

1REPORT R699660

PUBLIC SERVICE COMPANY OF COLORADO
BTU ZONES ENERGY FACTORS
THIRD QUARTER, 2019

DATE RUN: 06/12/2019
TIME RUN: 13:06:49

- HEATING VALUE (BTU/CF, 14.73 PSIA, 60 F, DRY) -						ENERGY
BTU ZONE	MARCH	APRIL	MAY	QTR AVG		FACTOR
BRUSH	1101.9	1087.4	1085.8	1091.7		1.0917
DENVER	1059.3	1061.2	1062.7	1061.1		1.0611
GRAND JUNCTION	1028.5	1022.9	1020.7	1024.0		1.0240
GREASEWOOD	1021.6	1042.0	1036.9	1033.5		1.0335
MERINO	1055.2	1041.0	1045.8	1047.3		1.0474
MOUNTAIN	1049.4	1055.1	1056.3	1053.6		1.0536
NORTHERN	1105.6	1119.1	1121.7	1115.5		1.1155
PUEBLO	986.4	1023.0	1046.9	1018.8		1.0188
RIFLE-VAIL	1039.2	1036.1	1043.0	1039.4		1.0395
SOUTHERN	955.2	959.8	959.7	958.2		0.9582
STERLING	1010.3	996.7	996.3	1001.1		1.0011

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.
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.
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
**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
BTU ZONE SUMMARY HEATING VALUES REPORT
THIRD QUARTER, 2019

DATE RUN: 06/12/2019
TIME RUN: 13:06:49

BTU ZONE: BRUSH									
		NET	HV (BTU/CF, 14.73 PSIA, 60 F, DRY)			VOLUME (MCF AT 14.73 PSIA)			
SITE ID	SAMPLING SITE NAME	FLOW	MARCH	APRIL	MAY	MARCH	APRIL	MAY	
CIGBRU	CIG BRUSH TOWN BORDER	IN	1101.9	1087.4	1085.8	32,632	17,764	15,958	
	VOLUME WEIGHTED HEATING VALUE:		1101.9	1087.4	1085.8	TOTAL VOL:	32,632	17,764	15,958
	QUARTER AVERAGE HEATING VALUE:		1091.7						

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

1REPORT R69629Z0

PUBLIC SERVICE COMPANY OF COLORADO
2019

DATE RUN: 06/12/2019
TIME RUN: 13:06:49

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ZONE NAME: BRUSH															
MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.924	2.024	1.927	1.729	1.699								1.904	1.699	2.024
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	1.030	0.902	1.039	1.401	1.466								1.089	0.902	1.466
METHANE	84.620	84.047	84.757	86.036	85.997								84.814	84.047	86.036
ETHANE	10.113	10.334	9.912	8.682	8.814								9.815	8.682	10.334
PROPANE	1.702	2.048	1.745	1.550	1.459								1.762	1.459	2.048
I-BUTANE	0.167	0.180	0.169	0.166	0.159								0.170	0.159	0.180
N-BUTANE	0.324	0.350	0.337	0.318	0.296								0.330	0.296	0.350
I-PENTANE	0.059	0.058	0.058	0.061	0.058								0.059	0.058	0.061
N-PENTANE	0.056	0.056	0.055	0.056	0.051								0.055	0.051	0.056
HEXANES+	0.005	0.001	0.001	0.001	0.001								0.002	0.001	0.005
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		
N2/O2															

%INERTS	2.954	2.926	2.966	3.130	3.165	2.993	2.926	3.165
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----						-----	-----	-----
VOL(MMCF)	40.2	40.5	32.6	17.8	16.0	29.4	16.0	40.5
HIGH BTU/CF	1102.8	1110.7	1101.9	1087.4	1085.8	1101.1	1085.8	1110.7
LOW BTU/CF	996.9	1004.2	996.0	982.6	981.1	995.3	981.1	1004.2
SPEC GRAV	0.6531	0.6584	0.6527	0.6441	0.6433	0.6523	0.6433	0.6584
WOBBE INDEX	1364.6	1368.8	1363.9	1354.9	1353.8	1363.3	1353.8	1368.8
LIQ GAL/MCF	0.669	0.775	0.684	0.624	0.587	0.687	0.587	0.775

01REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO

2019

VOLUME WEIGHTED

DATE RUN: 06/12/2019

TIME RUN: 13:06:49

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SITE ID: CIGBRU

SITE NAME: CIG BRUSH TOWN BORDER

DATA TYPE: AVG

ONLINE GAS CHROMATOGRAPH

TARGET WOBBE: 1359

DATA SOURCE: CIG

AIR BLENDED: N

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

	CO2	1.924	2.024	1.927	1.729	1.699							1.904	1.699	2.024
	OXYGEN	0.000	0.000	0.000	0.000	0.000							0.000	0.000	0.000
	NITROGEN	1.030	0.902	1.039	1.401	1.466							1.089	0.902	1.466
	METHANE	84.620	84.047	84.757	86.036	85.997							84.814	84.047	86.036
	ETHANE	10.113	10.334	9.912	8.682	8.814							9.815	8.682	10.334
	PROPANE	1.702	2.048	1.745	1.550	1.459							1.762	1.459	2.048
	I-BUTANE	0.167	0.180	0.169	0.166	0.159							0.170	0.159	0.180
	N-BUTANE	0.324	0.350	0.337	0.318	0.296							0.330	0.296	0.350
	I-PENTANE	0.059	0.058	0.058	0.061	0.058							0.059	0.058	0.061
	N-PENTANE	0.056	0.056	0.055	0.056	0.051							0.055	0.051	0.056
	HEXANES+	0.005	0.001	0.001	0.001	0.001							0.002	0.001	0.005
	TOTAL	100.00	100.00	100.00	100.00	100.00							100.00		

N2/O2	%INERTS	2.954	2.926	2.966	3.130	3.165	2.993	2.926	3.165
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----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----						-----	-----	-----
VOL(MMCF)	40.2	40.5	32.6	17.8	16.0	29.4	16.0	40.5
HIGH BTU/CF	1102.8	1110.7	1101.9	1087.4	1085.8	1101.1	1085.8	1110.7
LOW BTU/CF	996.9	1004.2	996.0	982.6	981.1	995.3	981.1	1004.2
SPEC GRAV	0.6531	0.6584	0.6527	0.6441	0.6433	0.6523	0.6433	0.6584
WOBBE INDEX	1364.6	1368.8	1363.9	1354.9	1353.8	1363.3	1353.8	1368.8
%DIF	0.4	0.7	0.4	-0.3	-0.4	0.3	-0.4	0.7
LIQ GAL/MCF	0.669	0.775	0.684	0.624	0.587	0.687	0.587	0.775

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

01REPORT R699680

PUBLIC SERVICE COMPANY OF COLORADO

BTU ZONE SUMMARY HEATING VALUES REPORT

THIRD QUARTER, 2019

VOLUME WEIGHTED

DATE RUN: 06/12/2019

TIME RUN: 13:06:50

0	BTU ZONE: DENVER								
0		NET	HV (BTU/CF, 14.73 PSIA, 60 F, DRY)		VOLUME (MCF AT 14.73 PSIA)				
	SITE ID	SAMPLING SITE NAME	FLOW	MARCH	APRIL	MAY	MARCH	APRIL	MAY
0	AMSO	WGR SOUTH (WATTENBERG)	IN	0.0	0.0	0.0	0	0	0
	CIGEDE	CIG EAST DENVER CONTROL	IN	1063.9	1062.9	1063.8	3,026,915	2,108,987	2,420,764

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CIGMES	CIG MESA PURCHASE POINT	IN	1064.0	1063.7	1062.6	48,639	39,449	23,884
CIGQUN	CIG EAST QUINCY	IN	1064.5	1063.2	1065.4	801,317	426,333	388,052
CIGWHP	CIG WHISPERING PINES	IN	1063.0	1061.8	1063.0	3,216,037	1,904,879	2,008,457
DERH	HIGH PLAINS DERBY LAKE	IN	1054.9	1060.6	1065.1	3,339,943	1,238,471	540,227
MARE	MARSHALL CS EAST	IN	0.0	0.0	1056.7	0	0	328
MARW	MARSHALL CS WEST	OUT	1049.7	1054.1	1059.2	-588,641	-418,709	-379,562
YONO	YOSEMITE NORTH OUTLET	IN	1063.8	1069.4	1076.3	3,045,015	1,191,380	337,665
YOSO	YOSEMITE SOUTH OUTLET	IN	1048.8	1054.3	1059.0	3,222,640	2,647,135	3,116,830
0	VOLUME WEIGHTED HEATING VALUE:		1059.4	1061.1	1062.7	TOTAL VOL:	16,111,865	9,137,925
0	QUARTER AVERAGE HEATING VALUE:		1061.1					8,456,645
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0 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: 06/12/2019
0 2019 TIME RUN: 13:06:50
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ZONE NAME: DENVER															
MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	2.119	2.116	2.082	2.084	2.147								2.109	2.082	2.147
OXYGEN	1.020	0.995	1.020	1.067	1.212								1.042	0.995	1.212
NITROGEN	5.214	5.140	5.237	5.452	5.321								5.242	5.140	5.452
METHANE	77.395	77.876	77.808	77.094	76.513								77.474	76.513	77.876
ETHANE	11.890	11.446	11.473	11.791	12.434								11.730	11.446	12.434
PROPANE	1.765	1.837	1.783	1.920	1.832								1.815	1.765	1.920
I-BUTANE	0.151	0.153	0.153	0.152	0.141								0.151	0.141	0.153
N-BUTANE	0.326	0.327	0.332	0.327	0.297								0.324	0.297	0.332
I-PENTANE	0.052	0.049	0.050	0.050	0.046								0.050	0.046	0.052
N-PENTANE	0.054	0.050	0.051	0.052	0.047								0.051	0.047	0.054
HEXANES+	0.014	0.011	0.011	0.011	0.010								0.012	0.010	0.014
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		
N2/O2	5.112	5.166	5.134	5.110	4.390								5.047	4.390	5.166
%INERTS	8.353	8.251	8.339	8.603	8.680								8.392	8.251	8.680
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	19743.2	19351.4	16111.9	9137.9	8456.6								14560.2	8456.6	19743.2
HIGH BTU/CF	1062.3	1060.7	1059.3	1061.2	1062.7								1061.1	1059.3	1062.7
LOW BTU/CF	960.8	959.3	958.1	959.9	961.3								959.7	958.1	961.3
SPEC GRAV	0.6870	0.6849	0.6848	0.6888	0.6912								0.6867	0.6848	0.6912
WOBBE INDEX	1281.6	1281.7	1280.1	1278.6	1278.2								1280.5	1278.2	1281.7
LIQ GAL/MCF	0.683	0.700	0.687	0.723	0.682								0.693	0.682	0.723

0 VOLUME WEIGHTED
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO DATE RUN: 06/12/2019
0 2019 TIME RUN: 13:06:50
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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	0.000	0.000	0.000							0	*	*
	OXYGEN	0.000	0.000	0.000	0.000	0.000							0	*	*
	NITROGEN	0.000	0.000	0.000	0.000	0.000							0	*	*
	METHANE	0.000	0.000	0.000	0.000	0.000							0	*	*
	ETHANE	0.000	0.000	0.000	0.000	0.000							0	*	*
	PROPANE	0.000	0.000	0.000	0.000	0.000							0	*	*
	I-BUTANE	0.000	0.000	0.000	0.000	0.000							0	*	*
	N-BUTANE	0.000	0.000	0.000	0.000	0.000							0	*	*
	I-PENTANE	0.000	0.000	0.000	0.000	0.000							0	*	*

N-PENTANE	0.000	0.000	0.000	0.000	0.000									0	*	*
HEXANES+	0.000	0.000	0.000	0.000	0.000									0	*	*
TOTAL	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									*	*	*

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
VOL(MMCF)	.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									*	*	*
LIQ GAL/MCF														*	*	*

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	0.0	0.0	0.0	0.0	0.0									*	*	*

0													STRAIGHT AVERAGED			
1	REPORT R69629S1												DATE RUN: 06/12/2019			
													TIME RUN: 13:06:50			
0	SITE ID: CIGEDE												PUBLIC SERVICE COMPANY OF COLORADO			
													2019			
0	SITE NAME: CIG EAST DENVER CONTROL												DATA TYPE: AVG			
	TARGET WOBBE: 1275												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	2.154	2.096	2.058	2.058	2.178									2.110	2.058	2.178
OXYGEN	1.411	1.390	1.383	1.328	1.277									1.367	1.277	1.411
NITROGEN	5.630	5.596	5.567	5.377	5.191									5.503	5.191	5.630
METHANE	76.249	76.393	76.454	76.730	76.547									76.443	76.249	76.730
ETHANE	11.522	11.359	11.444	11.718	12.281									11.613	11.359	12.281
PROPANE	2.358	2.511	2.409	2.213	2.021									2.334	2.021	2.511
I-BUTANE	0.184	0.185	0.188	0.159	0.138									0.174	0.138	0.188
N-BUTANE	0.373	0.366	0.384	0.320	0.276									0.350	0.276	0.384
I-PENTANE	0.053	0.047	0.052	0.044	0.041									0.048	0.041	0.053
N-PENTANE	0.054	0.047	0.051	0.044	0.041									0.048	0.041	0.054
HEXANES+	0.012	0.010	0.010	0.009	0.009									0.010	0.009	0.012
TOTAL	100.00	100.00	100.00	100.00	100.00									100.00		

N2/O2	3.990	4.026	4.025	4.049	4.065									4.027	3.990	4.065
%INERTS	9.195	9.082	9.008	8.763	8.646									8.980	8.646	9.195

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
VOL(MMCF)	3606.2	3940.0	3026.9	2109.0	2420.8									3020.6	2109.0	3940.0
HIGH BTU/CF	1061.7	1063.3	1063.9	1062.9	1063.8									1063.1	1061.7	1063.9
LOW BTU/CF	960.5	962.0	962.5	961.6	962.4									961.8	960.5	962.5
SPEC GRAV	0.6964	0.6958	0.6952	0.6919	0.6918									0.6946	0.6918	0.6964
WOBBE INDEX	1272.2	1274.7	1276.0	1277.8	1279.0									1275.5	1272.2	1279.0
%DIF	-0.2	0.0	0.1	0.2	0.3									0.0	-0.2	0.3
LIQ GAL/MCF	0.871	0.906	0.888	0.798	0.722									0.849	0.722	0.906

