Forward Well Data for Selected Wells
July 2012 through September 2013

Name	Date Time	(% by vol)	Dioxide	(% by vol)	(% by vol)	(ppm)	Static	Static	Temp	Temp	Flow	(scfm)	Comments
F12-06	9/19/2013 14:06	59.7	38.6	0	1.7		-0.79	-0.8	126	126	27	27	No Change; Well bore seal okay
F12-07	9/11/2012 16:05	58.2	41.7	0	0.1		-0.3	-0.6	129	129	18	21	Opened valve 1/2 turn or less;
F12-08	8/22/2012 12:05	56.4	42.5	0	1.1	70	0.5	0.4	135	135			
F12-08	8/22/2012 12:07	56.1	42	0	1.9	70	-0.4	-0.6	140	139	16	16	Opened valve 1/2 turn or less;
F12-08	9/5/2012 15:09	56.5	43.4	0	0.1	60	-0.9	-1.2	145	145	27	20	Opened valve 1/2 turn or less;
F12-08	9/7/2012 10:00	58	41.4	0	0.6	45	-1.6	-1.6	145	145	22	22	
F12-08	9/7/2012 10:09	57.2	42.6	0	0.2	45	-0.1	-0.2	141	136			Closed valve 1/2 to 1 turn; Second
F12-08	9/24/2012 14:34	56.3	43.4	0.2	0.1		-0.1	-0.2	129	130	16	9	No Change; Well bore seal okay
F12-08	10/4/2012 15:49	56.5	43.4	0	0.1		-0.2	-0.2	129	129	11	11	No Change; Well bore seal okay
F12-08	10/24/2012 14:01	57.5	42.4	0	0.1		-0.1	-0.3	129	130	23	33	Opened valve 1/2 turn or less;
F12-08	11/8/2012 13:40	57.2	42.5	0.1	0.2		-0.4	-0.7	128	129	20	25	Opened valve 1/2 turn or less;
F12-08	11/26/2012 13:35	52.8	39.2	0.1	7.9		-0.9	-0.9	129	129	23	22	No Change; Well bore seal okay
F12-08	12/13/2012 12:09	52.7	39.6	0	7.7		-1.3	-1.2	128	128			No Change; Well bore seal okay
F12-08	12/31/2012 14:06	50.9	37	0.1	12		-1.9	-1.9	127	128	34	35	No Change; Well bore seal okay
F12-08	1/9/2013 10:20	50.1	37.4	0	12.5		-1.8	-2	128	129	18	26	Opened valve 1/2 turn or less;
F12-08	1/29/2013 15:39	48.7	36.8	0.2	14.3		-1.9	-1.9	129	129	22	25	No Change; Well bore seal okay
F12-08	2/12/2013 13:35	48.1	36.3	0	15.6	80	-1.5	-1.4	132	132	28	27	
F12-08	2/12/2013 13:37	46.8	36.4	0	16.8		-1.5	-1.5	131	132	27	26	No Change; Second Reading; Well
F12-08	2/25/2013 12:28	57.7	41.8	0	0.5		-0.3	-0.3	128	128	18	18	No Change; Well bore seal okay
F12-08	3/12/2013 12:30	55.6	41.2	0	3.2	100	-0.8	-0.7	136	136	20	20	
F12-08	3/12/2013 12:32	56.4	43.5	0	0.1	100	-0.2	-0.1	136	136	13	12	Closed valve 1/2 to 1 turn; Second
F12-08	4/2/2013 10:27	57.9	42.1	0	0		-0.18	-0.18	129	129	29	20	No Change; Well bore seal okay
F12-08	5/13/2013 14:33	59	41	0	0		-0.24	-0.23	129	129	16	15	No Change; Well bore seal okay
F12-08	5/29/2013 13:51	55.4	43.5	0	1.1		-0.31	-0.31	129	129	31	30	No Change; Well bore seal okay
F12-08	6/28/2013 12:19	57.6	41.3	0	1.1		0.02	0.03	127	127	21	21	Adjusted vacuum; inspected well
F12-08	7/11/2013 11:10	56.5	40.1	0.4	3		-0.35	-0.34	129	128	21	22	No Change; Well bore seal okay
F12-08	8/8/2013 14:01	57.3	42.7	0	0	60	-0.11	-0.13	134	134	15	14	
F12-08	8/8/2013 14:03	58	42	0	0	60	-0.61	-0.63	135	135	21	21	Opened valve 1/2 turn or less;
F12-08	8/21/2013 11:33	57.1	42.2	0	0.7		-0.93	-0.94	127	127	25	25	No Change; Well bore seal okay
F12-08	9/13/2013 18:15	54.4	39.2	0	6.4	80	-0.93	-0.93	138	138	22	22	
F12-08	9/13/2013 18:16	54.6	39.4	0	6		-0.1	-0.1	126	126	23	23	No Change; Second Reading; Well
F12-08	9/13/2013 18:16	54.6	39.4	0	6	80	-0.95	-0.95	139	139	23	23	No Change; Second Reading; Well
F12-08	9/19/2013 14:11	50	39.2	0	10.8	90	-0.94	-0.93	132	138	26	26	No Change; Well bore seal okay
F12-09	8/22/2012 12:11	54.7	41.6	0	3.7	70	-0.3	-0.3	130	131			
F12-09	8/22/2012 12:13	54.5	42.5	0.1	2.9		-0.2	-0.2	131	131			No Change; Second Reading; Well
F12-09	9/5/2012 15:05	55.1	44.4	0	0.5	40	-0.5	-1	135	135			Opened valve 1/2 turn or less;
F12-09	9/7/2012 9:46	56.8	43.1	0	0.1	52	-1.9	-1.9	137	132	3	4	
F12-09	9/7/2012 9:49	57.2	42.7	0	0.1	52	-0.6	-0.3	132	136			Closed valve 1/2 to 1 turn; Second
F12-09	9/24/2012 14:37	55.7	43.8	0.2	0.3		-0.2	-0.2	126	128	32	33	No Change; Well bore seal okay
F12-09	10/4/2012 15:53	56.6	43.3	0	0.1		-1.2	-1.2	129	129	8	7	No Change; Well bore seal okay
F12-09	10/24/2012 14:05	55.4	42.5	0	2.1		-1	-1	126	127	11	11	No Change; Well bore seal okay
F12-09	11/26/2012 13:38	54.1	41	0	4.9		-1.6	-1.6	128	128	32	31	No Change; Well bore seal okay
F12-09	12/13/2012 12:14	52.4	40.8	0	6.8		-1.9	-1.9	126	126			No Change; Well bore seal okay
F12-09	12/31/2012 14:09	47.2	37.9	0	14.9		-2.4	-2.4	127	127	35	36	No Change; Well bore seal okay
F12-09	1/29/2013 15:42	51	38.5	0.2	10.3		-2.2	-2.2	125	126	17	17	No Change; Well bore seal okay
F12-09	3/12/2013 12:36	54.9	43.8	0	1.3		-1.1	-1.1	127	128	12	11	No Change; Well bore seal okay
F12-09	4/2/2013 10:33	52.8	41.8	0	5.4		-1.94	-1.93	127	128			No Change; Well bore seal okay
F12-09	5/13/2013 14:37	59.5	40.5	0	0		-1.43	-1.45	129	129	12	13	No Change; Well bore seal okay
F12-09	5/29/2013 13:54	50.4	42.3	0	7.3		-1.45	-1.45	128	128	13	13	No Change; Well bore seal okay

