ATTACHMENT B
Fugitive Emissions Components Affected Facilities – 40 CFR §60.5420a(b)(7) Required Records

Table B-1
Chief Oil & Gas LLC
Fugitive Emissions Components Affected Facilities - 40 CFR §60.5420a(b)(7) Reporting Requirements
August 3, 2018 to August 2, 2019 Reporting Period

Citation	Requirement	Information for Each Monitoring Survey Conducted During the Reporting Period
40 CFR §60.5420a(b)(7)(i)	Date of the survey.	Summarized in Table B-2
40 CFR §60.5420a(b)(7)(ii)	Beginning and end time of the survey.	Summarized in Table B-2
40 CFR §60.5420a(b)(7)(iii)	Name of operator(s) performing survey. If the survey is performed by optical gas imaging, you must note the training and experience of the operator.	Tyler Berkey, Regulatory Coordinator with Chief Oil & Gas LLC
40 CFR §60.5420a(b)(7)(iv)	Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	Summarized in Table B-2
40 CFR §60.5420a(b)(7)(v)	Monitoring instrument used.	Bascom Turner Gas Explorer
40 CFR §60.5420a(b)(7)(vi)	Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	There were no deviations from the monitoring plan.
40 CFR §60.5420a(b)(7)(vii)	Number and type of components for which fugitive emissions were detected.	Summarized in Table B-3
40 CFR §60.5420a(b)(7)(viii)	Number and type of fugitive emissions components that were not repaired as required in 40 CFR §60.5397a(h).	N/A
40 CFR §60.5420a(b)(7)(ix)	Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	There were no difficult-to-monitor or unsafe-to-monitor fugitive emissions components at any of the well sites.
40 CFR §60.5420a(b)(7)(x)	The date of successful repair of the fugitive emissions component.	Summarized in Table B-3
40 CFR §60.5420a(b)(7)(xi)	Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	N/A
40 CFR §60.5420a(b)(7)(xii)	Type of instrument used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	N/A

Table B-2
Chief Oil & Gas LLC
40 CFR Part 60, Subpart OOOOa Fugitive Emissions Monitoring Survey Summary
August 3, 2018 to August 2, 2019 Reporting Period

Well Name	First Production Date	Initial Inspection			Subsequent Semiannual Inspections [a]								
		Date	Start/End Time	Weather	Date	Start/End Time	Weather	Date	Start/End Time	Weather	Date	Start/End Time	Weather