H2O LB/MMCF														*	*	*

H2S PPMV												*	*	*
O2 PPMV												1.4	1.3	1.4
1REPORT R69629S1												VOLUME WEIGHTED		
PUBLIC SERVICE COMPANY OF COLORADO												DATE RUN: 06/12/2019		
2019												TIME RUN: 13:06:50		
SITE ID: CIGMES												ONLINE GAS CHROMATOGRAPH		
SITE NAME: CIG MESA PURCHASE POINT												DATA TYPE: AVG		
TARGET WOBBE: 1207												DATA SOURCE: CIG		
AIR BLENDED: Y														
MTH: JAN												AVG	MIN	MAX
FEB														
MAR														
APR														
MAY														
JUN														
JUL														
AUG														
SEP														
OCT														
NOV														
DEC														
CO2												2.092	2.039	2.162
OXYGEN												1.370	1.261	1.408
NITROGEN												5.545	5.178	5.665
METHANE												76.370	76.208	76.621
ETHANE												11.666	11.444	12.349
PROPANE												2.331	1.995	2.479
I-BUTANE												0.174	0.122	0.189
N-BUTANE												0.351	0.239	0.385
I-PENTANE												0.048	0.035	0.053
N-PENTANE												0.048	0.034	0.053
HEXANES+												0.005	0.004	0.006
TOTAL												100.00		
N2/O2												4.049	4.016	4.106
%INERTS												9.006	8.601	9.207
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)														
VOL(MMCF)												37.8	23.9	52.6
HIGH BTU/CF												1063.0	1061.7	1064.0
LOW BTU/CF												961.7	960.6	962.7
SPEC GRAV												0.6948	0.6904	0.6965
WOBBE INDEX												1275.3	1272.2	1278.8
%DIF												5.7	5.4	5.9
LIQ GAL/MCF												0.847	0.692	0.897
H2O LB/MMCF												*	*	*
H2S PPMV												*	*	*
O2 PPMV												*	*	*
1REPORT R69629S1												VOLUME WEIGHTED		
PUBLIC SERVICE COMPANY OF COLORADO												DATE RUN: 06/12/2019		
2019												TIME RUN: 13:06:50		
SITE ID: CIGQUN												ONLINE GAS CHROMATOGRAPH		
SITE NAME: CIG EAST QUINCY												DATA TYPE: AVG		
TARGET WOBBE: 1207												DATA SOURCE: CIG		
AIR BLENDED: Y														
MTH: JAN												AVG	MIN	MAX
FEB														
MAR														
APR														
MAY														
JUN														
JUL														
AUG														
SEP														
OCT														
NOV														
DEC														
CO2												2.133	2.080	2.250
OXYGEN												1.137	0.173	1.315
NITROGEN												5.617	5.336	6.514
METHANE												76.412	76.312	76.587
ETHANE												11.661	11.415	12.444
PROPANE												2.396	2.032	2.582
I-BUTANE												0.178	0.136	0.188
N-BUTANE												0.360	0.278	0.382
I-PENTANE												0.049	0.042	0.053

N-PENTANE	0.053	0.047	0.051	0.046	0.043								0.049	0.043	0.053
HEXANES+	0.011	0.008	0.008	0.001	0.010								0.008	0.001	0.011
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2	4.206	4.254	4.262	37.653	5.048								8.395	4.206	37.653
%INERTS	8.931	8.886	9.000	8.801	8.643								8.887	8.643	9.000
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	959.2	928.0	801.3	426.3	388.1								700.6	388.1	959.2
HIGH BTU/CF	1066.4	1067.0	1064.5	1063.2	1065.4								1065.6	1063.2	1067.0
LOW BTU/CF	964.8	965.4	963.1	961.9	963.8								964.1	961.9	965.4
SPEC GRAV	0.6964	0.6961	0.6955	0.6912	0.6929								0.6951	0.6912	0.6964
WOBBE INDEX	1277.9	1278.9	1276.4	1278.8	1279.9								1278.2	1276.4	1279.9
%DIF	5.9	6.0	5.7	5.9	6.0								5.9	5.7	6.0
LIQ GAL/MCF	0.888	0.928	0.893	0.796	0.727								0.871	0.727	0.928

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

0											VOLUME WEIGHTED				
1	REPORT R69629S1										DATE RUN: 06/12/2019				
											TIME RUN: 13:06:50				
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	2.063	2.083	2.197								2.120	2.063	2.197
OXYGEN	1.325	1.314	1.349	1.320	1.263								1.318	1.263	1.349
NITROGEN	5.425	5.476	5.615	5.495	5.297								5.471	5.297	5.615
METHANE	76.417	76.538	76.486	76.602	76.425								76.487	76.417	76.602
ETHANE	11.624	11.360	11.405	11.663	12.266								11.598	11.360	12.266
PROPANE	2.391	2.551	2.411	2.260	2.040								2.374	2.040	2.551
I-BUTANE	0.184	0.186	0.187	0.161	0.141								0.177	0.141	0.187
N-BUTANE	0.368	0.364	0.376	0.321	0.280								0.351	0.280	0.376
I-PENTANE	0.053	0.047	0.051	0.045	0.042								0.049	0.042	0.053
N-PENTANE	0.052	0.046	0.050	0.044	0.042								0.048	0.042	0.052
HEXANES+	0.009	0.007	0.007	0.006	0.007								0.007	0.006	0.009
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2	4.094	4.167	4.162	4.163	4.194								4.150	4.094	4.194
%INERTS	8.902	8.901	9.027	8.898	8.757								8.909	8.757	9.027
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	3993.8	3959.0	3216.0	1904.9	2008.5								3016.4	1904.9	3993.8
HIGH BTU/CF	1065.6	1065.6	1063.0	1061.8	1063.0								1064.2	1061.8	1065.6
LOW BTU/CF	964.1	964.1	961.8	960.6	961.7								962.8	960.6	964.1
SPEC GRAV	0.6956	0.6954	0.6949	0.6928	0.6926								0.6946	0.6926	0.6956
WOBBE INDEX	1277.7	1277.8	1275.2	1275.7	1277.3								1276.9	1275.2	1277.8
%DIF	5.9	5.9	5.7	5.7	5.8								5.8	5.7	5.9
LIQ GAL/MCF	0.877	0.915	0.883	0.811	0.730								0.860	0.730	0.915

H2O LB/MMCF													*	*	*

H2S PPMV												*	*	*	
O2 PPMV												1.3	1.3	1.3	

0	1REPORT R69629S1											VOLUME WEIGHTED			
	PUBLIC SERVICE COMPANY OF COLORADO											DATE RUN: 06/12/2019			
	2019											TIME RUN: 13:06:50			
0	SITE ID: DERH		SITE NAME: HIGH PLAINS DERBY LAKE				DATA TYPE: AVG		ONLINE GAS CHROMATOGRAPH						
			TARGET WOBBE: 1207				DATA SOURCE: CIG								
			AIR BLENDED: N												
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	2.112	2.167	2.198	2.183	2.249							2.160	2.112	2.249
	OXYGEN	1.114	1.018	1.123	1.271	1.293							1.109	1.018	1.293
	NITROGEN	4.572	4.262	4.579	5.159	5.293							4.564	4.262	5.293
	METHANE	78.425	79.387	78.613	76.903	75.668							78.508	75.668	79.387
	ETHANE	12.262	11.632	11.868	12.398	13.506							12.044	11.632	13.506
	PROPANE	1.019	1.030	1.089	1.385	1.320							1.084	1.019	1.385
	I-BUTANE	0.110	0.113	0.119	0.153	0.147							0.118	0.110	0.153
	N-BUTANE	0.263	0.272	0.288	0.374	0.360							0.285	0.263	0.374
	I-PENTANE	0.050	0.050	0.052	0.072	0.068							0.053	0.050	0.072
	N-PENTANE	0.054	0.053	0.056	0.079	0.075							0.057	0.053	0.079
	HEXANES+	0.019	0.016	0.015	0.023	0.021							0.018	0.015	0.023
	TOTAL	100.00	100.00	100.00	100.00	100.00							100.00		

	N2/O2	4.104	4.187	4.077	4.059	4.094							4.117	4.059	4.187
	%INERTS	7.798	7.447	7.900	8.613	8.835							7.834	7.447	8.835

	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)														
	VOL(MMCF)	4708.9	4032.3	3339.9	1238.5	540.2							2772.0	540.2	4708.9
	HIGH BTU/CF	1057.1	1056.2	1054.9	1060.6	1065.1							1056.9	1054.9	1065.1
	LOW BTU/CF	955.9	954.8	953.8	959.4	963.6							955.7	953.8	963.6
	SPEC GRAV	0.6779	0.6737	0.6780	0.6894	0.6950							0.6784	0.6737	0.6950
	WOBBE INDEX	1283.9	1286.8	1281.1	1277.4	1277.6							1283.2	1277.4	1286.8
	%DIF	6.4	6.6	6.1	5.8	5.8							6.3	5.8	6.6
	LIQ GAL/MCF	0.445	0.450	0.475	0.614	0.586							0.474	0.445	0.614

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

0	1REPORT R69629S1											VOLUME WEIGHTED			
	PUBLIC SERVICE COMPANY OF COLORADO											DATE RUN: 06/12/2019			
	2019											TIME RUN: 13:06:50			
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	2.150							2.150	2.150	2.150
	OXYGEN	0.000	0.000	0.000	0.000	1.538							1.538	1.538	1.538
	NITROGEN	0.000	0.000	0.000	0.000	5.241							5.241	5.241	5.241
	METHANE	0.000	0.000	0.000	0.000	76.351							76.351	76.351	76.351
	ETHANE	0.000	0.000	0.000	0.000	12.693							12.693	12.693	12.693
	PROPANE	0.000	0.000	0.000	0.000	1.513							1.513	1.513	1.513
	I-BUTANE	0.000	0.000	0.000	0.000	0.129							0.129	0.129	0.129
	N-BUTANE	0.000	0.000	0.000	0.000	0.282							0.282	0.282	0.282
	I-PENTANE	0.000	0.000	0.000	0.000	0.045							0.045	0.045	0.045

N-PENTANE	0.000	0.000	0.000	0.000	0.047								0.047	0.047	0.047
HEXANES+	0.000	0.000	0.000	0.000	0.011								0.011	0.011	0.011
TOTAL	0.00	0.00	0.00	0.00	100.00								100.00		

N2/O2					3.408								3.408	3.408	3.408
%INERTS	0.000	0.000	0.000	0.000	8.929								8.929	8.929	8.929

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

VOL(MMCF)	.0	.0	.0	.0	.3								.3	.3	.3
HIGH BTU/CF					1056.7								1056.7	1056.7	1056.7
LOW BTU/CF					955.8								955.8	955.8	955.8
SPEC GRAV					0.6905								0.6903	0.6905	0.6905
WOBBE INDEX					1271.7								1271.7	1271.7	1271.7
%DIF	0.0	0.0	0.0	0.0	5.4								5.4	5.4	5.4
LIQ GAL/MCF					0.586								0.586	0.586	0.586

H2O LB/MMCF	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									*	*	*

0													VOLUME WEIGHTED		
1REPORT R69629S1													DATE RUN: 06/12/2019		
PUBLIC SERVICE COMPANY OF COLORADO													TIME RUN: 13:06:50		
2019															
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	2.042	2.059	2.076								2.068	2.042	2.088
OXYGEN	1.451	1.470	1.505	1.582	1.574								1.502	1.451	1.582
NITROGEN	5.114	4.912	4.938	5.173	5.260								5.057	4.912	5.260
METHANE	77.251	78.134	78.192	77.195	76.267								77.518	76.267	78.192
ETHANE	12.079	11.492	11.415	11.767	12.656								11.833	11.415	12.656
PROPANE	1.473	1.359	1.383	1.666	1.601								1.472	1.359	1.666
I-BUTANE	0.136	0.132	0.129	0.139	0.144								0.135	0.129	0.144
N-BUTANE	0.305	0.299	0.288	0.305	0.311								0.301	0.288	0.311
I-PENTANE	0.052	0.049	0.047	0.049	0.049								0.049	0.047	0.052
N-PENTANE	0.056	0.053	0.050	0.053	0.051								0.053	0.050	0.056
HEXANES+	0.014	0.012	0.011	0.012	0.011								0.012	0.011	0.014
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2	3.524	3.341	3.281	3.270	3.342								3.370	3.270	3.524
%INERTS	8.634	8.470	8.485	8.814	8.910								8.627	8.470	8.910

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

VOL(MMCF)	806.3	692.5	588.6	418.7	379.6								577.1	379.6	806.3
HIGH BTU/CF	1055.6	1050.6	1049.7	1054.1	1059.2								1053.5	1049.7	1059.2
LOW BTU/CF	954.7	949.9	949.1	953.4	958.2								952.7	949.1	958.2
SPEC GRAV	0.6860	0.6812	0.6806	0.6871	0.6915								0.6846	0.6806	0.6915
WOBBE INDEX	1274.5	1272.9	1272.4	1271.7	1273.7								1273.2	1271.7	1274.5
%DIF	5.6	5.5	5.4	5.4	5.5								5.5	5.4	5.6
LIQ GAL/MCF	0.591	0.554	0.554	0.643	0.627								0.587	0.554	0.643

H2O LB/MMCF															

*															

	*	*	*
	1.5	1.4	1.6
-	-----	-----	-----

0	SITE ID: YONO	SITE NAME: YOSEMITE NORTH OUTLET	DATA TYPE: AVG	CALCULATED GAS COMPOSITION
		TARGET WOBBE: 1207	DATA SOURCE: HPG	BRIGHTON

[illegible]

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

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

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

0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	2.047	2.067	2.012	2.031	2.060							2.044	2.012	2.067
	OXYGEN	1.252	1.207	1.217	1.283	1.308							1.251	1.207	1.308
	NITROGEN	5.350	5.263	5.222	5.396	5.429							5.328	5.222	5.429
	METHANE	77.462	78.249	78.416	77.425	76.546							77.642	76.546	78.416
	ETHANE	11.864	11.308	11.204	11.620	12.502							11.693	11.204	12.502
	PROPANE	1.465	1.359	1.396	1.689	1.588							1.489	1.359	1.689
	I - BUTANE	0.135	0.132	0.130	0.139	0.143							0.136	0.130	0.143
	N - BUTANE	0.307	0.303	0.295	0.307	0.314							0.305	0.295	0.314
	I - PENTANE	0.051	0.049	0.048	0.048	0.049							0.049	0.048	0.051

----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY -----												
VOL(MMCF)	1169.9	921.8	650.6	324.7	289.0							
HIGH BTU/CF	1037.6	1027.1	1028.5	1022.9	1020.7							
LOW BTU/CF	935.4	926.0	927.5	922.6	920.6							
SPEC GRAV	0.5878	0.6004	0.6061	0.6150	0.6139							
WOBBE INDEX	1353.4	1325.5	1321.1	1304.4	1302.7							
LIQ GAL/MCF	0.094	0.121	0.161	0.228	0.211							

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO 2019
VOLUME WEIGHTED
DATE RUN: 06/12/2019
TIME RUN: 13:06:51

