL(MMCF)	806.3	692.5												749.4	692.5	806.3											
HIGH BTU/CF	1055.6	1050.6												1053.3	1050.6	1055.6											
LOW BTU/CF	954.7	949.9												952.5	949.9	954.7											

SPEC GRAV	0.6860	0.6812	0.6838	0.6812	0.6860
WOBBE INDEX	1274.5	1272.9	1273.8	1272.9	1274.5
%DIF	5.6	5.5	5.6	5.5	5.6
LIQ GAL/MCF	0.591	0.554	0.574	0.554	0.591
-----			-----		
H2O LB/MMCF			*	*	*
H2S PPMV			*	*	*
O2 PPMV	1.4	1.5	1.4	1.4	1.5
-----			-----		

0

1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO

2018

VOLUME WEIGHTED

DATE RUN: 03/18/2019

TIME RUN: 14:07:05

0

SITE ID: YONO

SITE NAME: YOSEMITE NORTH OUTLET

TARGET WOBBE: 1207

AIR BLENDED: Y

DATA TYPE: AVG

CALCULATED GAS COMPOSITION

DATA SOURCE: HPG BRIGHTON

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	
	CO2	1.823	1.789	1.841	1.848	0.000	1.897	1.895	0.000	0.000	1.958	2.160	2.026	1.945	1.789	2.160
	OXYGEN	1.126	1.083	1.251	1.160	0.000	1.241	1.171	0.000	0.000	0.808	0.000	0.000	0.652	0.000	1.251
	NITROGEN	4.629	4.455	5.125	4.767	0.000	5.173	4.659	0.000	0.000	5.140	4.779	4.772	4.780	4.455	5.173
	METHANE	79.621	80.187	78.237	79.477	0.000	78.788	79.932	0.000	0.000	78.049	79.168	78.601	79.091	78.049	80.187
	ETHANE	11.976	11.698	12.676	11.817	0.000	10.811	11.064	0.000	0.000	12.104	12.055	12.639	12.114	10.811	12.676
	PROPANE	0.652	0.628	0.691	0.739	0.000	1.677	1.050	0.000	0.000	1.385	1.281	1.386	1.038	0.628	1.677
	I-BUTANE	0.048	0.045	0.049	0.052	0.000	0.108	0.062	0.000	0.000	0.123	0.125	0.131	0.090	0.045	0.131
	N-BUTANE	0.096	0.088	0.099	0.107	0.000	0.222	0.124	0.000	0.000	0.289	0.296	0.308	0.203	0.088	0.308
	I-PENTANE	0.013	0.012	0.013	0.014	0.000	0.033	0.017	0.000	0.000	0.052	0.055	0.056	0.035	0.012	0.056
	N-PENTANE	0.012	0.011	0.013	0.014	0.000	0.034	0.018	0.000	0.000	0.059	0.062	0.062	0.038	0.011	0.062
	HEXANES+	0.004	0.004	0.005	0.005	0.000	0.016	0.008	0.000	0.000	0.033	0.019	0.019	0.014	0.004	0.033
	TOTAL	100.00	100.00	100.00	100.00	0.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100.00		
	N2/O2	4.111	4.114	4.097	4.109		4.168	3.979			6.361			2.758	0.000	6.361
	%INERTS	7.578	7.327	8.217	7.775	0.000	8.311	7.725	0.000	0.000	7.906	6.939	6.798	7.376	6.798	8.311
	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
	VOL(MMCF)	3264.8	2755.3	1346.1	2254.0	.0	281.3	225.3	.0	.0	2505.7	3744.3	4489.8	2318.5	225.3	4489.8
	HIGH BTU/CF	1043.4	1043.2	1043.0	1042.0		1048.6	1042.4			1062.0	1069.8	1077.7	1057.6	1042.0	1077.7
	LOW BTU/CF	943.0	942.7	942.8	941.7		948.1	942.1			960.4	967.4	974.7	956.2	941.7	974.7
	SPEC GRAV	0.6651	0.6621	0.6719	0.6665		0.6769	0.6666			0.6809	0.6756	0.6784	0.6721	0.6621	0.6809
	WOBBE INDEX	1279.4	1282.1	1272.4	1276.3		1274.5	1276.7			1287.0	1301.5	1308.4	1290.0	1272.4	1308.4
	%DIF	6.0	6.2	5.4	5.7	0.0	5.6	5.8	0.0	0.0	6.6	7.8	8.4	6.9	5.4	8.4
	LIQ GAL/MCF	0.236	0.225	0.249	0.267		0.598	0.365			0.567	0.537	0.572	0.411	0.225	0.598
	H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	H2S PPMV					0.0			0.0	0.0				*	*	*
	O2 PPMV					0.0			0.0	0.0				*	*	*

0

1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO

2019

VOLUME WEIGHTED

DATE RUN: 03/18/2019

TIME RUN: 14:07:05

0

SITE ID: YONO

SITE NAME: YOSEMITE NORTH OUTLET

TARGET WOBBE: 1207

AIR BLENDED: Y

DATA TYPE: AVG

CALCULATED GAS COMPOSITION

DATA SOURCE: HPG BRIGHTON

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
-----													-----	-----	-----
	CO2	2.107	2.127										2.117	2.107	2.127
	OXYGEN	0.000	0.000										0.000	0.000	0.000

NITROGEN	5.173	5.001	5.088	5.001	5.173
METHANE	78.447	79.333	78.883	78.447	79.333
ETHANE	12.191	11.578	11.889	11.578	12.191
PROPANE	1.507	1.400	1.454	1.400	1.507
I-BUTANE	0.137	0.134	0.136	0.134	0.137
N-BUTANE	0.314	0.310	0.312	0.310	0.314
I-PENTANE	0.053	0.051	0.052	0.051	0.053
N-PENTANE	0.057	0.054	0.056	0.054	0.057
HEXANES+	0.014	0.012	0.013	0.012	0.014
TOTAL	100.00	100.00	100.00		

N2/O2					
%INERTS	7.280	7.128	7.205	7.128	7.280

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)					

VOL(MMCF)	3742.1	3636.3	3689.2	3636.3	3742.1
HIGH BTU/CF	1071.1	1065.9	1068.5	1065.9	1071.1
LOW BTU/CF	968.7	963.8	966.3	963.8	968.7
SPEC GRAV	0.6798	0.6749	0.6774	0.6749	0.6798
WOBBE INDEX	1299.1	1297.5	1298.3	1297.5	1299.1
%DIF	7.6	7.5	7.6	7.5	7.6
LIQ GAL/MCF	0.605	0.570	0.588	0.570	0.605

H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0
H2S PPMV			*	*	*
O2 PPMV			*	*	*

0													VOLUME WEIGHTED		
1	REPORT R69629S1												DATE RUN: 03/18/2019		
	PUBLIC SERVICE COMPANY OF COLORADO												TIME RUN: 14:07:05		
	2018														
0	SITE ID: YOSO			SITE NAME: YOSEMITE SOUTH OUTLET				DATA TYPE: AVG		CALCULATED GAS COMPOSITION					
				TARGET WOBBE: 1207											
				AIR BLENDED: Y											
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	1.798	1.785	1.891	1.855	1.887	1.895	1.931	2.076	2.063	1.985	2.099	1.966	1.918	2.099
	OXYGEN	1.143	1.093	1.130	1.095	1.100	1.109	1.070	1.073	1.103	1.286	1.148	1.211	1.135	1.286
	NITROGEN	4.847	4.717	4.902	4.777	4.665	4.660	4.447	4.481	4.654	5.395	4.911	5.175	4.841	5.395
	METHANE	79.645	79.973	78.853	79.645	80.217	79.541	80.020	79.376	78.849	77.199	78.310	77.464	79.056	80.217
	ETHANE	11.764	11.669	12.316	11.722	10.566	10.878	11.498	11.329	11.436	11.878	11.774	12.282	11.692	12.316
	PROPANE	0.639	0.611	0.733	0.734	1.240	1.582	0.888	1.388	1.495	1.679	1.236	1.344	1.049	1.679
	I-BUTANE	0.046	0.043	0.049	0.048	0.088	0.093	0.043	0.076	0.104	0.136	0.119	0.129	0.079	0.136
	N-BUTANE	0.091	0.084	0.097	0.097	0.178	0.182	0.078	0.149	0.215	0.309	0.278	0.299	0.167	0.309
	I-PENTANE	0.012	0.011	0.013	0.013	0.025	0.025	0.010	0.021	0.032	0.050	0.051	0.054	0.026	0.054
	N-PENTANE	0.011	0.010	0.012	0.012	0.024	0.024	0.010	0.021	0.032	0.053	0.055	0.058	0.027	0.058
	HEXANES+	0.004	0.004	0.004	0.002	0.010	0.011	0.005	0.010	0.017	0.030	0.019	0.018	0.010	0.030
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		

	N2/O2	4.241	4.316	4.338	4.363	4.241	4.202	4.156	4.176	4.219	4.195	4.278	4.273	4.266	4.363
	%INERTS	7.788	7.595	7.923	7.727	7.652	7.664	7.448	7.630	7.820	8.666	8.158	8.352	7.894	8.666

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															

	VOL(MMCF)	4570.8	5041.4	4849.0	3208.9	3163.3	1870.2	1908.5	1890.4	2209.9	2735.4	3723.0	4366.8	3294.8	5041.4
	HIGH BTU/CF	1039.2	1039.8	1043.8	1041.1	1044.5	1052.3	1044.0	1051.8	1055.3	1057.4	1053.6	1058.0	1047.5	1058.0
	LOW BTU/CF	939.2	939.6	943.4	940.9	944.0	951.3	943.5	950.8	954.2	956.4	952.7	956.9	946.9	956.9

PUC_Reports_Q2-2019.txt																
SPEC GRAV	0.6646	0.6627	0.6694	0.6654	0.6670	0.6722	0.6647	0.6724	0.6767	0.6869	0.6795	0.6837	0.6717	0.6627	0.6869	
WOBBE INDEX	1274.7	1277.3	1275.8	1276.3	1278.9	1283.5	1280.5	1282.7	1282.9	1275.8	1278.1	1279.5	1278.1	1274.7	1283.5	
%DIF	5.6	5.8	5.7	5.7	6.0	6.3	6.1	6.3	6.3	5.7	5.9	6.0	5.9	5.6	6.3	
LIQ GAL/MCF	0.230	0.218	0.259	0.258	0.448	0.546	0.293	0.474	0.544	0.654	0.513	0.555	0.391	0.218	0.654	

H2O LB/MMCF	0.6	0.8	0.7	0.7	0.9	1.0	0.7	0.9	1.1	1.2	0.8	1.0	0.8	0.6	1.2	
H2S PPMV													*	*	*	
O2 PPMV													*	*	*	

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO VOLUME WEIGHTED
2019 DATE RUN: 03/18/2019
TIME RUN: 14:07:05

0 SITE ID: YOSO SITE NAME: YOSEMITE SOUTH OUTLET DATA TYPE: AVG CALCULATED GAS COMPOSITION
TARGET WOBBE: 1207 DATA SOURCE: HPG BRIGHTON
AIR BLENDED: Y

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	2.047	2.067											2.057	2.047	2.067
OXYGEN	1.252	1.207											1.229	1.207	1.252
NITROGEN	5.350	5.263											5.306	5.263	5.350
METHANE	77.462	78.249											77.858	77.462	78.249
ETHANE	11.864	11.308											11.585	11.308	11.864
PROPANE	1.465	1.359											1.412	1.359	1.465
I-BUTANE	0.135	0.132											0.133	0.132	0.135
N-BUTANE	0.307	0.303											0.305	0.303	0.307
I-PENTANE	0.051	0.049											0.050	0.049	0.051
N-PENTANE	0.053	0.051											0.052	0.051	0.053
HEXANES+	0.014	0.012											0.013	0.012	0.014
TOTAL	100.00	100.00											100.00		

N2/O2	4.273	4.360											4.317	4.273	4.360
%INERTS	8.649	8.537											8.593	8.537	8.649

----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	3486.6	3523.6											3505.1	3486.6	3523.6
HIGH BTU/CF	1053.6	1048.5											1051.0	1048.5	1053.6
LOW BTU/CF	952.8	948.1											950.4	948.1	952.8
SPEC GRAV	0.6845	0.6801											0.6823	0.6801	0.6845
WOBBE INDEX	1273.5	1271.4											1272.4	1271.4	1273.5
%DIF	5.5	5.3											5.4	5.3	5.5
LIQ GAL/MCF	0.588	0.554											0.571	0.554	0.588

H2O LB/MMCF	1.1	1.2											1.2	1.1	1.2
H2S PPMV													*	*	*
O2 PPMV													*	*	*

0
1REPORT R699680 PUBLIC SERVICE COMPANY OF COLORADO VOLUME WEIGHTED
BTU ZONE SUMMARY HEATING VALUES REPORT DATE RUN: 03/18/2019
SECOND QUARTER, 2019 TIME RUN: 14:07:05

	BTU ZONE: GRAND JUNCTION			HV (BTU/CF, 14.73 PSIA, 60 F, DRY)			VOLUME (MCF AT 14.73 PSIA)		
	SITE ID	SAMPLING SITE NAME	NET FLOW	DECEMBER	JANUARY	FEBRUARY	DECEMBER	JANUARY	FEBRUARY
0	ASBN	ASBURY MAINLINE NORTH	IN	1048.0	1034.4	1034.6	608,826	658,534	479,787
0	ASBS	ASBURY MAINLINE SOUTH	IN	1051.4	1045.6	1016.5	369,196	399,974	360,100
	ORCO	ORCHARD MESA OUTLET	IN	1037.2	1028.1	1029.9	95,010	111,362	81,954

0 PUC_Reports_Q2-2019.txt
0 VOLUME WEIGHTED HEATING VALUE: 1048.2 1037.6 1027.1 TOTAL VOL: 1,073,032 1,169,870 921,841
0 QUARTER AVERAGE HEATING VALUE: 1037.6

1REPORT R69629Z0 DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.
PUBLIC SERVICE COMPANY OF COLORADO DATE RUN: 03/18/2019
2018 TIME RUN: 14:07:05

0 ZONE NAME: GRAND JUNCTION
-

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.792	2.036	2.133	2.455	2.496	1.802	1.670	1.403	1.549	1.505	0.960	0.465	1.527	0.465	2.496
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.828	0.948	1.128	1.424	1.057	0.581	0.881	1.000	1.084	0.868	0.229	0.531	0.790	0.229	1.424
METHANE	92.367	92.120	91.425	90.749	90.887	91.953	92.941	94.897	94.454	94.175	95.539	93.814	93.065	90.749	95.539
ETHANE	4.462	4.408	4.737	4.590	4.659	5.134	4.040	2.063	2.228	2.703	2.821	4.758	4.064	2.063	5.134
PROPANE	0.374	0.319	0.372	0.501	0.583	0.347	0.300	0.402	0.435	0.496	0.323	0.334	0.376	0.300	0.583
I-BUTANE	0.056	0.051	0.061	0.082	0.092	0.050	0.045	0.067	0.073	0.081	0.046	0.034	0.055	0.034	0.092
N-BUTANE	0.069	0.065	0.078	0.106	0.126	0.071	0.064	0.092	0.098	0.103	0.055	0.042	0.071	0.042	0.126
I-PENTANE	0.021	0.020	0.025	0.034	0.037	0.022	0.021	0.028	0.029	0.028	0.014	0.011	0.021	0.011	0.037
N-PENTANE	0.014	0.015	0.018	0.025	0.028	0.018	0.016	0.022	0.023	0.021	0.010	0.008	0.015	0.008	0.028
HEXANES+	0.017	0.018	0.023	0.034	0.035	0.022	0.022	0.026	0.027	0.020	0.003	0.003	0.016	0.003	0.035
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
N2/O2 %INERTS	2.620	2.984	3.261	3.879	3.553	2.383	2.551	2.403	2.633	2.373	1.189	0.996	2.317	0.996	3.879
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	1016.4	780.9	586.4	351.0	223.1	180.0	170.9	183.6	191.9	413.2	834.8	1073.0	500.4	170.9	1073.0
HIGH BTU/CF	1032.2	1027.1	1028.7	1025.2	1031.2	1039.7	1028.5	1018.0	1017.8	1025.0	1031.9	1048.2	1032.3	1017.8	1048.2
LOW BTU/CF	930.8	926.2	927.7	924.7	930.2	937.7	927.3	917.5	917.4	924.0	930.1	945.3	930.8	917.4	945.3
SPEC GRAV	0.6038	0.6057	0.6102	0.6164	0.6170	0.6061	0.6000	0.5903	0.5934	0.5950	0.5838	0.5894	0.5992	0.5838	0.6170
WOBBE INDEX	1328.4	1319.7	1316.9	1305.8	1312.8	1335.5	1327.8	1325.0	1321.3	1328.8	1350.5	1365.3	1333.8	1305.8	1365.3
LIQ GAL/MCF	0.163	0.145	0.172	0.234	0.268	0.158	0.140	0.191	0.205	0.222	0.131	0.125	0.164	0.125	0.268

0 VOLUME WEIGHTED
1REPORT R69629Z0 PUBLIC SERVICE COMPANY OF COLORADO DATE RUN: 03/18/2019
2019 TIME RUN: 14:07:05

0 ZONE NAME: GRAND JUNCTION
-

MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.726	1.873										1.231	0.726	1.873
OXYGEN	0.000	0.000										0.000	0.000	0.000
NITROGEN	0.621	0.692										0.652	0.621	0.692
METHANE	94.272	92.949										93.690	92.949	94.272
ETHANE	4.056	4.072										4.063	4.056	4.072
PROPANE	0.241	0.292										0.263	0.241	0.292
I-BUTANE	0.027	0.038										0.032	0.027	0.038
N-BUTANE	0.036	0.052										0.043	0.036	0.052
I-PENTANE	0.010	0.015										0.012	0.010	0.015
N-PENTANE	0.007	0.011										0.009	0.007	0.011
HEXANES+	0.004	0.006										0.005	0.004	0.006
TOTAL	100.00	100.00										100.00		
N2/O2 %INERTS	1.347	2.565										1.884	1.347	2.565

----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----														
VOL(MMCF)	1169.9	921.8										1045.9	921.8	1169.9
HIGH BTU/CF	1037.6	1027.1										1033.0	1027.1	1037.6
LOW BTU/CF	935.4	926.0										931.3	926.0	935.4
SPEC GRAV	0.5878	0.6004										0.5934	0.5878	0.6004
WOBBE INDEX	1353.4	1325.5										1341.1	1325.5	1353.4
LIQ GAL/MCF	0.094	0.121										0.106	0.094	0.121

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO
2018 VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:06

0 SITE ID: ASBN SITE NAME: ASBURY MAINLINE NORTH DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1272 DATA SOURCE: HPG GRAND JUNCTION
AIR BLENDED: N

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.286	1.425	1.205	0.985	0.979	0.946	0.922	0.655	0.398	0.970	0.843	0.551	0.975	0.398	1.425
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.458	0.433	0.365	0.234	0.169	0.121	0.196	0.193	0.187	0.270	0.214	0.214	0.307	0.121	0.458
METHANE	93.737	94.223	93.869	93.820	93.614	93.508	94.231	96.981	97.954	95.911	96.202	94.219	94.581	93.508	97.954
ETHANE	4.133	3.753	4.445	4.841	5.017	5.291	4.554	1.901	1.290	2.422	2.240	4.686	3.817	1.290	5.291
PROPANE	0.281	0.124	0.096	0.105	0.184	0.121	0.092	0.197	0.126	0.302	0.357	0.277	0.243	0.092	0.357
I-BUTANE	0.039	0.016	0.008	0.006	0.014	0.005	0.002	0.026	0.016	0.045	0.052	0.021	0.029	0.002	0.052
N-BUTANE	0.043	0.017	0.008	0.006	0.016	0.005	0.002	0.030	0.018	0.053	0.062	0.023	0.032	0.002	0.062
I-PENTANE	0.011	0.004	0.002	0.001	0.003	0.001	0.000	0.007	0.004	0.013	0.015	0.005	0.008	0.000	0.015
N-PENTANE	0.007	0.003	0.001	0.001	0.002	0.001	0.000	0.005	0.003	0.009	0.011	0.003	0.005	0.000	0.011
HEXANES+	0.005	0.002	0.001	0.001	0.002	0.001	0.001	0.005	0.004	0.005	0.004	0.001	0.003	0.001	0.005

TOTAL 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00

N2/O2
%INERTS 1.744 1.858 1.570 1.219 1.148 1.067 1.118 0.848 0.585 1.240 1.057 0.765 1.282 0.585 1.858

----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----

VOL(MMCF)	522.4	312.0	198.8	105.2	26.0	31.5	32.4	38.6	34.6	127.7	424.2	608.8	205.2	26.0	608.8
HIGH BTU/CF	1035.2	1027.3	1034.5	1041.1	1044.9	1046.3	1039.5	1025.2	1021.3	1028.0	1029.7	1048.0	1036.2	1021.3	1048.0
LOW BTU/CF	933.4	926.0	932.6	938.7	942.2	943.5	937.2	923.7	920.0	926.5	928.0	945.0	934.1	920.0	945.0
SPEC GRAV	0.5936	0.5905	0.5908	0.5901	0.5917	0.5915	0.5876	0.5742	0.5675	0.5819	0.5804	0.5873	0.5876	0.5675	0.5936
WOBBE INDEX	1343.6	1336.9	1345.9	1355.3	1358.4	1360.4	1356.1	1352.9	1355.7	1347.6	1351.6	1367.5	1351.8	1336.9	1367.5
%DIF	5.6	5.1	5.8	6.5	6.8	6.9	6.6	6.4	6.6	5.9	6.3	7.5	6.3	5.1	7.5
LIQ GAL/MCF	0.112	0.048	0.033	0.034	0.063	0.038	0.027	0.079	0.050	0.125	0.146	0.094	0.092	0.027	0.146

H2O LB/MMCF *
H2S PPMV *
O2 PPMV *

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO
2019 VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:06

0 SITE ID: ASBN SITE NAME: ASBURY MAINLINE NORTH DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1272 DATA SOURCE: HPG GRAND JUNCTION
AIR BLENDED: N

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.048	1.410											1.201	1.048	1.410
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	0.364	0.354											0.360	0.354	0.364

METHANE	94.331	93.542	93.998	93.542	94.331
ETHANE	4.073	4.471	4.241	4.073	4.471
PROPANE	0.154	0.180	0.165	0.154	0.180
I-BUTANE	0.011	0.016	0.013	0.011	0.016
N-BUTANE	0.013	0.019	0.016	0.013	0.019
I-PENTANE	0.003	0.004	0.003	0.003	0.004
N-PENTANE	0.002	0.003	0.002	0.002	0.003
HEXANES+	0.001	0.001	0.001	0.001	0.001
TOTAL	100.00	100.00	100.00		

N2/O2					
%INERTS	1.412	1.764	1.560	1.412	1.764

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)					

VOL(MMCF)	658.5	479.8	569.2	479.8	658.5
HIGH BTU/CF	1034.4	1034.6	1034.5	1034.4	1034.6
LOW BTU/CF	932.5	932.8	932.6	932.5	932.8
SPEC GRAV	0.5882	0.5940	0.5906	0.5882	0.5940
WOBBE INDEX	1348.7	1342.4	1346.0	1342.4	1348.7
%DIF	6.0	5.5	5.8	5.5	6.0
LIQ GAL/MCF	0.052	0.064	0.057	0.052	0.064

H2O LB/MMCF			*	*	*
H2S PPMV			*	*	*
O2 PPMV			*	*	*

0
1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2018

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:06

0

SITE ID: ASBS

SITE NAME: ASBURY MAINLINE SOUTH

DATA TYPE: AVG

ONLINE GAS CHROMATOGRAPH

TARGET WOBBE: 1272

DATA SOURCE: HPG

AIR BLENDED: N

GRAND JUNCTION

0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	2.509	2.594	2.711	3.084	2.696	1.984	1.845	1.602	1.802	1.744	0.000	0.000	2.057	0.000	3.084
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	1.474	1.502	1.654	1.933	1.174	0.679	1.041	1.215	1.281	1.135	0.000	1.121	1.352	0.679	1.933
	METHANE	90.508	90.620	90.136	89.434	90.527	91.621	92.638	94.342	93.685	93.399	0.000	93.500	91.607	89.434	94.342
	ETHANE	4.677	4.453	4.600	4.483	4.612	5.101	3.920	2.106	2.434	2.828	0.000	4.680	4.156	2.106	5.101
	PROPANE	0.531	0.528	0.567	0.671	0.636	0.395	0.349	0.456	0.503	0.583	0.000	0.502	0.534	0.349	0.671
	I-BUTANE	0.087	0.089	0.097	0.115	0.102	0.060	0.055	0.078	0.085	0.097	0.000	0.065	0.086	0.055	0.115
	N-BUTANE	0.116	0.116	0.126	0.149	0.141	0.085	0.079	0.109	0.116	0.126	0.000	0.085	0.115	0.079	0.149
	I-PENTANE	0.037	0.037	0.041	0.048	0.042	0.027	0.026	0.034	0.035	0.035	0.000	0.023	0.036	0.023	0.048
	N-PENTANE	0.027	0.027	0.030	0.035	0.031	0.021	0.020	0.026	0.027	0.026	0.000	0.017	0.026	0.017	0.035
	HEXANES+	0.034	0.034	0.038	0.048	0.039	0.027	0.027	0.032	0.032	0.027	0.000	0.007	0.031	0.007	0.048
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00		

	N2/O2															
	%INERTS	3.983	4.096	4.365	5.017	3.870	2.663	2.886	2.817	3.083	2.879	0.000	1.121	3.036	1.121	5.017

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																

	VOL(MMCF)	395.7	390.4	349.7	245.8	197.2	148.6	138.5	145.0	157.3	285.4	346.3	369.2	264.1	138.5	395.7
	HIGH BTU/CF	1025.8	1022.9	1022.7	1018.4	1029.4	1038.3	1025.9	1016.1	1017.1	1023.6		1051.4	915.2	1016.1	1051.4
	LOW BTU/CF	925.3	922.7	922.5	918.8	928.6	936.5	925.1	915.9	916.9	922.9		948.2	825.4	915.9	948.2
	SPEC GRAV	0.6181	0.6180	0.6213	0.6276	0.6203	0.6092	0.6029	0.5946	0.5992	0.6009		0.5902	0.5439	0.5902	0.6276

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WOBBE INDEX	1304.8	1301.2	1297.5	1285.5	1307.0	1330.3	1321.2	1317.7	1313.9	1320.5		1368.6	1171.4	1285.5	1368.6
%DIF	2.6	2.3	2.0	1.1	2.8	4.6	3.9	3.6	3.3	3.8	0.0	7.6	3.0	1.1	7.6
LIQ GAL/MCF	0.249	0.248	0.269	0.319	0.296	0.184	0.167	0.220	0.239	0.265		0.204	0.220	0.167	0.319

H2O LB/MMCF												*	*	*	
H2S PPMV												*	*	*	
O2 PPMV												*	*	*	

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO VOLUME WEIGHTED
2019 DATE RUN: 03/18/2019
TIME RUN: 14:07:06

0 SITE ID: ASBS SITE NAME: ASBURY MAINLINE SOUTH DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1272 DATA SOURCE: HPG GRAND JUNCTION
AIR BLENDED: N