Ambrosius A-2H	11/26/2017	1/23/2018	12:02-12:39PM	43 F, Rain, 2 mph wind	10/5/2018	12:20-12:53PM	64 F, Cloudy, 6 mph wind	3/15/2019	11:11-11:39AM	58 F, Cloudy, 3 mph wind	N/A [b]		
Ambrosius A-3H	11/24/2017	1/23/2018	12:02-12:39PM	43 F, Rain, 2 mph wind	10/5/2018	12:20-12:53PM	64 F, Cloudy, 6 mph wind	3/15/2019	11:11-11:39AM	58 F, Cloudy, 3 mph wind	N/A [b]		
Ambrosius B-1H	12/1/2017	1/23/2018	12:54-1:39PM	43 F, Rain, 2 mph wind	10/5/2018	1:12-2:03PM	64 F, Cloudy, 6 mph wind	3/15/2019	10:17-11:00AM	58 F, Cloudy, 3 mph wind	N/A [b]		
Ambrosius B-2H	12/1/2017	1/23/2018	12:54-1:39PM	43 F, Rain, 2 mph wind	10/5/2018	1:12-2:03PM	64 F, Cloudy, 6 mph wind	3/15/2019	10:17-11:00AM	58 F, Cloudy, 3 mph wind	N/A [b]		
Ambrosius B-3H	12/1/2017	1/23/2018	12:54-1:39PM	43 F, Rain, 2 mph wind	10/5/2018	1:12-2:03PM	64 F, Cloudy, 6 mph wind	3/15/2019	10:17-11:00AM	58 F, Cloudy, 3 mph wind	N/A [b]		
Bahl 1H	7/13/2017	7/27/2017	10:05-11:01AM	75 F, Cloudy, 3 mph wind	11/14/2018	10:30-11:13AM	33 F, Sun, 10 mph wind	5/2/2019	10:13-10:51AM	62 F, Sun, Calm	N/A [b]		
Bahl 2H	7/13/2017	7/27/2017	10:05-11:01AM	75 F, Cloudy, 3 mph wind	11/14/2018	10:30-11:13AM	33 F, Sun, 10 mph wind	5/2/2019	10:13-10:51AM	62 F, Sun, Calm	N/A [b]		
Bahl 3H	7/14/2017	7/27/2017	10:05-11:01AM	75 F, Cloudy, 3 mph wind	11/14/2018	10:30-11:13AM	33 F, Sun, 10 mph wind	5/2/2019	10:13-10:51AM	62 F, Sun, Calm	N/A [b]		
Bailey 2H	3/8/2017	4/27/2017	3:14-3:48PM	68 F, Cloudy, 7 mph wind	8/9/2018	12:40-1:13PM	81 F, Sun, 6 mph wind	1/17/2019	1:07-1:43PM	26 F, Sun, 6 mph wind	6/27/2019	1:14-1:46PM	83 F, Sun, 4 mph wind
Bailey 3H	3/8/2017	4/27/2017	3:14-3:48PM	68 F, Cloudy, 7 mph wind	8/9/2018	12:40-1:13PM	81 F, Sun, 6 mph wind	1/17/2019	1:07-1:43PM	26 F, Sun, 6 mph wind	6/27/2019	1:14-1:46PM	83 F, Sun, 4 mph wind
Bedford 1H	3/27/2018	5/25/2018	12:53-1:24PM	78 F, Sun, 2 mph wind	11/14/2018	11:29-12:04PM	34 F, Sun, 10 mph wind	5/2/2019	12:56-1:28PM	66 F, Sun, Calm	N/A [b]		
Bedford 4H	3/26/2018	5/25/2018	12:53-1:24PM	78 F, Sun, 2 mph wind	11/14/2018	11:29-12:04PM	34 F, Sun, 10 mph wind	5/2/2019	12:56-1:28PM	66 F, Sun, Calm	N/A [b]		
Beirne Green Hills A-1H	12/30/2017	2/23/2018	11:49AM-12:30PM	39 F, Rain, 6 mph wind	8/9/2018	9:53-10:29AM	73 F, Cloudy, 3 mph wind	1/17/2019	10:10-10:52AM	25 F, Sun, 6 mph wind	5/30/2019	11:05-11:46AM	64 F, Cloudy, Calm