Forward Well Data for Selected Wells
July 2012 through September 2013

Name	Date Time	(% by vol)	Dioxide	(% by vol)	(% by vol)	(ppm)	Static	Static	Temp	Temp	Flow	(scfm)	Comments
F12-09	6/12/2013 15:18	56.5	41.4	0	2.1		-1.1	-1.09	129	129			No Change; Well bore seal okay
F12-09	7/11/2013 10:50	54.5	41.6	0	3.9		-1.06	-1.06	128	128	27	27	No Change; Well bore seal okay
F12-09	7/19/2013 11:42	54.8	42.9	0	2.3		-0.93	-0.93	128	128	16	16	No Change; Well bore seal okay
F12-09	8/8/2013 14:08	54.5	42.2	0	3.3		-0.57	-0.58	129	129	22	22	No Change; Well bore seal okay
F12-09	8/21/2013 11:12	50.9	41.5	0	7.6		-2.2	-2.21	128	128	20	21	No Change; Well bore seal okay
F12-09	9/13/2013 18:20	49.3	38.2	0	12.5		-2.04	-2.04	129	129	19	19	No Change; Well bore seal okay
F12-09	9/19/2013 13:56	44.3	38.3	0	17.4		-2.06	-2.07	128	128	19	19	No Change; Well bore seal okay
F12-10	8/22/2012 12:17	55.9	41.9	0	2.2	60	0	0	131	131	12	13	
F12-10	8/22/2012 12:19	55.8	41.4	0.1	2.7		-0.4	-0.4	134	133	23	23	Opened valve 1/2 turn or less;
F12-10	9/5/2012 15:14	55.5	43.7	0	0.8	30	-0.9	-1.1	136	137	4	21	Opened valve 1/2 turn or less;
F12-10	9/7/2012 10:52	56.1	40.7	0.1	3.1	42	-1.2	-1.2	126	126			
F12-10	9/7/2012 10:56	55.9	42.1	0	2	42	-0.2	-0.2	129	127			Closed valve 1/2 to 1 turn; Second
F12-10	9/24/2012 14:40	56.1	43.5	0.3	0.1		-0.1	-0.1	125	126	28	27	No Change; Well bore seal okay
F12-10	10/4/2012 15:56	56.8	43.1	0	0.1		-0.4	-0.5	127	128	21	26	Opened valve 1/2 turn or less;
F12-10	10/24/2012 14:09	52.1	42.3	0	5.6		-0.5	-0.5	127	127	13	13	No Change; Well bore seal okay
F12-10	11/26/2012 13:42	53.8	41.5	0	4.7		-0.5	-0.6	127	127	24	28	Opened valve 1/2 turn or less;
F12-10	12/31/2012 14:16	53.5	40.3	0	6.2		-0.9	-0.9	125	125	19	19	No Change; Well bore seal okay
F12-10	3/12/2013 12:44	52	47.9	0	0.1		-0.4	-0.4	126	127	20	21	No Change; Well bore seal okay
F12-10	5/13/2013 14:54	57.2	42.8	0	0		-0.41	-0.41	129	129	38	38	No Change; Well bore seal okay
F12-10	5/29/2013 13:56	53.5	43.7	0	2.8		-0.47	-0.46	127	128	9	9	No Change; Well bore seal okay
F12-10	6/12/2013 15:22	57	43	0	0		-4.79	-0.17	129	129	30	30	No Change; Well bore seal okay
F12-10	6/28/2013 11:47	56.7	42.4	0	0.9		-0.09	-0.09	128	129	15	15	No Change; Well bore seal okay
F12-10	7/11/2013 10:43	57.1	42.4	0	0.5		-0.31	-0.31	126	127	35	35	No Change; Well bore seal okay
F12-10	7/19/2013 11:19	56.8	43	0	0.2		-0.19	-0.18	128	128	16	16	No Change; Well bore seal okay
F12-10	8/8/2013 14:12	56.5	43.5	0	0		-0.1	-0.15	129	129	35		Opened valve 1/2 turn or less;
F12-10	8/21/2013 11:05	55.7	43.9	0	0.4		-0.57	-0.57	127	128	40	39	No Change; Well bore seal okay
F12-10	9/13/2013 18:22	53.5	41	0	5.5		-0.61	-0.61	128	128	29	29	No Change; Well bore seal okay
F12-10	9/19/2013 13:49	48.2	41.1	0	10.7		-0.51	-0.51	128	128	37	37	No Change; Well bore seal okay
F12-11	8/22/2012 12:25	57.1	41.4	0.1	1.4		-0.2	-0.2	126	126	19	20	Opened valve 1/2 turn or less;
F12-11	9/11/2012 16:10	56.5	43.2	0.1	0.2		-0.4	-0.6	129	129	26	25	Opened valve 1/2 turn or less;
F12-11	9/24/2012 14:43	56.4	43.3	0.2	0.1		-0.7	-0.8	126	127	24	26	Opened valve 1/2 turn or less;
F12-11	10/4/2012 15:59	56.2	43.7	0	0.1		-1.1	-1.2	127	127	25	27	Opened valve 1/2 turn or less;
F12-11	10/24/2012 14:12	52.3	42	0	5.7		-1.2	-1.2	126	126	30	30	No Change; Well bore seal okay
F12-11	11/8/2012 13:59	51.5	42.1	0.1	6.3		-1.4	-1.4	125	125	30	30	No Change; Well bore seal okay
F12-11	11/26/2012 13:45	51.5	40.1	0	8.4		-1.2	-1.2	127	127	28	28	No Change; Well bore seal okay
F12-11	12/13/2012 12:20	51.8	40.5	0	7.7		-1.1	-1.2	126	127	33	33	No Change; Well bore seal okay
F12-11	12/31/2012 14:13	50.5	39.1	0	10.4		-1.3	-1.3	128	128	25	24	No Change; Well bore seal okay
F12-11	1/9/2013 10:31	50.4	38.7	0	10.9		-1.4	-1.5	127	127	15	18	Opened valve 1/2 turn or less;
F12-11	1/29/2013 15:45	51.7	38.6	0.2	9.5		-1.6	-1.6	128	128	17	20	No Change; Well bore seal okay
F12-11	3/12/2013 12:40	55.3	44.4	0	0.3		-0.7	-0.8	128	129	38	38	No Change; Well bore seal okay
F12-11	4/2/2013 10:40	56.4	42.5	0	1.1		-0.53	-0.51	128	128	14	13	No Change; Well bore seal okay
F12-11	5/13/2013 14:57	57.7	42.3	0	0		-0.31	-0.33	128	128	38	31	No Change; Well bore seal okay
F12-11	5/29/2013 13:59	53.9	43.1	0	3		-0.45	-0.45	128	128	14	14	No Change; Well bore seal okay
F12-11	6/12/2013 15:24	58	42	0	0		-0.11	-0.09	129	129			No Change; Well bore seal okay
F12-11	7/11/2013 10:46	57	42	0	1		-0.53	-0.53	128	128	33	33	No Change; Well bore seal okay
F12-11	7/19/2013 11:22	56.8	42.4	0	0.8		-0.37	-0.37	128	129	20	20	No Change; Well bore seal okay
F12-11	8/8/2013 14:15	57.1	42.9	0	0		-0.17	-0.17	129	129	37	16	No Change; Well bore seal okay
F12-11	8/21/2013 11:08	56.4	43.6	0	0		-0.68	-0.69	128	129	22	22	No Change; Well bore seal okay
F12-11	9/13/2013 18:24	58.2	41.5	0	0.3		-0.65	-0.65	130	130	18	18	No Change; Well bore seal okay

Forward Well Data for Selected Wells
July 2012 through September 2013

Name	Date Time	(% by vol)	Dioxide	(% by vol)	(% by vol)	(ppm)	Static	Static	Temp	Temp	Flow	(scfm)	Comments
F12-11	9/19/2013 13:52	54.5	42.4	0	3.1		-0.57	-0.55	130	130	21	21	No Change; Well bore seal okay
FOFU03-01R(Interim Temp)	6/15/2012 13:21	52.8	37.6	0.2	9.4	90	-0.5	-0.5	131	131	26	25	No Change; Well bore seal okay
FOFU03-01R(Interim Temp)	6/27/2012 11:11	51	41.1	0.6	7.3		-0.6	-0.7	129	129	32	32	No Change; Well bore seal okay
FOFU03-01R(Interim Temp)	7/3/2012 13:35	56.4	40.6	0	3		-0.2	-0.3	130	130	29	31	No Change; Well bore seal okay
FOFU03-01R(Interim Temp)	8/7/2012 17:02	54.5	45.2	0.2	0.1	90	-0.1	-0.4	130	130	34	37	Opened valve 1/2 turn or less;
FOFU03-01R(Interim Temp)	8/28/2012 14:56	52.2	47.5	0.2	0.1		-0.4	-0.4	128	128	14	14	No Change; Well bore seal okay
FOFU03-01R(Interim Temp)	9/10/2012 12:57	48.9	49.7	0	1.4		-0.6	-0.6	130	130	35	16	No Change; Well bore seal okay
FOFU03-01R(Interim Temp)	6/28/2013 14:28	54.4	44.2	0	1.4		-0.29	-0.29	127	127	20	20	No Change; Well bore seal okay
FOFU03-01R(Interim Temp)	7/30/2013 14:36	51.4	42.3	0.1	6.2		-0.56	-0.59	125	125	14	15	No Change; Well bore seal okay
FOFU03-01R(Interim Temp)	8/28/2013 15:58	53.7	43.9	0	2.4		-0.63	-0.63	126	126	23	23	No Change; Well bore seal okay
FOFU03-01R(Interim Temp)	9/6/2013 15:20	53.1	44.4	0.2	2.3		-0.54	-0.53	127	127	17	17	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	6/15/2012 13:30	53.1	40	0	6.9	110	-0.5	-0.5	136	136	17	17	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	6/28/2012 15:38	49.3	41.1	0	9.6	120	-0.4	0.4	135	135	14	14	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	7/3/2012 13:42	54.9	42	0	3.1	100	-0.4	-0.5	137	137	29	30	Opened valve 1/2 turn or less;
FOFU04-14R(Interim Temp)	7/20/2012 14:51	53.3	41.3	0.3	5.1	150	-0.6	-0.7	136	135			No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	8/17/2012 11:14	55.9	44	0	0.1	80	-0.3	-0.3	137	138			No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	8/28/2012 15:03	54.8	45	0.1	0.1	110	-0.1	-0.3	137	137	6	14	Opened valve 1/2 turn or less;
FOFU04-14R(Interim Temp)	9/10/2012 13:06	52.5	45.4	0	2.1	90	-1	-1	138	138	20	23	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	9/19/2012 12:25	51	48.6	0	0.4	100	-0.9	-0.9	131	131	25	24	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	10/5/2012 10:17	51.3	48.6	0	0.1	70	-1.6	-1.6	130	130	25	26	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	10/31/2012 11:02	50.8	49.1	0	0.1		-1.3	-1.3	129	129	21	22	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	11/8/2012 11:22	49.7	48.2	0	2.1		-1.6	-1.6	128	128	22	25	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	11/28/2012 10:07	52.9	47	0	0.1		-1.3	-1.3	128	128	24	26	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	12/13/2012 15:27	53.8	46.1	0	0.1		-1.2	-1.3	130	130	22	22	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	12/31/2012 16:40	54.6	45.3	0	0.1	90	-1.8	-1.7	130	131	29	26	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	1/10/2013 11:49	55.5	44.4	0	0.1		-1.7	-1.9	129	130	27	27	Opened valve 1/2 turn or less;
FOFU04-14R(Interim Temp)	1/29/2013 13:07	54.4	45.5	0	0.1		-1.7	-1.6	128	128	27	26	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	2/13/2013 14:23	53.6	45.9	0.3	0.2	100	-0.7	-0.7	132	133	21	21	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	2/26/2013 13:43	55.7	44.2	0	0.1	80	-0.4	-0.4	132	132	16	18	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	3/5/2013 11:06	54.7	43.3	0	2	140	-0.6	-0.6	132	133	17	15	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	3/14/2013 11:10	56.4	43.6	0	0	100	-0.33	-0.31	133	133			No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	4/15/2013 9:01	54.2	45.7	0.1	0	70	-1.24	-1.25	132	132			No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	4/27/2013 13:39	55.5	44.5	0	0	70	-0.12	-0.13	134	135	29	28	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	5/7/2013 10:08	54.5	45.5	0	0	90	-1.87	-1.87	133	133	25	25	No Change; No Change; Well bore
FOFU04-14R(Interim Temp)	5/29/2013 7:03	54	45.8	0.2	0	70	-1	-0.99	132	132	32	32	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	6/7/2013 13:05	56.1	43.9	0	0	170	-0.43	-0.41	135	136	19	19	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	6/28/2013 14:32	55.2	44.8	0	0	160	-0.12	-0.12	137	137	28	17	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	7/11/2013 11:07	54.1	45.9	0	0	100	-0.61	-0.61	135	135	23	23	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	7/30/2013 14:42	55.8	44.2	0	0	140	-0.49	-0.48	135	135	18	27	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	8/8/2013 11:44	54.8	45.2	0	0	90	-0.52	-0.53	135	134	20	19	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	8/28/2013 16:05	56.2	43.8	0	0	180	-0.39	-0.39	136	136	22	22	No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	9/6/2013 15:27	55.5	44.5	0.1		180	-0.12	-0.12	137	137			No Change; Well bore seal okay
FOFU04-14R(Interim Temp)	9/24/2013 14:45	55.7	44.3	0	0	120	-0.14	-0.16	135	135			No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	6/15/2012 13:26	52.5	40.4	0.4	6.7	180	-0.2	-0.3	138	138	22	22	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	6/28/2012 15:35	48.2	42.9	0.7	8.2	90	-0.2	-0.1	136	137	16	16	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	7/3/2012 13:39	56	43.1	0	0.9	70	-0.2	-0.3	139	139	38	38	Opened valve 1/2 turn or less;
FOFU04-15R(Interim Temp)	8/17/2012 11:10	54.7	43.5	0	1.8	70	-0.2	-0.3	137	136			No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	8/28/2012 14:59	54.7	45.1	0	0.2	140	-1.2	-1.2	138	138	30	30	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	9/10/2012 13:01	53.6	45.5	0	0.9	80	-1.7	-1.8	139	139	33	33	No Change; Well bore seal okay