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

CO2	0.000	2.565											1.215	0.000	2.565
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	1.161	1.248											1.202	1.161	1.248
METHANE	94.098	91.904											93.059	91.904	94.098
ETHANE	4.120	3.563											3.856	3.563	4.120
PROPANE	0.424	0.466											0.444	0.424	0.466
I-BUTANE	0.061	0.075											0.068	0.061	0.075
N-BUTANE	0.084	0.106											0.094	0.084	0.106
I-PENTANE	0.025	0.033											0.029	0.025	0.033
N-PENTANE	0.018	0.025											0.021	0.018	0.025
HEXANES+	0.009	0.015											0.012	0.009	0.015
TOTAL	100.00	100.00											100.00		

N2/O2															
%INERTS	1.161	3.813											2.417	1.161	3.813

----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----

VOL(MMCF)	400.0	360.1											380.1	360.1	400.0
HIGH BTU/CF	1045.6	1016.5											1031.8	1016.5	1045.6
LOW BTU/CF	942.8	916.6											930.4	916.6	942.8
SPEC GRAV	0.5869	0.6107											0.5982	0.5869	0.6107
WOBBE INDEX	1364.8	1300.7											1334.4	1300.7	1364.8
%DIF	7.3	2.3											4.9	2.3	7.3
LIQ GAL/MCF	0.183	0.214											0.198	0.183	0.214

H2O LB/MMCF													*	*	*
H2S PPMV													*	*	*
O2 PPMV													*	*	*

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO VOLUME WEIGHTED
2018 DATE RUN: 03/18/2019
TIME RUN: 14:07:06

0 SITE ID: ORCO SITE NAME: ORCHARD MESA OUTLET DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1272 DATA SOURCE: HPG GRAND JUNCTION
AIR BLENDED: N

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

CO2	1.591	1.690	1.676	0.000	0.000	0.000	2.379	0.000	0.000	0.000	1.736	1.721	1.678	1.591	2.379
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.193	0.236	0.271	0.000	0.000	0.000	1.374	0.000	0.000	0.000	0.334	0.266	0.253	0.193	1.374

PUC_Reports_Q2-2019.txt															
METHANE	92.577	91.214	90.500	0.000	0.000	0.000	91.272	0.000	0.000	0.000	91.160	92.445	91.803	90.500	92.577
ETHANE	5.345	6.786	7.534	0.000	0.000	0.000	4.219	0.000	0.000	0.000	6.661	5.523	6.141	4.219	7.534
PROPANE	0.232	0.059	0.019	0.000	0.000	0.000	0.496	0.000	0.000	0.000	0.100	0.044	0.104	0.019	0.496
I-BUTANE	0.022	0.005	0.000	0.000	0.000	0.000	0.078	0.000	0.000	0.000	0.003	0.001	0.008	0.000	0.078
N-BUTANE	0.021	0.005	0.000	0.000	0.000	0.000	0.101	0.000	0.000	0.000	0.004	0.000	0.007	0.000	0.101
I-PENTANE	0.007	0.002	0.000	0.000	0.000	0.000	0.031	0.000	0.000	0.000	0.001	0.000	0.002	0.000	0.031
N-PENTANE	0.004	0.001	0.000	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.022
HEXANES+	0.008	0.002	0.000	0.000	0.000	0.000	0.028	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.028
TOTAL	100.00	100.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	100.00	100.00		
N2/O2	1.784	1.926	1.947	0.000	0.000	0.000	3.753	0.000	0.000	0.000	2.070	1.987	1.931	1.784	3.753
%INERTS															
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	98.3	78.5	37.9	.0	.0	.0	.0	.0	.0	.0	64.3	95.0	74.8	.0	98.3
HIGH BTU/CF	1042.5	1048.2	1052.7				1023.0				1046.2	1037.2	1044.0	1023.0	1052.7
LOW BTU/CF	940.2	945.5	949.8				922.6				943.8	935.3	941.7	922.6	949.8
SPEC GRAV	0.6003	0.6060	0.6090				0.6132				0.6065	0.5998	0.6033	0.5998	0.6132
WOBBE INDEX	1345.5	1346.5	1349.0				1306.4				1343.4	1339.2	1344.1	1306.4	1349.0
%DIF	5.8	5.9	6.1	0.0	0.0	0.0	2.7	0.0	0.0	0.0	5.6	5.3	5.7	2.7	6.1
LIQ GAL/MCF	0.085	0.021	0.005				0.225				0.031	0.012	0.036	0.005	0.225
H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H2S PPMV				0.0	0.0	0.0		0.0	0.0	0.0			*	*	*
O2 PPMV				0.0	0.0	0.0		0.0	0.0	0.0			*	*	*
01REPORT R69629S1													VOLUME WEIGHTED		
PUBLIC SERVICE COMPANY OF COLORADO													DATE RUN: 03/18/2019		
2019													TIME RUN: 14:07:06		
0 SITE ID: ORCO													DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH		
SITE NAME: ORCHARD MESA OUTLET													DATA SOURCE: HPG GRAND JUNCTION		
TARGET WOBBE: 1272															
AIR BLENDED: N															
0 MTH: JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC													AVG	MIN	MAX
CO2	1.432	1.544											1.479	1.432	1.544
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	0.201	0.225											0.211	0.201	0.225
METHANE	94.534	94.065											94.336	94.065	94.534
ETHANE	3.723	3.976											3.830	3.723	3.976
PROPANE	0.103	0.178											0.135	0.103	0.178
I-BUTANE	0.004	0.007											0.005	0.004	0.007
N-BUTANE	0.003	0.005											0.004	0.003	0.005
I-PENTANE	0.000	0.000											0.000	0.000	0.000
N-PENTANE	0.000	0.000											0.000	0.000	0.000
HEXANES+	0.000	0.000											0.000	0.000	0.000
TOTAL	100.00	100.00											100.00		
N2/O2	1.633	1.769											1.691	1.633	1.769
%INERTS															
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	111.4	82.0											96.7	82.0	111.4
HIGH BTU/CF	1028.1	1029.9											1028.9	1028.1	1029.9
LOW BTU/CF	926.7	928.4											927.4	926.7	928.4
SPEC GRAV	0.5887	0.5919											0.5901	0.5887	0.5919

WOBBE INDEX	1339.9	1338.7	1339.4	1338.7	1339.9
%DIF	5.3	5.2	5.3	5.2	5.3
LIQ GAL/MCF	0.031	0.053	0.040	0.031	0.053
-----			-----		
H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0
H2S PPMV			*	*	*
O2 PPMV			*	*	*
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0
1REPORT R699680

PUBLIC SERVICE COMPANY OF COLORADO
BTU ZONE SUMMARY HEATING VALUES REPORT
SECOND QUARTER, 2019

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:06

BTU ZONE: GREASEWOOD									
		NET	HV (BTU/CF, 14.73 PSIA, 60 F, DRY)			VOLUME (MCF AT 14.73 PSIA)			
SITE ID	SAMPLING SITE NAME	FLOW	DECEMBER	JANUARY	FEBRUARY	DECEMBER	JANUARY	FEBRUARY	
STEAMBT	STEAMBOAT TOWN BORDER	IN	1049.2	1024.3	1024.3	23,182	23,900	19,420	
VOLUME WEIGHTED HEATING VALUE:			1049.2	1024.3	1024.3	TOTAL VOL:	23,182	23,900	19,420
QUARTER AVERAGE HEATING VALUE:			1032.6						

1REPORT R69629Z0

DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.
PUBLIC SERVICE COMPANY OF COLORADO
2018

DATE RUN: 03/18/2019
TIME RUN: 14:07:06

ZONE NAME: GREASEWOOD																
	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.607	0.887	0.846	0.846	1.114	1.650	1.112	0.816	0.867	0.867	0.108	0.631	0.069	0.656	0.069	1.650
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.392	0.491	0.553	0.553	0.960	1.602	1.420	1.077	0.793	0.793	0.381	0.464	0.314	0.586	0.314	1.602
METHANE	93.605	93.286	93.115	93.115	92.077	88.644	91.840	93.791	93.239	94.753	94.753	97.429	94.660	93.878	88.644	97.429
ETHANE	5.151	4.986	5.189	5.189	5.071	6.597	4.755	3.358	4.560	4.553	1.330	4.922	4.523	1.330	6.597	6.597
PROPANE	0.167	0.260	0.219	0.219	0.576	1.191	0.669	0.646	0.341	0.176	0.094	0.000	0.257	0.000	1.191	1.191
I-BUTANE	0.025	0.033	0.028	0.028	0.074	0.128	0.081	0.111	0.070	0.000	0.034	0.017	0.038	0.000	0.128	0.128
N-BUTANE	0.028	0.039	0.039	0.039	0.084	0.143	0.092	0.141	0.088	0.029	0.018	0.010	0.045	0.010	0.143	0.143
I-PENTANE	0.009	0.010	0.007	0.007	0.020	0.025	0.017	0.031	0.020	0.000	0.000	0.000	0.008	0.000	0.031	0.031
N-PENTANE	0.006	0.006	0.004	0.004	0.013	0.014	0.010	0.021	0.017	0.000	0.000	0.000	0.005	0.000	0.021	0.021
HEXANES+	0.010	0.002	0.000	0.000	0.011	0.006	0.004	0.008	0.005	0.000	0.000	0.000	0.004	0.000	0.011	0.011
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
N2/O2 %INERTS	0.999	1.378	1.399	1.399	2.074	3.252	2.532	1.893	1.660	0.489	1.095	0.383	1.242	0.383	3.252	
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																
VOL(MMCF)	16.9	15.5	15.0	11.2	7.1	5.5	4.7	5.7	8.6	13.2	17.2	23.2	12.0	4.7	23.2	
HIGH BTU/CF	1048.3	1044.8	1045.1	1045.1	1046.0	1057.7	1040.3	1038.3	1042.6	1047.7	1016.0	1049.2	1042.8	1016.0	1057.7	
LOW BTU/CF	945.3	942.1	942.5	942.5	943.6	954.8	938.3	936.3	940.2	944.6	915.2	945.9	940.3	915.2	954.8	
SPEC GRAV	0.5902	0.5936	0.5938	0.5938	0.6030	0.6260	0.6042	0.5946	0.5951	0.5817	0.5709	0.5813	0.5896	0.5709	0.6260	
WOBBE INDEX	1364.5	1356.1	1356.2	1356.2	1347.0	1336.8	1338.3	1346.5	1351.5	1373.7	1344.7	1376.1	1358.2	1336.8	1376.1	
LIQ GAL/MCF	0.073	0.101	0.086	0.086	0.226	0.432	0.251	0.281	0.160	0.058	0.043	0.012	0.104	0.012	0.432	

0
1REPORT R69629Z0

PUBLIC SERVICE COMPANY OF COLORADO
2019

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:06

0														
-														
ZONE NAME: GREASEWOOD														
MTH: JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC AVG MIN MAX														

CO2	0.576	0.576	0.576	0.576	0.576
OXYGEN	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.242	0.242	0.242	0.242	0.242
METHANE	96.804	96.804	96.804	96.804	96.804
ETHANE	2.378	2.378	2.378	2.378	2.378
PROPANE	0.000	0.000	0.000	0.000	0.000
I-BUTANE	0.000	0.000	0.000	0.000	0.000
N-BUTANE	0.000	0.000	0.000	0.000	0.000
I-PENTANE	0.000	0.000	0.000	0.000	0.000
N-PENTANE	0.000	0.000	0.000	0.000	0.000
HEXANES+	0.000	0.000	0.000	0.000	0.000
TOTAL	100.00	100.00	100.00	100.00	

N2/O2					
%INERTS	0.818	0.818	0.818	0.818	0.818
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----					
VOL(MMCF)	23.9	19.4	21.7	19.4	23.9
HIGH BTU/CF	1024.3	1024.3	1024.3	1024.3	1024.3
LOW BTU/CF	922.9	922.9	922.9	922.9	922.9
SPEC GRAV	0.5729	0.5729	0.5729	0.5729	0.5729
WOBBE INDEX	1353.3	1353.3	1353.3	1353.3	1353.3
LIQ GAL/MCF	*	*	0.000	0.000	0.000

0	PUBLIC SERVICE COMPANY OF COLORADO												VOLUME WEIGHTED		
1	REPORT R69629S1												DATE RUN: 03/18/2019		
	2018												TIME RUN: 14:07:06		
0	SITE ID: STEAMBT			SITE NAME: STEAMBOAT TOWN BORDER			DATA TYPE: COMP ONLINE GAS CHROM (MANUAL)								
				TARGET WOBBE: 1327			DATA SOURCE: HPG MEEKER								
				AIR BLENDED: N											
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	0.607	0.887	0.846	0.846	1.114	1.650	1.112	0.816	0.867	0.108	0.631	0.069	0.656	1.650
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.392	0.491	0.553	0.553	0.960	1.602	1.420	1.077	0.793	0.381	0.464	0.314	0.586	1.602
	METHANE	93.605	93.286	93.115	93.115	92.077	88.644	91.840	93.791	93.239	94.753	97.429	94.660	93.878	97.429
	ETHANE	5.151	4.986	5.189	5.189	5.071	6.597	4.755	3.358	4.560	4.553	1.330	4.922	4.523	6.597
	PROPANE	0.167	0.260	0.219	0.219	0.576	1.191	0.669	0.646	0.341	0.176	0.094	0.000	0.257	1.191
	I-BUTANE	0.025	0.033	0.028	0.028	0.074	0.128	0.081	0.111	0.070	0.000	0.034	0.017	0.038	0.128
	N-BUTANE	0.028	0.039	0.039	0.039	0.084	0.143	0.092	0.141	0.088	0.029	0.018	0.010	0.045	0.143
	I-PENTANE	0.009	0.010	0.007	0.007	0.020	0.025	0.017	0.031	0.020	0.000	0.000	0.000	0.008	0.031
	N-PENTANE	0.006	0.006	0.004	0.004	0.013	0.014	0.010	0.021	0.017	0.000	0.000	0.000	0.005	0.021
	HEXANES+	0.010	0.002	0.000	0.000	0.011	0.006	0.004	0.008	0.005	0.000	0.000	0.008	0.004	0.011
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	

	N2/O2														
	%INERTS	0.999	1.378	1.399	1.399	2.074	3.252	2.532	1.893	1.660	0.489	1.095	0.383	1.242	3.252
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
	VOL(MMCF)	16.9	15.5	15.0	11.2	7.1	5.5	4.7	5.7	8.6	13.2	17.2	23.2	12.0	23.2
	HIGH BTU/CF	1048.3	1044.8	1045.1	1045.1	1046.0	1057.7	1040.3	1038.3	1042.6	1047.7	1016.0	1049.2	1042.8	1057.7
	LOW BTU/CF	945.3	942.1	942.5	942.5	943.6	954.8	938.3	936.3	940.2	944.6	915.2	945.9	940.3	954.8
	SPEC GRAV	0.5902	0.5936	0.5938	0.5938	0.6030	0.6260	0.6042	0.5946	0.5951	0.5817	0.5709	0.5813	0.5896	0.6260
	WOBBE INDEX	1364.5	1356.1	1356.2	1356.2	1347.0	1336.8	1338.3	1346.5	1351.5	1373.7	1344.7	1376.1	1358.2	1376.1
	%DIF	2.8	2.2	2.2	2.2	1.5	0.7	0.9	1.5	1.8	3.5	1.3	3.7	2.3	3.7
	LIQ GAL/MCF	0.073	0.101	0.086	0.086	0.226	0.432	0.251	0.281	0.160	0.058	0.043	0.012	0.104	0.432

-----												*	*	*																	
H2O LB/MMCF												*	*	*																	
H2S PPMV												*	*	*																	
O2 PPMV												*	*	*																	
-----												-----																			
0												VOLUME WEIGHTED																			
1	REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO											DATE RUN: 03/18/2019																			
	2019											TIME RUN: 14:07:07																			
0	SITE ID: STEAMBT SITE NAME: STEAMBOAT TOWN BORDER DATA TYPE: COMP ONLINE GAS CHROM (MANUAL)																														
	TARGET WOBBE: 1327 DATA SOURCE: HPG MEEKER																														
	AIR BLENDED: N																														
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX																
-----													-----																		
	CO2	0.576	0.576										0.576	0.576	0.576																
	OXYGEN	0.000	0.000										0.000	0.000	0.000																
	NITROGEN	0.242	0.242										0.242	0.242	0.242																
	METHANE	96.804	96.804										96.804	96.804	96.804																
	ETHANE	2.378	2.378										2.378	2.378	2.378																
	PROPANE	0.000	0.000										0.000	0.000	0.000																
	I-BUTANE	0.000	0.000										0.000	0.000	0.000																
	N-BUTANE	0.000	0.000										0.000	0.000	0.000																
	I-PENTANE	0.000	0.000										0.000	0.000	0.000																
	N-PENTANE	0.000	0.000										0.000	0.000	0.000																
	HEXANES+	0.000	0.000										0.000	0.000	0.000																
	TOTAL	100.00	100.00										100.00																		
-----												-----																			
	N2/O2																														
	%INERTS	0.818	0.818										0.818	0.818	0.818																
-----												-----																			
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																															
-----												-----																			
	VOL (MMCF)	23.9	19.4										21.7	19.4	23.9																
	HIGH BTU/CF	1024.3	1024.3										1024.3	1024.3	1024.3																
	LOW BTU/CF	922.9	922.9										922.9	922.9	922.9																
	SPEC GRAV	0.5729	0.5729										0.5729	0.5729	0.5729																
	WOBBE INDEX	1353.3	1353.3										1353.3	1353.3	1353.3																
	%DIF	2.0	2.0										2.0	2.0	2.0																
	LIQ GAL/MCF	*	*										0.000	0.000	0.000																
-----												-----																			
	H2O LB/MMCF												*	*	*																
	H2S PPMV												*	*	*																
	O2 PPMV												*	*	*																
-----												-----																			
0												VOLUME WEIGHTED																			
1	REPORT R699680 PUBLIC SERVICE COMPANY OF COLORADO											DATE RUN: 03/18/2019																			
	BTU ZONE SUMMARY HEATING VALUES REPORT											TIME RUN: 14:07:07																			
	SECOND QUARTER, 2019																														
0	BTU ZONE: MERINO																														
0																															
	SITE ID	SAMPLING SITE NAME	NET FLOW	HV (BTU/CF, 14.73 PSIA, 60 F, DRY)			VOLUME (MCF AT 14.73 PSIA)																								
				DECEMBER	JANUARY	FEBRUARY	DECEMBER	JANUARY	FEBRUARY																						
0	SSTR2	SOUTHERN STAR ARITH AVG	IN	1049.4	1049.8	1049.2	N/A	N/A	N/A																						
0		STRAIGHT AVERAGED HEATING VALUE:		1049.4	1049.8	1049.2	TOTAL VOL:	0	0	0																					
0		QUARTER AVERAGE HEATING VALUE:		1049.5																											
-																															
	DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.																														
1	REPORT R69629Z0 PUBLIC SERVICE COMPANY OF COLORADO											DATE RUN: 03/18/2019																			
	2018											TIME RUN: 14:07:07																			

ZONE NAME: MERINO																
	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.220	0.317	0.240	0.184	0.179	0.236	0.011	0.043	0.067	0.038	0.022	0.211	0.147	0.011	0.317	
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
NITROGEN	0.256	0.284	0.276	0.244	0.242	0.255	0.228	0.237	0.234	0.248	0.252	0.349	0.259	0.228	0.349	
METHANE	96.181	96.836	97.065	93.797	93.846	92.841	92.960	92.491	93.017	94.728	96.145	94.527	94.537	92.491	97.065	
ETHANE	3.202	2.396	2.358	5.609	5.539	6.040	6.482	6.920	6.366	4.785	3.469	4.589	4.813	2.358	6.920	
PROPANE	0.119	0.129	0.052	0.148	0.175	0.507	0.299	0.286	0.277	0.180	0.096	0.264	0.211	0.052	0.507	
I-BUTANE	0.011	0.017	0.004	0.008	0.010	0.046	0.011	0.011	0.018	0.009	0.007	0.020	0.014	0.004	0.046	
N-BUTANE	0.009	0.016	0.004	0.007	0.009	0.048	0.008	0.008	0.015	0.008	0.006	0.026	0.014	0.004	0.048	
I-PENTANE	0.001	0.003	0.000	0.001	0.000	0.011	0.000	0.001	0.003	0.001	0.001	0.005	0.002	0.000	0.011	
N-PENTANE	0.000	0.001	0.000	0.001	0.000	0.008	0.000	0.001	0.001	0.001	0.001	0.003	0.001	0.000	0.008	
HEXANES+	0.001	0.001	0.001	0.001	0.000	0.008	0.001	0.002	0.002	0.002	0.001	0.006	0.002	0.000	0.008	
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00			
N2/O2 %INERTS	0.476	0.601	0.516	0.428	0.421	0.491	0.239	0.280	0.301	0.286	0.274	0.560	0.406	0.239	0.601	
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
VOL(MMCF)																
HIGH BTU/CF	1036.4	1029.5	1028.2	1055.7	1055.6	1066.5	1066.7	1069.5	1065.3	1051.4	1040.0	1049.4	1051.2	1028.2	1069.5	
LOW BTU/CF	934.0	927.6	926.4	952.1	952.0	962.1	962.3	964.9	961.0	948.0	937.3	946.2	947.8	926.4	964.9	
SPEC GRAV	0.5750	0.5725	0.5703	0.5866	0.5864	0.5944	0.5906	0.5930	0.5907	0.5815	0.5740	0.5841	0.5833	0.5703	0.5944	
WOBBE INDEX	1366.8	1360.6	1361.5	1378.4	1378.5	1383.3	1388.0	1388.8	1386.1	1378.8	1372.7	1373.1	1376.4	1360.6	1388.8	
LIQ GAL/MCF	0.040	0.048	0.017	0.047	0.054	0.180	0.089	0.086	0.089	0.057	0.032	0.093	0.069	0.017	0.180	

01REPORT R69629Z0

PUBLIC SERVICE COMPANY OF COLORADO
2019

STRAIGHT AVERAGED
DATE RUN: 03/18/2019
TIME RUN: 14:07:07

ZONE NAME: MERINO																
	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.237	0.586												0.412	0.237	0.586
OXYGEN	0.000	0.000												0.000	0.000	0.000
NITROGEN	0.451	0.594												0.523	0.451	0.594
METHANE	94.392	93.481												93.934	93.481	94.392
ETHANE	4.505	4.709												4.607	4.505	4.709
PROPANE	0.288	0.519												0.404	0.288	0.519
I-BUTANE	0.023	0.036												0.030	0.023	0.036
N-BUTANE	0.029	0.049												0.039	0.029	0.049
I-PENTANE	0.063	0.009												0.036	0.009	0.063
N-PENTANE	0.005	0.007												0.006	0.005	0.007
HEXANES+	0.007	0.010												0.009	0.007	0.010
TOTAL	100.00	100.00												100.00		
N2/O2																
%INERTS	0.688	1.180												0.934	0.688	1.180
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																
VOL (MMCF)																
HIGH BTU/CF	1049.8	1049.2												1049.5	1049.2	1049.8
LOW BTU/CF	946.6	946.2												946.4	946.2	946.6
SPEC GRAV	0.5859	0.5926												0.5893	0.5859	0.5926

PUC_Reports_Q2-2019.txt

WOBBE INDEX 1371.5 1362.9
LIQ GAL/MCF 0.124 0.180

1367.2 1362.9 1371.5
0.152 0.124 0.180

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO
2018 STRAIGHT AVERAGED
DATE RUN: 03/18/2019
TIME RUN: 14:07:07

0 SITE ID: SSTR2 SITE NAME: SOUTHERN STAR ARITH AVG DATA TYPE: AVG ONLINE GAS CHROM (MANUAL)
TARGET WOBBE: 1327 DATA SOURCE: SOUTHERN STAR
AIR BLENDED: N

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.220	0.317	0.240	0.184	0.179	0.236	0.011	0.043	0.067	0.038	0.022	0.211	0.147	0.011	0.317
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.256	0.284	0.276	0.244	0.242	0.255	0.228	0.237	0.234	0.248	0.252	0.349	0.259	0.228	0.349
METHANE	96.181	96.836	97.065	93.797	93.846	92.841	92.960	92.491	93.017	94.728	96.145	94.527	94.537	92.491	97.065
ETHANE	3.202	2.396	2.358	5.609	5.539	6.040	6.482	6.920	6.366	4.785	3.469	4.589	4.813	2.358	6.920
PROPANE	0.119	0.129	0.052	0.148	0.175	0.507	0.299	0.286	0.277	0.180	0.096	0.264	0.211	0.052	0.507
I-BUTANE	0.011	0.017	0.004	0.008	0.010	0.046	0.011	0.011	0.018	0.009	0.007	0.020	0.014	0.004	0.046
N-BUTANE	0.009	0.016	0.004	0.007	0.009	0.048	0.008	0.008	0.015	0.008	0.006	0.026	0.014	0.004	0.048
I-PENTANE	0.001	0.003	0.000	0.001	0.000	0.011	0.000	0.001	0.003	0.001	0.001	0.005	0.002	0.000	0.011
N-PENTANE	0.000	0.001	0.000	0.001	0.000	0.008	0.000	0.001	0.001	0.001	0.001	0.003	0.001	0.000	0.008
HEXANES+	0.001	0.001	0.001	0.001	0.000	0.008	0.001	0.002	0.002	0.002	0.001	0.006	0.002	0.000	0.008
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
N2/O2	0.476	0.601	0.516	0.428	0.421	0.491	0.239	0.280	0.301	0.286	0.274	0.560	0.406	0.239	0.601

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
VOL(MMCF)															
HIGH BTU/CF	1036.4	1029.5	1028.2	1055.7	1055.6	1066.5	1066.7	1069.5	1065.3	1051.4	1040.0	1049.4	1051.2	1028.2	1069.5
LOW BTU/CF	934.0	927.6	926.4	952.1	952.0	962.1	962.3	964.9	961.0	948.0	937.3	946.2	947.8	926.4	964.9
SPEC GRAV	0.5750	0.5725	0.5703	0.5866	0.5864	0.5944	0.5906	0.5930	0.5907	0.5815	0.5740	0.5841	0.5833	0.5703	0.5944
WOBBE INDEX	1366.8	1360.6	1361.5	1378.4	1378.5	1383.3	1388.0	1388.8	1386.1	1378.8	1372.7	1373.1	1376.4	1360.6	1388.8
%DIF	3.0	2.5	2.6	3.9	3.9	4.2	4.6	4.7	4.5	3.9	3.4	3.5	3.7	2.5	4.7
LIQ GAL/MCF	0.040	0.048	0.017	0.047	0.054	0.180	0.089	0.086	0.089	0.057	0.032	0.093	0.069	0.017	0.180

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
H2O LB/MMCF													*	*	*
H2S PPMV													*	*	*
O2 PPMV													*	*	*

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO
2019 STRAIGHT AVERAGED
DATE RUN: 03/18/2019
TIME RUN: 14:07:07

0 SITE ID: SSTR2 SITE NAME: SOUTHERN STAR ARITH AVG DATA TYPE: AVG ONLINE GAS CHROM (MANUAL)
TARGET WOBBE: 1327 DATA SOURCE: SOUTHERN STAR
AIR BLENDED: N