Beirne Green Hills A-2H	12/30/2017	2/23/2018	11:49AM-12:30PM	39 F, Rain, 6 mph wind	8/9/2018	9:53-10:29AM	73 F, Cloudy, 3 mph wind	1/17/2019	10:10-10:52AM	25 F, Sun, 6 mph wind	5/30/2019	11:05-11:46AM	64 F, Cloudy, Calm
Beirne Green Hills A-4H	12/30/2017	2/23/2018	11:49AM-12:30PM	39 F, Rain, 6 mph wind	8/9/2018	9:53-10:29AM	73 F, Cloudy, 3 mph wind	1/17/2019	10:10-10:52AM	25 F, Sun, 6 mph wind	5/30/2019	11:05-11:46AM	64 F, Cloudy, Calm
C. Pepper Unit 1H	3/10/2019	5/9/2019	12:37-1:25PM	56F, Sun, 7 mph wind	N/A [b]			N/A [b]			N/A [b]		
C. Pepper Unit 2H	3/10/2019	5/9/2019	12:37-1:25PM	56F, Sun, 7 mph wind	N/A [b]			N/A [b]			N/A [b]		
Czop 2H	3/28/2017	4/27/2017	1:35-2:24PM	67 F, Cloudy, 7 mph wind	8/24/2018	3:38-4:09PM	77 F, Sun, 7 mph wind	2/15/2019	3:07-3:32PM	45 F, Cloudy, 4 mph wind	7/31/2019	2:57-3:29PM	82 F, Rain, 5 mph wind
G&S Big Rigger 2H	9/10/2016	9/28/2016	10:51AM-12:02PM	70 F, Sun, 6 mph wind	8/9/2018	11:01-12:08PM	77 F, Cloudy, 3 mph wind	1/17/2019	11:28-12:38PM	27 F, Sun, 6 mph wind	6/27/2019	10:03-11:10AM	80 F, Sun, 4 mph wind
G&S Big Rigger 3H	9/10/2016	9/28/2016	10:51AM-12:02PM	70 F, Sun, 6 mph wind	8/9/2018	11:01-12:08PM	77 F, Cloudy, 3 mph wind	1/17/2019	11:28-12:38PM	27 F, Sun, 6 mph wind	6/27/2019	10:03-11:10AM	80 F, Sun, 4 mph wind
G&S Big Rigger 4H	9/11/2016	9/28/2016	10:51AM-12:02PM	70 F, Sun, 6 mph wind	8/9/2018	11:01-12:08PM	77 F, Cloudy, 3 mph wind	1/17/2019	11:28-12:38PM	27 F, Sun, 6 mph wind	6/27/2019	10:03-11:10AM	80 F, Sun, 4 mph wind
G&S Big Rigger 5H	9/10/2016	9/28/2016	10:51AM-12:02PM	70 F, Sun, 6 mph wind	8/9/2018	11:01-12:08PM	77 F, Cloudy, 3 mph wind	1/17/2019	11:28-12:38PM	27 F, Sun, 6 mph wind	6/27/2019	10:03-11:10AM	80 F, Sun, 4 mph wind
G&S Big Rigger 6H	9/10/2016	9/28/2016	10:51AM-12:02PM	70 F, Sun, 6 mph wind	8/9/2018	11:01-12:08PM	77 F, Cloudy, 3 mph wind	1/17/2019	11:28-12:38PM	27 F, Sun, 6 mph wind	6/27/2019	10:03-11:10AM	80 F, Sun, 4 mph wind
Hart North 1H	10/23/2017	11/29/2017	4:42-5:09PM	48 F, Cloudy, 6 mph wind	11/16/2018	1:15-1:48PM	34 F, Cloudy, 6 mph wind	5/2/2019	11:49-12:41PM	66 F, Sun, Calm	N/A [b]		
Hart North 2H	9/9/2016	9/28/2016	12:40-1:24PM	68 F, Sun, 6 mph wind	12/11/2018	1:03-1:29PM	25 F, Cloudy, 7 mph wind	5/2/2019	11:49-12:41PM	66 F, Sun, Calm	N/A [b]		