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												
0	MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
	CO2	1.048	1.410	1.078	1.065	1.227								1.173	1.048	1.410
	OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
	NITROGEN	0.364	0.354	0.280	0.319	0.408								0.345	0.280	0.408
	METHANE	94.331	93.542	93.569	93.661	93.768								93.903	93.542	94.331
	ETHANE	4.073	4.471	4.866	4.787	4.439								4.380	4.073	4.866
	PROPANE	0.154	0.180	0.178	0.145	0.121								0.165	0.121	0.180
	I-BUTANE	0.011	0.016	0.011	0.009	0.013								0.013	0.009	0.016
	N-BUTANE	0.013	0.019	0.012	0.010	0.016								0.015	0.010	0.019
	I-PENTANE	0.003	0.004	0.003	0.002	0.004								0.003	0.002	0.004
	N-PENTANE	0.002	0.003	0.002	0.001	0.003								0.002	0.001	0.003
	HEXANES+	0.001	0.001	0.001	0.001	0.001								0.001	0.001	0.001
	TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

	N2/O2															
%INERTS	1.412	1.764	1.358	1.384	1.635									1.518	1.358	1.764

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

VOL(MMCF)	658.5	479.8	261.1	75.4	27.2									300.4	27.2	658.5
HIGH BTU/CF	1034.4	1034.6	1041.3	1039.8	1034.6									1035.9	1034.4	1041.3
LOW BTU/CF	932.5	932.8	938.9	937.5	932.7									934.0	932.5	938.9
SPEC GRAV	0.5882	0.5940	0.5922	0.5914	0.5917									0.5910	0.5882	0.5940
WOBBE INDEX	1348.7	1342.4	1353.1	1352.1	1345.0									1347.6	1342.4	1353.1
%DIF	6.0	5.5	6.4	6.3	5.7									5.9	5.5	6.4
LIQ GAL/MCF	0.052	0.064	0.059	0.048	0.046									0.057	0.046	0.064

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

0
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO 2019
VOLUME WEIGHTED
DATE RUN: 06/12/2019
TIME RUN: 13:06:51

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	2.691	2.954	2.527								2.013	0.000	2.954
	OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
	NITROGEN	1.161	1.248	1.509	1.708	1.708								1.427	1.161	1.708

METHANE	94.098	91.904	90.907	90.177	90.698								91.772	90.177	94.098
ETHANE	4.120	3.563	4.059	4.195	4.286								4.020	3.563	4.286
PROPANE	0.424	0.466	0.542	0.617	0.493								0.500	0.424	0.617
I-BUTANE	0.061	0.075	0.088	0.104	0.085								0.080	0.061	0.104
N-BUTANE	0.084	0.106	0.120	0.140	0.120								0.111	0.084	0.140
I-PENTANE	0.025	0.033	0.038	0.046	0.038								0.035	0.025	0.046
N-PENTANE	0.018	0.025	0.028	0.034	0.028								0.026	0.018	0.034
HEXANES+	0.009	0.015	0.018	0.025	0.017								0.016	0.009	0.025
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	1.161	3.813	4.200	4.662	4.235								3.440	1.161	4.662

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	400.0	360.1	360.2	245.5	256.5								324.5	245.5	400.0
HIGH BTU/CF	1045.6	1016.5	1018.6	1017.6	1019.1								1024.7	1016.5	1045.6
LOW BTU/CF	942.8	916.6	918.7	917.9	919.2								924.1	916.6	942.8
SPEC GRAV	0.5869	0.6107	0.6169	0.6226	0.6167								0.6090	0.5869	0.6226
WOBBE INDEX	1364.8	1300.7	1296.9	1289.7	1297.7								1313.5	1289.7	1364.8
%DIF	7.3	2.3	2.0	1.4	2.0								3.3	1.4	7.3
LIQ GAL/MCF	0.183	0.214	0.247	0.288	0.232								0.228	0.183	0.288

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

0											VOLUME WEIGHTED				
1	REPORT R69629S1										DATE RUN: 06/12/2019				
											TIME RUN: 13:06:51				
0	SITE ID: ORCO										PUBLIC SERVICE COMPANY OF COLORADO				
											2019				
	SITE NAME: ORCHARD MESA OUTLET										DATA TYPE: AVG				
	TARGET WOBBE: 1272										ONLINE GAS CHROMATOGRAPH				
	AIR BLENDED: N										DATA SOURCE: HPG GRAND JUNCTION				
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

CO2	1.432	1.544	1.605	1.605	1.605								1.500	1.432	1.605
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	0.201	0.225	0.265	0.289	0.289								0.221	0.201	0.289
METHANE	94.534	94.065	92.660	93.622	93.622								94.097	92.660	94.534
ETHANE	3.723	3.976	5.424	4.460	4.460								4.056	3.723	5.424
PROPANE	0.103	0.178	0.046	0.004	0.004								0.118	0.004	0.178
I-BUTANE	0.004	0.007	0.000	0.000	0.000								0.004	0.000	0.007
N-BUTANE	0.003	0.005	0.000	0.000	0.000								0.003	0.000	0.005
I-PENTANE	0.000	0.000	0.000	0.002	0.002								0.000	0.000	0.002
N-PENTANE	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
HEXANES+	0.000	0.000	0.000	0.018	0.018								0.001	0.000	0.018
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	1.633	1.769	1.870	1.894	1.894								1.721	1.633	1.894

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	111.4	82.0	29.2	3.8	5.3								46.3	3.8	111.4
HIGH BTU/CF	1028.1	1029.9	1037.7	1030.2	1030.2								1030.0	1028.1	1037.7
LOW BTU/CF	926.7	928.4	935.7	928.7	928.7								928.5	926.7	935.7
SPEC GRAV	0.5887	0.5919	0.5982	0.5937	0.5937								0.5912	0.5887	0.5982

WOBBE INDEX 1339.9 1338.7 1341.7 1337.0 1337.0
%DIF 5.3 5.2 5.5 5.1 5.1
LIQ GAL/MCF 0.031 0.053 0.013 0.009 0.009

1339.6	1337.0	1341.7
5.3	5.1	5.5
0.036	0.009	0.053

0.0	0.0	0.0
*	*	*
*	*	*

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

0
1REPORT R699680

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

VOLUME WEIGHTED
DATE RUN: 06/12/2019
TIME RUN: 13:06:51

0
0 BTU ZONE: GREASEWOOD

SITE ID	SAMPLING SITE NAME	NET FLOW	HV (BTU/CF, 14.73 PSIA, 60 F, DRY)	VOLUME (MCF AT 14.73 PSIA)		
			MARCH	APRIL	MAY	
STEAMBT	STEAMBOAT TOWN BORDER	IN	1021.6	1042.0	1036.9	
	VOLUME WEIGHTED HEATING VALUE:		1021.6	1042.0	1036.9	TOTAL VOL:
	QUARTER AVERAGE HEATING VALUE:		1033.5			

0
- DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.
1REPORT R69629Z0 PUBLIC SERVICE COMPANY OF COLORADO 2019
DATE RUN: 06/12/2019
TIME RUN: 13:06:51

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	0.128	1.187	1.002								0.616	0.128	1.187
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	0.242	0.242	0.142	0.394	0.528								0.275	0.142	0.528
METHANE	96.804	96.804	98.494	92.944	93.890								96.285	92.944	98.494
ETHANE	2.378	2.378	1.217	5.244	4.218								2.745	1.217	5.244
PROPANE	0.000	0.000	0.000	0.231	0.347								0.073	0.000	0.347
I-BUTANE	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
N-BUTANE	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
I-PENTANE	0.000	0.000	0.006	0.000	0.009								0.002	0.000	0.009
N-PENTANE	0.000	0.000	0.004	0.000	0.006								0.002	0.000	0.006
HEXANES+	0.000	0.000	0.009	0.000	0.000								0.002	0.000	0.009
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2
%INERTS 0.818 0.818 0.270 1.581 1.530
AVG 0.891 MIN 0.270 MAX 1.581

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

VOL(MMCF)	23.9	19.4	17.1	11.2	9.5								16.2	9.5	23.9
HIGH BTU/CF	1024.3	1024.3	1021.6	1042.0	1036.9								1027.7	1021.6	1042.0
LOW BTU/CF	922.9	922.9	920.1	939.7	934.9								926.0	920.1	939.7
SPEC GRAV	0.5729	0.5729	0.5629	0.5956	0.5908								0.5760	0.5629	0.5956
WOBBE INDEX	1353.3	1353.3	1361.6	1350.2	1349.0								1354.1	1349.0	1361.6
LIQ GAL/MCF	*	*	0.007	0.064	0.101								0.022	0.000	0.101

0
1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2019

VOLUME WEIGHTED
DATE RUN: 06/12/2019
TIME RUN: 13:06:51

0
0 SITE ID: STEAMBT SITE NAME: STEAMBOAT TOWN BORDER
TARGET WOBBE: 1327 DATA TYPE: COMP ONLINE GAS CHROM (MANUAL)
AIR BLENDED: N DATA SOURCE: HPG MEEKER

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

CO2	0.576	0.576	0.128	1.187	1.002	0.616	0.128	1.187
OXYGEN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.242	0.242	0.142	0.394	0.528	0.275	0.142	0.528
METHANE	96.804	96.804	98.494	92.944	93.890	96.285	92.944	98.494
ETHANE	2.378	2.378	1.217	5.244	4.218	2.745	1.217	5.244
PROPANE	0.000	0.000	0.000	0.231	0.347	0.073	0.000	0.347
I-BUTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N-BUTANE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
I-PENTANE	0.000	0.000	0.006	0.000	0.009	0.002	0.000	0.009
N-PENTANE	0.000	0.000	0.004	0.000	0.006	0.002	0.000	0.006
HEXANES+	0.000	0.000	0.009	0.000	0.000	0.002	0.000	0.009
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00		
N2/O2								
%INERTS	0.818	0.818	0.270	1.581	1.530	0.891	0.270	1.581
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)								
VOL(MMCF)	23.9	19.4	17.1	11.2	9.5	16.2	9.5	23.9
HIGH BTU/CF	1024.3	1024.3	1021.6	1042.0	1036.9	1027.7	1021.6	1042.0
LOW BTU/CF	922.9	922.9	920.1	939.7	934.9	926.0	920.1	939.7
SPEC GRAV	0.5729	0.5729	0.5629	0.5956	0.5908	0.5760	0.5629	0.5956
WOBBE INDEX	1353.3	1353.3	1361.6	1350.2	1349.0	1354.1	1349.0	1361.6
%DIF	2.0	2.0	2.6	1.7	1.7	2.0	1.7	2.6
LIQ GAL/MCF	*	*	0.007	0.064	0.101	0.022	0.000	0.101
H2O LB/MMCF						*	*	*
H2S PPMV						*	*	*
O2 PPMV						*	*	*

01REPORT R699680

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

VOLUME WEIGHTED
DATE RUN: 06/12/2019
TIME RUN: 13:06:51

BTU ZONE: MERINO									
		NET	HV (BTU/CF, 14.73 PSIA, 60 F, DRY)			VOLUME (MCF AT 14.73 PSIA)			
SITE ID	SAMPLING SITE NAME	FLOW	MARCH	APRIL	MAY	MARCH	APRIL	MAY	
SSTR2	SOUTHERN STAR ARITH AVG	IN	1055.2	1041.0	1045.8	N/A	N/A	N/A	
STRAIGHT AVERAGED HEATING VALUE:			1055.2	1041.0	1045.8	TOTAL VOL:	0	0	0
QUARTER AVERAGE HEATING VALUE:			1047.3						

01REPORT R69629Z0

DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.
PUBLIC SERVICE COMPANY OF COLORADO
2019

DATE RUN: 06/12/2019
TIME RUN: 13:06:51

ZONE NAME: MERINO												
MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
CO2	0.237	0.586	0.959	0.088	0.070							
OXYGEN	0.000	0.000	0.000	0.000	0.000							
NITROGEN	0.451	0.594	0.739	0.297	0.269							
METHANE	94.392	93.481	91.969	95.851	95.448							
ETHANE	4.505	4.709	5.331	3.583	3.950							
PROPANE	0.288	0.519	0.810	0.146	0.203							
I-BUTANE	0.023	0.036	0.061	0.012	0.022							
N-BUTANE	0.029	0.049	0.083	0.015	0.026							
I-PENTANE	0.063	0.009	0.016	0.003	0.005							
N-PENTANE	0.005	0.007	0.012	0.002	0.004							

HEXANES+	0.007	0.010	0.020	0.003	0.003								0.009	0.003	0.020
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2 %INERTS	0.688	1.180	1.698	0.385	0.339								0.858	0.339	1.698
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)															
HIGH BTU/CF	1049.8	1049.2	1055.2	1041.0	1045.8								1048.2	1041.0	1055.2
LOW BTU/CF	946.6	946.2	952.0	938.3	942.8								945.2	938.3	952.0
SPEC GRAV	0.5859	0.5926	0.6041	0.5762	0.5787								0.5875	0.5762	0.6041
WOBBE INDEX	1371.5	1362.9	1357.6	1371.4	1374.7								1367.6	1357.6	1374.7
LIQ GAL/MCF	0.124	0.180	0.288	0.052	0.076								0.144	0.052	0.288

0											STRAIGHT AVERAGED				
1	REPORT R69629S1										DATE RUN: 06/12/2019				
											TIME RUN: 13:06:51				
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														
0	MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

CO2	0.237	0.586	0.959	0.088	0.070								0.388	0.070	0.959
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	0.451	0.594	0.739	0.297	0.269								0.470	0.269	0.739
METHANE	94.392	93.481	91.969	95.851	95.448								94.228	91.969	95.851
ETHANE	4.505	4.709	5.331	3.583	3.950								4.416	3.583	5.331
PROPANE	0.288	0.519	0.810	0.146	0.203								0.393	0.146	0.810
I-BUTANE	0.023	0.036	0.061	0.012	0.022								0.031	0.012	0.061
N-BUTANE	0.029	0.049	0.083	0.015	0.026								0.040	0.015	0.083
I-PENTANE	0.063	0.009	0.016	0.003	0.005								0.019	0.003	0.063
N-PENTANE	0.005	0.007	0.012	0.002	0.004								0.006	0.002	0.012
HEXANES+	0.007	0.010	0.020	0.003	0.003								0.009	0.003	0.020
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2 %INERTS	0.688	1.180	1.698	0.385	0.339								0.858	0.339	1.698
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)															
HIGH BTU/CF	1049.8	1049.2	1055.2	1041.0	1045.8								1048.2	1041.0	1055.2
LOW BTU/CF	946.6	946.2	952.0	938.3	942.8								945.2	938.3	952.0
SPEC GRAV	0.5859	0.5926	0.6041	0.5762	0.5787								0.5875	0.5762	0.6041
WOBBE INDEX	1371.5	1362.9	1357.6	1371.4	1374.7								1367.6	1357.6	1374.7
%DIF	3.4	2.7	2.3	3.3	3.6								3.1	2.3	3.6
LIQ GAL/MCF	0.124	0.180	0.288	0.052	0.076								0.144	0.052	0.288

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

0											STRAIGHT AVERAGED				
1	REPORT R699680										DATE RUN: 06/12/2019				
											TIME RUN: 13:06:51				
	PUBLIC SERVICE COMPANY OF COLORADO														
	BTU ZONE SUMMARY HEATING VALUES REPORT														