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.237	0.586											0.412	0.237	0.586
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	0.451	0.594											0.523	0.451	0.594
METHANE	94.392	93.481											93.934	93.481	94.392
ETHANE	4.505	4.709											4.607	4.505	4.709
PROPANE	0.288	0.519											0.404	0.288	0.519
I-BUTANE	0.023	0.036											0.030	0.023	0.036
N-BUTANE	0.029	0.049											0.039	0.029	0.049
I-PENTANE	0.063	0.009											0.036	0.009	0.063

N-PENTANE	0.005	0.007												0.006	0.005	0.007
HEXANES+	0.007	0.010												0.009	0.007	0.010
TOTAL	100.00	100.00												100.00		

N2/O2																
%INERTS	0.688	1.180												0.934	0.688	1.180
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
VOL(MMCF)																
HIGH BTU/CF	1049.8	1049.2												1049.5	1049.2	1049.8
LOW BTU/CF	946.6	946.2												946.4	946.2	946.6
SPEC GRAV	0.5859	0.5926												0.5893	0.5859	0.5926
WOBBE INDEX	1371.5	1362.9												1367.2	1362.9	1371.5
%DIF	3.4	2.7												3.1	2.7	3.4
LIQ GAL/MCF	0.124	0.180												0.152	0.124	0.180

H2O LB/MMCF														*	*	*
H2S PPMV														*	*	*
O2 PPMV														*	*	*

0														STRAIGHT AVERAGED		
1REPORT R699680														DATE RUN: 03/18/2019		
														TIME RUN: 14:07:07		

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VOL(MMCF)																
HIGH BTU/CF	1031.0	1045.2	1043.5	1044.2	1026.8	1005.0	1041.4	1002.9	997.1	1023.9	1050.1	1057.0	1030.7	997.1	1057.0	
LOW BTU/CF	931.7	944.8	943.1	943.8	927.9	906.6	941.0	904.6	899.0	924.4	949.6	955.8	931.0	899.0	955.8	
SPEC GRAV	0.6678	0.6708	0.6686	0.6677	0.6689	0.6329	0.6629	0.6285	0.6219	0.6494	0.6864	0.6801	0.6588	0.6219	0.6864	
WOBBE INDEX	1261.6	1276.2	1276.2	1277.9	1255.5	1263.3	1279.1	1265.0	1264.4	1270.6	1267.5	1281.7	1269.9	1255.5	1281.7	
LIQ GAL/MCF	0.183	0.360	0.171	0.194	0.318	0.263	0.434	0.176	0.160	0.336	0.586	0.508	0.307	0.160	0.586	

0

1REPORT R69629Z0

PUBLIC SERVICE COMPANY OF COLORADO

2019

STRAIGHT AVERAGED

DATE RUN: 03/18/2019

TIME RUN: 14:07:07

0

ZONE NAME: MOUNTAIN

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.850	2.040											1.945	1.850	2.040
OXYGEN	1.350	1.370											1.360	1.350	1.370
NITROGEN	5.260	5.320											5.290	5.260	5.320
METHANE	77.760	77.500											77.630	77.500	77.760
ETHANE	12.040	11.560											11.800	11.560	12.040
PROPANE	1.260	1.640											1.450	1.260	1.640
I-BUTANE	0.110	0.140											0.125	0.110	0.140
N-BUTANE	0.250	0.310											0.280	0.250	0.310
I-PENTANE	0.040	0.050											0.045	0.040	0.050
N-PENTANE	0.050	0.050											0.050	0.050	0.050
HEXANES+	0.030	0.020											0.025	0.020	0.030
TOTAL	100.00	100.00											100.00		
N2/O2	3.896	3.883											3.890	3.883	3.896
%INERTS	8.460	8.730											8.595	8.460	8.730
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)															
HIGH BTU/CF	1052.1	1053.4											1052.8	1052.1	1053.4
LOW BTU/CF	951.3	952.7											952.0	951.3	952.7
SPEC GRAV	0.6806	0.6854											0.6830	0.6806	0.6854
WOBBE INDEX	1275.3	1272.4											1273.9	1272.4	1275.3
LIQ GAL/MCF	0.507	0.640											0.574	0.507	0.640

0

1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO

2018

STRAIGHT AVERAGED

DATE RUN: 03/18/2019

TIME RUN: 14:07:07

0

SITE ID: DLLNSILV

SITE NAME: DILLON/SILVERTHORNE

TARGET WOBBE: 1207

AIR BLENDED: N

DATA TYPE: COMP COMPOSITE SAMPLER (MANUAL)

DATA SOURCE: HPG MEEKER

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.830	1.830	1.920	1.830	1.830	3.180	2.110	3.230	3.590	2.830	2.080	2.110	2.364	1.830	3.590
OXYGEN	1.370	1.260	1.200	1.210	1.440	0.610	1.050	0.540	0.370	0.800	1.420	1.190	1.038	0.370	1.440
NITROGEN	5.340	4.890	4.720	4.720	5.610	2.410	4.180	2.120	1.490	3.150	5.500	4.700	4.069	1.490	5.610
METHANE	78.770	79.010	78.700	78.900	79.110	87.940	81.200	88.490	90.260	84.430	77.090	78.200	81.842	77.090	90.260
ETHANE	12.050	11.760	12.860	12.660	10.900	4.940	9.930	4.990	3.730	7.610	11.890	12.060	9.615	3.730	12.860
PROPANE	0.510	0.960	0.500	0.540	0.880	0.740	1.300	0.580	0.460	0.950	1.480	1.230	0.844	0.460	1.480
I-BUTANE	0.040	0.080	0.030	0.040	0.060	0.050	0.070	0.020	0.030	0.070	0.130	0.120	0.062	0.020	0.130
N-BUTANE	0.070	0.160	0.050	0.080	0.130	0.100	0.120	0.030	0.050	0.130	0.290	0.270	0.123	0.030	0.290
I-PENTANE	0.010	0.020	0.010	0.010	0.020	0.020	0.020	0.000	0.010	0.020	0.050	0.050	0.020	0.000	0.050
N-PENTANE	0.010	0.020	0.010	0.010	0.020	0.010	0.010	0.000	0.010	0.010	0.050	0.050	0.018	0.000	0.050
HEXANES+	0.000	0.010	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.020	0.020	0.005	0.000	0.020

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TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
N2/O2	3.898	3.881	3.933	3.901	3.896	3.951	3.981	3.926	4.027	3.938	3.873	3.950	3.930
%INERTS	8.540	7.980	7.840	7.760	8.880	6.200	7.340	5.890	5.450	6.780	9.000	8.000	7.472
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)													
VOL(MMCF)													
HIGH BTU/CF	1031.0	1045.2	1043.5	1044.2	1026.8	1005.0	1041.4	1002.9	997.1	1023.9	1050.1	1057.0	1030.7
LOW BTU/CF	931.7	944.8	943.1	943.8	927.9	906.6	941.0	904.6	899.0	924.4	949.6	955.8	931.0
SPEC GRAV	0.6678	0.6708	0.6686	0.6677	0.6689	0.6329	0.6629	0.6285	0.6219	0.6494	0.6864	0.6801	0.6588
WOBBE INDEX	1261.6	1276.2	1276.2	1277.9	1255.5	1263.3	1279.1	1265.0	1264.4	1270.6	1267.5	1281.7	1269.9
%DIF	4.5	5.7	5.7	5.9	4.0	4.7	6.0	4.8	4.8	5.3	5.0	6.2	5.2
LIQ GAL/MCF	0.183	0.360	0.171	0.194	0.318	0.263	0.434	0.176	0.160	0.336	0.586	0.508	0.307
H2O LB/MMCF													*
H2S PPMV													*
O2 PPMV													*
STRAIGHT AVERAGED													
DATE RUN: 03/18/2019													
TIME RUN: 14:07:07													
PUBLIC SERVICE COMPANY OF COLORADO													
2019													
SITE ID: DLLNSILV SITE NAME: DILLON/SILVERTHORNE													
TARGET WOBBE: 1207													
DATA TYPE: COMP COMPOSITE SAMPLER (MANUAL)													
DATA SOURCE: HPG MEEKER													
AIR BLENDED: N													
MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG
CO2	1.850	2.040											1.945
OXYGEN	1.350	1.370											1.360
NITROGEN	5.260	5.320											5.290
METHANE	77.760	77.500											77.630
ETHANE	12.040	11.560											11.800
PROPANE	1.260	1.640											1.450
I-BUTANE	0.110	0.140											0.125
N-BUTANE	0.250	0.310											0.280
I-PENTANE	0.040	0.050											0.045
N-PENTANE	0.050	0.050											0.050
HEXANES+	0.030	0.020											0.025
TOTAL	100.00	100.00											100.00
N2/O2	3.896	3.883											3.890
%INERTS	8.460	8.730											8.595
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)													
VOL(MMCF)													
HIGH BTU/CF	1052.1	1053.4											1052.8
LOW BTU/CF	951.3	952.7											952.0
SPEC GRAV	0.6806	0.6854											0.6830
WOBBE INDEX	1275.3	1272.4											1273.9
%DIF	5.7	5.4											5.6
LIQ GAL/MCF	0.507	0.640											0.574
H2O LB/MMCF													*
H2S PPMV													*
O2 PPMV													*

0											STRAIGHT	AVERAGED
1	REPORT R699680	PUBLIC SERVICE COMPANY OF COLORADO										DATE RUN: 03/18/2019
		BTU ZONE SUMMARY HEATING VALUES REPORT										TIME RUN: 14:07:08
		SECOND QUARTER, 2019										
0	BTU ZONE: NORTHERN											
0		NET	HV (BTU/CF, 14.73 PSIA, 60 F, DRY)			VOLUME (MCF AT 14.73 PSIA)						
	SITE ID	SAMPLING SITE NAME	FLOW	DECEMBER	JANUARY	FEBRUARY	DECEMBER	JANUARY	FEBRUARY	DECEMBER	JANUARY	FEBRUARY
0	AMCN	WGR NORTH (WATTENBERG)	IN	1115.0	1115.9	1125.3	531,891	562,490	478,016			
	CBTW	CHALK BLUFFS TO PSCO 8-IN	IN	1091.5	0.0	0.0	32,547	0	0			
	CB24	CHLK BL TO FRONT RANGE PL	IN	1103.7	1099.8	1084.3	6,310,698	4,222,695	4,148,784			
	CIGAUL	CIG AULT PURCHASE POINT	IN	1114.5	1110.4	1117.7	240,015	430,198	304,007			
	CIGBCR	CIG BEAVER CREEK EAST	IN	1130.6	1133.6	1133.6	25,877	45,290	194,314			
	CIGGRE	CIG GREELEY PURCHASE PT	IN	1122.8	1112.5	1118.8	160,034	417,700	719,321			
	CIGLUP	CIG FT LUPTON PURCHASE PT	IN	1144.4	1143.9	1138.7	1,481,839	2,117,233	1,956,432			
	CIGWIG	CIG WIGGINS/ROUNDUP DEL	IN	1138.0	1134.3	1136.4	27,789	156,577	233,185			
	CIG1CK	CIG FIRST CREEK	IN	1134.3	1136.8	1137.7	137,422	255,882	310,882			
	EATN	DCP EATON GAS PLANT	IN	0.0	0.0	0.0	0	0	0			
	FTSV	FORT ST VRAIN POWER PLANT	OUT	1102.5	1103.9	1087.9	-1,899,727	-2,274,095	-2,398,730			
	HSRS	ANADARKO FT LUPTON RESIDU	IN	0.0	0.0	0.0	0	0	0			
	LUPO	FT LUPTON DELIVERY TO CIG	OUT	1117.2	0.0	0.0	-18,534	0	0			
	MEWB	DCP MEWBOURN GAS PLANT	IN	1061.5	1056.8	1056.2	720,148	573,264	403,259			
	NRCO	ANADARKO PLATTE VAL RESID	IN	1099.3	1100.8	1102.7	1,276,235	1,336,594	1,162,363			
	RNDI	ROUNDUP GAS INJECTION	OUT	0.0	0.0	0.0	0	0	0			
	RNDT	ROUNDUP GAS TO TRANSMISSN	IN	1145.1	1141.2	1135.9	814,160	781,150	582,865			
	ROGN	DCP ROGGEN GP	IN	**	0.0	**	N/A	N/A	N/A			
	SPND	DCP SPINDLE GAS PLANT	IN	1107.8	0.0	0.0	38,195	0	0			
	TTHR	HIGH PLAINS TRITOWN RECPT	IN	1132.4	1120.1	1109.1	4,346,064	3,964,668	4,733,626			
	WIND	AKA GAS PLANT	IN	1115.4	1115.4	1110.4	640,575	696,245	554,007			
	YONI	YOSEMITE NORTH INLET	OUT	1126.7	1124.4	1117.1	-4,265,949	-3,537,124	-3,445,458			
	YOSI	YOSEMITE SOUTH INLET	OUT	1125.5	1123.4	1116.3	-4,099,493	-3,264,422	-3,304,844			
0	STRAIGHT AVERAGED HEATING VALUE:			1117.1	1117.0	1115.9	TOTAL VOL:	6,499,786	6,484,345	6,632,029		
0	QUARTER AVERAGE HEATING VALUE:			1116.7								

DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.

1	REPORT R69629Z0	PUBLIC SERVICE COMPANY OF COLORADO										DATE RUN: 03/18/2019
		2018										TIME RUN: 14:07:08

ZONE NAME: NORTHERN																
	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.794	1.794	1.973	1.974	2.114	2.122	2.229	2.198	2.012	2.206	2.058	1.911	1.989	1.794	2.229	
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
NITROGEN	0.557	0.568	0.464	0.456	0.410	0.452	0.423	0.392	0.364	0.371	0.472	0.442	0.464	0.364	0.568	
METHANE	86.351	86.560	85.103	85.652	84.968	84.609	84.421	83.740	84.210	84.015	84.125	83.855	84.961	83.740	86.560	
ETHANE	9.703	9.476	10.677	10.056	10.491	10.557	10.746	11.323	11.143	11.275	11.485	11.799	10.665	9.476	11.799	
PROPANE	1.328	1.342	1.498	1.570	1.707	1.906	1.852	2.016	1.922	1.843	1.406	1.492	1.582	1.328	2.016	
I-BUTANE	0.065	0.062	0.071	0.082	0.087	0.093	0.088	0.103	0.113	0.081	0.113	0.124	0.089	0.062	0.124	
N-BUTANE	0.152	0.152	0.165	0.159	0.170	0.199	0.191	0.183	0.189	0.163	0.248	0.273	0.189	0.152	0.273	
I-PENTANE	0.021	0.019	0.021	0.020	0.022	0.023	0.022	0.020	0.023	0.024	0.043	0.047	0.027	0.019	0.047	
N-PENTANE	0.019	0.018	0.019	0.019	0.021	0.025	0.017	0.014	0.016	0.019	0.046	0.050	0.025	0.014	0.050	
HEXANES+	0.010	0.009	0.009	0.012	0.010	0.014	0.011	0.011	0.008	0.003	0.004	0.007	0.009	0.003	0.014	
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00			
N2/O2																
%INERTS	2.351	2.362	2.437	2.430	2.524	2.574	2.652	2.590	2.376	2.577	2.530	2.353	2.453	2.351	2.652	
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																
VOL(MMCF)	6752.3	6222.3	4750.4	3941.7	3047.0	2656.0	2744.8	2769.2	2834.3	3616.7	4947.0	6499.8	4231.8	2656.0	6752.3	
HIGH BTU/CF	1091.8	1089.9	1101.4	1097.9	1102.9	1107.0	1106.1	1113.8	1113.4	1109.8	1109.4	1116.0	1103.7	1089.9	1116.0	

PUC_Reports_Q2-2019.txt																
LOW BTU/CF	986.4	984.7	995.4	992.1	996.8	1000.6	999.9	1007.0	1006.6	1003.3	1002.8	1009.0	997.5	984.7	1009.0	
SPEC GRAV	0.6389	0.6378	0.6469	0.6446	0.6496	0.6528	0.6537	0.6577	0.6542	0.6551	0.6535	0.6550	0.6486	0.6378	0.6577	
WOBBE INDEX	1365.9	1364.7	1369.4	1367.5	1368.4	1370.1	1368.1	1373.4	1376.6	1371.2	1372.4	1378.9	1370.4	1364.7	1378.9	
LIQ GAL/MCF	0.454	0.455	0.506	0.529	0.572	0.641	0.618	0.664	0.643	0.602	0.536	0.576	0.547	0.454	0.664	

0
1REPORT R69629Z0 PUBLIC SERVICE COMPANY OF COLORADO VOLUME WEIGHTED
2019 DATE RUN: 03/18/2019
TIME RUN: 14:07:09

0 ZONE NAME: NORTHERN

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	2.034	1.972											2.003	1.972	2.034
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	0.393	0.457											0.425	0.393	0.457
METHANE	83.881	84.723											84.307	83.881	84.723
ETHANE	11.350	10.850											11.097	10.850	11.350
PROPANE	1.843	1.512											1.676	1.512	1.843
I-BUTANE	0.139	0.128											0.133	0.128	0.139
N-BUTANE	0.272	0.268											0.270	0.268	0.272
I-PENTANE	0.041	0.042											0.042	0.041	0.042
N-PENTANE	0.040	0.044											0.042	0.040	0.044
HEXANES+	0.007	0.004											0.005	0.004	0.007
TOTAL	100.00	100.00											100.00		

N2/O2															
%INERTS	2.427	2.429											2.428	2.427	2.429

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	6484.3	6632.0											6558.2	6484.3	6632.0
HIGH BTU/CF	1117.1	1107.8											1112.4	1107.8	1117.1
LOW BTU/CF	1010.0	1001.4											1005.7	1001.4	1010.0
SPEC GRAV	0.6572	0.6510											0.6541	0.6510	0.6572
WOBBE INDEX	1378.0	1373.0											1375.5	1373.0	1378.0
LIQ GAL/MCF	0.671	0.576											0.623	0.576	0.671

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO VOLUME WEIGHTED
2018 DATE RUN: 03/18/2019
TIME RUN: 14:07:10

0 SITE ID: AMCN SITE NAME: WGR NORTH (WATTENBERG) DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1327 DATA SOURCE: HPG BRIGHTON
AIR BLENDED: N

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	2.284	2.287	2.268	2.251	2.258	2.249	2.225	2.210	2.204	2.183	2.178	2.254	2.240	2.178	2.287
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.480	0.478	0.482	0.479	0.491	0.465	0.465	0.483	0.489	0.516	0.511	0.500	0.486	0.465	0.516
METHANE	83.700	83.933	83.784	83.516	83.372	82.814	83.217	82.511	82.497	83.710	83.892	83.549	83.387	82.497	83.933
ETHANE	10.889	10.725	10.791	11.019	11.257	11.670	11.451	11.707	11.631	11.058	10.865	10.952	11.153	10.725	11.707
PROPANE	2.238	2.166	2.261	2.360	2.290	2.497	2.350	2.710	2.761	2.242	2.255	2.414	2.374	2.166	2.761
I-BUTANE	0.117	0.117	0.120	0.116	0.108	0.112	0.106	0.132	0.143	0.102	0.107	0.118	0.117	0.102	0.143
N-BUTANE	0.227	0.228	0.231	0.209	0.187	0.177	0.169	0.218	0.240	0.173	0.180	0.198	0.205	0.169	0.240
I-PENTANE	0.025	0.025	0.024	0.018	0.013	0.003	0.004	0.011	0.014	0.009	0.009	0.011	0.015	0.003	0.025
N-PENTANE	0.023	0.023	0.022	0.016	0.010	0.001	0.002	0.006	0.008	0.002	0.001	0.002	0.011	0.001	0.023
HEXANES+	0.017	0.018	0.017	0.016	0.014	0.012	0.011	0.012	0.013	0.005	0.002	0.002	0.012	0.002	0.018
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		

N2/O2 %INERTS	2.764	2.765	2.750	2.730	2.749	2.714	2.690	2.693	2.693	2.699	2.689	2.754	2.726	2.689	2.765
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----													-----	-----	-----
VOL (MMCF)	678.5	650.1	940.9	625.0	648.3	575.7	546.7	638.8	639.8	646.4	481.0	531.9	633.6	481.0	940.9
HIGH BTU/CF	1114.0	1111.7	1113.8	1116.3	1115.8	1121.6	1117.7	1127.1	1128.4	1112.9	1111.7	1115.0	1117.1	1111.7	1128.4
LOW BTU/CF	1007.2	1005.1	1007.1	1009.4	1008.9	1014.3	1010.7	1019.5	1020.6	1006.2	1005.1	1008.2	1010.1	1005.1	1020.6
SPEC GRAV	0.6602	0.6588	0.6599	0.6611	0.6610	0.6643	0.6614	0.6674	0.6682	0.6582	0.6574	0.6606	0.6615	0.6574	0.6682
WOBBE INDEX	1371.0	1369.7	1371.1	1372.9	1372.4	1376.1	1374.3	1379.7	1380.4	1371.8	1371.1	1371.8	1373.5	1369.7	1380.4
%DIF	3.3	3.2	3.3	3.5	3.4	3.7	3.6	4.0	4.0	3.4	3.3	3.4	3.5	3.2	4.0
LIQ GAL/MCF	0.751	0.732	0.759	0.773	0.739	0.787	0.742	0.869	0.896	0.711	0.717	0.771	0.771	0.711	0.896
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H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H2S PPMV													*	*	*
O2 PPMV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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0	1REPORT R69629S1		PUBLIC SERVICE COMPANY OF COLORADO	VOLUME WEIGHTED
			2019	DATE RUN: 03/18/2019
0	SITE ID: AMCN	SITE NAME: WGR NORTH (WATTENBERG)	DATA TYPE: AVG	ONLINE GAS CHROMATOGRAPH
		TARGET WOBBE: 1327	DATA SOURCE: HPG	BRIGHTON
				TIME RUN: 14:07:10

[illegible]

N2/O2 %INERTS	2.729	2.768	2.747	2.729	2.768
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----			-----	-----	-----
VOL(MMCF)	562.5	478.0	520.3	478.0	562.5
HIGH BTU/CF	1115.9	1125.3	1120.2	1115.9	1125.3
LOW BTU/CF	1009.0	1017.8	1013.0	1009.0	1017.8
SPEC GRAV	0.6607	0.6673	0.6637	0.6607	0.6673
WOBBE INDEX	1372.9	1377.6	1375.1	1372.9	1377.6
%DIF	3.5	3.8	3.6	3.5	3.8
LIQ GAL/MCF	0.774	0.876	0.821	0.774	0.876
-----			-----	-----	-----
H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0
H2S PPMV			*	*	*
O2 PPMV	0.0	0.0	0.0	0.0	0.0
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0

VOLUME WEIGHTED

0	SITE ID: CBTW			SITE NAME: CHALK BLUFFS TO PSCO 8-IN					DATA TYPE: AVG			ONLINE GAS CHROMATOGRAPH				
				TARGET WOBBE: 1327					DATA SOURCE: HPG CAMPION							
				AIR BLENDED: N												
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	0.000	1.509	1.546	0.000	0.000	1.326	1.412	1.295	1.381	1.458	1.533	1.472	1.435	1.295	1.546
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.000	0.696	0.753	0.000	0.000	0.794	0.509	0.732	0.741	0.965	0.562	0.811	0.805	0.509	0.965
	METHANE	0.000	86.350	86.663	0.000	0.000	88.650	87.249	88.131	88.011	88.391	85.698	86.811	87.561	85.698	88.650
	ETHANE	0.000	10.639	10.117	0.000	0.000	7.780	9.573	8.777	8.672	7.445	10.383	9.168	8.743	7.445	10.639
	PROPANE	0.000	0.638	0.695	0.000	0.000	1.092	0.885	0.805	0.916	1.373	1.393	1.365	1.123	0.638	1.393
	I-BUTANE	0.000	0.046	0.057	0.000	0.000	0.089	0.084	0.063	0.072	0.105	0.097	0.097	0.086	0.046	0.105
	N-BUTANE	0.000	0.093	0.125	0.000	0.000	0.193	0.199	0.136	0.147	0.194	0.205	0.202	0.180	0.093	0.205
	I-PENTANE	0.000	0.013	0.019	0.000	0.000	0.030	0.034	0.022	0.023	0.027	0.033	0.031	0.027	0.013	0.034
	N-PENTANE	0.000	0.012	0.018	0.000	0.000	0.031	0.037	0.024	0.023	0.026	0.037	0.034	0.029	0.012	0.037
	HEXANES+	0.000	0.004	0.007	0.000	0.000	0.015	0.018	0.015	0.014	0.016	0.059	0.009	0.011	0.004	0.059
	TOTAL	0.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
	N2/O2															
	%INERTS	0.000	2.205	2.299	0.000	0.000	2.120	1.921	2.027	2.122	2.423	2.095	2.283	2.240	1.921	2.423
	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
	VOL(MMCF)	.0	.8	19.2	.0	.0	30.6	.2	1.8	.9	9.8	.2	32.5	10.7	.2	32.5
	HIGH BTU/CF		1087.4	1084.8			1078.0	1091.2	1079.9	1080.3	1076.8	1105.3	1091.5	1084.0	1076.8	1105.3
	LOW BTU/CF		982.2	979.8			973.5	985.6	975.2	975.5	972.4	998.9	986.1	979.1	972.4	998.9
	SPEC GRAV		0.6329	0.6325			0.6251	0.6318	0.6251	0.6268	0.6283	0.6434	0.6362	0.6308	0.6251	0.6434
	WOBBE INDEX		1366.9	1364.0			1363.5	1372.8	1365.9	1364.5	1358.5	1378.0	1368.4	1364.9	1358.5	1378.0
	%DIF	0.0	3.0	2.8	0.0	0.0	2.8	3.5	2.9	2.8	2.4	3.8	3.1	2.9	2.4	3.8
	LIQ GAL/MCF		0.231	0.266			0.419	0.367	0.308	0.345	0.500	0.530	0.499	0.420	0.231	0.530
	H2O LB/MMCF	0.0			0.0	0.0								*	*	*
	H2S PPMV	0.0			0.0	0.0								*	*	*
	O2 PPMV	0.0			0.0	0.0								*	*	*

0	PUBLIC SERVICE COMPANY OF COLORADO												VOLUME WEIGHTED		
1	REPORT R69629S1												DATE RUN: 03/18/2019		
	2019												TIME RUN: 14:07:10		
0	SITE ID: CBTW		SITE NAME: CHALK BLUFFS TO PSCO 8-IN					DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH					
			TARGET WOBBE: 1327					DATA SOURCE: HPG CAMPION							
	AIR BLENDED: N														
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	0.000	0.000										0	*	*
	OXYGEN	0.000	0.000										0	*	*
	NITROGEN	0.000	0.000										0	*	*
	METHANE	0.000	0.000										0	*	*
	ETHANE	0.000	0.000										0	*	*
	PROPANE	0.000	0.000										0	*	*
	I-BUTANE	0.000	0.000										0	*	*
	N-BUTANE	0.000	0.000										0	*	*
	I-PENTANE	0.000	0.000										0	*	*
	N-PENTANE	0.000	0.000										0	*	*
	HEXANES+	0.000	0.000										0	*	*
	TOTAL	0.00	0.00										100.00		

