

**APPENDIX D:**  
REGIONAL COMPRESSION  
EXISTING AND PROPOSED

**Table D.1 Regional Compressor Stations, Existing and Proposed Modeled Stack Data**

Facility	Horsepower	Stack ID	Stack Parameters				Stack Parameter Source	Permitted / Projected			Emissions Source	Modeled		
			Height (m)	Temperature (K)	Velocity (m/s)	Diameter (m)		NO <sub>x</sub> (lb/hr)	CO (lb/hr)	Formaldehyde (lb/hr)		NO <sub>x</sub> (g/s)	CO (g/s)	Formaldehyde (g/s)
<b>Existing Permitted Sources</b>														
Bird Canyon C.S.	2003	BC1	12.19	637.04	42.66	0.50	Updated Stack Data Provided by Duke 7/03.	3.1	0.9	0.3	AP-0189	0.391	0.113	0.038
	2003	BC2	12.19	637.04	42.66	0.50	Updated Stack Data Provided by Duke 7/03.	3.1	0.9	0.3		Permitted	0.391	0.113
	2935	BC3	12.19	726.48	29.75	0.70	Updated Stack Data Provided by Duke 7/03.	4.5	1.9	0.5	3/20/2003	0.567	0.239	0.063
	2935	BC4	12.19	726.48	29.75	0.70	Updated Stack Data Provided by Duke 7/03.	4.5	1.9	0.5		0.567	0.239	0.063
	2935	BC5	12.19	726.48	29.75	0.70	Updated Stack Data Provided by Duke 7/03.	4.5	1.9	0.5	0.567	0.239	0.063	
	2935	BC6	12.19	726.48	29.75	0.70	Updated Stack Data Provided by Duke 7/03.	4.5	1.9	0.5	0.567	0.239	0.063	
	600	BG1	12.19	691.48	23.11	0.10	Updated Stack Data Provided by Duke 7/03.	1.3	1.3	0.1	0.164	0.164	0.008	
	600	BG2	12.19	691.48	23.11	0.10	Updated Stack Data Provided by Duke 7/03.	1.3	1.3	0.1	0.164	0.164	0.010	
	--	BF1	10.67	1144.26	1.00	1.30	Updated Stack Data Provided by Duke 7/03.	0.6	2.8	0.0	0.076	0.353	0.000	
	Jonah C.S.	1663	J1	7.62	904.00	28.66	0.41	CT-2280	3.7	7.3	0.2	CT-2280	0.466	0.920
1663		J2	7.62	904.00	28.66	0.41	CT-2280	3.7	7.3	0.2	0.466		0.920	0.025
1663		J3	7.62	904.00	28.66	0.41	CT-2280	3.7	7.3	0.2	0.466		0.920	0.025
85		J4	5.00	1061.00	45.72	0.10	CT-2280	0.4	0.4	0.0	0.050		0.050	0.003
85		J5	5.00	1061.00	45.72	0.10	CT-2280	0.4	0.4	0.0	0.050		0.050	0.003
63		J6	4.00	1061.00	45.72	0.10	CT-2280	0.3	0.3	0.0	0.038		0.038	0.001
63		J7	4.00	1061.00	45.72	0.10	CT-2280	0.3	0.3	0.0	0.038		0.038	0.001
Luman C.S.	3668	LC1	13.70	726.48	28.65	0.71	Updated Stack Data Provided by Duke 12/03.	5.7	2.0	0.7	MD-921	0.718	0.252	0.082
	3668	LC2	13.70	726.48	28.65	0.71	Updated Stack Data Provided by Duke 12/03.	5.7	2.0	0.7		0.718	0.252	0.082
	3668	LC3	13.70	726.48	28.65	0.71	Updated Stack Data Provided by Duke 12/03.	5.7	2.0	0.7		0.718	0.252	0.082