THIRD QUARTER, 2019

0 BTU ZONE: MOUNTAIN
0
0 SITE ID SAMPLING SITE NAME NET HV (BTU/CF, 14.73 PSIA, 60 F, DRY) VOLUME (MCF AT 14.73 PSIA)
0 DLLNSILV DILLON/SILVERTHORNE FLOW MARCH APRIL MAY MARCH APRIL MAY
0 STRAIGHT AVERAGED HEATING VALUE: 1049.4 1055.1 1056.3 N/A N/A N/A
0 QUARTER AVERAGE HEATING VALUE: 1053.6 TOTAL VOL: 0 0 0
-
0 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: 06/12/2019
2019 TIME RUN: 13:06:51

ZONE NAME: MOUNTAIN													AVG	MIN	MAX
MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
CO2	1.850	2.040	2.080	2.090	2.130								2.038	1.850	2.130
OXYGEN	1.350	1.370	1.270	1.440	1.380								1.362	1.270	1.440
NITROGEN	5.260	5.320	5.010	5.570	5.350								5.302	5.010	5.570
METHANE	77.760	77.500	78.480	76.720	76.910								77.474	76.720	78.480
ETHANE	12.040	11.560	11.330	11.730	12.030								11.738	11.330	12.040
PROPANE	1.260	1.640	1.290	1.820	1.580								1.518	1.260	1.820
I-BUTANE	0.110	0.140	0.130	0.160	0.140								0.136	0.110	0.160
N-BUTANE	0.250	0.310	0.290	0.350	0.330								0.306	0.250	0.350
I-PENTANE	0.040	0.050	0.050	0.050	0.060								0.050	0.040	0.060
N-PENTANE	0.050	0.050	0.050	0.050	0.060								0.052	0.050	0.060
HEXANES+	0.030	0.020	0.020	0.020	0.030								0.024	0.020	0.030
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		
N2/O2	3.896	3.883	3.945	3.868	3.877								3.894	3.868	3.945
%INERTS	8.460	8.730	8.360	9.100	8.860								8.702	8.360	9.100
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)															
HIGH BTU/CF	1052.1	1053.4	1049.4	1055.1	1056.3								1053.3	1049.4	1056.3
LOW BTU/CF	951.3	952.7	948.8	954.4	955.4								952.5	948.8	955.4
SPEC GRAV	0.6806	0.6854	0.6790	0.6908	0.6891								0.6850	0.6790	0.6908
WOBBE INDEX	1275.3	1272.4	1273.5	1269.5	1272.5								1272.6	1269.5	1275.3
LIQ GAL/MCF	0.507	0.640	0.534	0.709	0.641								0.606	0.507	0.709

0 STRAIGHT AVERAGED
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO DATE RUN: 06/12/2019
2019 TIME RUN: 13:06:51

0	SITE ID: DLLNSILV			SITE NAME: DILLON/SILVERTHORNE			DATA TYPE: COMP COMPOSITE SAMPLER (MANUAL)									
				TARGET WOBBE: 1207			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	1.850	2.040	2.080	2.090	2.130								2.038	1.850	2.130
	OXYGEN	1.350	1.370	1.270	1.440	1.380								1.362	1.270	1.440
	NITROGEN	5.260	5.320	5.010	5.570	5.350								5.302	5.010	5.570
	METHANE	77.760	77.500	78.480	76.720	76.910								77.474	76.720	78.480
	ETHANE	12.040	11.560	11.330	11.730	12.030								11.738	11.330	12.040
	PROPANE	1.260	1.640	1.290	1.820	1.580								1.518	1.260	1.820
	I-BUTANE	0.110	0.140	0.130	0.160	0.140								0.136	0.110	0.160
	N-BUTANE	0.250	0.310	0.290	0.350	0.330								0.306	0.250	0.350
	I-PENTANE	0.040	0.050	0.050	0.050	0.060								0.050	0.040	0.060
	N-PENTANE	0.050	0.050	0.050	0.050	0.060								0.052	0.050	0.060
	HEXANES+	0.030	0.020	0.020	0.020	0.030								0.024	0.020	0.030

TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00			
N2/O2	3.896	3.883	3.945	3.868	3.877			3.894	3.868	3.945
%INERTS	8.460	8.730	8.360	9.100	8.860			8.702	8.360	9.100
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----										
VOL(MMCF)										
HIGH BTU/CF	1052.1	1053.4	1049.4	1055.1	1056.3			1053.3	1049.4	1056.3
LOW BTU/CF	951.3	952.7	948.8	954.4	955.4			952.5	948.8	955.4
SPEC GRAV	0.6806	0.6854	0.6790	0.6908	0.6891			0.6850	0.6790	0.6908
WOBBE INDEX	1275.3	1272.4	1273.5	1269.5	1272.5			1272.6	1269.5	1275.3
%DIF	5.7	5.4	5.5	5.2	5.4			5.4	5.2	5.7
LIQ GAL/MCF	0.507	0.640	0.534	0.709	0.641			0.606	0.507	0.709
H2O LB/MMCF								*	*	*
H2S PPMV								*	*	*
O2 PPMV								*	*	*

0
1REPORT R699680

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

STRAIGHT AVERAGED
DATE RUN: 06/12/2019
TIME RUN: 13:06:52

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	MARCH	APRIL	MAY	MARCH	APRIL	MAY	
0	AMCN	WGR NORTH (WATTENBERG)	IN	1124.8	1117.6	1123.0	506,768	452,044	508,986	
	CBTW	CHALK BLUFFS TO PSCO 8-IN	IN	0.0	0.0	0.0	0	0	0	
	CB24	CHLK BL TO FRONT RANGE PL	IN	1077.5	1106.3	1110.3	4,184,730	1,906,626	2,379,900	
	CIGAUL	CIG AULT PURCHASE POINT	IN	1117.7	1117.1	1113.9	193,827	290,505	349,515	
	CIGBCR	CIG BEAVER CREEK EAST	IN	1128.9	1129.7	1135.5	445,009	45,685	41,663	
	CIGGRE	CIG GREELEY PURCHASE PT	IN	1115.6	1117.7	1114.8	208,104	186,292	191,003	
	CIGLUP	CIG FT LUPTON PURCHASE PT	IN	1138.2	1138.4	1141.7	1,971,471	1,468,259	1,674,490	
	CIGWIG	CIG WIGGINS/ROUNDUP DEL	IN	1132.7	1131.7	1138.6	145,963	23,799	163,264	
	CIG1CK	CIG FIRST CREEK	IN	1139.3	1133.6	1136.8	192,524	98,437	172,001	
	EATN	DCP EATON GAS PLANT	IN	0.0	0.0	0.0	0	0	0	
	FTSV	FORT ST VRAIN POWER PLANT	OUT	1086.7	1117.7	1120.2	-1,918,512	-1,860,651	-2,092,612	
	HSRS	ANADARKO FT LUPTON RESIDU	IN	0.0	0.0	0.0	0	0	0	
	LUP0	FT LUPTON DELIVERY TO CIG	OUT	0.0	0.0	0.0	0	0	0	
	MEWB	DCP MEWBOURN GAS PLANT	IN	1063.4	1068.1	1071.5	318,432	10,974	68,239	
	NRCO	ANADARKO PLATTE VAL RESID	IN	1101.9	1105.6	1099.4	1,257,331	1,248,254	841,265	
	RNDI	ROUNDUP GAS INJECTION	OUT	0.0	0.0	0.0	0	0	0	
	RNDT	ROUNDUP GAS TO TRANSMISSN	IN	1130.8	1127.3	0.0	361,060	380,873	0	
	ROGN	DCP ROGGEN GP	IN	**	**	**	N/A	N/A	N/A	
	SPND	DCP SPINDLE GAS PLANT	IN	0.0	0.0	0.0	0	0	0	
	TTHR	HIGH PLAINS TRITOWN RECPT	IN	1113.1	1125.1	1130.6	3,215,636	2,364,077	1,929,607	
	WIND	AKA GAS PLANT	IN	1111.1	1112.1	1116.9	693,047	647,320	728,738	
	YONI	YOSEMITE NORTH INLET	OUT	1115.9	1126.2	1132.1	-2,877,689	-1,119,601	-317,230	
	YOSI	YOSEMITE SOUTH INLET	OUT	1116.3	1125.2	1130.6	-3,023,150	-2,478,059	-2,915,930	
0		VOLUME WEIGHTED HEATING VALUE:		1101.3	1113.5	1114.8	TOTAL VOL:	5,874,551	3,664,834	3,722,899
0		QUARTER AVERAGE HEATING VALUE:		1109.9						

0
1REPORT R69629Z0

DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.
** VOLUME FOR SITES WITH NO HEATING VALUE ARE IGNORED IN THE VOLUME WEIGHTED HEATING VALUE CALCULATION.
PUBLIC SERVICE COMPANY OF COLORADO
2019

DATE RUN: 06/12/2019
TIME RUN: 13:06:52

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	1.969	2.140	2.161								2.037	1.969	2.161
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	0.393	0.457	0.443	0.440	0.476								0.438	0.393	0.476
METHANE	83.881	84.723	85.000	83.268	82.771								84.100	82.771	85.000
ETHANE	11.350	10.850	10.620	11.852	12.312								11.267	10.620	12.312
PROPANE	1.843	1.512	1.499	1.765	1.743								1.658	1.499	1.843
I-BUTANE	0.139	0.128	0.125	0.139	0.142								0.134	0.125	0.142
N-BUTANE	0.272	0.268	0.259	0.296	0.298								0.275	0.259	0.298
I-PENTANE	0.041	0.042	0.040	0.047	0.046								0.043	0.040	0.047
N-PENTANE	0.040	0.044	0.041	0.049	0.046								0.043	0.040	0.049
HEXANES+	0.007	0.004	0.004	0.004	0.005								0.005	0.004	0.007
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	2.427	2.429	2.412	2.580	2.637								2.475	2.412	2.637
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	6484.3	6632.0	5874.6	3664.8	3722.9								5275.7	3664.8	6632.0
HIGH BTU/CF	1117.1	1107.8	1105.6	1119.1	1121.7								1113.1	1105.6	1121.7
LOW BTU/CF	1010.0	1001.4	999.3	1011.9	1014.4								1006.3	999.3	1014.4
SPEC GRAV	0.6572	0.6510	0.6494	0.6607	0.6630								0.6552	0.6494	0.6630
WOBBE INDEX	1378.0	1373.0	1372.0	1376.8	1377.6								1375.2	1372.0	1378.0
LIQ GAL/MCF	0.671	0.576	0.567	0.662	0.656								0.621	0.567	0.671

0													VOLUME WEIGHTED		
1REPORT R69629S1													PUBLIC SERVICE COMPANY OF COLORADO		
													2019		
													DATE RUN: 06/12/2019		
													TIME RUN: 13:06:52		
0													SITE ID: AMCN		
													SITE NAME: WGR NORTH (WATTENBERG)		
													TARGET WOBBE: 1327		
													DATA TYPE: AVG		
													ONLINE GAS CHROMATOGRAPH		
													DATA SOURCE: HPG BRIGHTON		
0													AIR BLENDED: N		

H2O LB/MMCF	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												VOLUME WEIGHTED								
1REPORT R69629S1	PUBLIC SERVICE COMPANY OF COLORADO											DATE RUN: 06/12/2019								
	2019											TIME RUN: 13:06:52								
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	0.000	0.000	0.000							0	*	*						
OXYGEN	0.000	0.000	0.000	0.000	0.000							0	*	*						
NITROGEN	0.000	0.000	0.000	0.000	0.000							0	*	*						
METHANE	0.000	0.000	0.000	0.000	0.000							0	*	*						
ETHANE	0.000	0.000	0.000	0.000	0.000							0	*	*						
PROPANE	0.000	0.000	0.000	0.000	0.000							0	*	*						
I-BUTANE	0.000	0.000	0.000	0.000	0.000							0	*	*						
N-BUTANE	0.000	0.000	0.000	0.000	0.000							0	*	*						
I-PENTANE	0.000	0.000	0.000	0.000	0.000							0	*	*						
N-PENTANE	0.000	0.000	0.000	0.000	0.000							0	*	*						
HEXANES+	0.000	0.000	0.000	0.000	0.000							0	*	*						
TOTAL	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							*	*	*						
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																				
VOL(MMCF)	.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							*	*	*						
LIQ GAL/MCF												*	*	*						
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	0.0	0.0	0.0	0.0	0.0							*	*	*						
0												STRAIGHT AVERAGED								
1REPORT R69629S1	PUBLIC SERVICE COMPANY OF COLORADO											DATE RUN: 06/12/2019								
	2019											TIME RUN: 13:06:53								
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	1.436	1.604	1.785							1.508	1.375	1.785						
OXYGEN	0.000	0.000	0.000	0.000	0.000							0.000	0.000	0.000						
NITROGEN	0.570	0.580	0.529	0.551	0.655							0.572	0.529	0.655						
METHANE	86.444	88.357	88.994	85.613	84.572							87.191	84.572	88.994						
ETHANE	9.627	8.128	7.654	10.274	10.889							9.019	7.654	10.889						
PROPANE	1.363	1.161	1.037	1.421	1.549							1.265	1.037	1.549						

I-BUTANE	0.127	0.105	0.092	0.124	0.132								0.113	0.092	0.132
N-BUTANE	0.260	0.215	0.189	0.296	0.302								0.241	0.189	0.302
I-PENTANE	0.042	0.034	0.030	0.050	0.050								0.039	0.030	0.050
N-PENTANE	0.045	0.037	0.032	0.054	0.053								0.042	0.032	0.054
HEXANES+	0.011	0.008	0.007	0.013	0.013								0.010	0.007	0.013
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	2.081	1.955	1.965	2.155	2.440								2.080	1.955	2.440

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	4222.7	4148.8	4184.7	1906.6	2379.9								3368.5	1906.6	4222.7
HIGH BTU/CF	1099.8	1084.3	1077.5	1106.3	1110.3								1092.7	1077.5	1110.3
LOW BTU/CF	993.7	979.3	972.9	999.8	1003.7								987.1	972.9	1003.7
SPEC GRAV	0.6396	0.6276	0.6238	0.6450	0.6516								0.6350	0.6238	0.6516
WOBBE INDEX	1375.2	1368.7	1364.3	1377.5	1375.5								1371.2	1364.3	1377.5
%DIF	3.6	3.1	2.8	3.8	3.7								3.3	2.8	3.8
LIQ GAL/MCF	0.535	0.451	0.401	0.568	0.608								0.495	0.401	0.608

H2O LB/MMCF	1.0	0.8	0.6	0.9	1.0								0.8	0.6	1.0
H2S PPMV	0.5	0.5	0.6	0.7	0.9								0.6	0.5	0.9
O2 PPMV													*	*	*