0	SITE ID: CB24			SITE NAME: CHLK BL TO FRONT RANGE PL					DATA TYPE: AVG				ONLINE GAS CHROMATOGRAPH			
				TARGET WOBBE: 1327					DATA SOURCE: HPG CAMPION							
				AIR BLENDED: N												
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	1.511	1.375											1.444	1.375	1.511
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.570	0.580											0.575	0.570	0.580
	METHANE	86.444	88.357											87.391	86.444	88.357
	ETHANE	9.627	8.128											8.884	8.128	9.627
	PROPANE	1.363	1.161											1.263	1.161	1.363
	I-BUTANE	0.127	0.105											0.116	0.105	0.127
	N-BUTANE	0.260	0.215											0.238	0.215	0.260
	I-PENTANE	0.042	0.034											0.038	0.034	0.042
	N-PENTANE	0.045	0.037											0.041	0.037	0.045
	HEXANES+	0.011	0.008											0.010	0.008	0.011
	TOTAL	100.00	100.00											100.00		
	N2/O2															
	%INERTS	2.081	1.955											2.019	1.955	2.081
	----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
	VOL(MMCF)	4222.7	4148.8											4185.8	4148.8	4222.7
	HIGH BTU/CF	1099.8	1084.3											1092.1	1084.3	1099.8
	LOW BTU/CF	993.7	979.3											986.6	979.3	993.7
	SPEC GRAV	0.6396	0.6276											0.6337	0.6276	0.6396
	WOBBE INDEX	1375.2	1368.7											1372.0	1368.7	1375.2
	%DIF	3.6	3.1											3.4	3.1	3.6
	LIQ GAL/MCF	0.535	0.451											0.493	0.451	0.535
	H2O LB/MMCF	1.0	0.8											0.9	0.8	1.0
	H2S PPMV	0.5	0.5											0.5	0.5	0.5
	O2 PPMV													*	*	*

0													VOLUME WEIGHTED					
1REPORT R69629S1																DATE RUN: 03/18/2019		
																TIME RUN: 14:07:10		
0	SITE ID: CIGAU		SITE NAME: CIG AULT PURCHASE POINT										DATA TYPE: AVG			ONLINE GAS CHROMATOGRAPH		
			TARGET WOBBE: 1327															
			AIR BLENDED: N															
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX		
	CO2	1.335	0.823	1.294	1.833	2.073	1.942	2.339	2.391	2.385	2.200	2.211	1.878	2.072	0.823	2.391		
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
	NITROGEN	0.468	0.401	0.479	0.364	0.291	0.294	0.311	0.336	0.361	0.335	0.319	0.381	0.347	0.291	0.479		
	METHANE	88.502	93.011	87.818	86.290	85.976	85.275	83.286	82.254	81.869	83.191	82.449	83.882	84.077	81.869	93.011		
	ETHANE	9.075	5.274	9.909	10.310	10.415	10.746	12.390	13.192	13.484	12.679	13.150	12.054	11.939	5.274	13.484		
	PROPANE	0.534	0.377	0.474	0.969	1.008	1.366	1.404	1.692	1.776	1.434	1.581	1.473	1.358	0.377	1.776		
	I-BUTANE	0.026	0.036	0.010	0.065	0.067	0.099	0.078	0.051	0.049	0.054	0.081	0.087	0.062	0.010	0.099		
	N-BUTANE	0.045	0.048	0.014	0.123	0.123	0.197	0.137	0.069	0.064	0.083	0.154	0.180	0.108	0.014	0.197		
	I-PENTANE	0.007	0.012	0.001	0.021	0.021	0.035	0.023	0.007	0.005	0.010	0.024	0.029	0.016	0.001	0.035		
	N-PENTANE	0.006	0.009	0.001	0.020	0.020	0.035	0.023	0.006	0.005	0.010	0.025	0.031	0.016	0.001	0.035		
	HEXANES+	0.002	0.009	0.000	0.005	0.006	0.011	0.009	0.002	0.002	0.004	0.006	0.005	0.005	0.000	0.011		
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00				

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N2/O2	1.803	1.224	1.773	2.197	2.364	2.236	2.650	2.727	2.746	2.535	2.530	2.259	2.418	1.224	2.746
%INERTS															
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----													-----	-----	-----
VOL(MMCF)	165.0	101.4	70.5	196.8	269.3	118.4	169.1	318.8	382.0	508.3	572.9	240.0	259.4	70.5	572.9
HIGH BTU/CF	1076.0	1051.1	1080.3	1091.7	1091.5	1104.3	1110.6	1117.0	1120.1	1111.7	1120.9	1114.5	1107.3	1051.1	1120.9
LOW BTU/CF	971.5	948.0	975.5	986.3	986.1	998.0	1004.0	1010.0	1012.9	1005.0	1013.6	1007.5	1000.8	948.0	1013.6
SPEC GRAV	0.6204	0.5956	0.6226	0.6374	0.6404	0.6465	0.6570	0.6622	0.6643	0.6557	0.6616	0.6528	0.6509	0.5956	0.6643
WOBBE INDEX	1366.1	1362.0	1369.1	1367.4	1363.9	1373.4	1370.2	1372.6	1374.3	1372.9	1378.1	1379.4	1372.4	1362.0	1379.4
%DIF	2.9	2.6	3.2	3.0	2.8	3.5	3.3	3.4	3.6	3.5	3.9	3.9	3.4	2.6	3.9
LIQ GAL/MCF	0.175	0.142	0.139	0.344	0.356	0.501	0.476	0.510	0.530	0.448	0.531	0.515	0.442	0.139	0.531
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H2O LB/MMCF										0.0	0.0	0.0	0.0	0.0	0.0
H2S PPMV													*	*	*
O2 PPMV													*	*	*
-----													-----	-----	-----
0													VOLUME WEIGHTED		
1	REPORT R69629S1												DATE RUN: 03/18/2019		
													TIME RUN: 14:07:10		
0	SITE ID: CIGAU												PUBLIC SERVICE COMPANY OF COLORADO		
													2019		
	SITE NAME: CIG AULT PURCHASE POINT												DATA TYPE: AVG		
	TARGET WOBBE: 1327												ONLINE GAS CHROMATOGRAPH		
	AIR BLENDED: N												DATA SOURCE: CIG		
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
-----													-----	-----	-----
CO2	1.892	2.185											2.013	1.892	2.185
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	0.337	0.281											0.314	0.281	0.337
METHANE	84.492	83.344											84.018	83.344	84.492
ETHANE	11.475	12.160											11.759	11.475	12.160
PROPANE	1.463	1.592											1.516	1.463	1.592
I-BUTANE	0.093	0.111											0.100	0.093	0.111
N-BUTANE	0.185	0.239											0.207	0.185	0.239
I-PENTANE	0.029	0.041											0.034	0.029	0.041
N-PENTANE	0.029	0.041											0.034	0.029	0.041
HEXANES+	0.005	0.006											0.005	0.005	0.006
TOTAL	100.00	100.00											100.00		
-----													-----	-----	-----
N2/O2	2.229	2.466											2.327	2.229	2.466
%INERTS															
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----													-----	-----	-----
VOL(MMCF)	430.2	304.0											367.1	304.0	430.2
HIGH BTU/CF	1110.4	1117.7											1113.4	1110.4	1117.7
LOW BTU/CF	1003.7	1010.6											1006.6	1003.7	1010.6
SPEC GRAV	0.6500	0.6588											0.6536	0.6500	0.6588
WOBBE INDEX	1377.3	1377.0											1377.2	1377.0	1377.3
%DIF	3.8	3.8											3.8	3.8	3.8
LIQ GAL/MCF	0.515	0.582											0.543	0.515	0.582
-----													-----	-----	-----
H2O LB/MMCF	0.0	0.0											0.0	0.0	0.0
H2S PPMV													*	*	*
O2 PPMV													*	*	*
-----													-----	-----	-----
0													VOLUME WEIGHTED		

0	SITE ID: CIGBCR			SITE NAME: CIG BEAVER CREEK EAST				DATA TYPE: AVG			ONLINE GAS CHROMATOGRAPH					
				TARGET WOBBE: 1327				DATA SOURCE: CIG								
				AIR BLENDED: N												
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	2.308	2.232	2.157	2.341	2.353	2.454	2.382	2.351	2.423	2.392	2.302	2.303	2.375	2.157	2.454
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.389	0.414	0.417	0.388	0.388	0.356	0.382	0.382	0.367	0.385	0.407	0.407	0.381	0.356	0.417
	METHANE	82.009	82.494	82.563	81.681	81.756	81.321	81.609	81.795	80.840	81.572	82.441	81.952	81.585	80.840	82.563
	ETHANE	12.890	12.581	13.232	12.571	12.622	12.386	12.298	12.379	12.926	12.364	12.608	12.745	12.513	12.298	13.232
	PROPANE	1.869	1.747	1.266	2.292	2.209	2.657	2.578	2.358	2.655	2.464	1.638	1.921	2.402	1.266	2.657
	I-BUTANE	0.146	0.136	0.093	0.186	0.176	0.216	0.198	0.191	0.215	0.211	0.149	0.169	0.195	0.093	0.216
	N-BUTANE	0.278	0.271	0.188	0.377	0.359	0.438	0.400	0.384	0.413	0.428	0.316	0.357	0.390	0.188	0.438
	I-PENTANE	0.042	0.042	0.029	0.061	0.055	0.068	0.060	0.062	0.064	0.072	0.057	0.061	0.062	0.029	0.072
	N-PENTANE	0.042	0.045	0.030	0.064	0.056	0.069	0.060	0.061	0.059	0.074	0.060	0.064	0.062	0.030	0.074
	HEXANES+	0.027	0.038	0.025	0.039	0.026	0.035	0.033	0.037	0.038	0.038	0.022	0.021	0.035	0.021	0.039
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
	N2/O2															
	%INERTS	2.697	2.646	2.574	2.729	2.741	2.810	2.764	2.733	2.790	2.777	2.709	2.710	2.756	2.574	2.810
	----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
	VOL(MMCF)	52.0	82.1	29.3	9.9	62.7	182.6	351.2	220.8	263.5	311.9	57.4	25.9	137.4	9.9	351.2
	HIGH BTU/CF	1127.8	1124.1	1118.3	1136.2	1133.7	1141.9	1138.5	1135.9	1145.3	1139.1	1123.6	1130.6	1137.5	1118.3	1145.3
	LOW BTU/CF	1020.1	1016.6	1011.2	1028.0	1025.6	1033.3	1030.1	1027.6	1036.5	1030.6	1016.2	1022.7	1029.1	1011.2	1036.5
	SPEC GRAV	0.6684	0.6651	0.6601	0.6743	0.6729	0.6795	0.6764	0.6742	0.6812	0.6770	0.6658	0.6703	0.6756	0.6601	0.6812
	WOBBE INDEX	1379.5	1378.4	1376.4	1383.7	1382.0	1385.3	1384.3	1383.4	1387.7	1384.4	1377.0	1380.9	1383.9	1376.4	1387.7
	%DIF	4.0	3.9	3.7	4.3	4.1	4.4	4.3	4.3	4.6	4.3	3.8	4.1	4.3	3.7	4.6
	LIQ GAL/MCF	0.692	0.658	0.470	0.873	0.830	1.005	0.958	0.893	0.992	0.951	0.651	0.751	0.907	0.470	1.005
	H2O LB/MMCF													*	*	*
	H2S PPMV													*	*	*
	O2 PPMV													*	*	*

0	1REPORT R69629S1												VOLUME WEIGHTED			
	PUBLIC SERVICE COMPANY OF COLORADO												DATE RUN: 03/18/2019			
	2019												TIME RUN: 14:07:10			
0	SITE ID: CIGBCR			SITE NAME: CIG BEAVER CREEK EAST					DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH					
				TARGET WOBBE: 1327					DATA SOURCE: CIG							
				AIR BLENDED: N												
0	MTH: JAN		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	2.345	2.336											2.338	2.336	2.345
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.395	0.420											0.415	0.395	0.420
	METHANE	81.843	81.937											81.919	81.843	81.937
	ETHANE	12.501	12.253											12.300	12.253	12.501
	PROPANE	2.202	2.340											2.314	2.202	2.340
	I-BUTANE	0.187	0.190											0.189	0.187	0.190
	N-BUTANE	0.383	0.387											0.386	0.383	0.387
	I-PENTANE	0.062	0.058											0.059	0.058	0.062
	N-PENTANE	0.064	0.060											0.061	0.060	0.064
	HEXANES+	0.018	0.019											0.019	0.018	0.019
	TOTAL	100.00	100.00											100.00		

N2/O2 %INERTS													2.740	2.756		2.753	2.740	2.756
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																		
VOL(MMCF)													45.3	194.3		119.8	45.3	194.3
HIGH BTU/CF													1133.6	1133.6		1133.6	1133.6	1133.6
LOW BTU/CF													1025.5	1025.5		1025.5	1025.5	1025.5
SPEC GRAV													0.6728	0.6729		0.6729	0.6728	0.6729
WOBBE INDEX													1382.0	1381.9		1381.9	1381.9	1382.0
%DIF													4.1	4.1		4.1	4.1	4.1
LIQ GAL/MCF													0.842	0.879		0.872	0.842	0.879

H2O LB/MMCF													*	*		*	*	*
H2S PPMV													*	*		*	*	*
O2 PPMV													*	*		*	*	*

01REPORT R69629S1													VOLUME WEIGHTED					
PUBLIC SERVICE COMPANY OF COLORADO													DATE RUN: 03/18/2019					
2018													TIME RUN: 14:07:10					
0 SITE ID: CIGGRE SITE NAME: CIG GREELEY PURCHASE PT													ONLINE GAS CHROMATOGRAPH					
TARGET WOBBE: 1327													DATA TYPE: AVG					
AIR BLENDED: N													DATA SOURCE: CIG					
0 MTH: JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC													AVG	MIN	MAX			

CO2													1.585	1.387	2.526			
OXYGEN													0.000	0.000	0.000			
NITROGEN													0.392	0.375	0.404			
METHANE													86.582	88.411	88.411			
ETHANE													9.980	8.903	13.883			
PROPANE													1.149	0.754	2.365			
I-BUTANE													0.085	0.050	0.157			
N-BUTANE													0.156	0.080	0.280			
I-PENTANE													0.029	0.016	0.049			
N-PENTANE													0.027	0.014	0.049			
HEXANES+													0.015	0.010	0.032			
TOTAL													100.00	100.00				

N2/O2																		
%INERTS													1.977	1.762	2.755			
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																		
VOL(MMCF)													325.5	327.1	403.2			
HIGH BTU/CF													1096.2	1080.6	1143.3			
LOW BTU/CF													990.3	975.7	1034.6			
SPEC GRAV													0.6366	0.6232	0.6801			
WOBBE INDEX													1373.9	1368.8	1386.4			
%DIF													3.5	3.1	4.5			
LIQ GAL/MCF													0.420	0.264	0.840			

H2O LB/MMCF													*	*	*			
H2S PPMV													*	*	*			
O2 PPMV													*	*	*			

0													VOLUME WEIGHTED					

0	SITE ID: CIGGRE			SITE NAME: CIG GREELEY PURCHASE PT					DATA TYPE: AVG			ONLINE GAS CHROMATOGRAPH				
				TARGET WOBBE: 1327					DATA SOURCE: CIG							
				AIR BLENDED: N												
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
-----														-----	-----	-----
	CO2	1.852	2.085											1.999	1.852	2.085
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.369	0.377											0.374	0.369	0.377
	METHANE	84.525	83.362											83.790	83.362	84.525
	ETHANE	11.252	12.062											11.764	11.252	12.062
	PROPANE	1.593	1.629											1.616	1.593	1.629
	I-BUTANE	0.108	0.121											0.116	0.108	0.121
	N-BUTANE	0.221	0.262											0.247	0.221	0.262
	I-PENTANE	0.036	0.045											0.042	0.036	0.045
	N-PENTANE	0.036	0.046											0.042	0.036	0.046
	HEXANES+	0.008	0.011											0.010	0.008	0.011
	TOTAL	100.00	100.00											100.00		
-----														-----	-----	-----
	N2/O2															
	%INERTS	2.221	2.462											2.373	2.221	2.462
-----														-----	-----	-----
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)														-----	-----	-----
-----														-----	-----	-----
	VOL(MMCF)	417.7	719.3											568.5	417.7	719.3
	HIGH BTU/CF	1112.5	1118.8											1116.5	1112.5	1118.8
	LOW BTU/CF	1005.6	1011.6											1009.4	1005.6	1011.6
	SPEC GRAV	0.6510	0.6589											0.6560	0.6510	0.6589
	WOBBE INDEX	1378.8	1378.3											1378.5	1378.3	1378.8
	%DIF	3.9	3.9											3.9	3.9	3.9
	LIQ GAL/MCF	0.573	0.608											0.595	0.573	0.608
-----														-----	-----	-----
	H2O LB/MMCF													*	*	*
	H2S PPMV													*	*	*
	O2 PPMV													*	*	*
-----														-----	-----	-----

0													VOLUME WEIGHTED			
1	REPORT R69629S1												DATE RUN: 03/18/2019			
	PUBLIC SERVICE COMPANY OF COLORADO												TIME RUN: 14:07:11			
	2018															
0	SITE ID: CIGLUP			SITE NAME: CIG FT LUPTON PURCHASE PT			DATA TYPE: AVG			ONLINE GAS CHROMATOGRAPH						
				TARGET WOBBE: 1327			DATA SOURCE: CIG									
				AIR BLENDED: N												
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	1.827	1.770	1.998	1.956	1.878	1.986	1.964	2.102	2.105	2.083	2.136	2.093	1.969	1.770	2.136
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.390	0.391	0.388	0.385	0.381	0.398	0.406	0.417	0.430	0.416	0.416	0.426	0.402	0.381	0.430
	METHANE	84.513	84.873	82.894	83.129	83.186	82.595	82.913	81.659	81.337	81.894	82.006	81.146	82.938	81.146	84.873
	ETHANE	11.328	11.036	12.333	11.941	11.409	11.892	11.927	12.651	12.897	12.605	12.492	13.304	12.062	11.036	13.304
	PROPANE	1.490	1.483	1.810	1.943	2.299	2.301	2.025	2.289	2.304	2.194	2.206	2.216	1.953	1.483	2.304
	I-BUTANE	0.125	0.125	0.158	0.173	0.218	0.211	0.190	0.215	0.226	0.198	0.194	0.210	0.176	0.125	0.226
	N-BUTANE	0.250	0.247	0.320	0.358	0.463	0.452	0.412	0.477	0.498	0.436	0.417	0.457	0.372	0.247	0.498
	I-PENTANE	0.034	0.034	0.044	0.050	0.070	0.069	0.066	0.076	0.082	0.070	0.065	0.072	0.056	0.034	0.082
	N-PENTANE	0.033	0.031	0.042	0.049	0.070	0.069	0.068	0.079	0.084	0.074	0.067	0.075	0.056	0.031	0.084
	HEXANES+	0.010	0.010	0.013	0.016	0.026	0.027	0.029	0.035	0.037	0.030	0.001	0.001	0.016	0.001	0.037
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		

PUC_Reports_Q2-2019.txt																
N2/O2 %INERTS	2.217	2.161	2.386	2.341	2.259	2.384	2.370	2.519	2.535	2.499	2.552	2.519	2.371	2.161	2.552	
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																
VOL(MMCF)	2479.5	2172.5	1648.8	1253.0	1136.1	731.5	284.7	640.4	1090.3	1668.5	1450.9	1481.8	1336.5	284.7	2479.5	
HIGH BTU/CF	1112.5	1110.6	1126.4	1127.6	1134.9	1136.9	1131.6	1142.6	1145.8	1139.2	1136.0	1144.4	1129.2	1110.6	1145.8	
LOW BTU/CF	1005.6	1003.9	1018.7	1019.8	1026.5	1028.5	1023.5	1033.8	1036.8	1030.6	1027.7	1035.5	1021.3	1003.9	1036.8	
SPEC GRAV	0.6509	0.6487	0.6625	0.6626	0.6660	0.6692	0.6655	0.6749	0.6771	0.6724	0.6712	0.6759	0.6640	0.6487	0.6771	
WOBBE INDEX	1378.9	1378.9	1383.9	1385.3	1390.7	1389.8	1387.1	1390.8	1392.5	1389.3	1386.6	1392.0	1385.8	1378.9	1392.5	
%DIF	3.9	3.9	4.3	4.4	4.8	4.7	4.5	4.8	4.9	4.7	4.5	4.9	4.4	3.9	4.9	
LIQ GAL/MCF	0.559	0.555	0.688	0.747	0.912	0.907	0.810	0.922	0.941	0.871	0.851	0.877	0.760	0.555	0.941	
H2O LB/MMCF	1.6	1.7	1.9	2.0	1.9	1.3	1.1	1.3	1.3	1.0	0.9	0.9	1.5	0.9	2.0	
H2S PPMV													*	*	*	
O2 PPMV													*	*	*	
0														VOLUME WEIGHTED		
1REPORT R69629S1														DATE RUN: 03/18/2019		
PUBLIC SERVICE COMPANY OF COLORADO														TIME RUN: 14:07:11		
2019																
0 SITE ID: CIGLUP SITE NAME: CIG FT LUPTON PURCHASE PT DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH																
TARGET WOBBE: 1327 DATA SOURCE: CIG																
AIR BLENDED: N																
0 MTH: JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC														AVG	MIN	MAX
CO2	2.144	2.088												2.117	2.088	2.144
OXYGEN	0.000	0.000												0.000	0.000	0.000
NITROGEN	0.442	0.431												0.437	0.431	0.442
METHANE	81.332	82.085												81.693	81.332	82.085
ETHANE	12.816	12.169												12.505	12.169	12.816
PROPANE	2.402	2.400												2.401	2.400	2.402
I-BUTANE	0.224	0.219												0.222	0.219	0.224
N-BUTANE	0.488	0.471												0.480	0.471	0.488
I-PENTANE	0.075	0.068												0.072	0.068	0.075
N-PENTANE	0.076	0.068												0.072	0.068	0.076
HEXANES+	0.001	0.001												0.001	0.001	0.001
TOTAL	100.00	100.00												100.00		
N2/O2 %INERTS														2.554	2.519	2.586
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																
VOL(MMCF)	2117.2	1956.4												2036.8	1956.4	2117.2
HIGH BTU/CF	1143.9	1138.7												1141.4	1138.7	1143.9
LOW BTU/CF	1035.1	1030.2												1032.7	1030.2	1035.1
SPEC GRAV	0.6767	0.6723												0.6746	0.6723	0.6767
WOBBE INDEX	1390.6	1388.8												1389.7	1388.8	1390.6
%DIF	4.8	4.7												4.8	4.7	4.8
LIQ GAL/MCF	0.944	0.931												0.938	0.931	0.944
H2O LB/MMCF	1.2	1.1												1.2	1.1	1.2
H2S PPMV														*	*	*
O2 PPMV														*	*	*
0														VOLUME WEIGHTED		

0	SITE ID: CIGWIG			SITE NAME: CIG WIGGINS/ROUNDUP DEL				DATA TYPE: AVG			ONLINE GAS CHROMATOGRAPH					
				TARGET WOBBE: 1327				DATA SOURCE: CIG								
				AIR BLENDED: N												
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	2.331	2.324	2.306	2.322	2.499	2.560	2.541	2.561	2.628	2.511	2.414	2.377	2.527	2.306	2.628
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.388	0.407	0.373	0.365	0.311	0.339	0.368	0.339	0.321	0.368	0.411	0.428	0.356	0.311	0.428
	METHANE	81.988	82.038	81.759	81.635	80.235	80.750	81.101	80.924	81.058	81.191	81.807	81.379	81.166	80.235	82.038
	ETHANE	12.653	12.262	12.822	12.409	12.452	12.403	12.405	12.458	12.200	12.365	12.426	12.683	12.381	12.200	12.822
	PROPANE	2.045	2.321	2.124	2.564	3.547	2.964	2.788	2.789	2.839	2.656	2.193	2.375	2.704	2.045	3.547
	I-BUTANE	0.165	0.180	0.172	0.193	0.253	0.237	0.213	0.240	0.253	0.236	0.195	0.200	0.227	0.165	0.253
	N-BUTANE	0.306	0.339	0.324	0.370	0.510	0.483	0.430	0.479	0.489	0.469	0.398	0.409	0.450	0.306	0.510
	I-PENTANE	0.046	0.048	0.047	0.054	0.079	0.070	0.064	0.081	0.085	0.081	0.068	0.065	0.074	0.046	0.085
	N-PENTANE	0.046	0.048	0.047	0.056	0.081	0.120	0.054	0.071	0.079	0.082	0.069	0.067	0.071	0.046	0.120
	HEXANES+	0.032	0.033	0.026	0.032	0.033	0.074	0.036	0.058	0.048	0.041	0.019	0.017	0.044	0.017	0.074
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		

	N2/O2															
	%INERTS	2.719	2.731	2.679	2.687	2.810	2.899	2.909	2.900	2.949	2.879	2.825	2.805	2.883	2.679	2.949
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
	VOL(MMCF)	66.8	117.2	62.0	54.8	32.5	132.1	612.3	607.9	597.5	504.0	155.5	27.8	247.5	27.8	612.3
	HIGH BTU/CF	1129.9	1132.2	1133.2	1138.8	1159.1	1150.3	1142.2	1146.3	1145.1	1143.2	1132.9	1138.0	1142.9	1129.9	1159.1
	LOW BTU/CF	1022.0	1024.2	1025.1	1030.4	1049.3	1041.2	1033.6	1037.4	1036.3	1034.5	1024.9	1029.6	1034.2	1022.0	1049.3
	SPEC GRAV	0.6701	0.6717	0.6716	0.6755	0.6908	0.6864	0.6812	0.6839	0.6840	0.6814	0.6737	0.6765	0.6813	0.6701	0.6908
	WOBBE INDEX	1380.3	1381.5	1382.8	1385.6	1394.6	1388.4	1383.9	1386.1	1384.6	1384.9	1380.3	1383.6	1384.6	1380.3	1394.6
	%DIF	4.0	4.1	4.2	4.4	5.1	4.6	4.3	4.5	4.3	4.4	4.0	4.3	4.3	4.0	5.1
	LIQ GAL/MCF	0.760	0.854	0.788	0.939	1.292	1.146	1.031	1.077	1.098	1.033	0.851	0.904	1.032	0.760	1.292

	H2O LB/MMCF													*	*	*
	H2S PPMV													*	*	*
	O2 PPMV													*	*	*

0	VOLUME WEIGHTED															
1REPORT R69629S1	PUBLIC SERVICE COMPANY OF COLORADO															
	2019															
	DATE RUN: 03/18/2019															
	TIME RUN: 14:07:11															
0	SITE ID: CIGWIG			SITE NAME: CIG WIGGINS/ROUNDUP DEL				DATA TYPE: AVG			ONLINE GAS CHROMATOGRAPH					
				TARGET WOBBE: 1327				DATA SOURCE: CIG								
				AIR BLENDED: N												
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	2.364	2.369											2.367	2.364	2.369
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.425	0.436											0.432	0.425	0.436
	METHANE	81.683	81.655											81.666	81.655	81.683
	ETHANE	12.583	12.300											12.414	12.300	12.583
	PROPANE	2.216	2.502											2.387	2.216	2.502
	I-BUTANE	0.190	0.200											0.196	0.190	0.200
	N-BUTANE	0.392	0.402											0.398	0.392	0.402
	I-PENTANE	0.064	0.059											0.061	0.059	0.064
	N-PENTANE	0.066	0.060											0.062	0.060	0.066
	HEXANES+	0.017	0.017											0.017	0.017	0.017
	TOTAL	100.00	100.00											100.00		