Hart North 3H	3/17/2018	4/27/2018	10:15-11:28AM	48 F, Rain, 5 mph wind	10/5/2018	10:41-11:45AM	62 F, Cloudy, 6 mph wind	3/15/2019	12:35-1:52PM	62 F, Cloudy, 3 mph wind	N/A [b]		
Hart North 4H	3/19/2018	4/27/2018	10:15-11:28AM	48 F, Rain, 5 mph wind	10/5/2018	10:41-11:45AM	62 F, Cloudy, 6 mph wind	3/15/2019	12:35-1:52PM	62 F, Cloudy, 3 mph wind	N/A [b]		
Hart North 5H	3/20/2018	4/27/2018	10:15-11:28AM	48 F, Rain, 5 mph wind	10/5/2018	10:41-11:45AM	62 F, Cloudy, 6 mph wind	3/15/2019	12:35-1:52PM	62 F, Cloudy, 3 mph wind	N/A [b]		
Hart South 1H	9/9/2016	9/28/2016	12:40-1:24PM	68 F, Sun, 6 mph wind	12/11/2018	1:03-1:29PM	25 F, Cloudy, 7 mph wind	5/2/2019	11:49-12:41PM	66 F, Sun, Calm	N/A [b]		
Hart South 2H	10/24/2017	11/29/2017	4:42-5:09PM	48 F, Cloudy, 6 mph wind	11/16/2018	1:15-1:48PM	34 F, Cloudy, 6 mph wind	5/2/2019	11:49-12:41PM	66 F, Sun, Calm	N/A [b]		
Hemlock Hunting Club 2H	10/11/2016	11/3/2016	12:02-1:09PM	58 F, Cloudy, 4 mph wind	8/9/2018	1:34-2:20PM	82 F, Sun, 6 mph wind	1/17/2019	2:08-3:02PM	26 F, Sun, 6 mph wind	6/27/2019	11:52-12:46PM	82 F, Sun, 4 mph wind
Hemlock Hunting Club 3H	10/11/2016	11/3/2016	12:02-1:09PM	58 F, Cloudy, 4 mph wind	8/9/2018	1:34-2:20PM	82 F, Sun, 6 mph wind	1/17/2019	2:08-3:02PM	26 F, Sun, 6 mph wind	6/27/2019	11:52-12:46PM	82 F, Sun, 4 mph wind
Hemlock Hunting Club 4H	10/12/2016	11/3/2016	12:02-1:09PM	58 F, Cloudy, 4 mph wind	8/9/2018	1:34-2:20PM	82 F, Sun, 6 mph wind	1/17/2019	2:08-3:02PM	26 F, Sun, 6 mph wind	6/27/2019	11:52-12:46PM	82 F, Sun, 4 mph wind
Hemlock Hunting Club 5H	10/13/2016	11/3/2016	12:02-1:09PM	58 F, Cloudy, 4 mph wind	8/9/2018	1:34-2:20PM	82 F, Sun, 6 mph wind	1/17/2019	2:08-3:02PM	26 F, Sun, 6 mph wind	6/27/2019	11:52-12:46PM	82 F, Sun, 4 mph wind
Hemlock Hunting Club B-1H	10/10/2017	11/29/2017	3:55-4:27PM	53 F, Cloudy, 6 mph wind	11/14/2018	12:26-12:55PM	33 F, Sun, 10 mph wind	5/2/2019	1:49-2:18PM	67 F, Sun, Calm	N/A [b]		
Hemlock Hunting Club B-2H	10/10/2017	11/29/2017	3:55-4:27PM	53 F, Cloudy, 6 mph wind	11/14/2018	12:26-12:55PM	33 F, Sun, 10 mph wind	5/2/2019	1:49-2:18PM	67 F, Sun, Calm	N/A [b]		
Hurley 2H	6/15/2017	6/28/2017	9:50-10:26AM	77 F, Sun, 5 mph wind	9/13/2018	12:40-1:14PM	76 F, Cloudy, 1 mph wind	3/7/2019	12:30-1:04PM	32 F, Cloudy, 5 mph wind	N/A [b]		
Hurley 3H	6/15/2017	6/28/2017	9:50-10:26AM	77 F, Sun, 5 mph wind	9/13/2018	12:40-1:14PM	76 F, Cloudy, 1 mph wind	3/7/2019	12:30-1:04PM	32 F, Cloudy, 5 mph wind	N/A [b]		