0												VOLUME WEIGHTED			
1REPORT R69629S1												DATE RUN: 06/12/2019			
												TIME RUN: 13:06:53			
0															
SITE ID: CIG AUL SITE NAME: CIG AULT PURCHASE POINT 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	1.892	2.185	2.129	2.079	2.066								2.052	1.892	2.185
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	0.337	0.281	0.448	0.342	0.290								0.330	0.281	0.448
METHANE	84.492	83.344	83.099	83.427	83.992								83.789	83.099	84.492
ETHANE	11.475	12.160	12.302	12.224	11.765								11.913	11.475	12.302
PROPANE	1.463	1.592	1.560	1.493	1.419								1.496	1.419	1.592
I-BUTANE	0.093	0.111	0.121	0.111	0.116								0.108	0.093	0.121
N-BUTANE	0.185	0.239	0.251	0.237	0.252								0.228	0.185	0.252
I-PENTANE	0.029	0.041	0.042	0.040	0.045								0.039	0.029	0.045
N-PENTANE	0.029	0.041	0.042	0.041	0.046								0.039	0.029	0.046
HEXANES+	0.005	0.006	0.006	0.006	0.009								0.006	0.005	0.009
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	2.229	2.466	2.577	2.421	2.356								2.382	2.229	2.577

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	430.2	304.0	193.8	290.5	349.5								313.6	193.8	430.2
HIGH BTU/CF	1110.4	1117.7	1117.7	1117.1	1113.9								1114.7	1110.4	1117.7
LOW BTU/CF	1003.7	1010.6	1010.7	1010.0	1007.0								1007.8	1003.7	1010.7
SPEC GRAV	0.6500	0.6588	0.6597	0.6573	0.6545								0.6553	0.6500	0.6597
WOBBE INDEX	1377.3	1377.0	1376.1	1377.9	1376.9								1377.1	1376.1	1377.9
%DIF	3.8	3.8	3.7	3.8	3.8								3.8	3.7	3.8
LIQ GAL/MCF	0.515	0.582	0.581	0.554	0.545								0.550	0.515	0.582

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

0												VOLUME WEIGHTED			
1	REPORT R69629S1											DATE RUN: 06/12/2019			
	PUBLIC SERVICE COMPANY OF COLORADO											TIME RUN: 13:06:53			
	2019														
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	2.308	2.374	2.336							2.323	2.308	2.374
	OXYGEN	0.000	0.000	0.000	0.000	0.000							0.000	0.000	0.000
	NITROGEN	0.395	0.420	0.439	0.462	0.485							0.435	0.395	0.485
	METHANE	81.843	81.937	82.212	81.746	80.842							82.019	80.842	82.212
	ETHANE	12.501	12.253	12.363	12.975	14.061							12.471	12.253	14.061
	PROPANE	2.202	2.340	1.965	1.685	1.543							2.034	1.543	2.340
	I-BUTANE	0.187	0.190	0.178	0.174	0.164							0.181	0.164	0.190
	N-BUTANE	0.383	0.387	0.389	0.405	0.386							0.389	0.383	0.405
	I-PENTANE	0.062	0.058	0.063	0.075	0.073							0.063	0.058	0.075
	N-PENTANE	0.064	0.060	0.066	0.081	0.081							0.066	0.060	0.081
	HEXANES+	0.018	0.019	0.017	0.023	0.029							0.019	0.017	0.029
	TOTAL	100.00	100.00	100.00	100.00	100.00							100.00		
-----													-----	-----	-----
	N2/O2														
	%INERTS	2.740	2.756	2.747	2.836	2.821							2.758	2.740	2.836
-----													-----	-----	-----
	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)														
	VOL(MMCF)	45.3	194.3	445.0	45.7	41.7							154.4	41.7	445.0
	HIGH BTU/CF	1133.6	1133.6	1128.9	1129.7	1135.5							1130.8	1128.9	1135.5
	LOW BTU/CF	1025.5	1025.5	1021.1	1021.9	1027.4							1022.9	1021.1	1027.4
	SPEC GRAV	0.6728	0.6729	0.6697	0.6715	0.6748							0.6711	0.6697	0.6748
	WOBBE INDEX	1382.0	1381.9	1379.5	1378.6	1382.3							1380.3	1378.6	1382.3
	%DIF	4.1	4.1	4.0	3.9	4.2							4.0	3.9	4.2
	LIQ GAL/MCF	0.842	0.879	0.776	0.715	0.668							0.796	0.668	0.879
-----													-----	-----	-----
	H2O LB/MMCF												*	*	*
	H2S PPMV												*	*	*
	O2 PPMV												*	*	*
-----													-----	-----	-----
0												VOLUME WEIGHTED			
1	REPORT R69629S1											DATE RUN: 06/12/2019			
	PUBLIC SERVICE COMPANY OF COLORADO											TIME RUN: 13:06:53			
	2019														
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	2.160	1.962	1.945							2.009	1.852	2.160
	OXYGEN	0.000	0.000	0.000	0.000	0.000							0.000	0.000	0.000
	NITROGEN	0.369	0.377	0.357	0.363	0.360							0.369	0.357	0.377
	METHANE	84.525	83.362	83.403	83.663	84.139							83.768	83.362	84.525
	ETHANE	11.252	12.062	12.155	12.029	11.560							11.818	11.252	12.155
	PROPANE	1.593	1.629	1.489	1.515	1.488							1.575	1.488	1.629

I-BUTANE	0.108	0.121	0.114	0.117	0.126								0.117	0.108	0.126
N-BUTANE	0.221	0.262	0.235	0.254	0.273								0.249	0.221	0.273
I-PENTANE	0.036	0.045	0.039	0.043	0.048								0.042	0.036	0.048
N-PENTANE	0.036	0.046	0.040	0.045	0.050								0.043	0.036	0.050
HEXANES+	0.008	0.011	0.008	0.009	0.011								0.010	0.008	0.011
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	2.221	2.462	2.517	2.325	2.305								2.378	2.221	2.517

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	417.7	719.3	208.1	186.3	191.0								344.5	186.3	719.3
HIGH BTU/CF	1112.5	1118.8	1115.6	1117.7	1114.8								1116.3	1112.5	1118.8
LOW BTU/CF	1005.6	1011.6	1008.6	1010.6	1007.9								1009.3	1005.6	1011.6
SPEC GRAV	0.6510	0.6589	0.6578	0.6561	0.6540								0.6560	0.6510	0.6589
WOBBE INDEX	1378.8	1378.3	1375.5	1379.9	1378.5								1378.3	1375.5	1379.9
%DIF	3.9	3.9	3.7	4.0	3.9								3.9	3.7	4.0
LIQ GAL/MCF	0.573	0.608	0.554	0.571	0.577								0.586	0.554	0.608

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

0													VOLUME WEIGHTED		
1REPORT R69629S1													PUBLIC SERVICE COMPANY OF COLORADO		
													2019		
													DATE RUN: 06/12/2019		
													TIME RUN: 13:06:53		
0													SITE ID: CIGLUP		
													SITE NAME: CIG FT LUPTON PURCHASE PT		
													TARGET WOBBE: 1327		
													DATA TYPE: AVG		
													DATA SOURCE: CIG		
													ONLINE GAS CHROMATOGRAPH		
0													AIR BLENDED: N		
													MTH: JAN		
													FEB		
													MAR		
													APR		
													MAY		
													JUN		
													JUL		
													AUG		
													SEP		
													OCT		
													NOV		
													DEC		
													AVG		
													MIN		
													MAX		

CO2	2.144	2.088	2.093	2.134	2.118								2.115	2.088	2.144
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	0.442	0.431	0.419	0.416	0.420								0.427	0.416	0.442
METHANE	81.332	82.085	82.091	81.929	81.287								81.741	81.287	82.091
ETHANE	12.816	12.169	12.249	12.343	13.206								12.552	12.169	13.206
PROPANE	2.402	2.400	2.327	2.411	2.230								2.356	2.230	2.411
I-BUTANE	0.224	0.219	0.215	0.208	0.201								0.214	0.201	0.224
N-BUTANE	0.488	0.471	0.465	0.438	0.423								0.460	0.423	0.488
I-PENTANE	0.075	0.068	0.070	0.061	0.059								0.067	0.059	0.075
N-PENTANE	0.076	0.068	0.070	0.060	0.056								0.067	0.056	0.076
HEXANES+	0.001	0.001	0.001	0.000	0.000								0.001	0.000	0.001
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	2.586	2.519	2.512	2.550	2.538								2.541	2.512	2.586

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	2117.2	1956.4	1971.5	1468.3	1674.5								1837.6	1468.3	2117.2
HIGH BTU/CF	1143.9	1138.7	1138.2	1138.4	1141.7								1140.3	1138.2	1143.9
LOW BTU/CF	1035.1	1030.2	1029.7	1029.9	1033.0								1031.7	1029.7	1035.1
SPEC GRAV	0.6767	0.6723	0.6719	0.6727	0.6745								0.6737	0.6719	0.6767
WOBBE INDEX	1390.6	1388.8	1388.6	1388.0	1390.1								1389.3	1388.0	1390.6
%DIF	4.8	4.7	4.6	4.6	4.8								4.7	4.6	4.8
LIQ GAL/MCF	0.944	0.931	0.909	0.914	0.855								0.913	0.855	0.944

-----												1.1	1.0	1.2	
H2O LB/MMCF												*	*	*	
H2S PPMV												*	*	*	
O2 PPMV															

0												VOLUME WEIGHTED			
1	REPORT R69629S1											DATE RUN: 06/12/2019			
	PUBLIC SERVICE COMPANY OF COLORADO											TIME RUN: 13:06:53			
	2019														
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	2.339	2.298	2.432							2.374	2.298	2.432
	OXYGEN	0.000	0.000	0.000	0.000	0.000							0.000	0.000	0.000
	NITROGEN	0.425	0.436	0.443	0.463	0.440							0.437	0.425	0.463
	METHANE	81.683	81.655	81.935	81.755	80.963							81.565	80.963	81.935
	ETHANE	12.583	12.300	12.288	12.926	13.232							12.590	12.288	13.232
	PROPANE	2.216	2.502	2.278	1.813	2.171							2.297	1.813	2.502
	I-BUTANE	0.190	0.200	0.191	0.177	0.195							0.194	0.177	0.200
	N-BUTANE	0.392	0.402	0.395	0.401	0.412							0.401	0.392	0.412
	I-PENTANE	0.064	0.059	0.058	0.071	0.068							0.062	0.058	0.071
	N-PENTANE	0.066	0.060	0.059	0.076	0.070							0.064	0.059	0.076
	HEXANES+	0.017	0.017	0.014	0.020	0.017							0.016	0.014	0.020
	TOTAL	100.00	100.00	100.00	100.00	100.00							100.00		
-----													-----	-----	-----
	N2/O2														
	%INERTS	2.789	2.805	2.782	2.761	2.872							2.811	2.761	2.872
-----													-----	-----	-----
	REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)														
	VOL(MMCF)	156.6	233.2	146.0	23.8	163.3							144.6	23.8	233.2
	HIGH BTU/CF	1134.3	1136.4	1132.7	1131.7	1138.6							1135.5	1131.7	1138.6
	LOW BTU/CF	1026.2	1028.2	1024.6	1023.7	1030.2							1027.3	1023.7	1030.2
	SPEC GRAV	0.6739	0.6755	0.6726	0.6715	0.6778							0.6750	0.6715	0.6778
	WOBBE INDEX	1381.8	1382.7	1381.1	1381.0	1383.0							1382.2	1381.0	1383.0
	%DIF	4.1	4.2	4.1	4.1	4.2							4.2	4.1	4.2
	LIQ GAL/MCF	0.850	0.932	0.863	0.745	0.849							0.875	0.745	0.932
-----													-----	-----	-----
	H2O LB/MMCF												*	*	*
	H2S PPMV												*	*	*
	O2 PPMV												*	*	*

0												VOLUME WEIGHTED			
1	REPORT R69629S1											DATE RUN: 06/12/2019			
	PUBLIC SERVICE COMPANY OF COLORADO											TIME RUN: 13:06:53			
	2019														
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	2.192	2.208	2.239							2.192	2.144	2.239
	OXYGEN	0.000	0.000	0.000	0.000	0.000							0.000	0.000	0.000
	NITROGEN	0.487	0.485	0.483	0.508	0.496							0.489	0.483	0.508
	METHANE	81.952	82.074	81.844	82.182	81.685							81.948	81.685	82.182
	ETHANE	11.885	11.803	11.884	11.697	12.234							11.900	11.697	12.234
	PROPANE	2.787	2.787	2.892	2.808	2.736							2.800	2.736	2.892

I-BUTANE	0.196	0.204	0.205	0.180	0.181								0.196	0.180	0.205
N-BUTANE	0.386	0.402	0.403	0.341	0.348								0.383	0.341	0.403
I-PENTANE	0.048	0.051	0.049	0.039	0.041								0.047	0.039	0.051
N-PENTANE	0.046	0.049	0.048	0.037	0.040								0.045	0.037	0.049
HEXANES+	0.000	0.001	0.000	0.000	0.000								0.000	0.000	0.001
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	2.700	2.629	2.675	2.716	2.735								2.681	2.629	2.735
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	255.9	310.9	192.5	98.4	172.0								205.9	98.4	310.9
HIGH BTU/CF	1136.8	1137.7	1139.3	1133.6	1136.8								1137.2	1133.6	1139.3
LOW BTU/CF	1028.5	1029.3	1030.8	1025.5	1028.5								1028.9	1025.5	1030.8
SPEC GRAV	0.6737	0.6731	0.6750	0.6718	0.6742								0.6737	0.6718	0.6750
WOBBE INDEX	1385.0	1386.7	1386.7	1383.1	1384.5								1385.6	1383.1	1386.7
%DIF	4.4	4.5	4.5	4.2	4.3								4.4	4.2	4.5
LIQ GAL/MCF	0.988	0.998	1.026	0.967	0.952								0.990	0.952	1.026

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

01REPORT R69629S1													VOLUME WEIGHTED		
													PUBLIC SERVICE COMPANY OF COLORADO		
													2019		
													DATE RUN: 06/12/2019		
													TIME RUN: 13:06:53		
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															
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	*	*
OXYGEN	0.000	0.000	0.000	0.000	0.000								0	*	*
NITROGEN	0.000	0.000	0.000	0.000	0.000								0	*	*
METHANE	0.000	0.000	0.000	0.000	0.000								0	*	*
ETHANE	0.000	0.000	0.000	0.000	0.000								0	*	*
PROPANE	0.000	0.000	0.000	0.000	0.000								0	*	*
I-BUTANE	0.000	0.000	0.000	0.000	0.000								0	*	*
N-BUTANE	0.000	0.000	0.000	0.000	0.000								0	*	*
I-PENTANE	0.000	0.000	0.000	0.000	0.000								0	*	*
N-PENTANE	0.000	0.000	0.000	0.000	0.000								0	*	*
HEXANES+	0.000	0.000	0.000	0.000	0.000								0	*	*
TOTAL	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								*	*	*
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	.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								*	*	*
LIQ GAL/MCF													*	*	*

													*	*	*
													*	*	*
													*	*	*

I - BUTANE	0.000	0.000	0.000	0.000	0.000									0	*	*
N - BUTANE	0.000	0.000	0.000	0.000	0.000									0	*	*
I - PENTANE	0.000	0.000	0.000	0.000	0.000									0	*	*
N - PENTANE	0.000	0.000	0.000	0.000	0.000									0	*	*
HEXANES+	0.000	0.000	0.000	0.000	0.000									0	*	*
TOTAL	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									*	*	*
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
VOL(MMCF)	.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									*	*	*
LIQ GAL/MCF														*	*	*