Forward Well Data for Selected Wells
July 2012 through September 2013

Name	Date Time	(% by vol)	Dioxide	(% by vol)	(% by vol)	(ppm)	Static	Static	Temp	Temp	Flow	(scfm)	Comments
FOFU04-15R(Interim Temp)	9/19/2012 12:23	51.7	46.6	0	1.7	110	-1.8	-1.8	133	133	32	32	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	10/5/2012 10:11	52.2	47.7	0	0.1	80	-2.5	-2.5	131	131	31	31	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	10/31/2012 10:59	48.8	51.1	0	0.1		-2.3	-2.4	129	128	33	32	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	11/8/2012 11:19	46.3	50.9	0	2.8		-2.7	-2.7	129	129	33	32	No Change
FOFU04-15R(Interim Temp)	11/28/2012 10:04	49.3	50.6	0	0.1		-1.5	-1.6	127	127	25	25	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	12/13/2012 15:30	51.9	48	0	0.1		-1.5	-1.5	129	129	25	25	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	12/31/2012 16:37	51.3	48.5	0	0.2		-2.2	-2.2	129	129	27	28	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	1/10/2013 11:52	51.8	47.8	0	0.4		-2.3	-2.2	127	128	26	25	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	1/29/2013 13:05	50	48.6	0	1.4		-1.7	-1.8	128	128	24	25	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	2/13/2013 14:20	49.2	48.2	0.3	2.3	100	-0.7	-0.8	131	132	20	18	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	2/26/2013 13:39	53.7	46.2	0	0.1	80	-0.5	-0.4	133	132	17	15	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	3/5/2013 11:01	51.9	45	0	3.1	90	-0.6	-0.7	132	132	33	33	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	3/14/2013 11:04	55.4	44.6	0	0	90	-0.13	-0.15	136	136			No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	4/15/2013 8:53	54.4	45.6	0	0	80	-1.3	-1.3	131	131			No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	4/27/2013 13:34	55.1	44.9	0	0	80	-0.14	-0.16	134	135	30	29	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	5/7/2013 10:04	54.2	45.8	0	0	90	-2.07	-2.08	133	133	27	26	No Change; No Change; Well bore
FOFU04-15R(Interim Temp)	5/29/2013 6:59	53.7	46.1	0.2		70	-0.95	-0.97	133	133	17	17	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	6/7/2013 13:01	56.6	43.2	0.2		130	-0.24	-0.26	138	138	30	30	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	6/28/2013 14:30	56.1	43.9	0	0	120	-0.21	-0.19	139	139	20		No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	7/11/2013 11:04	54	46	0	0	120	-0.52	-0.51	138	138	19	19	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	7/30/2013 14:38	55.9	44.1	0	0	120	-0.53	-0.53	137	137	29	29	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	8/8/2013 11:39	54.8	45.2	0	0	100	-0.57	-0.56	137	138	16	16	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	8/28/2013 16:01	56.2	43.8	0	0	170	-0.36	-0.36	139	139	27	27	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	9/6/2013 15:23	55.2	44.7	0.1	0	160	-0.12	-0.13	139	139	19	20	No Change; Well bore seal okay
FOFU04-15R(Interim Temp)	9/24/2013 14:41	55.5	44.5	0	0	110	-0.47	-0.47	137	138	21	21	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	6/15/2012 13:35	50.9	40	0	9.1	130	-0.4	-0.4	132	132	21	22	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	6/28/2012 15:42	48.7	41.6	0	9.7	70	-0.3	-0.3	132	132	32	32	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	7/3/2012 13:46	54.1	42.1	0	3.8	70	-0.3	-0.3	133	133	28	28	Opened valve 1/2 turn or less;
FOFU04-18R(Interim Temp)	7/20/2012 14:55	52.8	41.6	0.2	5.4	130	-0.5	-0.5	133	132			No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	9/7/2012 12:39	56.8	42.9	0.1	0.2	70	-0.9	-0.9	131	131	13	12	Well back online (offline for filling
FOFU04-18R(Interim Temp)	9/19/2012 12:32	51.7	46.9	0	1.4		-0.9	-0.9	129	129	23	21	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	10/5/2012 10:28	49.3	50.6	0	0.1		-1.5	-1.5	127	127	26	26	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	10/31/2012 11:07	44.7	55.2	0	0.1		-1.3	-1.3	127	127	18	17	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	11/8/2012 11:29	43.3	53.9	0	2.8		-1.6	-1.5	126	126	23	21	Closed valve 1/2 turn or less; Well
FOFU04-18R(Interim Temp)	12/13/2012 15:21	49.2	50.7	0	0.1		-0.9	-0.9	126	127	21	20	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	12/31/2012 16:43	50.6	49.3	0	0.1		-1.4	-1.5	126	126	23	23	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	1/10/2013 11:40	50.6	48.5	0	0.9		-1.5	-1.5	125	125	20	19	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	1/29/2013 13:13	49.9	50	0	0.1		-0.8	-0.8	126	126	17	17	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	2/13/2013 14:33	48.5	48.9	0.3	2.3		-0.2	-0.2	128	129			No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	2/26/2013 13:51	52.7	47	0	0.3		-0.1	-0.1	125	127			No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	3/5/2013 11:14	50.5	45.9	0	3.6		-0.5	-0.5	129	129	15		No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	3/14/2013 11:21	54.1	45.9	0	0		-0.18	-0.18	130	130	15	15	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	4/15/2013 9:08	52.5	47.5	0	0		-1.16	-1.16	127	128	25	14	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	4/27/2013 13:45	53.6	46.4	0	0	70	-0.11	-0.12	131	131	27	27	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	5/7/2013 10:15	53	47	0	0		-1.17	-1.16	129	129	30	37	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	5/29/2013 7:13	52.1	47.8	0.2			-0.52	-0.53	127	127	33	33	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	6/6/2013 13:22	52.6	45.4	0	2	170	-0.13	-0.16	130	132	30	25	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	6/28/2013 14:38	53.3	46.7	0	0	160	-0.17	-0.17	135	135	37	37	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	7/11/2013 11:15	52.7	47.3	0	0	70	-0.52	-0.54	131	132	36	36	No Change; Well bore seal okay