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N2/O2													2.799	2.789	2.805	
%INERTS 2.789 2.805																
-----													-----	-----	-----	
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)													-----	-----	-----	
VOL(MMCF) 156.6 233.2													194.9	156.6	233.2	
HIGH BTU/CF 1134.3 1136.4													1135.6	1134.3	1136.4	
LOW BTU/CF 1026.2 1028.2													1027.4	1026.2	1028.2	
SPEC GRAV 0.6739 0.6755													0.6749	0.6739	0.6755	
WOBBE INDEX 1381.8 1382.7													1382.3	1381.8	1382.7	
%DIF 4.1 4.2													4.2	4.1	4.2	
LIQ GAL/MCF 0.850 0.932													0.899	0.850	0.932	
-----													-----	-----	-----	
H2O LB/MMCF													*	*	*	
H2S PPMV													*	*	*	
O2 PPMV													*	*	*	
-----													-----	-----	-----	
0													VOLUME WEIGHTED			
1	REPORT R69629S1												DATE RUN: 03/18/2019			
													TIME RUN: 14:07:11			
0	SITE ID: CIG1CK SITE NAME: CIG FIRST CREEK												PUBLIC SERVICE COMPANY OF COLORADO			
													2018			
	TARGET WOBBE: 1327												DATA TYPE: AVG			
	AIR BLENDED: N												ONLINE GAS CHROMATOGRAPH			
	DATA SOURCE: CIG															
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	

	CO2	2.105	2.255	2.232	2.229	2.108	2.179	2.163	2.169	2.154	2.135	2.182	2.223	2.176	2.105	2.255
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	1.672	0.484	0.490	0.595	1.576	0.918	0.434	0.421	0.448	0.441	0.476	0.480	0.633	0.421	1.672
	METHANE	82.067	82.660	82.159	82.052	81.595	81.477	81.785	81.829	81.206	82.347	82.579	82.061	82.091	81.206	82.660
	ETHANE	11.317	11.280	11.694	11.633	11.390	11.889	12.037	12.256	12.488	12.068	11.615	11.918	11.811	11.280	12.488
	PROPANE	2.245	2.685	2.744	2.802	2.598	2.773	2.799	2.547	2.889	2.328	2.570	2.706	2.616	2.245	2.889
	I-BUTANE	0.162	0.179	0.194	0.195	0.199	0.210	0.212	0.203	0.223	0.179	0.171	0.181	0.188	0.162	0.223
	N-BUTANE	0.323	0.358	0.384	0.384	0.402	0.413	0.425	0.417	0.445	0.366	0.329	0.349	0.372	0.323	0.445
	I-PENTANE	0.044	0.043	0.044	0.047	0.054	0.057	0.059	0.062	0.060	0.054	0.040	0.042	0.049	0.040	0.062
	N-PENTANE	0.042	0.039	0.041	0.044	0.052	0.055	0.057	0.062	0.058	0.053	0.038	0.040	0.047	0.038	0.062
	HEXANES+	0.023	0.017	0.018	0.019	0.026	0.029	0.029	0.034	0.029	0.029	0.000	0.000	0.017	0.000	0.034
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		

N2/O2																
%INERTS 3.777 2.739 2.722 2.824 3.684 3.097 2.597 2.590 2.602 2.576 2.658 2.703 2.810 2.576 3.777																

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																

	VOL(MMCF)	45.9	60.1	.0	33.8	59.7	70.1	77.7	68.6	49.7	101.4	214.9	137.4	83.6	.0	214.9
	HIGH BTU/CF	1111.7	1129.5	1134.8	1134.4	1121.8	1135.2	1142.2	1140.2	1147.8	1133.2	1129.6	1134.3	1132.7	1111.7	1147.8
	LOW BTU/CF	1005.4	1021.7	1026.6	1026.3	1014.8	1027.1	1033.5	1031.6	1038.7	1025.1	1021.7	1026.1	1024.7	1005.4	1038.7
	SPEC GRAV	0.6685	0.6697	0.6728	0.6736	0.6740	0.6767	0.6758	0.6745	0.6794	0.6696	0.6684	0.6722	0.6721	0.6684	0.6794
	WOBBE INDEX	1359.7	1380.2	1383.5	1382.2	1366.4	1380.0	1389.4	1388.3	1392.5	1384.8	1381.7	1383.5	1381.7	1359.7	1392.5
	%DIF	2.5	4.0	4.3	4.2	3.0	4.0	4.7	4.6	4.9	4.4	4.1	4.3	4.1	2.5	4.9
	LIQ GAL/MCF	0.814	0.948	0.979	0.998	0.957	1.015	1.028	0.959	1.064	0.866	0.896	0.944	0.941	0.814	1.064

	H2O LB/MMCF													*	*	*
	H2S PPMV													*	*	*
	O2 PPMV													*	*	*

0													VOLUME WEIGHTED			

0	SITE ID: CIG1CK			SITE NAME: CIG FIRST CREEK				DATA TYPE: AVG				ONLINE GAS CHROMATOGRAPH				
				TARGET WOBBE: 1327				DATA SOURCE: CIG								
				AIR BLENDED: N												
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	2.213	2.144											2.175	2.144	2.213
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.487	0.485											0.486	0.485	0.487
	METHANE	81.952	82.074											82.018	81.952	82.074
	ETHANE	11.885	11.803											11.840	11.803	11.885
	PROPANE	2.787	2.787											2.787	2.787	2.787
	I-BUTANE	0.196	0.204											0.200	0.196	0.204
	N-BUTANE	0.386	0.402											0.395	0.386	0.402
	I-PENTANE	0.048	0.051											0.050	0.048	0.051
	N-PENTANE	0.046	0.049											0.048	0.046	0.049
	HEXANES+	0.000	0.001											0.001	0.000	0.001
	TOTAL	100.00	100.00											100.00		
	N2/O2															
	%INERTS	2.700	2.629											2.661	2.629	2.700
	----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
	VOL(MMCF)	255.9	310.9											283.4	255.9	310.9
	HIGH BTU/CF	1136.8	1137.7											1137.3	1136.8	1137.7
	LOW BTU/CF	1028.5	1029.3											1028.9	1028.5	1029.3
	SPEC GRAV	0.6737	0.6731											0.6734	0.6731	0.6737
	WOBBE INDEX	1385.0	1386.7											1385.9	1385.0	1386.7
	%DIF	4.4	4.5											4.5	4.4	4.5
	LIQ GAL/MCF	0.988	0.998											0.993	0.988	0.998
	H2O LB/MMCF													*	*	*
	H2S PPMV													*	*	*
	O2 PPMV													*	*	*

0													VOLUME WEIGHTED			
1	REPORT R69629S1		PUBLIC SERVICE COMPANY OF COLORADO										DATE RUN: 03/18/2019			
			2018										TIME RUN: 14:07:11			
0	SITE ID: EATN		SITE NAME: DCP EATON GAS PLANT						DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH					
			TARGET WOBBE: 1327						DATA SOURCE: HPG		CAMPION					
			AIR BLENDED: N													
0	MTH: JAN		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	2.090	2.084	2.091	2.118	2.122	2.194	2.178	2.169	0.000	0.000	0.000	0.000	2.129	2.084	2.194
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.625	0.616	0.616	0.583	0.609	0.626	0.633	0.634	0.000	0.000	0.000	0.000	0.618	0.583	0.634
	METHANE	85.688	85.318	85.271	85.123	84.764	84.645	84.543	84.701	0.000	0.000	0.000	0.000	85.018	84.543	85.688
	ETHANE	10.041	10.313	10.334	10.460	10.719	10.764	10.822	10.705	0.000	0.000	0.000	0.000	10.513	10.041	10.822
	PROPANE	1.449	1.552	1.567	1.586	1.649	1.633	1.680	1.650	0.000	0.000	0.000	0.000	1.594	1.449	1.680
	I-BUTANE	0.040	0.044	0.045	0.048	0.049	0.049	0.051	0.050	0.000	0.000	0.000	0.000	0.047	0.040	0.051
	N-BUTANE	0.063	0.068	0.071	0.077	0.081	0.082	0.086	0.084	0.000	0.000	0.000	0.000	0.076	0.063	0.086
	I-PENTANE	0.002	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.000	0.000	0.000	0.000	0.003	0.002	0.004
	N-PENTANE	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.000	0.000	0.000	0.000	0.002	0.002	0.003
	HEXANES+	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00		

N2/O2 %INERTS	2.715	2.700	2.707	2.701	2.731	2.820	2.811	2.803	0.000	0.000	0.000	0.000	2.747	2.700	2.820	
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
VOL(MMCF)	214.3	213.6	200.0	199.6	211.9	185.9	215.1	175.0	.0	.0	.0	.0	201.9	175.0	215.1	
HIGH BTU/CF	1088.5	1092.5	1092.9	1094.4	1097.3	1096.5	1097.9	1096.6					1094.5	1088.5	1097.9	
LOW BTU/CF	983.4	987.1	987.5	988.9	991.6	990.9	992.2	991.0					989.0	983.4	992.2	
SPEC GRAV	0.6422	0.6446	0.6450	0.6460	0.6482	0.6491	0.6498	0.6488					0.6466	0.6422	0.6498	
WOBBE INDEX	1358.3	1360.7	1360.8	1361.6	1362.9	1361.0	1362.0	1361.4					1361.1	1358.3	1362.9	
%DIF	2.4	2.5	2.5	2.6	2.7	2.6	2.6	2.6	0.0	0.0	0.0	0.0	2.6	2.4	2.7	
LIQ GAL/MCF	0.434	0.465	0.471	0.479	0.498	0.494	0.509	0.500					0.481	0.434	0.509	

H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H2S PPMV									0.0	0.0	0.0	0.0	*	*	*	
O2 PPMV									0.0	0.0	0.0	0.0	*	*	*	

01REPORT R69629S1													VOLUME WEIGHTED			
													DATE RUN: 03/18/2019			
													TIME RUN: 14:07:11			
0		SITE ID: EATN		SITE NAME: DCP EATON GAS PLANT				DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH						
				TARGET WOBBE: 1327				DATA SOURCE: HPG CAMPION								
				AIR BLENDED: N												
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	

CO2	0.000	0.000											0	*	*	
OXYGEN	0.000	0.000											0	*	*	
NITROGEN	0.000	0.000											0	*	*	
METHANE	0.000	0.000											0	*	*	
ETHANE	0.000	0.000											0	*	*	
PROPANE	0.000	0.000											0	*	*	
I-BUTANE	0.000	0.000											0	*	*	
N-BUTANE	0.000	0.000											0	*	*	
I-PENTANE	0.000	0.000											0	*	*	
N-PENTANE	0.000	0.000											0	*	*	
HEXANES+	0.000	0.000											0	*	*	
TOTAL	0.00	0.00											100.00			

N2/O2 %INERTS	0.000	0.000											*	*	*	
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
VOL(MMCF)	.0	.0											.0			
HIGH BTU/CF													*	*	*	
LOW BTU/CF													*	*	*	
SPEC GRAV													*	*	*	
WOBBE INDEX													*	*	*	
%DIF	0.0	0.0											*	*	*	
LIQ GAL/MCF													*	*	*	

H2O LB/MMCF	0.0	0.0											*	*	*	
H2S PPMV	0.0	0.0											*	*	*	
O2 PPMV	0.0	0.0											*	*	*	

0													STRAIGHT AVERAGED			

0	SITE ID: FTSV			SITE NAME: FORT ST VRAIN POWER PLANT				DATA TYPE: AVG			ONLINE GAS CHROMATOGRAPH					
	TARGET WOBBE: 1327							DATA SOURCE: HPG			CAMPION					
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	1.332	1.279	1.486	1.387	1.281	1.364	1.469	1.652	2.047	1.735	1.729	1.555	1.528	1.279	2.047
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.789	0.828	0.660	0.667	0.569	0.714	0.638	0.516	0.445	0.566	0.594	0.537	0.627	0.445	0.828
	METHANE	88.466	88.785	86.460	88.106	89.480	88.768	87.511	86.016	83.944	85.333	86.081	85.919	87.082	83.944	89.480
	ETHANE	8.437	8.126	10.499	8.990	7.754	7.914	9.126	10.704	12.190	10.599	9.982	10.249	9.540	7.754	12.190
	PROPANE	0.762	0.766	0.683	0.645	0.683	0.940	0.926	0.886	1.078	1.307	1.174	1.294	0.928	0.645	1.307
	I-BUTANE	0.057	0.057	0.053	0.051	0.059	0.075	0.078	0.058	0.076	0.109	0.103	0.107	0.073	0.051	0.109
	N-BUTANE	0.116	0.117	0.116	0.113	0.121	0.160	0.175	0.120	0.158	0.241	0.236	0.243	0.158	0.113	0.243
	I-PENTANE	0.017	0.017	0.017	0.016	0.019	0.024	0.028	0.018	0.023	0.041	0.041	0.040	0.025	0.016	0.041
	N-PENTANE	0.016	0.016	0.017	0.017	0.020	0.026	0.031	0.019	0.025	0.046	0.046	0.044	0.026	0.016	0.046
	HEXANES+	0.008	0.009	0.009	0.008	0.014	0.015	0.018	0.011	0.014	0.023	0.014	0.012	0.013	0.008	0.023
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
	N2/O2															
	%INERTS	2.121	2.107	2.146	2.054	1.850	2.078	2.107	2.168	2.492	2.301	2.323	2.092	2.155	1.850	2.492
	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
	VOL(MMCF)	2504.7	2276.8	2052.7	1264.9	2409.9	2353.3	1997.1	2487.4	2403.5	2077.7	1940.9	1899.7	2139.1	1264.9	2504.7
	HIGH BTU/CF	1074.5	1072.3	1088.9	1077.4	1071.3	1075.8	1085.3	1093.6	1106.4	1103.8	1096.2	1102.5	1087.2	1071.3	1106.4
	LOW BTU/CF	970.1	968.1	983.6	972.9	967.1	971.4	980.3	988.0	1000.1	997.6	990.5	996.2	982.0	967.1	1000.1
	SPEC GRAV	0.6228	0.6210	0.6331	0.6243	0.6177	0.6234	0.6304	0.6373	0.6511	0.6457	0.6410	0.6416	0.6324	0.6177	0.6511
	WOBBE INDEX	1361.5	1360.7	1368.5	1363.6	1363.1	1362.5	1366.9	1369.9	1371.2	1373.6	1369.2	1376.4	1367.1	1360.7	1376.4
	%DIF	2.6	2.5	3.1	2.8	2.7	2.7	3.0	3.2	3.3	3.5	3.2	3.7	3.0	2.5	3.7
	LIQ GAL/MCF	0.280	0.282	0.258	0.245	0.266	0.358	0.365	0.319	0.395	0.513	0.469	0.504	0.353	0.245	0.513
	H2O LB/MMCF										0.0	0.0	0.0	0.0	0.0	0.0
	H2S PPMV										0.0	0.0	0.0	0.0	0.0	0.0
	O2 PPMV													*	*	*

0													VOLUME WEIGHTED			
1	REPORT R69629S1		PUBLIC SERVICE COMPANY OF COLORADO										DATE RUN: 03/18/2019			
			2019										TIME RUN: 14:07:11			
0	SITE ID: FTSV		SITE NAME: FORT ST VRAIN POWER PLANT					DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH						
			TARGET WOBBE: 1327					DATA SOURCE: HPG CAMPION								
			AIR BLENDED: N													
0	MTH: JAN		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
-----														-----	-----	-----
	CO2	1.655	1.511											1.581	1.511	1.655
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.539	0.568											0.554	0.539	0.568
	METHANE	85.660	87.638											86.675	85.660	87.638
	ETHANE	10.318	8.714											9.495	8.714	10.318
	PROPANE	1.328	1.151											1.237	1.151	1.328
	I-BUTANE	0.118	0.102											0.110	0.102	0.118
	N-BUTANE	0.274	0.229											0.251	0.229	0.274
	I-PENTANE	0.045	0.037											0.041	0.037	0.045
	N-PENTANE	0.050	0.040											0.045	0.040	0.050
	HEXANES+	0.013	0.010											0.011	0.010	0.013
	TOTAL	100.00	100.00											100.00		

N2/O2															
%INERTS	2.194	2.079											2.135	2.079	2.194

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	2274.1	2398.7											2336.4	2274.1	2398.7
HIGH BTU/CF	1103.9	1087.9											1095.7	1087.9	1103.9
LOW BTU/CF	997.6	982.6											989.9	982.6	997.6
SPEC GRAV	0.6442	0.6320											0.6379	0.6320	0.6442
WOBBE INDEX	1375.4	1368.5											1371.9	1368.5	1375.4
%DIF	3.6	3.1											3.3	3.1	3.6
LIQ GAL/MCF	0.531	0.455											0.492	0.455	0.531

H2O LB/MMCF	0.0	0.0											0.0	0.0	0.0
H2S PPMV	0.0	0.0											0.0	0.0	0.0
O2 PPMV													*	*	*

0													VOLUME WEIGHTED		
1	REPORT R69629S1												DATE RUN: 03/18/2019		
													TIME RUN: 14:07:11		
0	SITE ID: HSRS														
	SITE NAME: ANADARKO FT LUPTON RESIDU												DATA TYPE: AVG		
	TARGET WOBBE: 1327												ONLINE GAS CHROMATOGRAPH		
	AIR BLENDED: N												DATA SOURCE: HPG CAMPION		
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
NITROGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
METHANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
ETHANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
PROPANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
I-BUTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
N-BUTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
I-PENTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
N-PENTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
HEXANES+	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

N2/O2															
%INERTS	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*	*	*

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
HIGH BTU/CF													*	*	*
LOW BTU/CF													*	*	*
SPEC GRAV													*	*	*
WOBBE INDEX													*	*	*
%DIF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*
LIQ GAL/MCF													*	*	*

H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*
H2S PPMV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*
O2 PPMV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*

0													STRAIGHT AVERAGED		

1REPORT R69629S1

PUC_Reports_Q2-2019.txt
PUBLIC SERVICE COMPANY OF COLORADO
2019

DATE RUN: 03/18/2019
TIME RUN: 14:07:11

0	SITE ID: HSRS		SITE NAME: ANADARKO FT LUPTON RESIDU										DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH	
			TARGET WOBBE: 1327													
			AIR BLENDED: N										DATA SOURCE: HPG CAMPION			
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	0.000	0.000											0	*	*
	OXYGEN	0.000	0.000											0	*	*
	NITROGEN	0.000	0.000											0	*	*
	METHANE	0.000	0.000											0	*	*
	ETHANE	0.000	0.000											0	*	*
	PROPANE	0.000	0.000											0	*	*
	I-BUTANE	0.000	0.000											0	*	*
	N-BUTANE	0.000	0.000											0	*	*
	I-PENTANE	0.000	0.000											0	*	*
	N-PENTANE	0.000	0.000											0	*	*
	HEXANES+	0.000	0.000											0	*	*
	TOTAL	0.00	0.00											100.00		
	N2/O2															
	%INERTS	0.000	0.000											*	*	*
	----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
	VOL(MMCF)	.0	.0											.0		
	HIGH BTU/CF													*	*	*
	LOW BTU/CF													*	*	*
	SPEC GRAV													*	*	*
	WOBBE INDEX													*	*	*
	%DIF	0.0	0.0											*	*	*
	LIQ GAL/MCF													*	*	*
	H2O LB/MMCF	0.0	0.0											*	*	*
	H2S PPMV	0.0	0.0											*	*	*
	O2 PPMV	0.0	0.0											*	*	*

0
1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2018

DATE RUN: 03/18/2019
TIME RUN: 14:07:12

0	SITE ID: LUPO		SITE NAME: FT LUPTON DELIVERY TO CIG										DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH	
			TARGET WOBBE: 1327													
			AIR BLENDED: N										DATA SOURCE: CIG			
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	0.000	1.999	0.000	0.000	0.000	0.000	0.000	2.086	0.000	2.242	2.242	2.219	2.123	1.999	2.242
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.000	0.435	0.000	0.000	0.000	0.000	0.000	0.401	0.000	0.414	0.359	0.339	0.386	0.339	0.435
	METHANE	0.000	85.416	0.000	0.000	0.000	0.000	0.000	81.526	0.000	80.546	83.141	83.119	84.085	80.546	85.416
	ETHANE	0.000	10.839	0.000	0.000	0.000	0.000	0.000	12.777	0.000	13.390	12.212	12.298	11.658	10.839	13.390
	PROPANE	0.000	1.119	0.000	0.000	0.000	0.000	0.000	2.304	0.000	2.422	1.764	1.649	1.452	1.119	2.422
	I-BUTANE	0.000	0.059	0.000	0.000	0.000	0.000	0.000	0.218	0.000	0.235	0.081	0.101	0.083	0.059	0.235
	N-BUTANE	0.000	0.104	0.000	0.000	0.000	0.000	0.000	0.488	0.000	0.537	0.150	0.201	0.158	0.104	0.537
	I-PENTANE	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.077	0.000	0.088	0.021	0.031	0.023	0.013	0.088
	N-PENTANE	0.000	0.012	0.000	0.000	0.000	0.000	0.000	0.083	0.000	0.098	0.023	0.033	0.024	0.012	0.098
	HEXANES+	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.028	0.007	0.010	0.008	0.004	0.040
	TOTAL	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	100.00	100.00	100.00		

[illegible]

N2/O2 %INERTS	0.000	0.000	*	*	*
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----					
VOL(MMCF)	.0	.0	.0		
HIGH BTU/CF			*	*	*
LOW BTU/CF			*	*	*
SPEC GRAV			*	*	*
WOBBE INDEX			*	*	*
%DIF	0.0	0.0	*	*	*
LIQ GAL/MCF			*	*	*

H2O LB/MMCF	0.0	0.0	*	*	*
H2S PPMV	0.0	0.0	*	*	*
O2 PPMV	0.0	0.0	*	*	*

Page 50

0	SITE ID: MEWB			SITE NAME: DCP MEWBOURN GAS PLANT					DATA TYPE: AVG				ONLINE GAS CHROMATOGRAPH				
				TARGET WOBBE: 1327					DATA SOURCE: HPG CAMPION								
				AIR BLENDED: N													
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	

	CO2	0.000	0.001	0.000	0.000	0.000	0.008	0.029	0.002	0.005	0.000	0.001	0.034	0.016	0.000	0.034	
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	NITROGEN	0.339	0.336	0.000	0.000	0.316	0.318	0.324	0.321	0.325	0.326	0.307	0.299	0.312	0.299	0.339	
	METHANE	95.014	92.041	0.000	0.000	94.504	93.894	89.222	93.111	93.400	93.129	93.310	93.192	93.296	89.222	95.014	
	ETHANE	4.597	7.524	0.000	0.000	5.117	5.662	9.865	6.455	6.168	6.451	6.280	6.375	6.277	4.597	9.865	
	PROPANE	0.050	0.097	0.000	0.000	0.063	0.105	0.501	0.109	0.100	0.093	0.100	0.099	0.098	0.050	0.501	
	I-BUTANE	0.000	0.001	0.000	0.000	0.000	0.003	0.016	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.016	
	N-BUTANE	0.000	0.000	0.000	0.000	0.000	0.007	0.031	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.031	
	I-PENTANE	0.000	0.000	0.000	0.000	0.000	0.001	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	
	N-PENTANE	0.000	0.000	0.000	0.000	0.000	0.001	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	
	HEXANES+	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	
	TOTAL	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00			

	N2/O2																
	%INERTS	0.339	0.337	0.000	0.000	0.316	0.326	0.353	0.323	0.330	0.326	0.308	0.333	0.327	0.308	0.353	

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																	

	VOL(MMCF)	46.7	.0	.0	.0	.0	.8	.0	102.7	415.6	194.8	262.0	720.1	249.0	.0	720.1	
	HIGH BTU/CF	1047.0	1070.2			1051.4	1056.4	1095.6	1062.4	1059.8	1062.0	1060.9	1061.5	1060.7	1047.0	1095.6	
	LOW BTU/CF	943.9	965.5			948.0	952.6	989.3	958.2	955.9	957.9	956.9	957.4	956.7	943.9	989.3	
	SPEC GRAV	0.5790	0.5938			0.5816	0.5849	0.6103	0.5886	0.5872	0.5885	0.5876	0.5884	0.5878	0.5790	0.6103	
	WOBBE INDEX	1376.0	1388.8			1378.7	1381.3	1402.4	1384.8	1383.0	1384.4	1384.0	1383.8	1383.6	1376.0	1402.4	
	%DIF	3.7	4.7	0.0	0.0	3.9	4.1	5.7	4.4	4.2	4.3	4.3	4.3	4.3	3.7	5.7	
	LIQ GAL/MCF	0.014	0.027			0.017	0.033	0.157	0.031	0.028	0.026	0.028	0.028	0.028	0.014	0.157	

	H2O LB/MMCF	0.1	0.2	0.0	0.0	0.2	0.1	1.0	0.2	0.1	0.2	0.2	0.2	0.2	0.1	1.0	
	H2S PPMV	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.0	0.2	
	O2 PPMV			0.0	0.0									*	*	*	

0	VOLUME WEIGHTED																
1REPORT R69629S1						PUBLIC SERVICE COMPANY OF COLORADO					2019					DATE RUN: 03/18/2019	
																TIME RUN: 14:07:12	
0	SITE ID: MEWB			SITE NAME: DCP MEWBOURN GAS PLANT					DATA TYPE: AVG				ONLINE GAS CHROMATOGRAPH				
				TARGET WOBBE: 1327					DATA SOURCE: HPG CAMPION								
				AIR BLENDED: N													
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	

	CO2	0.001	0.002											0.001	0.001	0.002	
	OXYGEN	0.000	0.000											0.000	0.000	0.000	
	NITROGEN	0.321	0.330											0.325	0.321	0.330	
	METHANE	93.797	93.874											93.829	93.797	93.874	
	ETHANE	5.793	5.693											5.752	5.693	5.793	
	PROPANE	0.087	0.097											0.091	0.087	0.097	
	I-BUTANE	0.001	0.002											0.001	0.001	0.002	
	N-BUTANE	0.000	0.002											0.001	0.000	0.002	
	I-PENTANE	0.000	0.000											0.000	0.000	0.000	
	N-PENTANE	0.000	0.000											0.000	0.000	0.000	
	HEXANES+	0.000	0.000											0.000	0.000	0.000	
	TOTAL	100.00	100.00											100.00			