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	0.0	0.0	0.0	0.0	0.0									*	*	*

01REPORT R69629S1													STRAIGHT AVERAGED			
PUBLIC SERVICE COMPANY OF COLORADO													DATE RUN: 06/12/2019			
2019													TIME RUN: 13:06:53			
0 SITE ID: LUPO		SITE NAME: FT LUPTON DELIVERY TO CIG					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	0.000	0.000	0.000	0.000	0.000								0	*	*	
OXYGEN	0.000	0.000	0.000	0.000	0.000								0	*	*	
NITROGEN	0.000	0.000	0.000	0.000	0.000								0	*	*	
METHANE	0.000	0.000	0.000	0.000	0.000								0	*	*	
ETHANE	0.000	0.000	0.000	0.000	0.000								0	*	*	
PROPANE	0.000	0.000	0.000	0.000	0.000								0	*	*	
I - BUTANE	0.000	0.000	0.000	0.000	0.000								0	*	*	
N - BUTANE	0.000	0.000	0.000	0.000	0.000								0	*	*	
I - PENTANE	0.000	0.000	0.000	0.000	0.000								0	*	*	
N - PENTANE	0.000	0.000	0.000	0.000	0.000								0	*	*	
HEXANES+	0.000	0.000	0.000	0.000	0.000								0	*	*	
TOTAL	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								*	*	*	
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
VOL(MMCF)	.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								*	*	*	
LIQ GAL/MCF													*	*	*	

													*	*	*	
													*	*	*	
													*	*	*	
0												STRAIGHT		AVERAGED		
1	REPORT R69629S1	PUBLIC SERVICE COMPANY OF COLORADO										DATE RUN: 06/12/2019				
		2019										TIME RUN: 13:06:53				
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	0.000	0.000	0.000								0.001	0.000	0.002
	OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
	NITROGEN	0.321	0.330	0.309	0.299	0.294								0.319	0.294	0.330
	METHANE	93.797	93.874	93.015	92.440	92.030								93.540	92.030	93.874
	ETHANE	5.793	5.693	6.555	7.121	7.516								6.036	5.693	7.516
	PROPANE	0.087	0.097	0.118	0.137	0.156								0.101	0.087	0.156
	I-BUTANE	0.001	0.002	0.002	0.002	0.002								0.002	0.001	0.002
	N-BUTANE	0.000	0.002	0.001	0.001	0.002								0.001	0.000	0.002
	I-PENTANE	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
	N-PENTANE	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
	TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		
	N2/O2															
	%INERTS	0.322	0.332	0.309	0.299	0.294								0.320	0.294	0.332
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																
	VOL(MMCF)	573.3	403.3	318.4	11.0	68.2								274.8	11.0	573.3
	HIGH BTU/CF	1056.8	1056.2	1063.4	1068.1	1071.5								1059.0	1056.2	1071.5
	LOW BTU/CF	953.1	952.5	959.2	963.6	966.8								955.1	952.5	966.8
	SPEC GRAV	0.5851	0.5848	0.5892	0.5921	0.5941								0.5865	0.5848	0.5941
	WOBBE INDEX	1381.6	1381.2	1385.4	1388.1	1390.2								1382.8	1381.2	1390.2
	%DIF	4.1	4.1	4.4	4.6	4.8								4.2	4.1	4.8
	LIQ GAL/MCF	0.024	0.028	0.033	0.039	0.044								0.028	0.024	0.044
	H2O LB/MMCF	0.1	0.1	0.2	0.2	0.2								0.1	0.1	0.2
	H2S PPMV	0.1	0.1	0.1	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: 06/12/2019				
		2019										TIME RUN: 13:06:53				
0	SITE ID: NRCO		SITE NAME: ANADARKO PLATTE VAL RESID				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	2.258	2.246	2.221	2.161	2.287								2.231	2.161	2.287
	OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
	NITROGEN	0.334	0.338	0.338	0.366	0.354								0.345	0.334	0.366
	METHANE	84.337	84.127	84.294	83.982	84.519								84.236	83.982	84.519
	ETHANE	11.510	11.704	11.573	11.809	11.197								11.581	11.197	11.809
	PROPANE	1.496	1.517	1.496	1.615	1.538								1.532	1.496	1.615

I-BUTANE	0.032	0.033	0.035	0.032	0.046								0.035	0.032	0.046
N-BUTANE	0.032	0.034	0.039	0.034	0.055								0.038	0.032	0.055
I-PENTANE	0.001	0.001	0.002	0.001	0.002								0.001	0.001	0.002
N-PENTANE	0.000	0.000	0.002	0.000	0.002								0.001	0.000	0.002
HEXANES+	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		

N2/O2															
%INERTS	2.592	2.584	2.559	2.527	2.641								2.576	2.527	2.641
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	1336.6	1162.4	1257.3	1248.3	841.3								1169.2	841.3	1336.6
HIGH BTU/CF	1100.8	1102.7	1101.9	1105.6	1099.4								1102.2	1099.4	1105.6
LOW BTU/CF	994.8	996.6	995.9	999.3	993.6								996.2	993.6	999.3
SPEC GRAV	0.6497	0.6508	0.6499	0.6515	0.6495								0.6503	0.6495	0.6515
WOBBE INDEX	1365.7	1366.9	1366.8	1369.7	1364.2								1366.8	1364.2	1369.7
%DIF	2.9	3.0	3.0	3.2	2.8								3.0	2.8	3.2
LIQ GAL/MCF	0.433	0.440	0.437	0.466	0.457								0.446	0.433	0.466

H2O LB/MMCF	0.6	0.4	0.6	0.7	0.6								0.6	0.4	0.7
H2S PPMV	2.7	2.7	2.8	2.0	2.7								2.6	2.0	2.8
O2 PPMV													*	*	*

01REPORT R69629S1												VOLUME WEIGHTED			
PUBLIC SERVICE COMPANY OF COLORADO												DATE RUN: 06/12/2019			
2019												TIME RUN: 13:06:53			
0 SITE ID: RNDI		SITE NAME: ROUNDUP GAS INJECTION				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	*	*
OXYGEN	0.000	0.000	0.000	0.000	0.000								0	*	*
NITROGEN	0.000	0.000	0.000	0.000	0.000								0	*	*
METHANE	0.000	0.000	0.000	0.000	0.000								0	*	*
ETHANE	0.000	0.000	0.000	0.000	0.000								0	*	*
PROPANE	0.000	0.000	0.000	0.000	0.000								0	*	*
I-BUTANE	0.000	0.000	0.000	0.000	0.000								0	*	*
N-BUTANE	0.000	0.000	0.000	0.000	0.000								0	*	*
I-PENTANE	0.000	0.000	0.000	0.000	0.000								0	*	*
N-PENTANE	0.000	0.000	0.000	0.000	0.000								0	*	*
HEXANES+	0.000	0.000	0.000	0.000	0.000								0	*	*
TOTAL	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								*	*	*
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	.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								*	*	*
LIQ GAL/MCF													*	*	*

													*	*	*	
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 0.0 0.0 0.0 0.0 0.0													*	*	*	
0													STRAIGHT AVERAGED			
1REPORT R69629S1													DATE RUN: 06/12/2019			
PUBLIC SERVICE COMPANY OF COLORADO													TIME RUN: 13:06:53			
2019																
0 SITE ID: RNDT SITE NAME: ROUNDUP GAS TO TRANSMISSN 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	2.458	2.409	2.345	2.330	0.000									2.402	2.330	2.458
OXYGEN	0.000	0.000	0.000	0.000	0.000									0.000	0.000	0.000
NITROGEN	0.297	0.321	0.343	0.363	0.000									0.323	0.297	0.363
METHANE	81.474	81.847	82.346	82.656	0.000									81.942	81.474	82.656
ETHANE	12.321	12.192	11.913	11.694	0.000									12.102	11.694	12.321
PROPANE	2.621	2.521	2.411	2.351	0.000									2.508	2.351	2.621
I-BUTANE	0.223	0.201	0.186	0.178	0.000									0.202	0.178	0.223
N-BUTANE	0.438	0.385	0.351	0.330	0.000									0.389	0.330	0.438
I-PENTANE	0.071	0.055	0.048	0.045	0.000									0.058	0.045	0.071
N-PENTANE	0.075	0.056	0.047	0.044	0.000									0.059	0.044	0.075
HEXANES+	0.022	0.013	0.010	0.009	0.000									0.015	0.009	0.022
TOTAL	100.00	100.00	100.00	100.00	0.00									100.00		
N2/O2																
%INERTS	2.755	2.730	2.688	2.693	0.000									2.725	2.688	2.755
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)																
VOL(MMCF)	781.2	582.9	361.1	380.9	.0									526.5	361.1	781.2
HIGH BTU/CF	1141.2	1135.9	1130.8	1127.3										1135.4	1127.3	1141.2
LOW BTU/CF	1032.7	1027.7	1022.9	1019.7										1027.3	1019.7	1032.7
SPEC GRAV	0.6785	0.6745	0.6705	0.6682										0.6742	0.6682	0.6785
WOBBE INDEX	1385.4	1383.1	1381.0	1379.1										1382.9	1379.1	1385.4
%DIF	4.4	4.2	4.1	3.9	0.0									4.2	3.9	4.4
LIQ GAL/MCF	0.995	0.927	0.874	0.846										0.928	0.846	0.995
H2O LB/MMCF	1.5	1.0	0.8	0.6	0.0									1.1	0.6	1.5
H2S PPMV	0.0	0.0	0.0	0.0	0.0									0.0	0.0	0.0
O2 PPMV					0.0									*	*	*
0													VOLUME WEIGHTED			
1REPORT R69629S1													DATE RUN: 06/12/2019			
PUBLIC SERVICE COMPANY OF COLORADO													TIME RUN: 13:06:53			
2019																
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															*	*	*

01REPORT R69629S1														STRAIGHT AVERAGED			
PUBLIC SERVICE COMPANY OF COLORADO														DATE RUN: 06/12/2019			
2019														TIME RUN: 13:06:53			
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	0.000	0.000	0.000								0	*	*		
OXYGEN	0.000	0.000	0.000	0.000	0.000								0	*	*		
NITROGEN	0.000	0.000	0.000	0.000	0.000								0	*	*		
METHANE	0.000	0.000	0.000	0.000	0.000								0	*	*		
ETHANE	0.000	0.000	0.000	0.000	0.000								0	*	*		
PROPANE	0.000	0.000	0.000	0.000	0.000								0	*	*		
I-BUTANE	0.000	0.000	0.000	0.000	0.000								0	*	*		
N-BUTANE	0.000	0.000	0.000	0.000	0.000								0	*	*		
I-PENTANE	0.000	0.000	0.000	0.000	0.000								0	*	*		
N-PENTANE	0.000	0.000	0.000	0.000	0.000								0	*	*		
HEXANES+	0.000	0.000	0.000	0.000	0.000								0	*	*		
TOTAL	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												
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																	
VOL(MMCF)	.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								*	*	*		
LIQ GAL/MCF													*	*	*		

-----													-----	-----	-----									
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		0.0	0.0	0.0	0.0	0.0						*	*	*										
-----													-----	-----	-----									
0													STRAIGHT AVERAGED											
1REPORT R69629S1													DATE RUN: 06/12/2019											
PUBLIC SERVICE COMPANY OF COLORADO													TIME RUN: 13:06:54											
2019																								
SITE ID: TTHR		SITE NAME: HIGH PLAINS TRITOWN RECPT										DATA TYPE: AVG			ONLINE GAS CHROMATOGRAPH									
		TARGET WOBBE: 1327										DATA SOURCE: CIG												
		AIR BLENDED: N																						
MTH: JAN		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX									
-----													-----	-----	-----									
CO2		2.254	2.279	2.292	2.324	2.380						2.294	2.254	2.380										
OXYGEN		0.000	0.000	0.000	0.000	0.000						0.000	0.000	0.000										
NITROGEN		0.460	0.469	0.461	0.485	0.507						0.472	0.460	0.507										
METHANE		82.308	83.452	83.007	81.936	80.654						82.530	80.654	83.452										
ETHANE		13.260	12.219	12.607	13.170	14.657						12.980	12.219	14.657										
PROPANE		1.149	1.064	1.100	1.397	1.214						1.158	1.064	1.397										
I-BUTANE		0.131	0.120	0.123	0.156	0.134						0.130	0.120	0.156										
N-BUTANE		0.313	0.287	0.296	0.377	0.324						0.313	0.287	0.377										
I-PENTANE		0.060	0.052	0.054	0.073	0.061						0.058	0.052	0.073										
N-PENTANE		0.064	0.057	0.059	0.081	0.068						0.064	0.057	0.081										
HEXANES+		0.001	0.001	0.001	0.001	0.001						0.001	0.001	0.001										
TOTAL		100.00	100.00	100.00	100.00	100.00						100.00												
-----													-----	-----	-----									
N2/O2																								
%INERTS		2.714	2.748	2.753	2.809	2.887						2.766	2.714	2.887										
-----													-----	-----	-----									
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)													-----	-----	-----									
VOL(MMCF)		3964.7	4733.6	3215.6	2364.1	1929.6						3241.5	1929.6	4733.6										
HIGH BTU/CF		1120.1	1109.1	1113.1	1125.1	1130.6						1117.5	1109.1	1130.6										
LOW BTU/CF		1012.9	1002.7	1006.4	1017.6	1022.7						1010.5	1002.7	1022.7										
SPEC GRAV		0.6633	0.6568	0.6595	0.6679	0.6725						0.6624	0.6568	0.6725										
WOBBE INDEX		1375.3	1368.5	1370.7	1376.7	1378.7						1373.0	1368.5	1378.7										
%DIF		3.6	3.1	3.3	3.7	3.9						3.4	3.1	3.9										
LIQ GAL/MCF		0.504	0.463	0.478	0.611	0.528						0.505	0.463	0.611										
-----													-----	-----	-----									
H2O LB/MMCF		0.2	0.3	0.4	0.4	0.4						0.3	0.2	0.4										
H2S PPMV											*	*	*											
O2 PPMV											*	*	*											
-----													-----	-----	-----									
0													VOLUME WEIGHTED											
1REPORT R69629S1													DATE RUN: 06/12/2019											
PUBLIC SERVICE COMPANY OF COLORADO													TIME RUN: 13:06:54											
2019																								
SITE ID: WIND											SITE NAME: AKA GAS PLANT					DATA TYPE: AVG			ONLINE GAS CHROMATOGRAPH					
											TARGET WOBBE: 1327					DATA SOURCE: HPG CAMPION								
		AIR BLENDED: N																						
MTH: JAN		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX									
-----													-----	-----	-----									
CO2		2.928	2.907	2.926	2.941	2.925						2.926	2.907	2.941										
OXYGEN		0.000	0.000	0.000	0.000	0.000						0.000	0.000	0.000										
NITROGEN		0.162	0.166	0.164	0.164	0.167						0.165	0.162	0.167										
METHANE		82.765	83.427	83.354	83.155	82.799						83.081	82.765	83.427										
ETHANE		11.520	10.910	10.928	11.133	11.325						11.176	10.910	11.520										
PROPANE		2.164	2.125	2.144	2.136	2.259						2.169	2.125	2.259										