Forward Well Data for Selected Wells
July 2012 through September 2013

Name	Date Time	(% by vol)	Dioxide	(% by vol)	(% by vol)	(ppm)	Static	Static	Temp	Temp	Flow	(scfm)	Comments
FOFU04-18R(Interim Temp)	7/30/2013 14:49	54.1	45.9	0	0	80	-0.69	-0.65	133	133	35	35	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	8/8/2013 11:52	53.2	46.8	0	0	90	-0.58	-0.57	133	133	36	36	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	8/28/2013 16:12	55	45	0	0	150	-0.45	-0.45	135	135	23	23	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	9/6/2013 15:34	54.1	45.8	0.1	0	140	-0.11	-0.11	135	135	29	29	No Change; Well bore seal okay
FOFU04-18R(Interim Temp)	9/24/2013 14:57	54.1	45.9	0	0	80	-0.35	-0.36	133	133	30	14	No Change; Well bore seal okay
FOFU04-19R	6/7/2012 9:01	39.4	35.3	0	25.3	70	-0.4	-0.4	131	131	8	7	
FOFU04-19R	6/7/2012 9:03	39.3	35.7	0	25	70	-0.4	-0.4	132	131	33	33	No Change; Second Reading; Well
FOFU04-19R	6/22/2012 11:14	44.5	37.3	0	18.2	40	-0.4	-0.5	133	133	19	19	
FOFU04-19R	6/22/2012 11:16	44.9	36.4	0	18.7	40	-0.4	-0.4	133	133	36	36	No Change; Second Reading; Well
FOFU04-19R	6/28/2012 15:45	42.3	39.7	0	18	100	-0.2	-0.2	134	134	11	11	No Change; Well bore seal okay
FOFU04-19R	7/3/2012 13:50	47.3	39.6	0	13.1	90	-0.2	-0.2	136	136	34	30	Opened valve 1/2 turn or less;
FOFU04-19R	7/20/2012 14:59	46	39	0.1	14.9	170	-0.4	-0.4	135	135			
FOFU04-19R	7/20/2012 15:01	45.9	38.6	0.2	15.3	170	-0.4	-0.4	135	135			No Change; Second Reading; Well
FOFU04-19R	9/10/2012 13:10	55.4	41.8	0	2.8	80	-0.5	-0.5	138	138	21	19	
FOFU04-19R	9/10/2012 13:12	56.2	42.1	0	1.7	80	-0.7	-0.7	138	139	24	23	Opened valve 1/2 turn or less;
FOFU04-19R	9/19/2012 12:35	49.2	47.8	0.1	2.9		-0.7	-0.7	128	129	24	24	No Change; Well bore seal okay
FOFU04-19R	10/5/2012 10:21	49.3	50.4	0	0.3		-1.3	-1.3	129	129	26	24	No Change; Well bore seal okay
FOFU04-19R	10/31/2012 11:05	47.6	52.2	0	0.2		-1	-1	129	129	24	25	No Change; Well bore seal okay
FOFU04-19R	11/8/2012 11:25	46.4	50.8	0	2.8		-1.4	-1.3	129	129	26	24	Closed valve 1/2 turn or less; Well
FOFU04-19R	11/28/2012 10:10	49.3	50.6	0	0.1		-0.7	-0.7	127	128	26	25	No Change; Well bore seal okay
FOFU04-19R	12/13/2012 15:24	51.4	48.5	0	0.1		-0.8	-0.8	129	130			No Change; Well bore seal okay
FOFU04-19R	12/31/2012 16:46	52	47.9	0	0.1		-1.2	-1.2	130	129	24	24	No Change; Well bore seal okay
FOFU04-19R	1/10/2013 11:45	53.2	46.7	0	0.1		-1.2	-1.3	129	129	22	22	No Change; Well bore seal okay
FOFU04-19R	1/29/2013 13:10	52.1	47.8	0	0.1		-0.7	-0.7	129	129	23	22	No Change; Well bore seal okay
FOFU04-19R	2/13/2013 14:28	50.7	47.8	0.3	1.2	80	-0.2	-0.3	134	135	22	22	
FOFU04-19R	2/13/2013 14:29	50.1	46.4	0.3	3.2		-0.3	-0.3	135	135	6	8	No Change; Second Reading; Well
FOFU04-19R	2/26/2013 13:46	53	46.7	0	0.3	100	-0.1	-0.2	141	141	14	12	No Change; Well bore seal okay
FOFU04-19R	3/5/2013 11:10	51.4	45.3	0	3.3	120	-0.3	-0.5	132	133	13	19	Opened valve 1/2 turn or less;
FOFU04-19R	3/14/2013 11:14	54.6	45.4	0	0	80	-0.43	-0.42	133	133	21	21	
FOFU04-19R	3/14/2013 11:16	54.6	45.4	0	0	80	-0.32	-0.34	133	133	34	34	No Change; Second Reading; Well
FOFU04-19R	3/29/2013 15:29	52.8	47.2	0	0	70	-0.13	-0.14	136	136	31	29	No Change; Well bore seal okay
FOFU04-19R	4/15/2013 9:05	52.3	47.7	0	0		-1.91	-1.9	129	129	30	30	No Change; Well bore seal okay
FOFU04-19R	4/27/2013 13:43	53.4	46.6	0	0		-0.84	-0.84	129	129	24	23	No Change; Well bore seal okay
FOFU04-19R	5/7/2013 10:12	52.6	47.4	0	0		-1.97	-1.97	129	129	32	33	No Change; Well bore seal okay
FOFU04-19R	5/29/2013 7:07	50.9	48.9	0.2	0	80	-1.12	-1.13	134	134	23	23	
FOFU04-19R	5/29/2013 7:09	51.1	48.8	0.2			-0.78	-0.77	132	132			Closed valve 1/2 turn or less;
FOFU04-19R	6/6/2013 13:13	52.1	45.3	0	2.6	190	0.18	0.34	135	139	18	33	
FOFU04-19R	6/6/2013 13:19	52	45.6	0	2.4	190	-0.13	-0.12	135	137	28	28	Closed valve 1/2 turn or less;
FOFU04-19R	6/28/2013 14:35	54	46	0	0	180	-0.47	-0.46	139	138	23	23	
FOFU04-19R	6/28/2013 14:36	53.9	46.1	0	0	180	-0.41	-0.41	139	139	21	21	Adjusted vacuum; inspected well
FOFU04-19R	7/11/2013 11:11	52.3	45.7	0.1	1.9	90	-0.84	-0.84	136	136	27	28	Adjusted vacuum; inspected well
FOFU04-19R	7/30/2013 14:45	54.1	45.5	0	0.4	100	-0.62	-0.62	137	137	18	19	Adjusted vacuum; inspected well
FOFU04-19R	8/8/2013 11:49	53.2	46.8	0	0	70	-0.8	-0.8	137	137	21	21	Adjusted vacuum; inspected well
FOFU04-19R	8/28/2013 16:09	55.8	44.2	0	0	90	-0.7	-0.69	138	138	23	23	Adjusted vacuum; inspected well
FOFU04-19R	9/6/2013 15:31	54.3	45.7	0.1		100	-0.32	-0.32	139	139	23	23	No Change; Well bore seal okay
FOFU04-19R	9/24/2013 14:49	54.7	45.3	0	0	100	-0.43	-0.43	137	134	23	23	
FOFU04-19R	9/24/2013 14:53	55	45	0	0		-0.13	-0.14	130	129	15		Closed valve 1/2 turn or less; Second Reading; Well bore seal okay

Forward Well Data for Selected Wells
July 2012 through September 2013

Name	Date Time	(% by vol)	Dioxide	(% by vol)	(% by vol)	(ppm)	Static	Static	Temp	Temp	Flow	(scfm)	Comments
FOFU04-27R(Interim Temp)	6/7/2012 9:50	47	39.4	0.3	13.3	50	-2.5	-2.4	136	136	15	14	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	6/28/2012 15:49	46.6	38.6	0	14.8	110	-1.8	-1.8	137	137	10	10	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	7/3/2012 13:54	51.1	39.9	0	9	130	-1.7	-1.8	138	138	31	34	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	7/20/2012 15:05	49.5	39.8	0.2	10.5	150	-1.9	-1.9	138	138			No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	8/7/2012 17:08	51.7	43.6	0.1	4.6	170	-1.7	-1.7	137	138	44	42	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	8/28/2012 15:20	52.8	40.3	0.2	6.7	160	-1.5	-1.5	138	136	31	19	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	9/10/2012 13:17	50	39.9	0	10.1	160	-2.2	-2.2	136	136	14	13	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	9/19/2012 12:38	49.4	40.6	0	10	180	-2.7	-2.7	136	136	42	42	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	10/5/2012 10:31	52	43.2	0	4.8	80	-3	-3	134	135	17	18	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	10/31/2012 11:11	51.8	47.9	0.1	0.2		-2.6	-3	128	129	16	40	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	11/8/2012 11:31	48.4	46.7	0	4.9	110	-2.9	-2.9	135	136	19	19	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	11/28/2012 10:16	52	47.9	0	0.1	120	-2	-2	134	134			No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	12/13/2012 15:13	54.4	45.5	0	0.1	130	-2.6	-2.6	136	136	18	18	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	12/31/2012 16:56	54.3	45.6	0	0.1	125	-3	-3	136	137	20	19	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	1/10/2013 11:32	56	43	0	1	120	-3.1	-3.1	136	136	10	20	Opened valve 1/2 turn or less;
FOFU04-27R(Interim Temp)	1/29/2013 13:16	54.8	45.1	0	0.1	100	-2.8	-2.8	136	137	18	17	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	2/13/2013 14:39	51	44.7	0.2	4.1	120	-1.6	-1.6	137	138	17	16	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	2/26/2013 13:57	54	44.1	0	1.9	120	-1.3	-1.2	136	136	22	24	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	3/5/2013 11:22	51.7	43	0	5.3	120	-1.5	-1.5	138	138	12	13	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	3/14/2013 11:29	54.7	45.3	0	0	140	-0.89	-0.87	137	138	13	13	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	4/15/2013 9:37	54.8	45.1	0	0.1	110	-2.29	-2.26	138	138	16	16	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	4/27/2013 13:52	56.3	43.7	0	0	100	-1.04	-1.04	137	137	12	11	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	5/7/2013 10:23	55.7	44.3	0	0	120	-2.09	-2.09	137	137	18	17	No Change; No Change; Well bore
FOFU04-27R(Interim Temp)	5/29/2013 7:19	54.9	45	0.2		100	-1.57	-1.58	138	138	23	23	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	6/7/2013 13:16	56.9	43.1	0	0	180	-0.69	-0.71	136	135	8	11	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	6/28/2013 14:43	56.9	43.1	0	0	170	-0.56	-0.56	136	136	14	14	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	7/11/2013 11:23	55.4	42.9	0	1.7	100	-1.08	-1.05	138	139	18	18	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	7/30/2013 14:57	56.6	42.3	0	1.1	130	-0.73	-0.75	138	138	14	25	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	8/8/2013 12:01	56.1	43.9	0	0	120	-0.85	-0.86	139	139	21	21	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	8/28/2013 16:20	57.6	42.4	0	0	160	-0.92	-0.91	138	139	18	19	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	9/6/2013 15:41	56.5	43.5	0	0	160	-0.62	-0.62	138	139	15	15	No Change; Well bore seal okay
FOFU04-27R(Interim Temp)	9/24/2013 15:05	56.4	43.6	0	0	120	-0.86	-0.86	139	139	31	31	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	6/7/2012 9:44	46.8	40	0.3	12.9	90	-4.2	-4.3	131	131	33	32	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	6/28/2012 15:52	48.3	42.2	0	9.5	160	-3.4	-3.4	132	132	27	27	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	7/3/2012 14:00	52.7	41.9	0	5.4	100	-3.3	-3.2	133	133	40	38	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	7/20/2012 15:10	51.5	41.2	0.1	7.2	140	-3.3	-3.2	133	132	30	30	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	8/7/2012 17:12	53.9	46	0	0.1	160	-3.1	-3.1	134	135	35	36	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	8/28/2012 15:09	53.6	41.4	0.1	4.9	150	-3	-3.1	135	133	27	27	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	9/10/2012 13:26	51.5	41.5	0	7	120	-4.2	-4.2	138	138	31	31	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	9/19/2012 12:42	49.8	43	0	7.2		-3.9	-3.9	129	129	39	39	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	10/5/2012 10:35	51.5	42.6	0	5.9		-4.7	-4.6	129	130	33	32	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	10/31/2012 11:13	47.3	43	0	9.7		-4.3	-4.3	129	128	33	30	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	11/8/2012 11:37	43.1	42.7	0	14.2	120	-4.6	-4.2	131	131	30	21	Closed valve 1/2 turn or less; Well
FOFU05-08R(Interim Temp)	11/28/2012 10:23	48	43.5	0	8.5		-3	-2.9	128	129	25	26	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	12/13/2012 14:58	48.8	42.3	0	8.9		-3.1	-3.1	130	130	23	24	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	12/31/2012 16:51	48	41.4	0	10.6		-3.5	-3.5	130	130	25	24	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	1/10/2013 11:26	47.3	40.3	0	12.4		-3.8	-3.8	129	129	23	23	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	1/29/2013 13:22	47.3	40.9	0	11.8	80	-3.4	-3.4	130	131	24	24	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	2/13/2013 14:36	45.6	41.6	0.2	12.6	90	-1.8	-1.9	132	133	19	18	No Change; Well bore seal okay