	3668	LC4	13.70	726.48	28.65	0.71	Updated Stack Data Provided by Duke 12/03.	5.7	2.0	0.7		0.718	0.252	0.082
	215	LG1	10.00	830.93	31.90	0.13	Updated Stack Data Provided by Duke 12/03.	0.9	0.9	0.0		0.113	0.113	0.004
	215	LG2	10.00	830.93	31.90	0.13	Updated Stack Data Provided by Duke 12/03.	0.5	0.9	0.0		0.063	0.113	0.004
	245	LVRU	5.12	832.00	30.65	0.20	Updated Stack Data Provided by Duke 12/03.	0.5	0.5	0.0		0.068	0.063	0.004
	--	LH1	4.72	561.00	2.11	0.61	Updated Stack Data Provided by Duke 12/03.	0.2	0.2	0.0		0.025	0.025	0.000
	--	LCU	10.97	1273.00	1.00	2.00	Updated Stack Data Provided by Duke 12/03.	0.3	1.9	0.0		0.038	0.239	0.000
	flare	LEF1	11.00	1273.00	1.00	2.31	Updated Stack Data Provided by Duke 12/03.	0.0	0.2	0.0		0.003	0.025	0.000
Falcon C.S.	2935	FC1	9.75	725.37	26.39	0.70	Updated Stack Data Provided by Duke 7/03.	4.5	1.9	0.5	MD-815	0.567	0.239	0.063
	2935	FC2	9.75	725.37	26.39	0.70	Updated Stack Data Provided by Duke 7/03.	4.5	1.9	0.5		0.567	0.239	0.063
	2935	FC3	9.75	725.37	26.39	0.70	Updated Stack Data Provided by Duke 7/03.	4.5	1.9	0.5		0.567	0.239	0.063
	2935	FC4	9.75	725.37	26.39	0.70	Updated Stack Data Provided by Duke 7/03.	4.5	1.9	0.5		0.567	0.239	0.063
	600	FG1	9.75	737.04	0.01	0.20	Updated Stack Data Provided by Duke 7/03.	0.8	0.4	0.1		0.101	0.050	0.013
	930	FG4	4.57	674.00	30.78	0.20	MD-815	2.1	4.1	0.1		0.265	0.517	0.013
	245	VRU	6.10	932.00	32.60	0.15	MD-815	0.5	1.1	0.1		0.063	0.139	0.013
	--	HTR	4.42	480.00	1.43	0.61	MD-815	0.2	0.2	0.0		0.025	0.025	0.000
	--	FF1	10.67	637.04	4.43	1.37	Updated Stack Data Provided by Duke 7/03.	0.3	1.4	0.1		0.038	0.176	0.013
	Mesa 1 (Gobblers Knob)	2790	QM1_1	15.24	711.00	53.95	0.46	CT-2464	4.3	1.9		0.4	CT-2464	0.542
2790		QM1_2	15.24	711.00	53.95	0.46	CT-2464	4.3	1.9	0.4	0.542	0.239		0.050
3720		QM1_3	15.24	714.00	72.54	0.46	CT-2464	5.7	2.5	0.6	0.718	0.315		0.076
Mesa 2 (Gobblers Knob)	1860	QM2_1	15.24	718.00	41.15	0.46	CT-2465	2.9	1.2	0.2	CT-2465	0.365	0.151	0.025
	2790	QM2_2	15.24	711.00	53.95	0.46	CT-2465	4.3	1.8	0.4		0.542	0.227	0.050
Questar Pinedale (Gobblers Knob)	1860	QP1	15.24	711.00	53.95	0.46	CT-2466	2.9	2.4	0.4	CT-2466	0.365	0.302	0.050
	1860	QP2	15.24	711.00	53.95	0.46	CT-2466	2.9	2.4	0.4		0.365	0.302	0.050
	3720	QP3	15.24	714.00	72.54	0.46	CT-2466	5.7	2.5	0.5		0.718	0.315	0.063
	3720	QP4	15.24	714.00	72.54	0.46	CT-2466	5.7	2.5	0.5		0.718	0.315	0.063