N2/O2 %INERTS			0.322	0.332	0.326	0.322	0.332
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----					-----	-----	-----
VOL(MMCF)	573.3	403.3			488.3	403.3	573.3
HIGH BTU/CF	1056.8	1056.2			1056.6	1056.2	1056.8
LOW BTU/CF	953.1	952.5			952.9	952.5	953.1
SPEC GRAV	0.5851	0.5848			0.5850	0.5848	0.5851
WOBBE INDEX	1381.6	1381.2			1381.4	1381.2	1381.6
%DIF	4.1	4.1			4.1	4.1	4.1
LIQ GAL/MCF	0.024	0.028			0.026	0.024	0.028
-----					-----	-----	-----
H2O LB/MMCF	0.1	0.1			0.1	0.1	0.1
H2S PPMV	0.1	0.1			0.1	0.1	0.1
O2 PPMV					*	*	*
-----					-----	-----	-----

0					VOLUME WEIGHTED
1	REPORT R69629S1	PUBLIC SERVICE COMPANY OF COLORADO			DATE RUN: 03/18/2019
		2018			TIME RUN: 14:07:12
0	SITE ID: NRCO	SITE NAME: ANADARKO	PLATTE VAL RESID	DATA TYPE: AVG	ONLINE GAS CHROMATOGRAPH
		TARGET WOBBE: 1327		DATA SOURCE: HPG	CAMPION

[illegible]

0	SITE ID: NRCO		SITE NAME: ANADARKO PLATTE VAL RESID										DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH	
			TARGET WOBBE: 1327													
			AIR BLENDED: N										DATA SOURCE: HPG		CAMPION	
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	2.258	2.246											2.252	2.246	2.258
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.334	0.338											0.336	0.334	0.338
	METHANE	84.337	84.127											84.240	84.127	84.337
	ETHANE	11.510	11.704											11.600	11.510	11.704
	PROPANE	1.496	1.517											1.506	1.496	1.517
	I-BUTANE	0.032	0.033											0.032	0.032	0.033
	N-BUTANE	0.032	0.034											0.033	0.032	0.034
	I-PENTANE	0.001	0.001											0.001	0.001	0.001
	N-PENTANE	0.000	0.000											0.000	0.000	0.000
	HEXANES+	0.000	0.000											0.000	0.000	0.000
	TOTAL	100.00	100.00											100.00		
	N2/O2															
	%INERTS	2.592	2.584											2.588	2.584	2.592
	----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
	VOL(MMCF)	1336.6	1162.4											1249.5	1162.4	1336.6
	HIGH BTU/CF	1100.8	1102.7											1101.7	1100.8	1102.7
	LOW BTU/CF	994.8	996.6											995.6	994.8	996.6
	SPEC GRAV	0.6497	0.6508											0.6502	0.6497	0.6508
	WOBBE INDEX	1365.7	1366.9											1366.3	1365.7	1366.9
	%DIF	2.9	3.0											2.9	2.9	3.0
	LIQ GAL/MCF	0.433	0.440											0.436	0.433	0.440
	H2O LB/MMCF	0.6	0.4											0.5	0.4	0.6
	H2S PPMV	2.7	2.7											2.7	2.7	2.7
	O2 PPMV													*	*	*

0	SITE ID: RNDI		SITE NAME: ROUNDUP GAS INJECTION										DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH	
1REPORT R69629S1			TARGET WOBBE: 1327													
			AIR BLENDED: N										DATA SOURCE: HPG		ROUNDUP	
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	0.000	0.000	0.000	0.000	0.000	2.573	2.491	2.472	2.581	2.466	0.000	0.000	2.504	2.466	2.581
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.000	0.000	0.000	0.000	0.000	0.280	0.297	0.281	0.257	0.272	0.000	0.000	0.277	0.257	0.297
	METHANE	0.000	0.000	0.000	0.000	0.000	81.096	81.129	81.136	81.043	81.128	0.000	0.000	81.109	81.043	81.136
	ETHANE	0.000	0.000	0.000	0.000	0.000	12.401	12.459	12.505	12.289	12.472	0.000	0.000	12.430	12.289	12.505
	PROPANE	0.000	0.000	0.000	0.000	0.000	2.801	2.792	2.695	2.840	2.715	0.000	0.000	2.762	2.695	2.840
	I-BUTANE	0.000	0.000	0.000	0.000	0.000	0.222	0.217	0.232	0.256	0.244	0.000	0.000	0.237	0.217	0.256
	N-BUTANE	0.000	0.000	0.000	0.000	0.000	0.443	0.439	0.465	0.497	0.484	0.000	0.000	0.470	0.439	0.497
	I-PENTANE	0.000	0.000	0.000	0.000	0.000	0.069	0.067	0.078	0.087	0.083	0.000	0.000	0.078	0.067	0.087
	N-PENTANE	0.000	0.000	0.000	0.000	0.000	0.075	0.073	0.085	0.092	0.090	0.000	0.000	0.085	0.073	0.092
	HEXANES+	0.000	0.000	0.000	0.000	0.000	0.040	0.036	0.051	0.058	0.046	0.000	0.000	0.048	0.036	0.058
	TOTAL	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	0.00	0.00	100.00		

N2/O2 %INERTS	0.000	0.000	0.000	0.000	0.000	2.853	2.788	2.753	2.838	2.738	0.000	0.000	2.782	2.738	2.853
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	.0	.0	.0	.0	.0	39.4	611.9	609.6	597.0	530.9	.0	.0	477.8	39.4	611.9
HIGH BTU/CF						1144.4	1144.9	1146.3	1148.0	1147.3			1146.6	1144.4	1148.0
LOW BTU/CF						1035.6	1036.1	1037.4	1039.0	1038.3			1037.6	1035.6	1039.0
SPEC GRAV						0.6822	0.6814	0.6818	0.6844	0.6823			0.6825	0.6814	0.6844
WOBBE INDEX						1385.5	1387.0	1388.3	1387.7	1389.0			1387.9	1385.5	1389.0
%DIF	0.0	0.0	0.0	0.0	0.0	4.4	4.5	4.6	4.6	4.7	0.0	0.0	4.6	4.4	4.7
LIQ GAL/MCF						1.053	1.044	1.045	1.112	1.062			1.065	1.044	1.112

H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H2S PPMV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
O2 PPMV	0.0	0.0	0.0	0.0	0.0						0.0	0.0	*	*	*

0
1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2019

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:12

0

SITE ID: RNDI

SITE NAME: ROUNDUP GAS INJECTION

TARGET WOBBE: 1327

AIR BLENDED: N

DATA TYPE: AVG

ONLINE GAS CHROMATOGRAPH

DATA SOURCE: HPG ROUNDUP

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	0.000	0.000										0	*	*
	OXYGEN	0.000	0.000										0	*	*
	NITROGEN	0.000	0.000										0	*	*
	METHANE	0.000	0.000										0	*	*
	ETHANE	0.000	0.000										0	*	*
	PROPANE	0.000	0.000										0	*	*
	I-BUTANE	0.000	0.000										0	*	*
	N-BUTANE	0.000	0.000										0	*	*
	I-PENTANE	0.000	0.000										0	*	*
	N-PENTANE	0.000	0.000										0	*	*
	HEXANES+	0.000	0.000										0	*	*
	TOTAL	0.00	0.00										100.00		

	N2/O2 %INERTS	0.000	0.000										*	*	*
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
	VOL(MMCF)	.0	.0										.0		
	HIGH BTU/CF												*	*	*
	LOW BTU/CF												*	*	*
	SPEC GRAV												*	*	*
	WOBBE INDEX												*	*	*
	%DIF	0.0	0.0										*	*	*
	LIQ GAL/MCF												*	*	*

	H2O LB/MMCF	0.0	0.0										*	*	*
	H2S PPMV	0.0	0.0										*	*	*
	O2 PPMV	0.0	0.0										*	*	*

0	SITE ID: RNDT			SITE NAME: ROUNDUP GAS TO TRANSMISSN					DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH					
				TARGET WOBBE: 1327					DATA SOURCE: HPG		ROUNDUP					
0	MTH: JAN		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	2.403	2.332	2.273	2.222	0.000	0.000	0.000	0.000	0.000	2.090	2.475	2.522	2.389	2.090	2.522
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.292	0.316	0.337	0.365	0.000	0.000	0.000	0.000	0.000	0.281	0.291	0.280	0.307	0.280	0.365
	METHANE	81.473	81.931	82.313	82.711	0.000	0.000	0.000	0.000	0.000	84.515	81.260	81.194	81.721	81.194	84.515
	ETHANE	12.557	12.352	12.162	11.850	0.000	0.000	0.000	0.000	0.000	11.001	12.431	12.346	12.325	11.001	12.557
	PROPANE	2.537	2.405	2.301	2.259	0.000	0.000	0.000	0.000	0.000	1.907	2.653	2.746	2.513	1.907	2.746
	I-BUTANE	0.207	0.190	0.179	0.173	0.000	0.000	0.000	0.000	0.000	0.080	0.235	0.242	0.207	0.080	0.242
	N-BUTANE	0.381	0.347	0.323	0.312	0.000	0.000	0.000	0.000	0.000	0.108	0.468	0.477	0.389	0.108	0.477
	I-PENTANE	0.056	0.049	0.045	0.043	0.000	0.000	0.000	0.000	0.000	0.009	0.079	0.081	0.059	0.009	0.081
	N-PENTANE	0.057	0.049	0.044	0.042	0.000	0.000	0.000	0.000	0.000	0.008	0.084	0.086	0.061	0.008	0.086
	HEXANES+	0.037	0.029	0.023	0.023	0.000	0.000	0.000	0.000	0.000	0.001	0.024	0.026	0.029	0.001	0.037
	TOTAL	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00		
	N2/O2															
	%INERTS	2.695	2.648	2.610	2.587	0.000	0.000	0.000	0.000	0.000	2.371	2.766	2.802	2.696	2.371	2.802
	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
	VOL(MMCF)	658.3	540.0	413.2	247.4	.0	.0	.0	.0	.0	1.2	28.6	814.2	386.1	1.2	814.2
	HIGH BTU/CF	1140.3	1135.3	1131.4	1128.0						1108.7	1144.1	1145.1	1138.3	1108.7	1145.1
	LOW BTU/CF	1031.8	1027.1	1023.4	1020.2						1002.1	1035.3	1036.2	1029.9	1002.1	1036.2
	SPEC GRAV	0.6769	0.6729	0.6696	0.6669						0.6515	0.6805	0.6818	0.6756	0.6515	0.6818
	WOBBE INDEX	1386.0	1384.0	1382.6	1381.3						1373.6	1386.9	1386.8	1384.9	1373.6	1386.9
	%DIF	4.4	4.3	4.2	4.1	0.0	0.0	0.0	0.0	0.0	3.5	4.5	4.5	4.4	3.5	4.5
	LIQ GAL/MCF	0.943	0.882	0.836	0.818						0.592	1.024	1.057	0.938	0.592	1.057
	H2O LB/MMCF	1.3	0.8	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.6	2.7	2.4	1.4	0.6	2.7
	H2S PPMV					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	O2 PPMV					0.0	0.0	0.0	0.0	0.0				*	*	*
0	VOLUME WEIGHTED															
1	REPORT R69629S1		PUBLIC SERVICE COMPANY OF COLORADO								DATE RUN: 03/18/2019					
			2019								TIME RUN: 14:07:12					
0	SITE ID: RNDT			SITE NAME: ROUNDUP GAS TO TRANSMISSN					DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH					
				TARGET WOBBE: 1327					DATA SOURCE: HPG		ROUNDUP					
0	MTH: JAN		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	2.458	2.409											2.437	2.409	2.458
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.297	0.321											0.307	0.297	0.321
	METHANE	81.474	81.847											81.634	81.474	81.847
	ETHANE	12.321	12.192											12.266	12.192	12.321
	PROPANE	2.621	2.521											2.578	2.521	2.621
	I-BUTANE	0.223	0.201											0.214	0.201	0.223
	N-BUTANE	0.438	0.385											0.415	0.385	0.438
	I-PENTANE	0.071	0.055											0.064	0.055	0.071
	N-PENTANE	0.075	0.056											0.067	0.056	0.075
	HEXANES+	0.022	0.013											0.018	0.013	0.022
	TOTAL	100.00	100.00											100.00		

N2/O2																										
%INERTS												2.755	2.730	2.744	2.755											

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																										

VOL(MMCF)												781.2	582.9	682.1	781.2											
HIGH BTU/CF												1141.2	1135.9	1138.9	1141.2											
LOW BTU/CF												1032.7	1027.7	1030.6	1032.7											
SPEC GRAV												0.6785	0.6745	0.6768	0.6785											
WOBBE INDEX												1385.4	1383.1	1384.4	1385.4											
%DIF												4.4	4.2	4.3	4.4											
LIQ GAL/MCF												0.995	0.927	0.966	0.995											

H2O LB/MMCF												1.5	1.0	1.3	1.5											
H2S PPMV												0.0	0.0	0.0	0.0											
O2 PPMV												*	*	*	*											

0												VOLUME WEIGHTED														
1REPORT R69629S1												DATE RUN: 03/18/2019														
												TIME RUN: 14:07:12														
0												PUBLIC SERVICE COMPANY OF COLORADO														
												2018														
0												SITE ID: ROGN														
												SITE NAME: DCP ROGGEN GP														
												DATA TYPE: AVG														
												ONLINE GAS CHROMATOGRAPH														
												TARGET WOBBE: 1327														
												DATA SOURCE: HPG ROUNDUP														
												AIR BLENDED: N														
0												MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

												CO2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
												OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
												NITROGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
												METHANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
												ETHANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
												PROPANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
												I-BUTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
												N-BUTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
												I-PENTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
												N-PENTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
												HEXANES+	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	*	*
												TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		

												N2/O2														
%INERTS												0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*	*	*	

												REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)														

												VOL(MMCF)	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
												HIGH BTU/CF												*	*	*
												LOW BTU/CF												*	*	*
												SPEC GRAV												*	*	*
												WOBBE INDEX												*	*	*
%DIF												0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*	
LIQ GAL/MCF																							*	*	*	

												H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*
												H2S PPMV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*
												O2 PPMV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*

0												STRAIGHT AVERAGED														

0	SITE ID: ROGN		SITE NAME: DCP ROGGEN GP				DATA TYPE: AVG				ONLINE GAS CHROMATOGRAPH					
			TARGET WOBBE: 1327				DATA SOURCE: HPG ROUNDUP									
			AIR BLENDED: N													
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	0.000												0	*	*
	OXYGEN	0.000												0	*	*
	NITROGEN	0.000												0	*	*
	METHANE	0.000												0	*	*
	ETHANE	0.000												0	*	*
	PROPANE	0.000												0	*	*
	I-BUTANE	0.000												0	*	*
	N-BUTANE	0.000												0	*	*
	I-PENTANE	0.000												0	*	*
	N-PENTANE	0.000												0	*	*
	HEXANES+	0.000												0	*	*
	TOTAL	0.00												100.00		
	N2/O2															
	%INERTS	0.000												*	*	*
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
	VOL(MMCF)													*	*	*
	HIGH BTU/CF													*	*	*
	LOW BTU/CF													*	*	*
	SPEC GRAV													*	*	*
	WOBBE INDEX													*	*	*
	%DIF	0.0												*	*	*
	LIQ GAL/MCF													*	*	*
	H2O LB/MMCF													*	*	*
	H2S PPMV													*	*	*
	O2 PPMV													*	*	*

0													STRAIGHT AVERAGED			
1	REPORT R69629S1												DATE RUN: 03/18/2019			
	PUBLIC SERVICE COMPANY OF COLORADO												TIME RUN: 14:07:12			
	2018															
0	SITE ID: SPND			SITE NAME: DCP SPINDLE GAS PLANT					DATA TYPE: COMP ONLINE GAS CHROMATOGRAPH							
				TARGET WOBBE: 1327					DATA SOURCE: HPG BRIGHTON							
				AIR BLENDED: N												
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	
	CO2	2.025	2.010	2.023	2.052	2.056	2.033	2.025	2.045	2.045	2.031	2.038	2.049	2.035	2.010	2.056
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.533	0.532	0.527	0.519	0.513	0.518	0.516	0.511	0.508	0.539	0.532	0.525	0.523	0.508	0.539
	METHANE	83.786	83.616	83.573	83.663	83.628	83.455	83.417	83.383	83.079	83.070	83.446	83.184	83.424	83.070	83.786
	ETHANE	12.565	12.800	12.724	12.601	12.573	12.730	12.940	13.051	13.276	13.081	12.708	13.035	12.849	12.565	13.276
	PROPANE	0.999	0.960	1.058	1.066	1.120	1.150	0.994	0.920	0.994	1.146	1.151	1.084	1.061	0.920	1.151
	I-BUTANE	0.028	0.025	0.031	0.032	0.034	0.037	0.034	0.028	0.031	0.042	0.041	0.039	0.034	0.025	0.042
	N-BUTANE	0.045	0.041	0.048	0.050	0.054	0.058	0.055	0.045	0.049	0.059	0.066	0.065	0.054	0.041	0.066
	I-PENTANE	0.006	0.005	0.005	0.006	0.007	0.006	0.006	0.005	0.006	0.006	0.007	0.008	0.006	0.005	0.008
	N-PENTANE	0.007	0.006	0.006	0.006	0.008	0.007	0.007	0.006	0.006	0.006	0.008	0.008	0.007	0.006	0.008
	HEXANES+	0.006	0.005	0.005	0.005	0.007	0.006	0.006	0.006	0.006	0.020	0.003	0.003	0.007	0.003	0.020
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		

0	SITE ID: SPND	SITE NAME: DCP SPINDLE GAS PLANT	DATA TYPE: COMP ONLINE GAS CHROMATOGRAPH
		TARGET WOBBE: 1327	DATA SOURCE: HPG BRIGHTON
	AIR BLENDED: N		

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	0.000	0.000										0	*	*
	OXYGEN	0.000	0.000										0	*	*
	NITROGEN	0.000	0.000										0	*	*
	METHANE	0.000	0.000										0	*	*
	ETHANE	0.000	0.000										0	*	*
	PROPANE	0.000	0.000										0	*	*
	I-BUTANE	0.000	0.000										0	*	*
	N-BUTANE	0.000	0.000										0	*	*
	I-PENTANE	0.000	0.000										0	*	*
	N-PENTANE	0.000	0.000										0	*	*
	HEXANES+	0.000	0.000										0	*	*
	TOTAL	0.00	0.00										100.00		
	N2/O2														
	%INERTS	0.000	0.000										*	*	*
	----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----														
	VOL(MMCF)	.0	.0										.0		
	HIGH BTU/CF												*	*	*
	LOW BTU/CF												*	*	*
	SPEC GRAV												*	*	*
	WOBBE INDEX												*	*	*
	%DIF	0.0	0.0										*	*	*
	LIQ GAL/MCF												*	*	*
	H2O LB/MMCF	0.0	0.0										*	*	*
	H2S PPMV	0.0	0.0										*	*	*
	O2 PPMV	0.0	0.0										*	*	*

0 STRAIGHT AVERAGED

0	SITE ID: TTHR		SITE NAME: HIGH PLAINS TRITOWN RECPT				DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH							
			TARGET WOBBE: 1327						DATA SOURCE: CIG							
0			AIR BLENDED: N													
	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	1.996	2.031	1.971	2.020	2.028	2.030	1.939	1.956	2.198	2.273	2.344	2.252	2.130	1.939	2.344
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.435	0.430	0.424	0.419	0.427	0.449	0.436	0.436	0.437	0.465	0.447	0.449	0.439	0.419	0.465
	METHANE	82.838	82.954	82.625	83.259	84.530	85.893	84.496	84.178	83.295	81.797	82.560	80.999	82.648	80.999	85.893
	ETHANE	14.664	14.536	14.907	14.237	12.969	10.941	13.047	13.133	12.952	13.346	12.960	14.409	13.922	10.941	14.907
	PROPANE	0.066	0.049	0.072	0.065	0.046	0.464	0.079	0.235	0.875	1.425	1.125	1.256	0.594	0.046	1.425
	I-BUTANE	0.000	0.000	0.000	0.000	0.000	0.046	0.001	0.016	0.063	0.149	0.126	0.143	0.060	0.000	0.149
	N-BUTANE	0.001	0.000	0.001	0.000	0.000	0.117	0.002	0.033	0.130	0.359	0.306	0.346	0.143	0.000	0.359
	I-PENTANE	0.000	0.000	0.000	0.000	0.000	0.021	0.000	0.005	0.019	0.070	0.062	0.069	0.028	0.000	0.070
	N-PENTANE	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.005	0.019	0.077	0.069	0.076	0.031	0.000	0.077
	HEXANES+	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.003	0.012	0.039	0.001	0.001	0.005	0.000	0.039
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
	N2/O2															
	%INERTS	2.431	2.461	2.395	2.439	2.455	2.479	2.375	2.392	2.635	2.738	2.791	2.701	2.568	2.375	2.791
	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
	VOL(MMCF)	3819.3	3591.2	3357.6	2595.9	802.6	187.9	885.3	1075.8	1963.9	2764.4	5033.1	4346.1	2535.3	187.9	5033.1
	HIGH BTU/CF	1103.4	1101.8	1105.7	1100.0	1089.8	1086.0	1091.7	1096.0	1106.4	1128.4	1116.6	1132.4	1110.9	1086.0	1132.4
	LOW BTU/CF	997.2	995.8	999.4	994.1	984.5	981.0	986.3	990.4	1000.1	1020.6	1009.7	1024.4	1004.3	981.0	1024.4
	SPEC GRAV	0.6481	0.6476	0.6490	0.6461	0.6398	0.6378	0.6398	0.6428	0.6534	0.6690	0.6624	0.6710	0.6551	0.6378	0.6710
	WOBBE INDEX	1370.6	1369.1	1372.5	1368.5	1362.5	1359.8	1364.8	1367.0	1368.7	1379.6	1371.9	1382.4	1372.5	1359.8	1382.4
	%DIF	3.3	3.2	3.4	3.1	2.7	2.5	2.8	3.0	3.1	4.0	3.4	4.2	3.4	2.5	4.2
	LIQ GAL/MCF	0.018	0.013	0.020	0.018	0.013	0.202	0.023	0.085	0.321	0.624	0.496	0.555	0.252	0.013	0.624
	H2O LB/MMCF										0.1	0.1	0.2	0.1	0.1	0.2
	H2S PPMV													*	*	*
	O2 PPMV													*	*	*

0									VOLUME WEIGHTED							
1REPORT R69629S1									DATE RUN: 03/18/2019							
0									TIME RUN: 14:07:13							
	SITE ID: TTHR		SITE NAME: HIGH PLAINS TRITOWN RECPT				DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH							
			TARGET WOBBE: 1327						DATA SOURCE: CIG							
			AIR BLENDED: N													
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	2.254	2.279											2.268	2.254	2.279
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.460	0.469											0.465	0.460	0.469
	METHANE	82.308	83.452											82.930	82.308	83.452
	ETHANE	13.260	12.219											12.693	12.219	13.260
	PROPANE	1.149	1.064											1.103	1.064	1.149
	I-BUTANE	0.131	0.120											0.125	0.120	0.131
	N-BUTANE	0.313	0.287											0.299	0.287	0.313
	I-PENTANE	0.060	0.052											0.056	0.052	0.060
	N-PENTANE	0.064	0.057											0.060	0.057	0.064
	HEXANES+	0.001	0.001											0.001	0.001	0.001
	TOTAL	100.00	100.00											100.00		

N2/O2 %INERTS	2.714	2.748	2.733	2.714	2.748
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----			-----	-----	-----
VOL(MMCF)	3964.7	4733.6	4349.2	3964.7	4733.6
HIGH BTU/CF	1120.1	1109.1	1114.1	1109.1	1120.1
LOW BTU/CF	1012.9	1002.7	1007.3	1002.7	1012.9
SPEC GRAV	0.6633	0.6568	0.6598	0.6568	0.6633
WOBBE INDEX	1375.3	1368.5	1371.6	1368.5	1375.3
%DIF	3.6	3.1	3.3	3.1	3.6
LIQ GAL/MCF	0.504	0.463	0.482	0.463	0.504
-----			-----	-----	-----
H2O LB/MMCF	0.2	0.3	0.3	0.2	0.3
H2S PPMV			*	*	*
O2 PPMV			*	*	*
-----			-----	-----	-----

0			VOLUME WEIGHTED
1	REPORT R69629S1	PUBLIC SERVICE COMPANY OF COLORADO	DATE RUN: 03/18/2019
		2018	TIME RUN: 14:07:13

0	SITE ID: WIND	SITE NAME: AKA GAS PLANT	DATA TYPE: AVG	ONLINE GAS CHROMATOGRAPH
		TARGET WOBBE: 1327	DATA SOURCE: HPG	CAMPION
		AIR BLENDED: N		

[illegible]

N2/O2 %INERTS	3.061	3.039	2.974	3.018	2.958	3.016	3.015	2.971	2.966	3.034	3.080	3.039	3.012	2.958	3.080
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REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)

VOL(MMCF)	468.9	517.3	443.7	437.2	507.6	531.1	563.2	661.0	611.2	464.1	440.9	640.6	523.9	437.2	661.0
HIGH BTU/CF	1112.9	1112.7	1114.3	1113.1	1111.2	1112.3	1113.2	1112.3	1116.0	1113.4	1113.3	1115.4	1113.4	1111.2	1116.0
LOW BTU/CF	1006.3	1006.1	1007.5	1006.5	1004.7	1005.7	1006.5	1005.7	1009.2	1006.7	1006.6	1008.6	1006.7	1004.7	1009.2
SPEC GRAV	0.6660	0.6655	0.6654	0.6654	0.6632	0.6648	0.6654	0.6641	0.6664	0.6658	0.6666	0.6672	0.6655	0.6632	0.6672
WOBBE INDEX	1363.7	1364.0	1366.0	1364.6	1364.5	1364.2	1364.7	1364.9	1367.1	1364.5	1363.6	1365.5	1364.8	1363.6	1367.1
%DIF	2.8	2.8	2.9	2.8	2.8	2.8	2.8	2.9	3.0	2.8	2.8	2.9	2.8	2.8	3.0
LIQ GAL/MCF	0.718	0.707	0.717	0.709	0.684	0.704	0.731	0.695	0.716	0.738	0.750	0.756	0.719	0.684	0.756

[illegible]

VOLUME WEIGHTED

0	SITE ID: WIND			SITE NAME: AKA GAS PLANT				DATA TYPE: AVG				ONLINE GAS CHROMATOGRAPH				
				TARGET WOBBE: 1327				DATA SOURCE: HPG				CAMPION				
	AIR BLENDED: N															
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	2.928	2.907											2.919	2.907	2.928
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.162	0.166											0.164	0.162	0.166
	METHANE	82.765	83.427											83.058	82.765	83.427
	ETHANE	11.520	10.910											11.250	10.910	11.520
	PROPANE	2.164	2.125											2.147	2.125	2.164
	I-BUTANE	0.175	0.174											0.175	0.174	0.175
	N-BUTANE	0.231	0.234											0.232	0.231	0.234
	I-PENTANE	0.030	0.030											0.030	0.030	0.030
	N-PENTANE	0.022	0.023											0.022	0.022	0.023
	HEXANES+	0.003	0.004											0.003	0.003	0.004
	TOTAL	100.00	100.00											100.00		