Forward Well Data for Selected Wells
July 2012 through September 2013

Name	Date Time	(% by vol)	Dioxide	(% by vol)	(% by vol)	(ppm)	Static	Static	Temp	Temp	Flow	(scfm)	Comments
FOFU05-08R(Interim Temp)	2/26/2013 13:53	51.5	42.1	0	6.4	100	-1.4	-1.5	131	131	32	29	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	3/5/2013 11:18	48.7	40	0	11.3	100	-1.8	-1.8	132	132	16	16	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	3/14/2013 11:24	55.6	44.2	0	0.2	130	-0.76	-0.74	132	132	25	26	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	4/15/2013 9:33	54.3	43.2	0	2.5	80	-2.36	-2.39	131	131	21	20	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	4/27/2013 13:49	57.3	42.7	0	0	90	-1.23	-1.22	133	134	14	14	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	5/7/2013 10:17	54.9	42.7	0	2.4	110	-2.42	-2.41	132	132	19	19	No Change; No Change; Well bore
FOFU05-08R(Interim Temp)	5/29/2013 7:16	55.8	44.1	0.1	0	100	-1.66	-1.66	132	132	33	33	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	6/7/2013 13:12	57.5	42.5	0	0	180	-0.95	-0.94	135	135	18	17	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	6/28/2013 14:41	57.3	43	0		170	-0.64	-0.64	136	136	13	14	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	7/11/2013 11:19	56	44	0	0	90	-1.22	-1.22	133	133	20	20	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	7/30/2013 14:54	55.8	43.1	0	1.1	120	-0.93	-0.93	134	134	15	15	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	8/8/2013 11:57	56	44	0	0	130	-1.08	-1.07	133	134	16	16	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	8/28/2013 16:16	57.2	42.8	0	0	170	-1.01	-1.01	135	135	20	20	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	9/6/2013 15:38	55.9	44	0	0.1	170	-0.59	-0.6	136	136	11	11	No Change; Well bore seal okay
FOFU05-08R(Interim Temp)	9/24/2013 15:01	56	44	0	0	140	-0.93	-0.93	134	134	29	29	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	6/7/2012 9:54	41.4	37.2	0.3	21.1		-1.4	-1.4	128	128	14	14	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	6/28/2012 15:56	42.9	39.4	0	17.7	110	-1	-1	131	131	25	25	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	7/3/2012 14:04	46.3	39.8	0	13.9	110	-1	-1	132	133	30	29	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	7/20/2012 15:14	43.5	38.6	0.1	17.8	160	-1.1	-1	132	132	22	21	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	8/7/2012 17:16	44.7	40.8	0.2	14.3	160	-1	-1	134	134	27	27	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	8/28/2012 15:23	44.5	38.7	0	16.8	160	-0.9	-0.8	134	134	25	24	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	9/10/2012 13:30	43.6	38.5	0	17.9	170	-1.2	-1.2	137	137	9	9	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	9/19/2012 12:45	44.8	39.4	0	15.8		-0.8	-0.8	129	129	27	28	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	10/5/2012 10:37	49.5	44.7	0	5.8		-1.2	-1.2	128	128	31	33	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	10/31/2012 11:16	50.8	49.1	0	0.1		-1	-1	128	128			No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	11/8/2012 11:41	49.5	48.2	0	2.3		-1.3	-1.2	128	128	20	20	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	11/28/2012 10:26	52.5	47.4	0	0.1		-1	-1	127	127	29	29	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	12/13/2012 14:52	55	44.9	0	0.1		-0.9	-0.9	128	129	18	18	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	12/31/2012 16:58	56.2	43.7	0	0.1		-1.4	-1.3	127	128			No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	1/10/2013 11:10	56.6	43.3	0	0.1		-1.4	-1.4	125	127		15	Opened valve 1/2 turn or less;
FOFU05-10R(Interim Temp)	1/29/2013 13:26	56.1	43.7	0	0.2		-1.3	-1.2	129	129			No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	2/13/2013 14:43	53	43.4	0.3	3.3	120	-0.6	-0.5	132	132	33	33	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	2/26/2013 14:00	55.5	42.9	0	1.6	110	-0.5	-0.5	130	131	28	28	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	3/5/2013 11:26	54.5	42	0	3.5	130	-0.7	-0.7	130	131	24	25	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	3/14/2013 11:33	55.2	44.8	0	0	110	-0.2	-0.19	132	132	26	26	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	4/15/2013 9:41	55.5	44.4	0	0.1		-1.07	-1.08	129	129	15	15	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	4/27/2013 13:55	56.8	43.2	0	0	105	-0.3	-0.3	133	133	35	34	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	5/7/2013 10:26	56.5	43.5	0	0		-0.94	-0.93	130	130			No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	5/29/2013 7:23	55.5	44.4	0.1	0		-0.71	-0.72	130	130	14	13	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	6/6/2013 10:53	55.7	43	0	1.3	190	-0.61	-0.6	132	132	13	13	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	6/28/2013 14:46	57.3	42.7	0	0	180	-0.11	-0.14	138	138	17	17	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	7/11/2013 11:27	56.4	43.6	0	0	110	-0.64	-0.65	134	134	21	21	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	7/30/2013 15:01	55.4	42.6	0	2	160	-0.84	-0.78	135	135	32	32	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	8/8/2013 12:15	55.5	43.2	0	1.3	120	-0.45	-0.45	135	136	19	19	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	8/28/2013 16:23	57.7	42.3	0	0	130	-0.68	-0.68	137	137	21	21	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	9/6/2013 15:45	56.6	43.4	0	0	180	-0.48	-0.48	137	137	17	17	No Change; Well bore seal okay
FOFU05-10R(Interim Temp)	9/24/2013 15:08	56.4	43.6	0	0	160	-0.69	-0.69	135	135	13	13	No Change; Well bore seal okay
FO-FU05-15R	6/7/2012 8:51	50.1	39.4	0.2	10.3	100	-5.4	-5.5	132	132	51	51	
FO-FU05-15R	6/7/2012 8:53	49.9	39.2	0	10.9	100	-5.4	-5.4	132	132	52	51	No Change; Second Reading; Well

Forward Well Data for Selected Wells
July 2012 through September 2013

Name	Date Time	(% by vol)	Dioxide	(% by vol)	(% by vol)	(ppm)	Static	Static	Temp	Temp	Flow	(scfm)	Comments
FO-FU05-15R	6/22/2012 11:20	54.7	41	0	4.3	110	-4.9	-4.9	135	134	51	52	
FO-FU05-15R	6/22/2012 11:22	54.7	41.4	0	3.9	110	-4.9	-4.9	133	133	52	52	No Change; Second Reading; Well
FO-FU05-15R	6/28/2012 16:00	48.4	41.5	0	10.1	100	-5	-5.1	135	133	46	48	No Change; Well bore seal okay
FO-FU05-15R	7/3/2012 14:08	54	40.9	0	5.1	100	-5	-5.2	134	134	60	60	Opened valve 1/2 turn or less;
FO-FU05-15R	7/20/2012 15:18	49.6	39.3	0.1	11	110	-5.9	-5.8	133	134	56	56	
FO-FU05-15R	7/20/2012 15:19	49.8	39.9	0	10.3		-6.1	-6.1	133	133	64	63	Opened valve 1/2 turn or less;
FO-FU05-15R	8/7/2012 17:20	50.1	42.2	0.2	7.5	180	-6.1	-6.1	135	135	64	64	No Change; Well bore seal okay
FO-FU05-15R	8/14/2012 11:33	46.4	39.1	0.4	14.1	90	-6.4	-6.4	134	134	57	57	
FO-FU05-15R	8/14/2012 11:35	47	38.3	0.5	14.2	90	-6.4	-6.3	134	133	56	56	No Change; Second Reading; Well
FO-FU05-15R	8/28/2012 15:27	49.7	40	0.1	10.2	170	-5.8	-5.8	135	135	56	54	No Change; Well bore seal okay
FO-FU05-15R	9/5/2012 14:49	47	41	0	12	30	-6.5	-6.4	139	139	58	58	No Change; Well bore seal okay
FO-FU05-15R	9/7/2012 9:07	46.9	38.4	0.1	14.6	20	-6.8	-2.3	138	130	61		Closed valve > 1 turn
FO-FU05-15R	9/19/2012 12:50	54.4	40.1	0	5.5		-0.1	-0.1	129	129	5	5	No Change; Well bore seal okay
FO-FU05-15R	10/5/2012 10:41	57.9	41.7	0	0.4		-0.3	-0.3	128	128			No Change; Well bore seal okay
FO-FU05-15R	10/31/2012 11:18	57.4	42.4	0	0.2		-0.1	-0.1	128	128			No Change; Well bore seal okay
FO-FU05-15R	11/8/2012 11:43	54.4	42.4	0	3.2		-0.2	-0.2	129	129	12	11	No Change; Well bore seal okay
FO-FU05-15R	11/28/2012 10:29	56.1	43.8	0	0.1		-0.1	-0.1	129	128			No Change; Well bore seal okay
FO-FU05-15R	12/13/2012 14:49	55.8	44.1	0	0.1		-0.3	-0.2	128	128	34	36	No Change; Well bore seal okay
FO-FU05-15R	12/31/2012 17:00	56.5	43.4	0	0.1		-1.2	-1.2	129	129	38	36	No Change; Well bore seal okay
FO-FU05-15R	1/10/2013 11:06	57.8	42.1	0	0.1		-0.6	-0.6	128	129			No Change; Well bore seal okay
FO-FU05-15R	1/29/2013 13:28	57	42.9	0	0.1		-0.2	-0.3	129	128	10	12	No Change; Well bore seal okay
FO-FU05-15R	2/26/2013 14:06	57.3	42.4	0	0.3		-0.1	-0.2	128	127	28	25	No Change; Well bore seal okay
FO-FU05-15R	3/5/2013 11:30	55.4	41.4	0	3.2	160	-1	-1.1	134	134	20	20	
FO-FU05-15R	3/5/2013 11:31	55.5	41.4	0	3.1	160	-0.6	-0.6	134	134	24	26	Closed valve 1/2 turn or less;
FO-FU05-15R	3/14/2013 11:38	56.4	43.6	0	0	150	-0.24	-0.23	135	135	23	21	
FO-FU05-15R	3/14/2013 11:40	55.8	44.2	0	0	150	-0.28	-0.23	136	135			No Change; Well bore seal okay
FO-FU05-15R	3/29/2013 15:34	55.9	44.1	0	0	145	-0.38	-0.37	137	137	22	23	
FO-FU05-15R	3/29/2013 15:36	55.7	44.3	0	0	145	-0.14	-0.14	136	137	23	23	Closed valve 1/2 turn or less;
FO-FU05-15R	4/15/2013 9:43	56.2	43.8	0	0		-1.24	-1.23	129	129	32	32	No Change; Well bore seal okay
FO-FU05-15R	4/27/2013 13:59	61.6	38.4	0	0		-0.33	-0.31	128	128	25	15	No Change; Well bore seal okay
FO-FU05-15R	5/7/2013 10:29	57	43	0	0		-1.13	-1.14	127	127	28	28	No Change; Well bore seal okay
FO-FU05-15R	5/29/2013 7:26	56.7	42.1	1.2		120	-1.2	-1.18	134	134	22	22	
FO-FU05-15R	5/29/2013 7:27	56.9	41.6	1.5	0		-0.77	-0.76	133	133	18	18	Closed valve 1/2 turn or less;
FO-FU05-15R	6/6/2013 10:29	55.4	42.6	0	2	180	-0.47	-0.44	136	136	29	34	Opened valve 1/2 turn or less;
FO-FU05-15R	6/6/2013 10:30	55.1	42.3	0.2	2.4	180	-0.4	-0.38	136	136	26	26	Opened valve 1/2 turn or less;
FO-FU05-15R	6/28/2013 14:50	56.4	43.6	0	0		-0.38	-0.3	129	129	24	24	No Change; Well bore seal okay
FO-FU05-15R	7/30/2013 15:05	56.5	42	0	1.5	90	-0.84	-0.84	137	137	23	24	Adjusted vacuum; inspected well
FO-FU05-15R	8/8/2013 12:19	55.6	42.7	0.1	1.6	100	-0.58	-0.6	137	137	22	23	Adjusted vacuum; inspected well
FO-FU05-15R	8/28/2013 16:27	58.1	41.9	0	0	100	-0.93	-0.93	138	138	26	26	Adjusted vacuum; inspected well
FO-FU05-15R	9/6/2013 15:48	56.9	43.1	0	0	100	-0.61	-0.61	139	139	22	22	No Change; Well bore seal okay
FO-FU05-15R	9/24/2013 15:12	57.1	42.9	0	0	90	-0.72	-0.73	137	137	21	21	
FO-FU05-15R	9/24/2013 15:14	56.7	43.3	0	0	90	-0.24	-0.23	137	137	12	24	Closed valve 1/2 turn or less;
FOFU0616(Interim Temp)	6/28/2012 15:19	55.1	41.3	0.2	3.4		-1.5	-2.1	130	129	13	18	Opened valve 1/2 turn or less;
FOFU0616(Interim Temp)	7/6/2012 13:17	59.7	40.2	0	0.1	100	-2.9	-3.5	137	137	21	23	Opened valve 1/2 turn or less;
FOFU0616(Interim Temp)	7/20/2012 14:04	57.3	41.7	0	1	110	-4.4	-4.9	138	137	28	29	Opened valve 1/2 turn or less;
FOFU0616(Interim Temp)	8/7/2012 17:42	53.2	46.7	0	0.1	150	-5.4	-5.3	139	139	34	33	No Change; Well bore seal okay
FOFU0616(Interim Temp)	8/30/2012 11:06	52.6	46.1	0	1.3	130	-5.4	-5.4	137	136	11	10	No Change; Well bore seal okay
FOFU0616(Interim Temp)	9/10/2012 15:53	51.1	42.9	0.5	5.5	160	-5.6	-5.6	138	138	22	22	No Change; Well bore seal okay
FOFU0616(Interim Temp)	9/24/2012 16:11	55.7	43.9	0.3	0.1	120	-5.5	-5.5	135	135	22	22	No Change; Well bore seal okay