I-BUTANE	0.175	0.174	0.179	0.175	0.190								0.179	0.174	0.190
N-BUTANE	0.231	0.234	0.244	0.237	0.267								0.243	0.231	0.267
I-PENTANE	0.030	0.030	0.032	0.031	0.035								0.032	0.030	0.035
N-PENTANE	0.022	0.023	0.025	0.024	0.028								0.025	0.022	0.028
HEXANES+	0.003	0.004	0.004	0.004	0.005								0.004	0.003	0.005
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	3.090	3.073	3.090	3.105	3.092								3.091	3.073	3.105

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	696.2	554.0	693.0	647.3	728.7								663.8	554.0	728.7
HIGH BTU/CF	1115.4	1110.4	1111.1	1112.1	1116.9								1113.4	1110.4	1116.9
LOW BTU/CF	1008.6	1004.0	1004.7	1005.6	1010.0								1006.7	1004.0	1010.0
SPEC GRAV	0.6681	0.6646	0.6654	0.6663	0.6691								0.6668	0.6646	0.6691
WOBBE INDEX	1364.6	1362.1	1362.1	1362.4	1365.4								1363.4	1362.1	1365.4
%DIF	2.8	2.6	2.6	2.7	2.9								2.7	2.6	2.9
LIQ GAL/MCF	0.746	0.737	0.748	0.742	0.794								0.755	0.737	0.794

H2O LB/MMCF	0.0	0.0	0.0	0.0	0.1								0.0	0.0	0.1
H2S PPMV	0.1	0.3	0.6	0.6	0.7								0.5	0.1	0.7
O2 PPMV	0.0	0.0	0.0	0.0	0.0								0.0	0.0	0.0

01REPORT R69629S1													VOLUME WEIGHTED		
													DATE RUN: 06/12/2019		
													TIME RUN: 13:06:54		
0SITE ID: YONI															
0SITE NAME: YOSEMITE NORTH INLET													DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH		
													DATA SOURCE: HPG BRIGHTON		
0AIR BLENDED: N															
0MTH: JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC													AVG	MIN	MAX

CO2	2.210	2.226	2.166	2.244	2.171								2.206	2.166	2.244
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	0.435	0.443	0.439	0.427	0.435								0.438	0.427	0.443
METHANE	82.399	83.159	83.423	82.427	81.858								82.880	81.858	83.423
ETHANE	12.777	12.120	11.935	12.442	13.004								12.335	11.935	13.004
PROPANE	1.578	1.465	1.474	1.820	1.900								1.550	1.465	1.900
I-BUTANE	0.143	0.140	0.136	0.155	0.165								0.142	0.136	0.165
N-BUTANE	0.329	0.325	0.311	0.352	0.352								0.326	0.311	0.352
I-PENTANE	0.055	0.053	0.050	0.057	0.052								0.053	0.050	0.057
N-PENTANE	0.059	0.056	0.054	0.062	0.053								0.057	0.053	0.062
HEXANES+	0.015	0.013	0.012	0.014	0.010								0.013	0.010	0.015
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	2.645	2.669	2.605	2.671	2.606								2.644	2.605	2.671

REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	3537.1	3445.5	2877.7	1119.6	317.2								2259.4	317.2	3537.1
HIGH BTU/CF	1124.4	1117.1	1115.9	1126.2	1132.1								1120.4	1115.9	1132.1
LOW BTU/CF	1016.9	1010.1	1008.9	1018.6	1024.1								1013.2	1008.9	1024.1
SPEC GRAV	0.6652	0.6608	0.6590	0.6667	0.6694								0.6625	0.6590	0.6694
WOBBE INDEX	1378.6	1374.2	1374.6	1379.3	1383.7								1376.5	1374.2	1383.7
%DIF	3.9	3.6	3.6	3.9	4.3								3.7	3.6	4.3
LIQ GAL/MCF	0.633	0.597	0.591	0.712	0.731								0.622	0.591	0.731

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

01REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO

2019

VOLUME WEIGHTED

DATE RUN: 06/12/2019

TIME RUN: 13:06:54

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

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	2.187	2.206	2.146	2.172	2.204								2.184	2.146	2.206
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	0.468	0.476	0.468	0.464	0.491								0.474	0.464	0.491
METHANE	82.498	83.211	83.373	82.526	81.616								82.663	81.616	83.373
ETHANE	12.683	12.072	11.956	12.436	13.381								12.497	11.956	13.381
PROPANE	1.565	1.451	1.488	1.807	1.700								1.591	1.451	1.807
I-BUTANE	0.144	0.141	0.139	0.148	0.153								0.145	0.139	0.153
N-BUTANE	0.328	0.324	0.315	0.329	0.337								0.326	0.315	0.337
I-PENTANE	0.055	0.053	0.051	0.052	0.053								0.053	0.051	0.055
N-PENTANE	0.057	0.054	0.052	0.053	0.053								0.054	0.052	0.057
HEXANES+	0.015	0.012	0.012	0.013	0.012								0.013	0.012	0.015
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	2.655	2.682	2.614	2.636	2.695								2.657	2.614	2.695

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

VOL(MMCF)	3264.4	3304.8	3023.2	2478.1	2915.9								2997.3	2478.1	3304.8
HIGH BTU/CF	1123.4	1116.3	1116.3	1125.2	1130.6								1122.1	1116.3	1130.6
LOW BTU/CF	1015.9	1009.3	1009.3	1017.6	1022.7								1014.7	1009.3	1022.7
SPEC GRAV	0.6644	0.6603	0.6593	0.6653	0.6695								0.6636	0.6593	0.6695
WOBBE INDEX	1378.2	1373.8	1374.8	1379.5	1381.8								1377.5	1373.8	1381.8
%DIF	3.9	3.5	3.6	4.0	4.1								3.8	3.5	4.1
LIQ GAL/MCF	0.628	0.592	0.597	0.693	0.668								0.632	0.592	0.693

H2O LB/MMCF	1.5	1.5	1.6	1.6	1.9								1.6	1.5	1.9
H2S PPMV													*	*	*
O2 PPMV	0.0	0.0	0.0	0.0	0.0								0.0	0.0	0.0

01REPORT R699680

PUBLIC SERVICE COMPANY OF COLORADO

BTU ZONE SUMMARY HEATING VALUES REPORT

THIRD QUARTER, 2019

VOLUME WEIGHTED

DATE RUN: 06/12/2019

TIME RUN: 13:06:54

BTU ZONE: PUEBLO									
		NET HV (BTU/CF, 14.73 PSIA, 60 F, DRY)			VOLUME (MCF AT 14.73 PSIA)				
SITE ID	SAMPLING SITE NAME	FLOW	MARCH	APRIL	MAY	MARCH	APRIL	MAY	
CIGPUN	CIG PUEBLO NORTH TB	IN	996.2	1023.1	1050.1	166,896	61,342	40,868	
CIGPUS	CIG PUEBLO SOUTH TB	IN	982.9	1023.0	1046.3	466,988	230,918	207,881	
	VOLUME WEIGHTED HEATING VALUE:		986.4	1023.0	1046.9	TOTAL VOL:	633,884	292,260	248,749
	QUARTER AVERAGE HEATING VALUE:		1018.8						

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: 06/12/2019

2019

TIME RUN: 13:06:54

ZONE NAME: PUEBLO

0

-

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.667	0.700	0.874	1.414	1.898								0.909	0.667	1.898
OXYGEN	0.805	0.819	0.897	1.081	1.168								0.890	0.805	1.168
NITROGEN	3.559	3.619	3.865	4.591	4.927								3.873	3.559	4.927
METHANE	93.889	93.521	91.366	84.366	79.737								90.976	79.737	93.889
ETHANE	0.852	1.046	2.338	6.920	10.162								2.696	0.852	10.162
PROPANE	0.177	0.232	0.509	1.307	1.691								0.519	0.177	1.691
I-BUTANE	0.015	0.019	0.042	0.091	0.115								0.039	0.015	0.115
N-BUTANE	0.028	0.035	0.084	0.180	0.229								0.076	0.028	0.229
I-PENTANE	0.004	0.004	0.011	0.023	0.033								0.010	0.004	0.033
N-PENTANE	0.003	0.004	0.011	0.023	0.033								0.010	0.003	0.033
HEXANES+	0.001	0.001	0.003	0.004	0.007								0.002	0.001	0.007
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		
N2/O2	4.421	4.419	4.309	4.247	4.218								4.359	4.218	4.421
%INERTS	5.031	5.138	5.636	7.086	7.993								5.673	5.031	7.993
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	869.7	764.0	633.9	292.3	248.7								561.7	248.7	869.7
HIGH BTU/CF	973.6	975.2	986.4	1023.0	1046.9								988.6	973.6	1046.9
LOW BTU/CF	877.0	878.5	889.1	923.8	946.4								891.2	877.0	946.4
SPEC GRAV	0.5869	0.5893	0.6027	0.6447	0.6724								0.6047	0.5869	0.6724
WOBBE INDEX	1270.9	1270.4	1270.6	1274.1	1276.7								1271.5	1270.4	1276.7
LIQ GAL/MCF	0.065	0.084	0.190	0.465	0.602								0.188	0.065	0.602
VOLUME WEIGHTED															
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO 2019 DATE RUN: 06/12/2019 TIME RUN: 13:06:54															
0 SITE ID: CIGPUN SITE NAME: CIG PUEBLO NORTH TB DATA TYPE: AVG ONLINE GAS CHROMATOGRAPH															
0 TARGET WOBBE: 1207 DATA SOURCE: CIG															
0 AIR BLENDED: Y															
MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	0.723	0.782	1.029	1.408	1.970								0.940	0.723	1.970
OXYGEN	0.831	0.863	0.974	1.103	1.198								0.917	0.831	1.198
NITROGEN	3.635	3.728	4.096	4.594	4.992								3.927	3.635	4.992
METHANE	93.174	92.468	89.408	84.347	79.008								90.544	79.008	93.174
ETHANE	1.295	1.681	3.512	6.902	10.675								2.929	1.295	10.675
PROPANE	0.265	0.376	0.756	1.315	1.730								0.583	0.265	1.730
I-BUTANE	0.022	0.030	0.062	0.093	0.118								0.045	0.022	0.118
N-BUTANE	0.042	0.056	0.125	0.185	0.233								0.088	0.042	0.233
I-PENTANE	0.006	0.007	0.017	0.024	0.034								0.012	0.006	0.034
N-PENTANE	0.005	0.007	0.017	0.024	0.034								0.012	0.005	0.034
HEXANES+	0.002	0.002	0.004	0.005	0.008								0.003	0.002	0.008
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		
N2/O2	4.374	4.320	4.205	4.165	4.167								4.290	4.165	4.374
%INERTS	5.189	5.373	6.099	7.105	8.160								5.785	5.189	8.160
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	241.0	211.3	166.9	61.3	40.9								144.3	40.9	241.0
HIGH BTU/CF	977.5	980.8	996.2	1023.1	1050.1								990.8	977.5	1050.1

LOW BTU/CF	880.6	883.8	898.4	923.8	949.4	893.2	880.6	949.4
SPEC GRAV	0.5914	0.5959	0.6149	0.6450	0.6766	0.6075	0.5914	0.6766
WOBBE INDEX	1271.1	1270.6	1270.4	1273.9	1276.6	1271.3	1270.4	1276.6
%DIF	5.3	5.3	5.3	5.5	5.8	5.3	5.3	5.8
LIQ GAL/MCF	0.098	0.137	0.282	0.470	0.617	0.213	0.098	0.617
-----						-----		
H2O LB/MMCF						*	*	*
H2S PPMV						*	*	*
O2 PPMV	0.8	0.8	1.0	1.1	1.2	0.9	0.8	1.2
-----						-----		

01REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO

2019

VOLUME WEIGHTED

DATE RUN: 06/12/2019

TIME RUN: 13:06:54

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	0.819	1.415	1.884								0.899	0.646	1.884
	OXYGEN	0.795	0.802	0.869	1.075	1.162								0.881	0.795	1.162
	NITROGEN	3.530	3.577	3.782	4.590	4.914								3.854	3.530	4.914
	METHANE	94.163	93.923	92.066	84.371	79.881								91.125	79.881	94.163
	ETHANE	0.682	0.803	1.918	6.925	10.061								2.615	0.682	10.061
	PROPANE	0.143	0.177	0.421	1.305	1.683								0.496	0.143	1.683
	I-BUTANE	0.013	0.015	0.035	0.090	0.114								0.037	0.013	0.114
	N-BUTANE	0.022	0.027	0.070	0.179	0.228								0.072	0.022	0.228
	I-PENTANE	0.003	0.003	0.009	0.023	0.033								0.010	0.003	0.033
	N-PENTANE	0.002	0.003	0.009	0.023	0.033								0.009	0.002	0.033
	HEXANES+	0.001	0.001	0.002	0.004	0.007								0.002	0.001	0.007
	TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

	N2/O2	4.440	4.460	4.352	4.270	4.229								4.386	4.229	4.460
	%INERTS	4.971	5.048	5.470	7.080	7.960								5.634	4.971	7.960

----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----																
	VOL (MMCF)	628.7	552.7	467.0	230.9	207.9								417.4	207.9	628.7
	HIGH BTU/CF	972.2	973.0	982.9	1023.0	1046.3								987.8	972.2	1046.3
	LOW BTU/CF	875.6	876.4	885.7	923.8	945.8								890.4	875.6	945.8
	SPEC GRAV	0.5852	0.5867	0.5984	0.6447	0.6716								0.6037	0.5852	0.6716
	WOBBE INDEX	1270.9	1270.3	1270.6	1274.1	1276.7								1271.6	1270.3	1276.7
	%DIF	5.3	5.2	5.3	5.6	5.8								5.4	5.2	5.8
	LIQ GAL/MCF	0.053	0.065	0.157	0.464	0.600								0.179	0.053	0.600

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

01REPORT R699680

PUBLIC SERVICE COMPANY OF COLORADO

BTU ZONE SUMMARY HEATING VALUES REPORT

THIRD QUARTER, 2019

VOLUME WEIGHTED

DATE RUN: 06/12/2019

TIME RUN: 13:06:54

0	BTU ZONE: RIFLE-VAIL									
0			NET	HV (BTU/CF, 14.73 PSIA, 60 F, DRY)			VOLUME (MCF AT 14.73 PSIA)			
0	SITE ID	SAMPLING SITE NAME	FLOW	MARCH	APRIL	MAY	MARCH	APRIL	MAY	
0	RV12	AVON 12-INCH INLET	IN	1039.2	1036.1	1043.0	1,304,655	792,269	837,764	
0		VOLUME WEIGHTED HEATING VALUE:		1039.2	1036.1	1043.0	TOTAL VOL: 1,304,655	792,269	837,764	