	N2/O2															
	%INERTS	3.090	3.073											3.082	3.073	3.090
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
	VOL(MMCF)	696.2	554.0											625.1	554.0	696.2
	HIGH BTU/CF	1115.4	1110.4											1113.2	1110.4	1115.4
	LOW BTU/CF	1008.6	1004.0											1006.6	1004.0	1008.6
	SPEC GRAV	0.6681	0.6646											0.6665	0.6646	0.6681
	WOBBE INDEX	1364.6	1362.1											1363.5	1362.1	1364.6
	%DIF	2.8	2.6											2.7	2.6	2.8
	LIQ GAL/MCF	0.746	0.737											0.742	0.737	0.746

	H2O LB/MMCF	0.0	0.0											0.0	0.0	0.0
	H2S PPMV	0.1	0.3											0.2	0.1	0.3
	O2 PPMV	0.0	0.0											0.0	0.0	0.0

0													VOLUME WEIGHTED			
1	REPORT R69629S1		PUBLIC SERVICE COMPANY OF COLORADO										DATE RUN: 03/18/2019			
			2018										TIME RUN: 14:07:13			
0	SITE ID: YONI			SITE NAME: YOSEMITE NORTH INLET					DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH					
				TARGET WOBBE: 1327					DATA SOURCE: HPG BRIGHTON							
				AIR BLENDED: N												
0	MTH: JAN		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	1.923	1.883	1.957	1.954	0.000	2.025	2.002	0.000	0.000	2.025	2.254	2.116	2.039	1.883	2.254
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.445	0.455	0.411	0.447	0.000	0.402	0.414	0.000	0.000	0.448	0.440	0.438	0.441	0.402	0.455
	METHANE	84.112	84.507	83.223	84.105	0.000	83.845	84.695	0.000	0.000	82.870	82.798	82.203	83.314	82.203	84.695
	ETHANE	12.652	12.328	13.489	12.510	0.000	11.512	11.582	0.000	0.000	12.632	12.591	13.194	12.724	11.512	13.489
	PROPANE	0.686	0.660	0.733	0.781	0.000	1.781	1.084	0.000	0.000	1.444	1.337	1.447	1.086	0.660	1.781
	I-BUTANE	0.050	0.047	0.052	0.055	0.000	0.114	0.061	0.000	0.000	0.129	0.130	0.137	0.094	0.047	0.137
	N-BUTANE	0.101	0.092	0.104	0.113	0.000	0.234	0.120	0.000	0.000	0.304	0.309	0.322	0.212	0.092	0.322
	I-PENTANE	0.013	0.012	0.013	0.015	0.000	0.034	0.017	0.000	0.000	0.053	0.057	0.058	0.036	0.012	0.058
	N-PENTANE	0.013	0.012	0.013	0.015	0.000	0.036	0.017	0.000	0.000	0.061	0.064	0.065	0.040	0.012	0.065
	HEXANES+	0.005	0.004	0.005	0.005	0.000	0.017	0.008	0.000	0.000	0.034	0.020	0.020	0.014	0.004	0.034
	TOTAL	100.00	100.00	100.00	100.00	0.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100.00		

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N2/O2	2.368	2.338	2.368	2.401	0.000	2.427	2.416	0.000	0.000	2.473	2.694	2.554	2.480	2.338	2.694
%INERTS															
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----													-----	-----	-----
VOL(MMCF)	3090.9	2626.0	1271.2	2139.0	.0	265.4	213.4	.0	.0	2366.3	3544.1	4265.9	2198.0	213.4	4265.9
HIGH BTU/CF	1102.4	1099.4	1109.6	1102.9		1116.0	1100.8			1122.9	1118.5	1126.7	1113.3	1099.4	1126.7
LOW BTU/CF	996.3	993.4	1003.0	996.8		1009.0	994.8			1015.4	1011.4	1019.1	1006.5	993.4	1019.1
SPEC GRAV	0.6465	0.6440	0.6512	0.6473		0.6564	0.6464			0.6613	0.6621	0.6651	0.6553	0.6440	0.6651
WOBBE INDEX	1371.1	1370.0	1375.0	1370.8		1377.5	1369.2			1380.8	1374.6	1381.5	1375.3	1369.2	1381.5
%DIF	3.3	3.2	3.6	3.3	0.0	3.8	3.2	0.0	0.0	4.1	3.6	4.1	3.6	3.2	4.1
LIQ GAL/MCF	0.249	0.237	0.263	0.282		0.634	0.372			0.591	0.560	0.598	0.430	0.237	0.634
-----													-----	-----	-----
H2O LB/MMCF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H2S PPMV					0.0				0.0	0.0			*	*	*
O2 PPMV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0
-----													-----	-----	-----
0													VOLUME WEIGHTED		
1	REPORT R69629S1												DATE RUN: 03/18/2019		
													TIME RUN: 14:07:13		
0	SITE ID: YONI														
	SITE NAME: YOSEMITE NORTH INLET												DATA TYPE: AVG		
	TARGET WOBBE: 1327												ONLINE GAS CHROMATOGRAPH		
	AIR BLENDED: N												DATA SOURCE: HPG BRIGHTON		
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
-----													-----	-----	-----
CO2	2.210	2.226											2.218	2.210	2.226
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	0.435	0.443											0.439	0.435	0.443
METHANE	82.399	83.159											82.773	82.399	83.159
ETHANE	12.777	12.120											12.453	12.120	12.777
PROPANE	1.578	1.465											1.522	1.465	1.578
I-BUTANE	0.143	0.140											0.142	0.140	0.143
N-BUTANE	0.329	0.325											0.327	0.325	0.329
I-PENTANE	0.055	0.053											0.054	0.053	0.055
N-PENTANE	0.059	0.056											0.058	0.056	0.059
HEXANES+	0.015	0.013											0.014	0.013	0.015
TOTAL	100.00	100.00											100.00		
-----													-----	-----	-----
N2/O2	2.645	2.669											2.657	2.645	2.669
%INERTS															
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----													-----	-----	-----
VOL(MMCF)	3537.1	3445.5											3491.3	3445.5	3537.1
HIGH BTU/CF	1124.4	1117.1											1120.8	1117.1	1124.4
LOW BTU/CF	1016.9	1010.1											1013.5	1010.1	1016.9
SPEC GRAV	0.6652	0.6608											0.6630	0.6608	0.6652
WOBBE INDEX	1378.6	1374.2											1376.4	1374.2	1378.6
%DIF	3.9	3.6											3.8	3.6	3.9
LIQ GAL/MCF	0.633	0.597											0.615	0.597	0.633
-----													-----	-----	-----
H2O LB/MMCF	0.0	0.0											0.0	0.0	0.0
H2S PPMV													*	*	*
O2 PPMV													*	*	*
-----													-----	-----	-----
0													VOLUME WEIGHTED		

0	SITE ID: YOSI			SITE NAME: YOSEMITE SOUTH INLET				DATA TYPE: AVG					ONLINE GAS CHROMATOGRAPH			
				TARGET WOBBE: 1327				DATA SOURCE: HPG BRIGHTON								
				AIR BLENDED: N												
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	1.908	1.891	2.008	1.965	1.998	2.006	2.043	2.195	2.184	2.122	2.229	2.096	2.036	1.891	2.229
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.501	0.508	0.461	0.478	0.433	0.457	0.445	0.411	0.417	0.498	0.489	0.471	0.471	0.411	0.508
	METHANE	84.246	84.426	83.475	84.156	84.682	83.968	84.340	83.654	83.277	82.267	82.908	82.307	83.637	82.267	84.682
	ETHANE	12.492	12.367	13.088	12.440	11.222	11.541	12.075	11.982	12.116	12.709	12.508	13.098	12.415	11.222	13.098
	PROPANE	0.678	0.647	0.780	0.778	1.318	1.674	0.941	1.466	1.584	1.784	1.311	1.433	1.113	0.647	1.784
	I-BUTANE	0.048	0.045	0.053	0.051	0.094	0.098	0.045	0.080	0.110	0.146	0.126	0.137	0.083	0.045	0.146
	N-BUTANE	0.097	0.089	0.104	0.103	0.190	0.192	0.083	0.157	0.227	0.331	0.296	0.320	0.178	0.083	0.331
	I-PENTANE	0.013	0.012	0.013	0.014	0.027	0.026	0.011	0.022	0.034	0.053	0.054	0.057	0.028	0.011	0.057
	N-PENTANE	0.012	0.011	0.013	0.013	0.026	0.026	0.011	0.022	0.034	0.057	0.059	0.061	0.028	0.011	0.061
	HEXANES+	0.005	0.004	0.005	0.002	0.010	0.012	0.006	0.011	0.017	0.033	0.020	0.020	0.011	0.002	0.033
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
	N2/O2															
	%INERTS	2.409	2.399	2.469	2.443	2.431	2.463	2.488	2.606	2.601	2.620	2.718	2.567	2.507	2.399	2.718
	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
	VOL(MMCF)	4308.5	4762.8	4565.6	3027.3	2985.2	1767.7	1809.4	1791.1	2088.9	2564.0	3505.4	4099.5	3106.3	1767.7	4762.8
	HIGH BTU/CF	1100.5	1098.7	1106.3	1101.4	1104.4	1112.1	1100.0	1109.4	1115.6	1128.0	1116.6	1125.5	1109.3	1098.7	1128.0
	LOW BTU/CF	994.5	992.8	999.9	995.4	998.2	1005.4	994.1	1002.9	1008.7	1020.2	1009.7	1017.9	1002.8	992.8	1020.2
	SPEC GRAV	0.6456	0.6442	0.6505	0.6469	0.6489	0.6542	0.6469	0.6550	0.6589	0.6667	0.6610	0.6643	0.6530	0.6442	0.6667
	WOBBE INDEX	1369.6	1368.9	1371.7	1369.4	1371.0	1375.0	1367.6	1370.8	1374.4	1381.5	1373.4	1380.9	1372.8	1367.6	1381.5
	%DIF	3.2	3.2	3.4	3.2	3.3	3.6	3.1	3.3	3.6	4.1	3.5	4.1	3.5	3.1	4.1
	LIQ GAL/MCF	0.244	0.231	0.276	0.274	0.477	0.578	0.311	0.500	0.576	0.697	0.545	0.592	0.415	0.231	0.697
	H2O LB/MMCF	1.0	1.0	1.1	1.0	1.2	1.3	1.0	1.2	1.3	1.7	1.2	1.4	1.2	1.0	1.7
	H2S PPMV													*	*	*
	O2 PPMV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0														VOLUME WEIGHTED		
1	REPORT R69629S1													PUBLIC SERVICE COMPANY OF COLORADO		
														2019		
														DATE RUN: 03/18/2019		
														TIME RUN: 14:07:13		
0	SITE ID: YOSI			SITE NAME: YOSEMITE SOUTH INLET				DATA TYPE: AVG					ONLINE GAS CHROMATOGRAPH			
				TARGET WOBBE: 1327				DATA SOURCE: HPG BRIGHTON								
				AIR BLENDED: N												
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	2.187	2.206											2.197	2.187	2.206
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.468	0.476											0.472	0.468	0.476
	METHANE	82.498	83.211											82.857	82.498	83.211
	ETHANE	12.683	12.072											12.376	12.072	12.683
	PROPANE	1.565	1.451											1.508	1.451	1.565
	I-BUTANE	0.144	0.141											0.142	0.141	0.144
	N-BUTANE	0.328	0.324											0.326	0.324	0.328
	I-PENTANE	0.055	0.053											0.054	0.053	0.055
	N-PENTANE	0.057	0.054											0.055	0.054	0.057
	HEXANES+	0.015	0.012											0.013	0.012	0.015
	TOTAL	100.00	100.00											100.00		

0 BTU_ZONE: PUEBLO

1REPORT R69629Z0 DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.
PUBLIC SERVICE COMPANY OF COLORADO DATE RUN: 03/18/2019
2018 TIME RUN: 14:07:13

0 ZONE NAME: PUEBLO

Page 64

PUC_Reports_Q2-2019.txt													1270.7	1267.2	1274.5
WOBBE INDEX	1271.0	1270.5	1272.2	1271.9	1274.5	1267.2	1268.7	1267.2	1268.8	1273.7	1270.1	1270.1	0.245	0.030	0.854
LIQ GAL/MCF	0.030	0.067	0.305	0.428	0.743	0.852	0.778	0.843	0.854	0.590	0.124	0.057			

0
1REPORT R69629Z0 PUBLIC SERVICE COMPANY OF COLORADO 2019 VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:14

0 ZONE NAME: PUEBLO

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.667	0.700											0.682	0.667	0.700
OXYGEN	0.805	0.819											0.812	0.805	0.819
NITROGEN	3.559	3.619											3.587	3.559	3.619
METHANE	93.889	93.521											93.717	93.521	93.889
ETHANE	0.852	1.046											0.943	0.852	1.046
PROPANE	0.177	0.232											0.203	0.177	0.232
I-BUTANE	0.015	0.019											0.017	0.015	0.019
N-BUTANE	0.028	0.035											0.031	0.028	0.035
I-PENTANE	0.004	0.004											0.004	0.004	0.004
N-PENTANE	0.003	0.004											0.003	0.003	0.004
HEXANES+	0.001	0.001											0.001	0.001	0.001
TOTAL	100.00	100.00											100.00		
N2/O2	4.421	4.419											4.420	4.419	4.421
%INERTS	5.031	5.138											5.081	5.031	5.138
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	869.7	764.0											816.9	764.0	869.7
HIGH BTU/CF	973.6	975.2											974.3	973.6	975.2
LOW BTU/CF	877.0	878.5											877.7	877.0	878.5
SPEC GRAV	0.5869	0.5893											0.5880	0.5869	0.5893
WOBBE INDEX	1270.9	1270.4											1270.7	1270.4	1270.9
LIQ GAL/MCF	0.065	0.084											0.074	0.065	0.084

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO 2018 VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:14

0 SITE ID: CIGPUN SITE NAME: CIG PUEBLO NORTH TB DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1207 DATA SOURCE: CIG
AIR BLENDED: Y

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.636	0.713	1.228	1.387	1.686	1.930	1.914	2.065	1.919	1.547	0.799	0.724	1.010	0.636	2.065
OXYGEN	0.772	0.825	1.024	1.165	1.364	1.518	1.452	1.481	1.498	1.183	0.855	0.842	0.968	0.772	1.518
NITROGEN	3.551	3.643	4.394	4.676	5.411	6.013	5.834	6.222	6.107	4.910	3.723	3.654	4.144	3.551	6.222
METHANE	94.249	93.321	86.641	84.243	79.251	76.496	77.142	75.689	76.075	82.543	92.474	93.162	89.326	75.689	94.249
ETHANE	0.631	1.207	5.458	6.934	9.688	11.112	11.008	11.858	11.490	7.875	1.716	1.275	3.655	0.631	11.858
PROPANE	0.122	0.224	0.975	1.219	1.950	2.210	1.983	1.996	2.177	1.474	0.335	0.266	0.683	0.122	2.210
I-BUTANE	0.012	0.020	0.078	0.101	0.171	0.188	0.171	0.172	0.186	0.121	0.028	0.023	0.058	0.012	0.188
N-BUTANE	0.020	0.035	0.154	0.206	0.356	0.393	0.361	0.365	0.398	0.251	0.053	0.042	0.116	0.020	0.398
I-PENTANE	0.003	0.005	0.021	0.029	0.051	0.057	0.054	0.058	0.060	0.038	0.008	0.006	0.017	0.003	0.060
N-PENTANE	0.002	0.004	0.019	0.028	0.051	0.058	0.055	0.059	0.061	0.039	0.007	0.005	0.016	0.002	0.061
HEXANES+	0.002	0.003	0.008	0.012	0.021	0.025	0.026	0.035	0.029	0.019	0.002	0.001	0.007	0.001	0.035
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
N2/O2	4.600	4.416	4.291	4.014	3.967	3.961	4.018	4.201	4.077	4.150	4.354	4.340	4.322	3.961	4.600

PUC_Reports_Q2-2019.txt															
%INERTS	4.959	5.181	6.646	7.228	8.461	9.461	9.200	9.768	9.524	7.640	5.377	5.220	6.121	4.959	9.768
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	308.8	266.4	160.6	131.9	66.5	43.6	30.1	26.9	27.8	92.8	172.3	243.9	131.0	26.9	308.8
HIGH BTU/CF	971.6	976.0	1010.3	1021.8	1048.3	1054.9	1051.9	1053.7	1057.0	1031.1	980.3	977.0	995.8	971.6	1057.0
LOW BTU/CF	875.0	879.3	911.7	922.7	947.9	954.3	951.5	953.3	956.3	931.5	883.4	880.2	898.1	875.0	956.3
SPEC GRAV	0.5846	0.5903	0.6308	0.6454	0.6774	0.6938	0.6889	0.6969	0.6957	0.6567	0.5957	0.5914	0.6148	0.5846	0.6969
WOBBE INDEX	1270.7	1270.3	1272.1	1271.9	1273.7	1266.5	1267.3	1262.2	1267.3	1272.4	1270.1	1270.4	1270.6	1262.2	1273.7
%DIF	5.3	5.2	5.4	5.4	5.5	4.9	5.0	4.6	5.0	5.4	5.2	5.3	5.3	4.6	5.5
LIQ GAL/MCF	0.046	0.084	0.360	0.459	0.751	0.846	0.766	0.778	0.842	0.561	0.124	0.098	0.259	0.046	0.846

H2O LB/MMCF													*	*	*
H2S PPMV													*	*	*
O2 PPMV										0.3	0.9	0.9	0.3	0.3	0.9

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO
2019 VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:14

0 SITE ID: CIGPUN SITE NAME: CIG PUEBLO NORTH TB DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH
TARGET WOBBE: 1207
AIR BLENDED: Y DATA SOURCE: CIG

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.723	0.782											0.751	0.723	0.782
OXYGEN	0.831	0.863											0.846	0.831	0.863
NITROGEN	3.635	3.728											3.678	3.635	3.728
METHANE	93.174	92.468											92.844	92.468	93.174
ETHANE	1.295	1.681											1.475	1.295	1.681
PROPANE	0.265	0.376											0.317	0.265	0.376
I-BUTANE	0.022	0.030											0.026	0.022	0.030
N-BUTANE	0.042	0.056											0.049	0.042	0.056
I-PENTANE	0.006	0.007											0.006	0.006	0.007
N-PENTANE	0.005	0.007											0.006	0.005	0.007
HEXANES+	0.002	0.002											0.002	0.002	0.002
TOTAL	100.00	100.00											100.00		

N2/O2	4.374	4.320											4.349	4.320	4.374
%INERTS	5.189	5.373											5.275	5.189	5.373

----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----										-----	-----	-----
VOL(MMCF)	241.0	211.3								226.2	211.3	241.0
HIGH BTU/CF	977.5	980.8								979.0	977.5	980.8
LOW BTU/CF	880.6	883.8								882.1	880.6	883.8
SPEC GRAV	0.5914	0.5959								0.5935	0.5914	0.5959
WOBBE INDEX	1271.1	1270.6								1270.9	1270.6	1271.1
%DIF	5.3	5.3								5.3	5.3	5.3
LIQ GAL/MCF	0.098	0.137								0.116	0.098	0.137
-----										-----	-----	-----
H2O LB/MMCF										*	*	*
H2S PPMV										*	*	*
O2 PPMV	0.8	0.8								0.8	0.8	0.8
-----										-----	-----	-----

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1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO
2018 VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:14

0	PUC_Reports_Q2-2019.txt												ONLINE GAS CHROMATOGRAPH		
	SITE ID: CIGPUS			SITE NAME: CIG PUEBLO SOUTH TB			DATA TYPE: AVG			DATA SOURCE: CIG					
				TARGET WOBBE: 1207											
				AIR BLENDED: Y											
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	0.592	0.662	1.056	1.275	1.642	1.915	1.974	1.918	1.611	0.684	0.634	0.943	0.592	1.974
	OXYGEN	0.733	0.716	0.944	1.079	1.270	1.522	1.477	1.534	1.203	0.801	0.790	0.922	0.716	1.534
	NITROGEN	3.474	3.649	4.140	4.527	5.377	5.986	5.777	5.983	6.029	4.995	3.531	4.071	3.474	6.029
	METHANE	94.867	93.971	88.787	85.715	79.719	76.462	77.065	75.950	76.016	81.427	93.904	90.126	75.950	94.867
	ETHANE	0.264	0.803	4.113	5.978	9.433	11.157	11.080	11.577	11.564	8.629	0.822	0.531	0.264	11.577
	PROPANE	0.053	0.155	0.751	1.098	1.932	2.232	2.036	2.240	2.232	1.626	0.167	0.110	0.053	2.240
	I-BUTANE	0.006	0.014	0.058	0.088	0.163	0.186	0.170	0.185	0.184	0.128	0.015	0.011	0.006	0.186
	N-BUTANE	0.009	0.024	0.117	0.182	0.348	0.400	0.366	0.405	0.403	0.276	0.026	0.018	0.009	0.405
	I-PENTANE	0.001	0.003	0.015	0.025	0.049	0.058	0.054	0.061	0.060	0.041	0.003	0.002	0.001	0.061
	N-PENTANE	0.001	0.002	0.014	0.024	0.048	0.058	0.055	0.062	0.061	0.042	0.003	0.002	0.001	0.062
	HEXANES+	0.000	0.001	0.005	0.009	0.019	0.024	0.024	0.029	0.027	0.001	0.001	0.006	0.000	0.029
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
	N2/O2	4.739	5.096	4.386	4.196	4.234	3.933	3.911	3.900	4.003	4.152	4.462	4.497	3.900	5.096
	%INERTS	4.799	5.027	6.140	6.881	8.289	9.423	9.150	9.491	9.453	7.809	5.059	5.936	4.799	9.491
	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)														
	VOL(MMCF)	538.6	491.9	309.4	233.6	107.3	93.3	99.9	99.5	105.0	102.6	489.8	274.2	93.3	619.3
	HIGH BTU/CF	968.8	972.8	1000.0	1015.0	1047.2	1056.0	1053.8	1059.2	1059.1	1038.6	972.9	991.9	968.8	1059.2
	LOW BTU/CF	872.4	876.2	902.0	916.2	946.7	955.4	953.2	958.3	958.3	938.5	876.3	894.4	872.4	958.3
	SPEC GRAV	0.5809	0.5862	0.6179	0.6367	0.6745	0.6940	0.6895	0.6971	0.6963	0.6636	0.5868	0.6099	0.5809	0.6971
	WOBBE INDEX	1271.1	1270.6	1272.2	1272.0	1275.1	1267.6	1269.1	1268.6	1269.2	1275.0	1270.1	1270.8	1267.6	1275.1
	%DIF	5.3	5.3	5.4	5.4	5.6	5.0	5.1	5.1	5.2	5.6	5.2	5.3	5.0	5.6
	LIQ GAL/MCF	0.020	0.057	0.275	0.410	0.738	0.854	0.781	0.862	0.857	0.616	0.062	0.228	0.020	0.862
	H2O LB/MMCF												*	*	*
	H2S PPMV												*	*	*
	O2 PPMV												*	*	*
0	VOLUME WEIGHTED														
1	REPORT R69629S1														
				PUBLIC SERVICE COMPANY OF COLORADO			DATE RUN: 03/18/2019			TIME RUN: 14:07:14					
				2019											
0	SITE ID: CIGPUS			SITE NAME: CIG PUEBLO SOUTH TB			DATA TYPE: AVG			ONLINE GAS CHROMATOGRAPH					
				TARGET WOBBE: 1207			DATA SOURCE: CIG								
				AIR BLENDED: Y											
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	0.646	0.669										0.657	0.646	0.669
	OXYGEN	0.795	0.802										0.798	0.795	0.802
	NITROGEN	3.530	3.577										3.552	3.530	3.577
	METHANE	94.163	93.923										94.051	93.923	94.163
	ETHANE	0.682	0.803										0.739	0.682	0.803
	PROPANE	0.143	0.177										0.159	0.143	0.177
	I-BUTANE	0.013	0.015										0.014	0.013	0.015
	N-BUTANE	0.022	0.027										0.024	0.022	0.027
	I-PENTANE	0.003	0.003										0.003	0.003	0.003
	N-PENTANE	0.002	0.003										0.002	0.002	0.003
	HEXANES+	0.001	0.001										0.001	0.001	0.001
	TOTAL	100.00	100.00										100.00		
	N2/O2	4.440	4.460										4.449	4.440	4.460

PUC_Reports_Q2-2019.txt			5.007	4.971	5.048
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----			-----	-----	-----
VOL(MMCF)	628.7	552.7	590.7	552.7	628.7
HIGH BTU/CF	972.2	973.0	972.6	972.2	973.0
LOW BTU/CF	875.6	876.4	876.0	875.6	876.4
SPEC GRAV	0.5852	0.5867	0.5859	0.5852	0.5867
WOBBE INDEX	1270.9	1270.3	1270.6	1270.3	1270.9
%DIF	5.3	5.2	5.3	5.2	5.3
LIQ GAL/MCF	0.053	0.065	0.059	0.053	0.065
-----			-----	-----	-----
H2O LB/MMCF			*	*	*
H2S PPMV			*	*	*
O2 PPMV	0.8	0.8	0.8	0.8	0.8
-----			-----	-----	-----

0
1REPORT R699680 PUBLIC SERVICE COMPANY OF COLORADO
BTU ZONE SUMMARY HEATING VALUES REPORT
SECOND QUARTER, 2019
VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:14

0	BTU ZONE: RIFLE-VAIL								
0			NET	HV (BTU/CF, 14.73 PSIA, 60 F, DRY)			VOLUME (MCF AT 14.73 PSIA)		
	SITE ID	SAMPLING SITE NAME	FLOW	DECEMBER	JANUARY	FEBRUARY	DECEMBER	JANUARY	FEBRUARY
0	RV12	AVON 12-INCH INLET	IN	1035.7	1038.1	1037.2	1,600,691	1,669,108	1,451,624
0		VOLUME WEIGHTED HEATING VALUE:		1035.7	1038.1	1037.2	TOTAL VOL:	1,600,691	1,669,108
0		QUARTER AVERAGE HEATING VALUE:		1037.0					

-
DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.
1REPORT R69629Z0 PUBLIC SERVICE COMPANY OF COLORADO
2018
DATE RUN: 03/18/2019
TIME RUN: 14:07:14