Forward Well Data for Selected Wells
July 2012 through September 2013

Name	Date Time	(% by vol)	Dioxide	(% by vol)	(% by vol)	(ppm)	Static	Static	Temp	Temp	Flow	(scfm)	Comments
FOFU0616(Interim Temp)	10/9/2012 15:56	55.7	44.2	0	0.1	140	-5.7	-5.7	135	135	22	22	No Change; Well bore seal okay
FOFU0616(Interim Temp)	10/30/2012 16:48	55.5	44.1	0.3	0.1		-5.4	-5.4	128	128	22	21	No Change; Well bore seal okay
FOFU0616(Interim Temp)	11/15/2012 16:22	55.8	44.1	0	0.1		-5.8	-5.8	127	129	23	23	No Change; Sample Port needs
FOFU0616(Interim Temp)	11/29/2012 15:59	56.6	43.3	0	0.1		-6.2	-6.2	129	129	44	42	No Change; Well bore seal okay
FOFU0616(Interim Temp)	12/28/2012 12:35	55.8	41	0	3.2		-6.2	-6.2	129	127	26	26	No Change; Sample Port needs
FOFU0616(Interim Temp)	1/14/2013 15:54	55.8	44.1	0	0.1		-12.8	-12.8	128	128	36	36	No Change; Sample Port needs
FOFU0616(Interim Temp)	1/30/2013 14:45	58.1	41.7	0.1	0.1		-10.8	-10.8	129	129	35	34	No Change; Sample Port needs
FOFU0616(Interim Temp)	2/13/2013 12:24	55	41.9	0.3	2.8	100	-6.9	-6.9	133	133	24	23	No Change; Well bore seal okay
FOFU0616(Interim Temp)	2/21/2013 9:18	56	42.3	0	1.7	90	-7	-7.1	132	132	23	23	No Change; Well bore seal okay
FOFU0616(Interim Temp)	4/15/2013 11:24	58.6	41.4	0	0		-4.1	-4.1	129	128	15	14	No Change; Well bore seal okay
FOFU0616(Interim Temp)	4/27/2013 11:36	59.2	40.8	0	0		-3.61	-3.64	129	129	20	19	No Change; Well bore seal okay
FOFU0616(Interim Temp)	5/3/2013 12:13	60.4	39.6	0	0		-1.93	-1.93	130	130	11	11	No Change; Well bore seal okay
FOFU0616(Interim Temp)	5/28/2013 13:22	59.6	40.4	0	0		-1.93	-1.96	129	129	11	11	No Change; Well bore seal okay
FOFU0616(Interim Temp)	6/6/2013 10:03	59.3	40.7	0	0		-2.71	-2.73	129	129	33	34	No Change; Well bore seal okay
FOFU0616(Interim Temp)	6/28/2013 14:19	59.4	40.5	0	0.1	120	-0.4	-0.86	131	131	15	15	No Change; Well bore seal okay
FOFU0616(Interim Temp)	7/8/2013 10:51	60.4	39.5	0.1	0		-2.42	-2.39	129	129	15	15	No Change; Well needs
FOFU0616(Interim Temp)	7/24/2013 12:58	59	41	0	0		-0.8	-0.79	129	129	18	18	No Change; Well bore seal okay
FOFU0616(Interim Temp)	8/29/2013 14:18	61.3	38.6	0	0.1	110	-1.67	-1.68	132	132	10	11	No Change; Sample Port needs
FOFU0802(Interim Temp)	6/7/2012 9:34	57	40	0.2	2.8	110	-1.1	-1.1	134	133			No Change; Well bore seal okay
FOFU0802(Interim Temp)	6/28/2012 15:16	52.4	41.9	0	5.7		-1.1	-1.1	128	127	26	28	No Change; Well bore seal okay
FOFU0802(Interim Temp)	7/6/2012 13:12	60.3	39.6	0	0.1	120	-1.1	-1.4	134	134	12	27	Opened valve 1/2 turn or less;
FOFU0802(Interim Temp)	7/20/2012 13:58	50.6	38.2	0	11.2	90	-1.8	-2	135	134	18	17	No Change; Well bore seal okay
FOFU0802(Interim Temp)	8/7/2012 17:37	52.3	40.8	0.1	6.8	140	-2	-2.1	136	136	27	27	No Change; Well bore seal okay
FOFU0802(Interim Temp)	8/30/2012 11:00	40	35.4	0.1	24.5	100	-1.8	-1.8	134	135	17	11	No Change; Well bore seal okay
FOFU0802(Interim Temp)	9/10/2012 15:47	48.4	37.7	0	13.9	140	-1.9	-1.9	137	137	8	6	No Change; Well bore seal okay
FOFU0802(Interim Temp)	9/24/2012 16:05	50.8	37.2	0.6	11.4	130	-1.9	-1.9	133	132	11	11	No Change; Well bore seal okay
FOFU0802(Interim Temp)	10/9/2012 15:50	50.6	39	0	10.4	160	-1.9	-2	132	132	36	37	No Change; Remote wellhead-no
FOFU0802(Interim Temp)	10/30/2012 16:41	48.6	38.2	0.3	12.9		-2.1	-2.4	129	129	23	39	No Change; Well bore seal okay
FOFU0802(Interim Temp)	11/15/2012 16:19	48.9	38.1	0	13		-1.9	-2	128	127	15	13	No Change; Well bore seal okay
FOFU0802(Interim Temp)	11/29/2012 15:56	49.7	37.7	0	12.6		-2	-2	128	129			No Change; Well bore seal okay
FOFU0802(Interim Temp)	12/28/2012 12:28	56.8	38.6	0	4.6		-2.8	-3.1	129	129	70	72	No Change; Well bore seal okay
FOFU0802(Interim Temp)	1/14/2013 15:48	55.6	39.6	0	4.8		-3	-3.3	128	129	63	66	No Change; Well bore seal okay
FOFU0802(Interim Temp)	1/30/2013 14:42	57.1	37.9	0.1	4.9		-2.2	-2.3	128	129	53	50	No Change; Well bore seal okay
FOFU0802(Interim Temp)	2/13/2013 12:15	53	38.3	0.2	8.5	110	-1.2	-1.2	131	132	6	1	No Change; Well bore seal okay
FOFU0802(Interim Temp)	2/21/2013 9:11	56.1	39.8	0	4.1		-1.3	-1.3	128	129	13	16	No Change; Well bore seal okay
FOFU0802(Interim Temp)	3/14/2013 9:18	57.9	42.1	0	0		-1.78	-1.8	126	125	48	53	No Change; Well bore seal okay
FOFU0802(Interim Temp)	4/15/2013 11:11	58.4	41.5	0.2			-1.74	-2.24	129	129	81	78	No Change; Well bore seal okay
FOFU0802(Interim Temp)	4/27/2013 12:27	58.3	41.7	0	0		-0.97	-0.99	129	129	61	57	No Change; Well bore seal okay
FOFU0802(Interim Temp)	7/8/2013 10:54	58.6	40.2	0	1.2		-0.69	-0.68	128	128	31	31	No June data. Well off-line for
FOFU0802(Interim Temp)	7/24/2013 13:02	59.5	40.5	0	0	130	-1.07	-1.07	132	132	75	73	No Change; Well bore seal okay
FOFU0802(Interim Temp)	8/13/2013 12:35	67.6	32.4	0	0		-5.67	-5.63	129	129	159	159	No Change; Sample Port needs
FOFU0802(Interim Temp)	8/29/2013 14:15	60.1	38.6	0	1.3	150	-2.15	-2.15	131	131	82	82	No Change; Well bore seal okay
FOFU0802(Interim Temp)	9/6/2013 13:55	60.1	39.8	0.2		130	-1.81	-1.81	131	131	92	95	No Change; Sample Port needs
FOFU0802(Interim Temp)	9/24/2013 15:30	60.9	38.9	0.2	0		-0.76	-0.75	126	126	65	70	No Change; Sample Port needs
FOFU0803(Interim Temp)	6/7/2012 9:31	59.4	39.8	0.3	0.5		-7	-7	127	128	12	10	No Change
FOFU0803(Interim Temp)	6/28/2012 15:13	54.6	39.8	0	5.6		-6.4	-6.4	126	127	21	21	No Change; Well bore seal okay
FOFU0803(Interim Temp)	7/6/2012 13:09	59.8	40.1	0	0.1		-5.8	-6.8	126	126	22	25	Opened valve 1/2 turn or less;
FOFU0803(Interim Temp)	7/20/2012 13:55	54.6	39.1	0	6.3		-7	-7	125	126	41	40	No Change; Well bore seal okay
FOFU0803(Interim Temp)	8/7/2012 17:34	56.2	41.4	0.5	1.9		-6.8	-6.7	126	127	35	35	No Change; Well bore seal okay