Table D.1 (Continued)

Facility	Horsepower	Stack ID	Stack Parameters				Stack Parameter Source	Permitted / Projected			Emissions Source	Modeled		
			Height (m)	Temperature (K)	Velocity (m/s)	Diameter (m)		NO <sub>x</sub> (lb/hr)	CO (lb/hr)	Formaldehyde (lb/hr)		NO <sub>x</sub> (g/s)	CO (g/s)	Formaldehyde (g/s)
	2935	PC2	7.92	725.37	26.39	0.71	Updated Stack Data Provided by Duke 7/03.	4.5	1.9	0.5		0.567	0.239	0.063
	2935	PC3	7.92	725.37	26.39	0.71	Updated Stack Data Provided by Duke 7/03.	4.5	1.9	0.5		0.567	0.239	0.063
	2935	PC4	7.92	725.37	26.39	0.71	Updated Stack Data Provided by Duke 7/03.	4.5	1.9	0.5		0.567	0.239	0.063
	600	PG1	4.57	737.04	0.01	0.25	Updated Stack Data Provided by Duke 7/03.	0.8	0.4	0.1		0.101	0.050	0.006
	--	PF1	10.67	637.04	4.43	1.37	Updated Stack Data Provided by Duke 7/03.	0.3	1.4	0.1		0.038	0.176	0.013
Yellowpoint C.S.	1121	YC1	7.32	745.93	25.33	0.30	MD-412	2.47	7.41	0.16	MD-412 and Formaldehyde emissions calculated by TRC	0.311	0.934	0.020
Fontenelle C.S.		F1	10.36	819.80	50.60	0.34	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.610	0.610	0.020
		F2	10.36	819.80	50.60	0.34	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.610	0.610	0.020
		F3	10.36	688.70	55.17	0.46	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.610	0.610	0.020
		F4	10.36	844.80	29.90	0.31	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.380	0.380	0.020
		F5	10.36	844.80	29.90	0.31	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.380	0.380	0.020
		F6	13.72	877.04	42.06	0.31	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.305	0.305	0.020
		F7	13.72	877.04	42.06	0.31	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.305	0.305	0.020
		F8	13.72	877.04	42.06	0.31	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.305	0.305	0.070
		F9	13.72	877.04	42.06	0.31	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.305	0.305	0.070
Cow Hollow C.S.		CH1	6.10	658.71	37.61	0.31	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.610	0.610	0.050
		CH2	6.10	658.71	37.61	0.31	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.610	0.610	0.050
North Labarge C.S.		NL1	6.71	633.15	34.31	0.31	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.450	0.450	0.050
		NL2	6.71	633.15	34.31	0.31	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.450	0.450	0.050
		NL3	6.10	449.82	0.30	0.46	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.010	0.010	0.000
		NL4	6.10	449.82	0.30	0.46	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.010	0.010	0.000
Hogsback C.S.		H1	6.71	698.71	48.13	0.31	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.550	0.550	0.060
		H2									Jonah Modeling Completed by TRC in 2001	0.550	0.550	0.060
Labarge C.S.		WFS_L1	8.93	735.93	20.85	2.30	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	5.730	5.730	0.000
Birch Creek C.S.		BiC1	6.10	630.37	39.01	0.36	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.830	0.830	0.080
		BiC2	6.10	630.37	39.01	0.36	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.830	0.830	0.080
Cross Timbers Fontonelle C.S.		CT_F1	6.78	497.04	28.08	0.34	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.210	0.210	0.010
		CT_F2	6.65	513.71	33.88	0.34	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.420	0.420	0.020
		CT_F3	6.81	513.71	33.88	0.34	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.420	0.420	0.020
		CT_F4	7.11	541.48	34.29	0.43	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.250	0.250	0.030
		CT_F5	7.16	513.71	33.88	0.34	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.420	0.420	0.020
		CT_F6	7.14	513.71	33.88	0.34	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.420	0.420	0.020
		CT_F7	3.57	803.15	1.89	0.20	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.240	0.240	0.020
Big Piney C.S.		BP1	7.62	797.04	24.17	0.30	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	3.830	3.830	0.010
		BP2	7.62	797.04	24.17	0.30	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	3.830	3.830	0.010
		BP3	7.62	797.04	19.60	0.30	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.630	0.630	0.010
		BP4	7.62	797.04	19.60	0.30	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.630	0.630	0.010
		BP5	7.32	797.04	20.23	0.25	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	2.320	2.320	0.010
		BP6	7.32	797.04	20.23	0.25	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	2.320	2.320	0.010
		BP7	7.32	797.04	20.23	0.25	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	2.320	2.320	0.010
		BP8	7.32	797.04	20.23	0.25	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	2.320	2.320	0.010
		BP9	7.32	797.04	20.23	0.25	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	2.320	2.320	0.010
		BP10	7.62	797.04	29.35	0.30	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	4.650	4.650	0.010
		BP11	7.62	672.04	27.89	0.91	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	27.020	27.020	0.130
		BP12	9.14	657.59	26.79	0.30	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.420	0.420	0.050