0 QUARTER AVERAGE HEATING VALUE: 1039.4

- 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: 06/12/2019
2019 TIME RUN: 13:06:54

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	1.564	0.423	1.171								1.198	0.423	1.564
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	0.061	0.063	0.064	0.072	0.149								0.076	0.061	0.149
METHANE	94.866	94.736	94.101	96.297	93.655								94.690	93.655	96.297
ETHANE	3.392	2.978	3.403	2.985	4.658								3.417	2.978	4.658
PROPANE	0.404	0.596	0.628	0.167	0.281								0.450	0.167	0.628
I-BUTANE	0.069	0.108	0.110	0.024	0.039								0.077	0.024	0.110
N-BUTANE	0.059	0.091	0.094	0.022	0.034								0.066	0.022	0.094
I-PENTANE	0.018	0.029	0.029	0.008	0.010								0.021	0.008	0.029
N-PENTANE	0.001	0.002	0.002	0.000	0.001								0.001	0.000	0.002
HEXANES+	0.004	0.005	0.005	0.002	0.002								0.004	0.002	0.005
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		
N2/O2															
%INERTS	1.187	1.455	1.628	0.495	1.320								1.274	0.495	1.628
REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09)															
VOL(MMCF)	1669.1	1451.6	1304.7	792.3	837.8								1211.1	792.3	1669.1
HIGH BTU/CF	1038.1	1037.2	1039.2	1036.1	1043.0								1038.5	1036.1	1043.0
LOW BTU/CF	935.9	935.1	937.1	933.8	940.5								936.3	933.8	940.5
SPEC GRAV	0.5887	0.5924	0.5965	0.5761	0.5934								0.5903	0.5761	0.5965
WOBBE INDEX	1353.0	1347.6	1345.5	1365.1	1354.0								1351.8	1345.5	1365.1
LIQ GAL/MCF	0.161	0.242	0.252	0.065	0.106								0.180	0.065	0.252

0 VOLUME WEIGHTED
1REPORT R69629S1 PUBLIC SERVICE COMPANY OF COLORADO DATE RUN: 06/12/2019
2019 TIME RUN: 13:06:54

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

MTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX
CO2	1.126	1.392	1.564	0.423	1.171								1.198	0.423	1.564
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	0.061	0.063	0.064	0.072	0.149								0.076	0.061	0.149
METHANE	94.866	94.736	94.101	96.297	93.655								94.690	93.655	96.297
ETHANE	3.392	2.978	3.403	2.985	4.658								3.417	2.978	4.658
PROPANE	0.404	0.596	0.628	0.167	0.281								0.450	0.167	0.628
I-BUTANE	0.069	0.108	0.110	0.024	0.039								0.077	0.024	0.110
N-BUTANE	0.059	0.091	0.094	0.022	0.034								0.066	0.022	0.094
I-PENTANE	0.018	0.029	0.029	0.008	0.010								0.021	0.008	0.029
N-PENTANE	0.001	0.002	0.002	0.000	0.001								0.001	0.000	0.002
HEXANES+	0.004	0.005	0.005	0.002	0.002								0.004	0.002	0.005
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		
N2/O2															
%INERTS	1.187	1.455	1.628	0.495	1.320								1.274	0.495	1.628

----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY -----										-----	-----	-----
VOL(MMCF)	1669.1	1451.6	1304.7	792.3	837.8					1211.1	792.3	1669.1
HIGH BTU/CF	1038.1	1037.2	1039.2	1036.1	1043.0					1038.5	1036.1	1043.0
LOW BTU/CF	935.9	935.1	937.1	933.8	940.5					936.3	933.8	940.5
SPEC GRAV	0.5887	0.5924	0.5965	0.5761	0.5934					0.5903	0.5761	0.5965
WOBBE INDEX	1353.0	1347.6	1345.5	1365.1	1354.0					1351.8	1345.5	1365.1
%DIF	2.0	1.6	1.4	2.9	2.0					1.9	1.4	2.9
LIQ GAL/MCF	0.161	0.242	0.252	0.065	0.106					0.180	0.065	0.252
-----										-----	-----	-----
H2O LB/MMCF										*	*	*
H2S PPMV										*	*	*
O2 PPMV										*	*	*
-----										-----	-----	-----

0
1REPORT R699680 PUBLIC SERVICE COMPANY OF COLORADO
BTU ZONE SUMMARY HEATING VALUES REPORT
THIRD QUARTER, 2019
VOLUME WEIGHTED
DATE RUN: 06/12/2019
TIME RUN: 13:06:54

0 BTU ZONE: SOUTHERN
0
0 SITE ID SAMPLING SITE NAME NET FLOW HV (BTU/CF, 14.73 PSIA, 60 F, DRY) VOLUME (MCF AT 14.73 PSIA)
0 TIFF TIFFANY COMPRESSOR STA IN MARCH APRIL MAY MARCH APRIL MAY
0 VOLUME WEIGHTED HEATING VALUE: 955.2 959.8 959.7 511,617 321,443 300,285
0 QUARTER AVERAGE HEATING VALUE: 958.2 TOTAL VOL: 511,617 321,443 300,285
-

1REPORT R69629Z0 DUE TO ROUNDING, THE QUARTERLY ENERGY FACTOR MAY DIFFER SLIGHTLY FROM THE QUARTER AVERAGE HEATING VALUE.
PUBLIC SERVICE COMPANY OF COLORADO
2019
DATE RUN: 06/12/2019
TIME RUN: 13:06:54

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	6.028	5.548	5.553								5.708	5.373	6.028
OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
NITROGEN	0.030	0.028	0.033	0.041	0.042								0.033	0.028	0.042
METHANE	94.318	93.702	93.662	94.157	94.152								93.982	93.662	94.318
ETHANE	0.265	0.278	0.267	0.246	0.245								0.264	0.245	0.278
PROPANE	0.010	0.010	0.008	0.006	0.006								0.009	0.006	0.010
I-BUTANE	0.001	0.001	0.001	0.001	0.001								0.001	0.001	0.001
N-BUTANE	0.001	0.001	0.000	0.000	0.000								0.001	0.000	0.001
I-PENTANE	0.001	0.001	0.001	0.001	0.001								0.001	0.001	0.001
N-PENTANE	0.001	0.001	0.000	0.000	0.000								0.001	0.000	0.001
HEXANES+	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		

N2/O2															
%INERTS	5.403	6.006	6.061	5.589	5.595								5.741	5.403	6.061

----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----										-----	-----	-----
VOL(MMCF)	692.7	619.2	511.6	321.4	300.3					489.0	300.3	692.7
HIGH BTU/CF	961.9	955.9	955.2	959.8	959.7					958.4	955.2	961.9
LOW BTU/CF	866.2	860.8	860.1	864.2	864.2					863.0	860.1	866.2
SPEC GRAV	0.6083	0.6142	0.6146	0.6099	0.6099					0.6115	0.6083	0.6146
WOBBE INDEX	1233.3	1219.7	1218.4	1229.0	1228.9					1225.6	1218.4	1233.3
LIQ GAL/MCF	0.004	0.004	0.003	0.002	0.002					0.003	0.002	0.004

0
VOLUME WEIGHTED

1REPORT R69629S1

PUBLIC SERVICE COMPANY OF COLORADO
2019

DATE RUN: 06/12/2019
TIME RUN: 13:06:54

0	SITE ID: TIFF		SITE NAME: TIFFANY COMPRESSOR STA			DATA TYPE: AVG					ONLINE GAS CHROMATOGRAPH					
			TARGET WOBBE: 1285			DATA SOURCE: HPG TIFFANY										
0	MTH: JAN		FEB	AIR BLENDED: N		MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX

	CO2	5.373	5.978	6.028	5.548	5.553								5.708	5.373	6.028
	OXYGEN	0.000	0.000	0.000	0.000	0.000								0.000	0.000	0.000
	NITROGEN	0.030	0.028	0.033	0.041	0.042								0.033	0.028	0.042
	METHANE	94.318	93.702	93.662	94.157	94.152								93.982	93.662	94.318
	ETHANE	0.265	0.278	0.267	0.246	0.245								0.264	0.245	0.278
	PROPANE	0.010	0.010	0.008	0.006	0.006								0.009	0.006	0.010
	I-BUTANE	0.001	0.001	0.001	0.001	0.001								0.001	0.001	0.001
	N-BUTANE	0.001	0.001	0.000	0.000	0.000								0.001	0.000	0.001
	I-PENTANE	0.001	0.001	0.001	0.001	0.001								0.001	0.001	0.001
	N-PENTANE	0.001	0.001	0.000	0.000	0.000								0.001	0.000	0.001
	HEXANES+	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		

	N2/O2															
	%INERTS	5.403	6.006	6.061	5.589	5.595								5.741	5.403	6.061

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

	VOL(MMCF)	692.7	619.2	511.6	321.4	300.3								489.0	300.3	692.7
	HIGH BTU/CF	961.9	955.9	955.2	959.8	959.7								958.4	955.2	961.9
	LOW BTU/CF	866.2	860.8	860.1	864.2	864.2								863.0	860.1	866.2
	SPEC GRAV	0.6083	0.6142	0.6146	0.6099	0.6099								0.6115	0.6083	0.6146
	WOBBE INDEX	1233.3	1219.7	1218.4	1229.0	1228.9								1225.6	1218.4	1233.3
	%DIF	-4.0	-5.1	-5.2	-4.4	-4.4								-4.6	-5.2	-4.0
	LIQ GAL/MCF	0.004	0.004	0.003	0.002	0.002								0.003	0.002	0.004

	H2O LB/MMCF	1.2	1.2	1.2	1.2	1.1								1.2	1.1	1.2
	H2S PPMV	0.0	0.0	0.0	0.0	0.0								0.0	0.0	0.0
	O2 PPMV													*	*	*

0

1REPORT R699680

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

VOLUME WEIGHTED
DATE RUN: 06/12/2019
TIME RUN: 13:06:54

0	BTU ZONE: STERLING										
0				NET	HV (BTU/CF, 14.73 PSIA, 60 F, DRY)			VOLUME (MCF AT 14.73 PSIA)			
	SITE ID	SAMPLING SITE NAME		FLOW	MARCH	APRIL	MAY	MARCH	APRIL	MAY	
0	STERLING	TALLGRASS STERLING TB		IN	1010.3	996.7	996.3	64,753	25,331	22,983	
0	VOLUME WEIGHTED HEATING VALUE:				1010.3	996.7	996.3	TOTAL VOL:	64,753	25,331	22,983
0	QUARTER AVERAGE HEATING VALUE:				1001.1						

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

1REPORT R69629Z0

PUBLIC SERVICE COMPANY OF COLORADO
2019

DATE RUN: 06/12/2019
TIME RUN: 13:06:55

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	0.484	0.495	0.489							0.521	0.484	0.557
	OXYGEN	0.000	0.000	0.000	0.000	0.000							0.000	0.000	0.000
	NITROGEN	3.420	2.996	3.347	3.769	3.794							3.336	2.996	3.794
	METHANE	93.086	92.297	92.999	93.787	93.775							92.946	92.297	93.787

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ETHANE	2.049	3.133	2.225	1.095	1.093								2.255	1.093	3.133
PROPANE	0.609	0.747	0.640	0.485	0.484								0.637	0.484	0.747
I-BUTANE	0.091	0.082	0.091	0.106	0.109								0.091	0.082	0.109
N-BUTANE	0.111	0.105	0.111	0.121	0.120								0.111	0.105	0.121
I-PENTANE	0.035	0.029	0.034	0.043	0.043								0.034	0.029	0.043
N-PENTANE	0.022	0.019	0.022	0.027	0.027								0.022	0.019	0.027
HEXANES+	0.045	0.035	0.047	0.072	0.066								0.047	0.035	0.072
TOTAL	100.00	100.00	100.00	100.00	100.00								100.00		

N2/O2															
%INERTS	3.952	3.553	3.831	4.264	4.283								3.858	3.553	4.283
----- REFERENCE CONDITIONS: 14.73 PSIA, 60F, DRY (GPA 2145-09) -----															
VOL(MMCF)	76.1	83.8	64.8	25.3	23.0								54.6	23.0	83.8
HIGH BTU/CF	1007.2	1020.6	1010.3	996.7	996.3								1010.2	996.3	1020.6
LOW BTU/CF	907.9	920.3	910.8	898.3	897.9								910.7	897.9	920.3
SPEC GRAV	0.5951	0.5995	0.5955	0.5915	0.5914								0.5959	0.5914	0.5995
WOBBE INDEX	1305.6	1318.1	1309.2	1295.9	1295.5								1308.5	1295.5	1318.1
LIQ GAL/MCF	0.272	0.298	0.281	0.262	0.259								0.280	0.259	0.298

0													VOLUME WEIGHTED		
1REPORT R69629S1													PUBLIC SERVICE COMPANY OF COLORADO		
													2019		
													DATE RUN: 06/12/2019		
													TIME RUN: 13:06:55		
0													SITE ID: STERLING SITE NAME: TALLGRASS STERLING TB		
													DATA TYPE: AVG ONLINE GAS CHROM (MANUAL)		
													TARGET WOBBE: 1275		
													DATA SOURCE: KINDER MORGAN		
0													AIR BLENDED: N		
MTH: JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG	MIN	MAX	

CO2	0.532	0.557	0.484	0.495	0.489							0.521	0.484	0.557	
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NITROGEN	3.420	2.996	3.347	3.769	3.794							3.336	2.996	3.794	
METHANE	93.086	92.297	92.999	93.787	93.775							92.946	92.297	93.787	
ETHANE	2.049	3.133	2.225	1.095	1.093							2.255	1.093	3.133	
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I-BUTANE	0.091	0.082	0.091	0.106	0.109							0.091	0.082	0.109	
N-BUTANE	0.111	0.105	0.111	0.121	0.120							0.111	0.105	0.121	
I-PENTANE	0.035	0.029	0.034	0.043	0.043							0.034	0.029	0.043	
N-PENTANE	0.022	0.019	0.022	0.027	0.027							0.022	0.019	0.027	
HEXANES+	0.045	0.035	0.047	0.072	0.066							0.047	0.035	0.072	
TOTAL	100.00	100.00	100.00	100.00	100.00							100.00			

N2/O2															
%INERTS	3.952	3.553	3.831	4.264	4.283								3.858	3.553	4.283
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SPEC GRAV	0.5951	0.5995	0.5955	0.5915	0.5914								0.5959	0.5914	0.5995
WOBBE INDEX	1305.6	1318.1	1309.2	1295.9	1295.5								1308.5	1295.5	1318.1
%DIF	2.4	3.4	2.7	1.6	1.6								2.6	1.6	3.4
LIQ GAL/MCF	0.272	0.298	0.281	0.262	0.259								0.280	0.259	0.298

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

02 PPMV

0

*	*	*
VOLUME	WEIGHTED	