Forward Well Data for Selected Wells
July 2012 through September 2013

Name	Date Time	(% by vol)	Dioxide	(% by vol)	(% by vol)	(ppm)	Static	Static	Temp	Temp	Flow	(scfm)	Comments
FOFU0803(Interim Temp)	8/30/2012 10:58	43.4	35.5	0.1	21		-6.3	-6.3	126	126	32	24	No Change; Well bore seal okay
FOFU0803(Interim Temp)	9/10/2012 15:43	47.2	37.4	0.3	15.1	180	-7.1	-7.1	131	131	21	21	No Change; Well bore seal okay
FOFU0803(Interim Temp)	9/24/2012 16:01	49.7	37.5	0.6	12.2		-7.3	-7.3	126	126	23	23	No Change; Well bore seal okay
FOFU0803(Interim Temp)	10/9/2012 15:47	50	38.2	0	11.8		-7.7	-7.7	126	127	20	21	No Change; Well bore seal okay
FOFU0803(Interim Temp)	10/30/2012 16:38	51.8	38.9	0.6	8.7		-8	-8	126	126	20	21	No Change; Well bore seal okay
FOFU0803(Interim Temp)	11/15/2012 16:16	51.9	39.4	0	8.7		-8.8	-8.7	127	127	22	22	No Change; Well bore seal okay
FOFU0803(Interim Temp)	11/29/2012 16:10	52.8	38.4	0	8.8		-9.5	-9.5	126	127	23	24	No Change; Well bore seal okay
FOFU0803(Interim Temp)	12/28/2012 12:25	58.5	38.5	0	3		-9.2	-9.1	127	127	25	26	No Change; Well bore seal okay
FOFU0803(Interim Temp)	1/14/2013 15:45	50.8	38	0.4	10.8		-15	-14.9	127	128	31	30	No Change; Well bore seal okay
FOFU0803(Interim Temp)	1/30/2013 14:40	52.8	37.1	0.3	9.8		-12.4	-12.4	128	128	28	28	No Change; Well bore seal okay
FOFU0803(Interim Temp)	2/13/2013 12:12	48.9	36.7	0.5	13.9		-9.4	-9.2	129	129	22	22	No Change; Well bore seal okay
FOFU0803(Interim Temp)	2/21/2013 9:08	52.4	38.3	0	9.3		-8.7	-8.7	127	127	20	20	No Change; Well bore seal okay
FOFU0803(Interim Temp)	3/14/2013 9:14	55.2	36.9	2	5.9		-7.53	-7.51	128	127	22	22	No Change; Well bore seal okay
Top Deck Well 01	6/14/2013 9:34	57.7	42.3	0	0		-5.55	-5.55	125	125	28	28	No Change; Well bore seal okay
Top Deck Well 01	6/28/2013 10:17	59.3	40.7	0	0		-4.07	-4.08	126	126	29	28	No Change; Well bore seal okay
Top Deck Well 01	7/11/2013 9:41	58.2	41.8	0	0		-4.95	-4.96	125	125	26	26	No Change; Well bore seal okay
Top Deck Well 01	7/22/2013 16:25	57.8	42.2	0	0		-4.24	-4.23	126	126	25	25	No Change; Well bore seal okay
Top Deck Well 01	8/1/2013 12:50	58.4	41.5	0.1	0		-4.66	-4.67	125	125	14	14	No Change; Well bore seal okay
Top Deck Well 01	8/26/2013 16:34	58.5	41.5	0	0		-4.08	-4.22	126	126	23	25	Opened valve 1/2 turn or less;
Top Deck Well 01	9/9/2013 12:19	57.3	42.6	0.1	0		-5.26	-5.26	127	127	22	22	No Change; Well bore seal okay
Top Deck Well 01	9/23/2013 15:21	59.3	40.7	0	0		-4.98	-4.98	126	126	25	25	No Change; Well bore seal okay
Top Deck Well 04	6/28/2013 10:24	58.9	41.1	0	0		-2	-2	126	126	24	24	No Change; Well bore seal okay
Top Deck Well 04	7/22/2013 16:44	57.2	42.7	0	0.1		-2.01	-1.99	126	126	19	20	No Change; Well bore seal okay
Top Deck Well 04	8/7/2013 11:22	57.2	42.8	0	0		-2.76	-2.8	125	125	18	18	No Change; Well bore seal okay
Top Deck Well 04	8/26/2013 16:42	58.4	41.6	0	0		-0.91	-1.13	125	126	16	19	Opened valve 1/2 turn or less;
Top Deck Well 04	9/9/2013 12:26	57.4	42.6	0	0		-2.49	-2.49	127	127	15	15	No Change; Well bore seal okay
Top Deck Well 04	9/23/2013 15:27	58.1	41.9	0	0		-2.16	-2.17	125	125	37	37	No Change; Well bore seal okay
Top Deck Well 05	6/28/2013 10:26	58.8	41.2	0	0		-1.56	-1.56	125	126	23	22	No Change; Well bore seal okay
Top Deck Well 05	9/9/2013 12:29	57.5	42.5	0	0		-1.99	-1.99	125	125	27	27	No Change; Well bore seal okay

eurofins | Air Toxics

10/3/2012
Mr Sean Bass
SCS Field Services
4730 Enterprise Way
Suite A
Modesto CA 95356

Project Name 07207048 01
Project # Forward
Workorder # 1209083R1

Dear Mr Sean Bass

The following report includes the data for the above referenced project for sample(s) received on 9/7/2012 at Air Toxics Ltd

The data and associated QC analyzed by Modified ASTM D 1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative

Thank you for choosing Air Toxics Ltd for your air analysis needs Air Toxics Ltd is committed to providing accurate data of the highest quality Please feel free to contact the Project Manager Kyle Vagadon at 916-985-1000 if you have any questions regarding the data in this report

Regards

Kyle Vagadon

Kyle Vagadon
Project Manager

eurofins | Air Toxics

WORK ORDER # 1209083R1

Work Order Summary

CLIENT	Mr Sean Bass SCS Field Services 4730 Enterprise Way Suite A Modesto CA 95356	**BILL TO**	Mr Art Jones SCS Field Services 4730 Enterprise Way Suite A Modesto CA 95356
PHONE	209 545 8490	**P O #**	MO8172
FAX		**PROJECT #**	Forward 07207048 01
DATE RECEIVED	09/07/2012	**CONTACT**	Kyle Vagadori
DATE COMPLETED	09/11/2012		
DATE REISSUED	10/03/2012		

FRACTION #	NAME	TEST	RECEIPT VAC /PRES	FINAL PRESSURE
01A	F 1208	Modified ASTM D 1946	1 0 Hg	15 psi
02A	F 1208 Dup	Modified ASTM D 1946	1 5 Hg	15 psi
03A	Lab Blank	Modified ASTM D 1946	NA	NA
04A	LCS	Modified ASTM D-1946	NA	NA
04AA	LCSD	Modified ASTM D 1946	NA	NA

CERTIFIED BY _____ DATE 10/03/12

Technical Director

Certification numbers AZ Licensure AZ0775 CA NELAP 12282CA NY NELAP 11291
TX NELAP T104704434 12 5 UT NELAP CA009332012 3 WA NELAP C935
Name of Accrediting Agency NFI AP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number CA300005 Effective date 10/18/2011 Expiration date 10/17/2012
Eurofins Air Toxics Ltd certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced except in full without the written approval of Eurofins Air Toxics Inc

180 BLUE RAVINE ROAD SUITE B FOLSOM CA 9563
(916) 985 1000 (800) 985 5955 FAX (916) 985 1020

LABORATORY NARRATIVE
Modified ASTM D-1946
SCS Field Services
Workorder# 1209083R1

Two 1 Liter Summa Canister samples were received on September 07 2012 The laboratory performed analysis via Modified ASTM Method D-1946 for Carbon Monoxide in air using GC/TCD The method involves direct injection of 1 0 mL of sample

Method modifications taken to run these samples are summarized in the table below Specific project requirements may over-ride the ATL modifications

Requirement	*ASTM D-1946*	*ATL Modifications*
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown	A 3 point calibration curve is performed Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples
Reference Standard	The composition of any reference standard must be known to within 0 01 mol % for any component	The standards used by ATL are blended to a >/= 95% accuracy
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0 5 mL	The sample container is connected directly to a fixed volume sample loop of 1 0 mL on the GC Linear range is defined by the calibration curve Bags are loaded by vacuum
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values The sum of the original values should not differ from 100% by more than 1 0%	Results are not normalized The sum of the reported values can differ from 100% by as much as 15% either due to analytical variability or an unusual sample matrix
Precision	Precision requirements established at each concentration level	Duplicates should agree within 25% RPD for detections > 5 X s the RL

Receiving Notes

The Chain of Custody (COC) was not relinquished properly A signature and date were not provided by the field sampler