0	ZONE NAME: RIFLE-VAIL															
-	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	
	CO2	1.305	1.480	1.852	0.150	0.663	0.497	0.407	0.587	0.860	0.552	1.499	0.988	1.003	0.150	1.852
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.075	0.078	0.092	0.071	0.102	0.097	0.089	0.113	0.165	0.109	0.064	0.062	0.086	0.062	0.165
	METHANE	92.633	93.145	91.679	96.270	95.695	95.707	96.138	96.135	95.246	94.841	93.282	95.591	94.440	91.679	96.270
	ETHANE	5.103	4.337	5.142	3.280	3.174	3.432	3.007	2.757	3.470	3.886	4.364	2.746	3.825	2.746	5.142
	PROPANE	0.633	0.688	0.882	0.168	0.268	0.202	0.260	0.297	0.194	0.449	0.570	0.440	0.466	0.168	0.882
	I-BUTANE	0.114	0.123	0.160	0.028	0.044	0.030	0.044	0.047	0.029	0.068	0.100	0.079	0.081	0.028	0.160
	N-BUTANE	0.094	0.103	0.134	0.022	0.035	0.023	0.036	0.044	0.024	0.069	0.085	0.067	0.069	0.022	0.134
	I-PENTANE	0.029	0.031	0.041	0.008	0.012	0.008	0.012	0.013	0.008	0.019	0.027	0.022	0.021	0.008	0.041
	N-PENTANE	0.002	0.002	0.002	0.000	0.001	0.000	0.001	0.001	0.000	0.001	0.002	0.001	0.001	0.000	0.002
	HEXANES+	0.012	0.013	0.016	0.003	0.006	0.004	0.006	0.006	0.004	0.006	0.007	0.004	0.008	0.003	0.016
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
	N2/O2															
	%INERTS	1.380	1.558	1.944	0.221	0.765	0.594	0.496	0.700	1.025	0.661	1.563	1.050	1.089	0.221	1.944
	----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----													-----	-----	-----
	VOL(MMCF)	1314.1	1244.9	824.7	786.8	655.2	691.6	606.4	566.5	540.0	844.4	1276.0	1600.7	912.6	540.0	1600.7
	HIGH BTU/CF	1055.3	1049.0	1056.2	1041.3	1037.5	1039.4	1038.7	1035.6	1035.2	1048.2	1046.1	1035.7	1044.2	1035.2	1056.2
	LOW BTU/CF	952.0	946.1	953.0	938.5	935.1	936.9	936.2	933.4	933.1	945.1	943.4	933.5	941.5	933.1	953.0
	SPEC GRAV	0.6026	0.6015	0.6123	0.5750	0.5812	0.5797	0.5778	0.5789	0.5836	0.5864	0.5998	0.5849	0.5908	0.5750	0.6123
	WOBBE INDEX	1359.4	1352.6	1349.8	1373.2	1360.9	1365.2	1366.5	1361.1	1355.1	1368.8	1350.7	1354.2	1358.6	1349.8	1373.2
	LIQ GAL/MCF	0.258	0.280	0.360	0.067	0.106	0.077	0.105	0.119	0.075	0.177	0.230	0.178	0.188	0.067	0.360

0														VOLUME WEIGHTED		
1	REPORT R69629Z0	PUBLIC SERVICE COMPANY OF COLORADO												DATE RUN: 03/18/2019		
0	2019												TIME RUN: 14:07:14			
0	ZONE NAME: RIFLE-VAIL															
-	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	1.126	1.392											1.250	1.126	1.392
	OXYGEN	0.000	0.000											0.000	0.000	0.000
	NITROGEN	0.061	0.063											0.062	0.061	0.063
	METHANE	94.866	94.736											94.807	94.736	94.866
	ETHANE	3.392	2.978											3.199	2.978	3.392
	PROPANE	0.404	0.596											0.493	0.404	0.596
	I-BUTANE	0.069	0.108											0.087	0.069	0.108
	N-BUTANE	0.059	0.091											0.074	0.059	0.091
	I-PENTANE	0.018	0.029											0.023	0.018	0.029
	N-PENTANE	0.001	0.002											0.001	0.001	0.002
	HEXANES+	0.004	0.005											0.004	0.004	0.005
	TOTAL	100.00	100.00											100.00		
	N2/O2															
	%INERTS	1.187	1.455											1.312	1.187	1.455
	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
	VOL(MMCF)	1669.1	1451.6											1560.4	1451.6	1669.1
	HIGH BTU/CF	1038.1	1037.2											1037.7	1037.2	1038.1
	LOW BTU/CF	935.9	935.1											935.5	935.1	935.9
	SPEC GRAV	0.5887	0.5924											0.5904	0.5887	0.5924
	WOBBE INDEX	1353.0	1347.6											1350.5	1347.6	1353.0
	LIQ GAL/MCF	0.161	0.242											0.199	0.161	0.242
0														VOLUME WEIGHTED		
1	REPORT R69629S1	PUBLIC SERVICE COMPANY OF COLORADO												DATE RUN: 03/18/2019		
0	2018												TIME RUN: 14:07:14			
0	SITE ID: RV12		SITE NAME: AVON 12-INCH INLET					DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH						
			TARGET WOBBE: 1327					DATA SOURCE: HPG MEEKER								
			AIR BLENDED: N													
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	1.305	1.480	1.852	0.150	0.663	0.497	0.407	0.587	0.860	0.552	1.499	0.988	1.003	0.150	1.852
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.075	0.078	0.092	0.071	0.102	0.097	0.089	0.113	0.165	0.109	0.064	0.062	0.086	0.062	0.165
	METHANE	92.633	93.145	91.679	96.270	95.695	95.707	96.138	96.135	95.246	94.841	93.282	95.591	94.440	91.679	96.270
	ETHANE	5.103	4.337	5.142	3.280	3.174	3.432	3.007	2.757	3.470	3.886	4.364	2.746	3.825	2.746	5.142
	PROPANE	0.633	0.688	0.882	0.168	0.268	0.202	0.260	0.297	0.194	0.449	0.570	0.440	0.466	0.168	0.882
	I-BUTANE	0.114	0.123	0.160	0.028	0.044	0.030	0.044	0.047	0.029	0.068	0.100	0.079	0.081	0.028	0.160
	N-BUTANE	0.094	0.103	0.134	0.022	0.035	0.023	0.036	0.044	0.024	0.069	0.085	0.067	0.069	0.022	0.134
	I-PENTANE	0.029	0.031	0.041	0.008	0.012	0.008	0.012	0.013	0.008	0.019	0.027	0.022	0.021	0.008	0.041
	N-PENTANE	0.002	0.002	0.002	0.000	0.001	0.000	0.001	0.001	0.000	0.001	0.002	0.001	0.001	0.000	0.002
	HEXANES+	0.012	0.013	0.016	0.003	0.006	0.004	0.006	0.006	0.004	0.006	0.007	0.004	0.008	0.003	0.016
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
	N2/O2															
	%INERTS	1.380	1.558	1.944	0.221	0.765	0.594	0.496	0.700	1.025	0.661	1.563	1.050	1.089	0.221	1.944
	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															

VOL(MMCF)	1314.1	1244.9	824.7	786.8	655.2	691.6	606.4	566.5	540.0	844.4	1276.0	1600.7	912.6	540.0	1600.7
HIGH BTU/CF	1055.3	1049.0	1056.2	1041.3	1037.5	1039.4	1038.7	1035.6	1035.2	1048.2	1046.1	1035.7	1044.2	1035.2	1056.2
LOW BTU/CF	952.0	946.1	953.0	938.5	935.1	936.9	936.2	933.4	933.1	945.1	943.4	933.5	941.5	933.1	953.0
SPEC GRAV	0.6026	0.6015	0.6123	0.5750	0.5812	0.5797	0.5778	0.5789	0.5836	0.5864	0.5998	0.5849	0.5908	0.5750	0.6123
WOBBE INDEX	1359.4	1352.6	1349.8	1373.2	1360.9	1365.2	1366.5	1361.1	1355.1	1368.8	1350.7	1354.2	1358.6	1349.8	1373.2
%DIF	2.4	1.9	1.7	3.5	2.6	2.9	3.0	2.6	2.1	3.1	1.8	2.0	2.4	1.7	3.5
LIQ GAL/MCF	0.258	0.280	0.360	0.067	0.106	0.077	0.105	0.119	0.075	0.177	0.230	0.178	0.188	0.067	0.360
H2O LB/MMCF													*	*	*
H2S PPMV													*	*	*
O2 PPMV													*	*	*

0

1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2019

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:14

0

SITE ID: RV12

SITE NAME: AVON 12-INCH INLET

DATA TYPE: AVG

ONLINE GAS CHROMATOGRAPH

TARGET WOBBE: 1327

AIR BLENDED: N

DATA SOURCE: HPG MEEKER

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.126	1.392											1.250	1.126	1.392
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	0.061	0.063											0.062	0.061	0.063
METHANE	94.866	94.736											94.807	94.736	94.866
ETHANE	3.392	2.978											3.199	2.978	3.392
PROPANE	0.404	0.596											0.493	0.404	0.596
I-BUTANE	0.069	0.108											0.087	0.069	0.108
N-BUTANE	0.059	0.091											0.074	0.059	0.091
I-PENTANE	0.018	0.029											0.023	0.018	0.029
N-PENTANE	0.001	0.002											0.001	0.001	0.002
HEXANES+	0.004	0.005											0.004	0.004	0.005
TOTAL	100.00	100.00											100.00		

N2/O2															
%INERTS	1.187	1.455											1.312	1.187	1.455

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)

VOL(MMCF)	1669.1	1451.6											1560.4	1451.6	1669.1
HIGH BTU/CF	1038.1	1037.2											1037.7	1037.2	1038.1
LOW BTU/CF	935.9	935.1											935.5	935.1	935.9
SPEC GRAV	0.5887	0.5924											0.5904	0.5887	0.5924
WOBBE INDEX	1353.0	1347.6											1350.5	1347.6	1353.0
%DIF	2.0	1.6											1.8	1.6	2.0
LIQ GAL/MCF	0.161	0.242											0.199	0.161	0.242

H2O LB/MMCF													*	*	*
H2S PPMV													*	*	*
O2 PPMV													*	*	*

0

1REPORT R699680

PUBLIC SERVICE COMPANY OF COLORADO
BTU ZONE SUMMARY HEATING VALUES REPORT
SECOND QUARTER, 2019

VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:14

0 BTU ZONE: SOUTHERN

0 NET HV (BTU/CF, 14.73 PSIA, 60 F, DRY) VOLUME (MCF AT 14.73 PSIA)

0 SITE ID SAMPLING SITE NAME FLOW DECEMBER JANUARY FEBRUARY DECEMBER JANUARY FEBRUARY
0 TIFF TIFFANY COMPRESSOR STA IN 968.0 961.9 955.9 664,918 692,746 619,156
0 VOLUME WEIGHTED HEATING VALUE: 968.0 961.9 955.9 TOTAL VOL: 664,918 692,746 619,156
0 QUARTER AVERAGE HEATING VALUE: 961.9

1REPORT R69629Z0 DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.
PUBLIC SERVICE COMPANY OF COLORADO DATE RUN: 03/18/2019
2018 TIME RUN: 14:07:14

0 ZONE NAME: SOUTHERN

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	4.491	4.406	4.323	4.370	4.318	4.503	4.513	4.535	4.521	4.421	4.430	4.744	4.478	4.318	4.744
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.031	0.030	0.033	0.035	0.038	0.034	0.035	0.035	0.036	0.036	0.034	0.031	0.033	0.030	0.038
METHANE	95.238	95.327	95.406	95.357	95.406	95.224	95.212	95.190	95.201	95.302	95.293	94.975	95.248	94.975	95.406
ETHANE	0.232	0.229	0.230	0.230	0.230	0.231	0.232	0.232	0.234	0.232	0.234	0.241	0.233	0.229	0.241
PROPANE	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
I-BUTANE	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
N-BUTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
I-PENTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001
N-PENTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
HEXANES+	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		
N2/O2															
%INERTS	4.522	4.436	4.356	4.405	4.356	4.537	4.548	4.570	4.557	4.457	4.464	4.775	4.511	4.356	4.775
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	655.3	522.8	444.0	314.5	250.9	239.2	238.0	240.4	281.5	372.6	522.3	664.9	395.5	238.0	664.9
HIGH BTU/CF	970.5	971.3	972.2	971.7	972.2	970.3	970.2	970.0	970.2	971.2	971.1	968.0	970.6	968.0	972.2
LOW BTU/CF	873.9	874.6	875.4	874.9	875.4	873.7	873.6	873.4	873.6	874.5	874.4	871.7	874.0	871.7	875.4
SPEC GRAV	0.5995	0.5987	0.5979	0.5984	0.5979	0.5997	0.5998	0.6000	0.5999	0.5989	0.5990	0.6021	0.5994	0.5979	0.6021
WOBBE INDEX	1253.4	1255.3	1257.3	1256.1	1257.3	1253.0	1252.7	1252.3	1252.6	1255.0	1254.7	1247.5	1253.6	1247.5	1257.3
LIQ GAL/MCF	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.003

0 VOLUME WEIGHTED
1REPORT R69629Z0 PUBLIC SERVICE COMPANY OF COLORADO DATE RUN: 03/18/2019
2019 TIME RUN: 14:07:14

0 ZONE NAME: SOUTHERN

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	5.373	5.978											5.659	5.373	5.978
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	0.030	0.028											0.029	0.028	0.030
METHANE	94.318	93.702											94.027	93.702	94.318
ETHANE	0.265	0.278											0.271	0.265	0.278
PROPANE	0.010	0.010											0.010	0.010	0.010
I-BUTANE	0.001	0.001											0.001	0.001	0.001
N-BUTANE	0.001	0.001											0.001	0.001	0.001
I-PENTANE	0.001	0.001											0.001	0.001	0.001
N-PENTANE	0.001	0.001											0.001	0.001	0.001
HEXANES+	0.000	0.000											0.000	0.000	0.000
TOTAL	100.00	100.00											100.00		
N2/O2															

%INERTS 5.403 6.006													5.688	5.403	6.006	
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
VOL(MMCF)	692.7	619.2											656.0	619.2	692.7	
HIGH BTU/CF	961.9	955.9											959.1	955.9	961.9	
LOW BTU/CF	866.2	860.8											863.7	860.8	866.2	
SPEC GRAV	0.6083	0.6142											0.6111	0.6083	0.6142	
WOBBE INDEX	1233.3	1219.7											1226.9	1219.7	1233.3	
LIQ GAL/MCF	0.004	0.004											0.004	0.004	0.004	

0												VOLUME WEIGHTED				
1	REPORT R69629S1											PUBLIC SERVICE COMPANY OF COLORADO			DATE RUN: 03/18/2019	
												2018			TIME RUN: 14:07:14	
0	SITE ID: TIFF		SITE NAME: TIFFANY COMPRESSOR STA					DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH						
			TARGET WOBBE: 1285					DATA SOURCE: HPG		TIFFANY						
			AIR BLENDED: N													
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	
	CO2	4.491	4.406	4.323	4.370	4.318	4.503	4.513	4.535	4.521	4.421	4.430	4.744	4.478	4.318	4.744
	OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	NITROGEN	0.031	0.030	0.033	0.035	0.038	0.034	0.035	0.035	0.036	0.036	0.034	0.031	0.033	0.030	0.038
	METHANE	95.238	95.327	95.406	95.357	95.406	95.224	95.212	95.190	95.201	95.302	95.293	94.975	95.248	94.975	95.406
	ETHANE	0.232	0.229	0.230	0.230	0.230	0.231	0.232	0.232	0.234	0.232	0.234	0.241	0.233	0.229	0.241
	PROPANE	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
	I-BUTANE	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	N-BUTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	I-PENTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.001
	N-PENTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	HEXANES+	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		

	N2/O2															
	%INERTS	4.522	4.436	4.356	4.405	4.356	4.537	4.548	4.570	4.557	4.457	4.464	4.775	4.511	4.356	4.775
	----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
	VOL(MMCF)	655.3	522.8	444.0	314.5	250.9	239.2	238.0	240.4	281.5	372.6	522.3	664.9	395.5	238.0	664.9
	HIGH BTU/CF	970.5	971.3	972.2	971.7	972.2	970.3	970.2	970.0	970.2	971.2	971.1	968.0	970.6	968.0	972.2
	LOW BTU/CF	873.9	874.6	875.4	874.9	875.4	873.7	873.6	873.4	873.6	874.5	874.4	871.7	874.0	871.7	875.4
	SPEC GRAV	0.5995	0.5987	0.5979	0.5984	0.5979	0.5997	0.5998	0.6000	0.5999	0.5989	0.5990	0.6021	0.5994	0.5979	0.6021
	WOBBE INDEX	1253.4	1255.3	1257.3	1256.1	1257.3	1253.0	1252.7	1252.3	1252.6	1255.0	1254.7	1247.5	1253.6	1247.5	1257.3
	%DIF	-2.5	-2.3	-2.2	-2.2	-2.2	-2.5	-2.5	-2.5	-2.5	-2.3	-2.4	-2.9	-2.4	-2.9	-2.2
	LIQ GAL/MCF	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.003

	H2O LB/MMCF	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.9	1.7	2.8	7.4	2.7	2.1	0.8	7.4
	H2S PPMV										0.0	0.0	0.0	0.0	0.0	0.0
	O2 PPMV													*	*	*

0												VOLUME WEIGHTED				
1	REPORT R69629S1											PUBLIC SERVICE COMPANY OF COLORADO			DATE RUN: 03/18/2019	
												2019			TIME RUN: 14:07:15	
0	SITE ID: TIFF		SITE NAME: TIFFANY COMPRESSOR STA					DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH						
			TARGET WOBBE: 1285					DATA SOURCE: HPG		TIFFANY						
			AIR BLENDED: N													
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	
	CO2	5.373	5.978										5.659	5.373	5.978	

OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	0.030	0.028											0.029	0.028	0.030
METHANE	94.318	93.702											94.027	93.702	94.318
ETHANE	0.265	0.278											0.271	0.265	0.278
PROPANE	0.010	0.010											0.010	0.010	0.010
I-BUTANE	0.001	0.001											0.001	0.001	0.001
N-BUTANE	0.001	0.001											0.001	0.001	0.001
I-PENTANE	0.001	0.001											0.001	0.001	0.001
N-PENTANE	0.001	0.001											0.001	0.001	0.001
HEXANES+	0.000	0.000											0.000	0.000	0.000
TOTAL	100.00	100.00											100.00		

N2/O2															
%INERTS	5.403	6.006											5.688	5.403	6.006
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	692.7	619.2											656.0	619.2	692.7
HIGH BTU/CF	961.9	955.9											959.1	955.9	961.9
LOW BTU/CF	866.2	860.8											863.7	860.8	866.2
SPEC GRAV	0.6083	0.6142											0.6111	0.6083	0.6142
WOBBE INDEX	1233.3	1219.7											1226.9	1219.7	1233.3
%DIF	-4.0	-5.1											-4.5	-5.1	-4.0
LIQ GAL/MCF	0.004	0.004											0.004	0.004	0.004

H2O LB/MMCF	1.2	1.2											1.2	1.2	1.2
H2S PPMV	0.0	0.0											0.0	0.0	0.0
O2 PPMV													*	*	*

REPORT R699680													VOLUME WEIGHTED		
PUBLIC SERVICE COMPANY OF COLORADO													DATE RUN: 03/18/2019		
BTU ZONE SUMMARY HEATING VALUES REPORT													TIME RUN: 14:07:15		
SECOND QUARTER, 2019															
BTU ZONE: STERLING															
NET HV (BTU/CF, 14.73 PSIA, 60 F, DRY)															
SITE ID		SAMPLING SITE NAME		FLOW	DECEMBER	JANUARY	FEBRUARY	VOLUME (MCF AT 14.73 PSIA)		DECEMBER		JANUARY	FEBRUARY		
STERLING		TALLGRASS STERLING TB		IN	1006.2	1007.2	1020.6			76,751		76,102	83,794		
VOLUME WEIGHTED HEATING VALUE:					1006.2	1007.2	1020.6	TOTAL VOL:		76,751		76,102	83,794		
QUARTER AVERAGE HEATING VALUE:					1011.3										
DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.															
REPORT R69629Z0													DATE RUN: 03/18/2019		
PUBLIC SERVICE COMPANY OF COLORADO													TIME RUN: 14:07:15		
2018															
ZONE NAME: STERLING															
MTH: JAN		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

CO2		0.482	0.478	0.511	0.530	0.526	0.525	0.529	0.527	0.497	0.491	0.487	0.516	0.491	0.530
OXYGEN		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN		3.589	3.617	3.726	3.644	3.738	3.737	3.678	3.646	3.781	3.790	3.703	3.445	3.670	3.790
METHANE		93.492	93.591	93.841	93.840	93.823	93.826	93.716	93.599	93.790	93.758	93.615	93.174	93.598	93.841
ETHANE		1.530	1.426	1.102	1.155	1.077	1.075	1.232	1.365	1.103	1.103	1.367	1.957	1.398	1.957
PROPANE		0.571	0.551	0.476	0.485	0.474	0.475	0.491	0.516	0.482	0.493	0.511	0.606	0.522	0.606
I-BUTANE		0.101	0.101	0.103	0.103	0.105	0.105	0.101	0.101	0.103	0.109	0.096	0.092	0.097	0.109
N-BUTANE		0.123	0.119	0.118	0.119	0.122	0.122	0.120	0.119	0.119	0.124	0.112	0.112	0.114	0.124
I-PENTANE		0.039	0.039	0.042	0.042	0.044	0.044	0.041	0.041	0.041	0.044	0.038	0.035	0.038	0.044
N-PENTANE		0.024	0.025	0.026	0.026	0.028	0.027	0.026	0.026	0.026	0.028	0.024	0.022	0.024	0.028
HEXANES+		0.049	0.053	0.055	0.056	0.063	0.064	0.066	0.060	0.058	0.060	0.047	0.041	0.041	0.066

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TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
N2/O2													
%INERTS	4.071	4.095	4.237	4.174	4.264	4.262	4.207	4.173	4.278	4.281	4.190	3.961	4.161
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)													
VOL(MMCF)	87.1	79.2	48.8	38.3	8.7	1.8	2.6	2.9	3.2	24.0	692.6	76.8	88.8
HIGH BTU/CF	1002.3	1001.0	996.1	997.3	996.2	996.2	998.0	999.5	995.9	996.5	998.3	1006.2	999.2
LOW BTU/CF	903.4	902.2	897.7	898.8	897.7	897.8	899.4	900.8	897.5	898.1	899.8	907.1	900.6
SPEC GRAV	0.5929	0.5924	0.5909	0.5911	0.5913	0.5913	0.5919	0.5925	0.5911	0.5915	0.5917	0.5945	0.5920
WOBBE INDEX	1301.7	1300.5	1295.8	1297.2	1295.5	1295.5	1297.2	1298.5	1295.3	1295.7	1297.8	1305.0	1298.6
LIQ GAL/MCF	0.272	0.267	0.249	0.253	0.255	0.256	0.258	0.262	0.252	0.261	0.249	0.270	0.254

0
1REPORT R69629Z0 PUBLIC SERVICE COMPANY OF COLORADO
2019 VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:15

0 ZONE NAME: STERLING

	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.532	0.557											0.545	0.532	0.557
OXYGEN	0.000	0.000											0.000	0.000	0.000
NITROGEN	3.420	2.996											3.198	2.996	3.420
METHANE	93.086	92.297											92.673	92.297	93.086
ETHANE	2.049	3.133											2.617	2.049	3.133
PROPANE	0.609	0.747											0.681	0.609	0.747
I-BUTANE	0.091	0.082											0.086	0.082	0.091
N-BUTANE	0.111	0.105											0.108	0.105	0.111
I-PENTANE	0.035	0.029											0.032	0.029	0.035
N-PENTANE	0.022	0.019											0.020	0.019	0.022
HEXANES+	0.045	0.035											0.040	0.035	0.045
TOTAL	100.00	100.00											100.00		
N2/O2															
%INERTS	3.952	3.553											3.743	3.553	3.952
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	76.1	83.8											80.0	76.1	83.8
HIGH BTU/CF	1007.2	1020.6											1014.2	1007.2	1020.6
LOW BTU/CF	907.9	920.3											914.4	907.9	920.3
SPEC GRAV	0.5951	0.5995											0.5974	0.5951	0.5995
WOBBE INDEX	1305.6	1318.1											1312.2	1305.6	1318.1
LIQ GAL/MCF	0.272	0.298											0.286	0.272	0.298

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO
2018 VOLUME WEIGHTED
DATE RUN: 03/18/2019
TIME RUN: 14:07:15

0 SITE ID: STERLING SITE NAME: TALLGRASS STERLING TB DATA TYPE: AVG ONLINE GAS CHROM (MANUAL)
TARGET WOBBE: 1275 DATA SOURCE: KINDER MORGAN
AIR BLENDED: N

MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.482	0.478	0.511	0.530	0.526	0.525	0.529	0.527	0.497	0.491	0.487	0.491	0.478	0.530
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	3.589	3.617	3.726	3.644	3.738	3.737	3.678	3.646	3.781	3.790	3.703	3.670	3.445	3.790
METHANE	93.492	93.591	93.841	93.840	93.823	93.826	93.716	93.599	93.790	93.758	93.615	93.598	93.174	93.841

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ETHANE	1.530	1.426	1.102	1.155	1.077	1.075	1.232	1.365	1.103	1.103	1.367	1.957	1.398	1.075	1.957
PROPANE	0.571	0.551	0.476	0.485	0.474	0.475	0.491	0.516	0.482	0.493	0.511	0.606	0.522	0.474	0.606
I-BUTANE	0.101	0.101	0.103	0.103	0.105	0.105	0.101	0.101	0.103	0.109	0.096	0.092	0.097	0.092	0.109
N-BUTANE	0.123	0.119	0.118	0.119	0.122	0.122	0.120	0.119	0.119	0.124	0.112	0.112	0.114	0.112	0.124
I-PENTANE	0.039	0.039	0.042	0.042	0.044	0.044	0.041	0.041	0.041	0.044	0.038	0.035	0.038	0.035	0.044
N-PENTANE	0.024	0.025	0.026	0.026	0.028	0.027	0.026	0.026	0.026	0.028	0.024	0.022	0.024	0.022	0.028
HEXANES+	0.049	0.053	0.055	0.056	0.063	0.064	0.066	0.060	0.058	0.060	0.047	0.041	0.048	0.041	0.066
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		

N2/O2 %INERTS	4.071	4.095	4.237	4.174	4.264	4.262	4.207	4.173	4.278	4.281	4.190	3.961	4.161	3.961	4.281
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	87.1	79.2	48.8	38.3	8.7	1.8	2.6	2.9	3.2	24.0	692.6	76.8	88.8	1.8	692.6
HIGH BTU/CF	1002.3	1001.0	996.1	997.3	996.2	996.2	998.0	999.6	995.9	996.5	998.3	1006.2	999.2	995.9	1006.2
LOW BTU/CF	903.4	902.2	897.7	898.8	897.7	897.8	899.4	900.9	897.5	898.1	899.8	907.1	900.6	897.5	907.1
SPEC GRAV	0.5929	0.5924	0.5909	0.5911	0.5913	0.5913	0.5919	0.5926	0.5911	0.5915	0.5917	0.5945	0.5920	0.5909	0.5945
WOBBE INDEX	1301.7	1300.5	1295.8	1297.2	1295.5	1295.5	1297.2	1298.5	1295.3	1295.7	1297.8	1305.0	1298.6	1295.3	1305.0
%DIF	2.1	2.0	1.6	1.7	1.6	1.6	1.7	1.8	1.6	1.6	1.8	2.4	1.9	1.6	2.4
LIQ GAL/MCF	0.272	0.267	0.249	0.253	0.255	0.256	0.258	0.262	0.252	0.261	0.249	0.270	0.254	0.249	0.272

H2O LB/MMCF													*	*	*
H2S PPMV													*	*	*
O2 PPMV													*	*	*

		%DIF		2.4	3.4
LIQ	GAL/MCF	0.272	0.298		
-----				2.9	2.4
				0.286	0.272
					3.4

H2O	LB/MMCF			*	*
H2S	PPMV			*	*
O2	PPMV			*	*

0	VOLUME WEIGHTED				