Table D.1 (Continued)

Facility	Horsepower	Stack ID	Stack Parameters				Stack Parameter Source	Permitted / Projected			Emissions Source	Modeled		
			Height (m)	Temperature (K)	Velocity (m/s)	Diameter (m)		NO <sub>x</sub> (lb/hr)	CO (lb/hr)	Formaldehyde (lb/hr)		NO <sub>x</sub> (g/s)	CO (g/s)	Formaldehyde (g/s)
Dry Piney C.S.		BP13	9.14	657.59	26.79	0.30	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.420	0.420	0.050
		BP14	3.66	844.26	32.07	0.10	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.300	0.300	0.002
		BP15	10.36	725.93	58.26	0.88	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	2.290	2.290	0.020
		DP1	3.66	844.26	32.07	0.10	Historical Modeling Files				Jonah Modeling Completed by TRC in 2001	0.700	0.700	0.001
<b>Future Expansions</b>														
Bird Canyon C.S. <sup>1</sup>	3668	BCE1	12.19	726.48	29.75	0.71	Bird Canyon Permit File	5.70	2.40	0.65	Based on horsepower projected for expansion.			
	3668	BCE2	12.19	726.48	29.75	0.71	Bird Canyon Permit File	5.70	2.40	0.65	Based on horsepower projected for expansion.	0.713	0.255	0.082
	3668	BCE3	12.19	726.48	29.75	0.71	Bird Canyon Permit File	5.70	2.40	0.65	Based on horsepower projected for expansion.	0.713	0.255	0.082
Falcon C.S. <sup>1</sup>	3668	FCE1	7.92	725.37	26.39	0.71	Falcon Permit File	5.70	2.40	0.65	Based on horsepower projected for expansion.	0.713	0.255	0.082
	3668	FCE2	7.92	725.37	26.39	0.71	Falcon Permit File	5.70	2.40	0.65	Based on horsepower projected for expansion.	0.713	0.255	0.082
Gobblers Knob	3333	QME1	15.24	710.93	72.54	0.46	Gobblers Knobb Permit File	5.10	1.80	0.60	Based on horsepower projected for expansion.	0.648	0.231	0.074
	3333	QME2	15.24	710.93	41.15	0.46	Gobblers Knobb Permit File	5.10	1.80	0.60	Based on horsepower projected for expansion.	0.648	0.231	0.074
	3333	QPE1	15.24	710.93	53.95	0.46	Gobblers Knobb Permit File	5.10	1.80	0.60	Based on horsepower projected for expansion.	0.648	0.231	0.074
Jonah C.S. <sup>1</sup>	3900	JE1	7.62	903.71	28.66	0.406	Jonah Permit File	6.00	2.20	0.70	Based on horsepower projected for expansion.	0.758	0.271	0.087
Luman C.S. <sup>1</sup>	3668	LCE1	13.70	726.50	28.65	0.710	Luman Permit File	5.70	2.40	0.65	Based on horsepower projected for expansion.	0.713	0.255	0.082
	3668	LCE2	13.70	726.50	28.65	0.710	Luman Permit File	5.70	2.40	0.65	Based on horsepower projected for expansion.	0.713	0.255	0.082
	3668	LCE3	13.70	726.50	28.65	0.710	Luman Permit File	5.70	2.40	0.65	Based on horsepower projected for expansion.	0.713	0.255	0.082
	600	LGE1	10.00	642.00	47.56	0.203	Luman Permit File	1.30	1.30	0.11	Based on horsepower projected for expansion.	0.167	0.83	0.012
Paradise C.S.	3668	PCE1	7.92	725.37	26.39	0.710	Paradise Permit File	5.70	2.40	0.65	Based on horsepower projected for expansion.	0.713	0.255	0.082
	3668	PCE2	7.92	725.37	26.39	0.710	Paradise Permit File	5.70	2.40	0.65	Based on horsepower projected for expansion.	0.713	0.255	0.082

<sup>1</sup> Based on location, assumed to support the Jonah Infill Drilling Project.