Analytical Notes

There were no analytical discrepancies

THE WORKORDER WAS REISSUED ON 10/03/12 TO REPORT ESTIMATED VALUES FOR TARGET COMPOUND HITS THAT ARE BELOW THE REPORTING LIMIT BUT GREATER THAN THE METHOD DETECTION LIMIT

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows
B - Compound present in laboratory blank greater than reporting limit
J - Estimated value
E - Exceeds instrument calibration range
S - Saturated peak
Q - Exceeds quality control limits
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences
File extensions may have been used on the data analysis sheets and indicates as follows
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

eurofins | Air Toxics

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID F-1208

Lab ID# 1209083R1-01A

No Detections Were Found

Client Sample ID F-1208 Dup

Lab ID# 1209083R1-02A

No Detections Were Found

eurofins | Air Toxics

Client Sample ID F-1208

Lab ID# 1209083R1-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name	9091005b	Date of Collection	9/7/12 10 18 00 AM
Dil Factor	2 09	Date of Analysis	9/10/12 10 55 AM

Compound	Rpt. Limit (%)	Amount (%)
Carbon Monoxide	0 021	Not Detected J

J = Estimated value

MDL Value 0 0073%

Container Type 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID F-1208 Dup

Lab ID# 1209083R1-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name	9091006b	Date of Collection	9/7/12 10 23 00 AM
Dil Factor	2 13	Date of Analysis	9/10/12 11 20 AM

Compound	Rpt. Limit (%)	Amount (%)
Carbon Monoxide	0 021	Not Detected J

J = Estimated value

MDL Value 0 0074%

Container Type 1 Liter Summa Canister

eurofins | Air Toxics

Client Sample ID Lab Blank

Lab ID# 1209083R1-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name	9091004b	Date of Collection	NA
Dil Factor	1 00	Date of Analysis	9/10/12 10 05 AM

Compound	Rpt. Limit (%)	Amount (%)
Carbon Monoxide	0 010	Not Detected J

J = Estimated value

MDL Value 0 0035%

Container Type NA Not Applicable

eurofins | Air Toxics

Client Sample ID LCSD

Lab ID# 1209083R1-04AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D 1946

File Name	9091022b	Date of Collection	NA
Dil Factor	1 00	Date of Analysis	9/10/12 06 43 PM

Compound	%Recovery
Carbon Monoxide	97

Container Type NA Not Applicable

Attachment C

GEM 5000 Specifications

This document explains the GEM5000 accuracy for the CO (H_2)* compensated electrochemical cell and the testing protocol to assure best measurements.

*Hydrogen compensated carbon monoxide measurement. Compensated for interference from up to 2,000ppm hydrogen.

Accuracy

The accuracy of the CO (H_2) compensated cell is ±1% Full Scale.

Range of Cell is 0 – 2,000ppm

User Calibration Protocol

Section 9.0 of the operation manual explains the calibration procedure in detail. Two important terms that are used within this section are **'Zero'** and **'Span'**.

Zero: The point at which the gas analyzer is calibrated when there is none (Zero percent or ppm) of the target gases present.

Span: The point at which the gas analyzer is calibrated when a known quantity of the target gas is present.

A field calibration should be performed if the ambient temperature changes by more than 20° Fahrenheit over the course of a monitoring since the last field calibration.

User calibration of a gas analyzer will greatly improve the data accuracy in the range of the calibration gases used. This may cause less accurate readings of concentrations outside this calibrated range. Users should select the correct calibration gas for the expected gas levels on their particular application.

For the calibration you will need CO certified calibration gas and 100% N2 gas to zero. If 100% N2 gas is not available fresh ambient air can be used. The recommended CO certified concentration to be used depends on what readings you will be expecting to read from your sample point(s). If this concentration is unknown 1,000ppm CO certified gas can be used which is half of the range of the cell.

Certified calibration gas cylinders are supplied with the LANDTEC calibration kit. The volume of gas is typically 34 liters. Certain gas mixtures may have different volumes. Please refer to the LANDTEC website www.landtena.com for further information.

The regulator supplied with the calibration kit is pre-set for flow and pressure rates that are factory set. If using other gas sources and regulators please match the flow and pressure of the LANDTEC regulators. An optional pressure relief valve is suggested if using a NON-LANDTEC regulator just as a safety precaution. Over pressurization of the analyzer can cause damage to the analyzer and cause it to malfunction.

Please contact LANDTEC for any questions regarding the calibration or to request a copy of section 9.0 of the operating manual which describes the calibration procedure on calibrating your GEM5000.

APPENDIX VII

Facility Comments and District Response

Facility Comments and District Response

Facility Comment #1

Forward would like to have the opportunity to review the U S Environmental Protection Agency (EPA) landfill gas (LFG) emissions model (LandGem) used for District Project N-1062444 to confirm that the limit of 5,400 standard cubic feet per minute (scfm) is not based on the flares capacities but the potential landfill gas (LFG) generation rate for the landfill It also appears that the maximum rate of 5,400 scfm is used as both the maximum LFG generation and the maximum collection rate in the application review (page 1), these values should not be the same Forward requests clarification of the 5,400 scfm value as either a maximum LFG generation rate or LFG collection rate

District Response

The LandGem modeling results that are referenced to in District Project N-1062444 was provided to the District by Forward Landfill in the application package for that project The modeling was performed to determine the maximum landfill gas generation rate The permittee decided to permit their flares at a CFM equal to the landfill gas generation rate A copy of the LandGem results supplied to the District in Project N-1062444 was emailed to your attention The District does not believe this comment will result in any changes to the Authority to Construct permit

Facility Comment #2

In conditions #10 and #11 of the Draft ATC, the District provides the maximum LFG flow rate capacities for the two flares as permitted limits Forward requests clarification that the maximum flow rates provided herein have been corrected to 50 percent (%) methane, such that the flow rates could exceed these values if the methane content is less than 50 Alternatively, Forward requests that the maximum capacity limit for each flare be based on the heat input (MMBtu/hr) as it is a more accurate measurement of flare capacity

District Response

Conditions #10 and #11 of the Draft ATC have been modified to clarify that the scfm limits are referenced to 50 percent methane

Facility Comment #3

The landfill is not an existing PSD site for criteria air pollutants, facility-wide potential to emit (PTE) for each criteria air pollutant is less than 250 tons per year If a facility is not an existing PSD facility, two thresholds must be met for GHGs to be "subject to regulation, which would constitute an existing major source The requirements are as follows

- New Source PTE ≥ 100,000 tpy carbon dioxide equivalent (CO_2e)
- Existing source (or project) PTE ≥ 100,000 tpy CO_2e
- Increase from proposed project is ≥ 75 000 tpy CO_2e

According to the District's emission calculations the landfill is an existing source with the PTE of ≥ 100,000 tpy of CO_2e, it is not a new source However, the emissions from the proposed project, as specified throughout the District's evaluation is zero (e g < 75,000 tpy) Therefore, GHGs are not subject to regulation, and the Landfill would not be considered an existing Major Source for PSD at this time

We also wish to not that the recent legal finding vacating the deferral of biogenic GHG emissions has not yet taken effect Therefore as of the date of this letter, biogenic emissions are still not considered for applicability and Major Source status under the PSD As such, we question that the calculated GHG emissions could be as high as indicated without the inclusion of biogenic emissions We request the opportunity to review the basis for the GHG emissions total presented in the above table

District Response — The District has revised the evaluation and removed the biogenic emissions from the calculations used determine the PSD status of the landfill

Facility Comment #4 — Condition 42 of ATC N-339-17-10 specifies a limit of 1,406,827 cubic yards (cy) or 37,984,329 cubic feet (cf) Forward requests that the District provide calculations for how it derived the limit of 61,768,080 cf for condition #16 of the draft ATC

District Response — The 1,406,827 cubic yards limit for the volume of soil used for intermediate and final cover of the landfill was determined based on the landfill area and an assumed soil cover depth and density This project corrects the landfill area listed in the equipment description The new limit was based on the corrected landfill area, using the same assumption for the soil cover depth and soil density The District believes the revised limit for the volume of soil used is conservative and accurate for estimating emissions from the soil cover

Facility Comment #5 — Condition #54 cites New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAPS), which require semi-annual reporting The requirement to submit a report to the District at least every 12 months is misleading Forward requests a requirement of semi-annual reporting to eliminate any potential for misinterpretation of Landfill's reporting requirement per NSPS and NESHAPs

District Response — The District has revised condition #54 to require semi-annual reporting

Facility Comment #6	Condition #70, LFG probes 7 through 12 were relocated to the edge of the Landfill, at least 100 feet outside of the waste line and with a minimum 100-foot buffer between probes and waste on June 1 through 7, 2011 The regulatory citation for this Condition is the Consent Decree Forward requests that Condition #70 is removed from the ATC because this requirement has been satisfied
District Response	This condition has been removed from the draft ATC
Facility Comment #7	Condition #71, to comply with the intermediate cover requirements established in California Code of Regulations 27 Section 20700 through 20705 is not a Clean Air Act (CAA) requirement and not related to air emissions As such Forward request that it is removed from the draft ATC
District Response	This condition has been removed from the draft ATC
Facility Comment #8	The requirement of monitoring the integrity of the well boots and seals is a requirement of the Consent Decree Forward requests that Condition #72 is removed from the draft ATC, as it is not a regulatory monitoring requirement that is based on any CAA rule or regulation
District Response	This condition has been removed from the draft ATC
Facility Comment #9	Condition #73 lists wells that have been approved for a higher operating temperature limit Forward requests that the carbon monoxide requirements defined in the Consent decree be included in this condition as they relate to the wellhead limits
District Response	This condition has been revised to include the CO monitoring requirements, and is now listed as condition #70 on the draft Authority to Construct permit in this document
Facility Comment #10	Condition #76, which requires Forward to keep records of all emission source tests does not include a rule retention limit of 5 years Forward requests that a records retention limit of 5 years is specified in this condition
District Response	The condition language has been modified such that it does not imply that records of source tests older than 5 years must be kept, and is now listed as condition #74 on the draft Authority to Construct permit in this document

Facility Comment #11 Forward would like to meet with the District to discuss the District's previous denial of higher operating limits for several wellheads located at the landfill and to resubmit that request along with new supporting data

District Response The District has received and reviewed the revised request (See Appendix VI for copy of this request and supporting data) The application review has been modified to include a section addressing this request, and the permit conditions have been modified accordingly (See permit conditions #70 and #71 in the Draft Authority to Construct attached to this document