Hurley B-1H	6/8/2017	7/27/2017	11:47AM -12:22PM	80 F, Sun, 3 mph wind	9/13/2018	1:29-2:02PM	76 F, Cloudy, 1 mph wind	3/7/2019	1:16-1:47PM	32 F, Cloudy, 5 mph wind	N/A [b]		
IDC-Innes 4H	8/4/2018	8/17/2018	10:10-11:28AM	73 F, Cloudy, 7 mph wind	2/8/2019	10:20-11:42AM	42 F, Cloudy, 11 mph wind	7/18/2019	11:01-12:13PM	83 F, Cloudy, 2 mph wind	N/A [b]		
I. Harvey 1H	1/27/2017	2/22/2017	10:18-11:20AM	47 F, Cloudy, 4 mph wind	11/14/2018	2:07-2:41PM	33 F, Sun, 10 mph wind	5/2/2019	3:27-4:02PM	67 F, Sun, Calm	N/A [b]		
I. Harvey 2H	1/25/2017	2/22/2017	10:18-11:20AM	47 F, Cloudy, 4 mph wind	11/14/2018	2:07-2:41PM	33 F, Sun, 10 mph wind	5/2/2019	3:27-4:02PM	67 F, Sun, Calm	N/A [b]		
J. Brown North 2H	4/2/2016	5/10/2017	10:10-10:46 AM	53 F, Sun, 7 mph wind	9/13/2018	9:53-10:14AM	69 F, Cloudy, 1 mph wind	3/7/2019	10:08-10:27AM	29 F, Cloudy, 5 mph wind	N/A [b]		
Jacobson 1H	8/31/2017	10/25/2017	2:52-3:30 PM	57 F, Sun, 10 mph wind	9/13/2018	10:46-11:25AM	70 F, Cloudy, 1 mph wind	3/7/2019	11:08-11:41AM	30 F, Cloudy, 5 mph wind	N/A [b]		
Jacobson 2H	8/31/2017	10/25/2017	2:52-3:30 PM	57 F, Sun, 10 mph wind	9/13/2018	10:46-11:25AM	70 F, Cloudy, 1 mph wind	3/7/2019	11:08-11:41AM	30 F, Cloudy, 5 mph wind	N/A [b]		
Kaufmann East 4H	12/15/2018	2/8/2019	9:17-9:42AM	44 F, Cloudy, 11 mph wind	7/18/2019	9:40-10:08AM	81 F, Cloudy, 2 mph wind	N/A [b]			N/A [b]		
Kaufmann East 5H	12/15/2018	2/8/2019	9:17-9:42AM	44 F, Cloudy, 11 mph wind	7/18/2019	9:40-10:08AM	81 F, Cloudy, 2 mph wind	N/A [b]			N/A [b]		
Kuziak B-3H	1/9/2017	2/22/2017	9:25-9:49AM	45 F, Cloudy, 4 mph wind	8/9/2018	2:41-3:09PM	83 F, Sun, 6 mph wind	1/17/2019	3:19-3:40PM	26 F, Sun, 6 mph wind	6/27/2019	2:17-2:36PM	84 F, Sun, 4 mph wind
L&L Construction A-2H	6/1/2017	6/28/2017	1:04-1:48 PM	77 F, Sun, 5 mph wind	10/5/2018	2:27-3:05PM	62 F, Cloudy, 6 mph wind	3/15/2019	9:34-10:02AM	54 F, Cloudy, 3 mph wind	N/A [b]		
L&L Construction A-3H	6/2/2017	6/28/2017	1:04-1:48 PM	77 F, Sun, 5 mph wind	10/5/2018	2:27-3:05PM	62 F, Cloudy, 6 mph wind	3/15/2019	9:34-10:02AM	54 F, Cloudy, 3 mph wind	N/A [b]		
L. Kingsley NE 3H	11/19/2018	12/11/2018	10:07-11:39AM	25 F, Cloudy, 7 mph wind	5/9/2019	2:16-3:25PM	58 F, Sun, 3 mph wind	N/A [b]			N/A [b]		
L. Kingsley NE 4H	11/19/2018	12/11/2018	10:07-11:39AM	25 F, Cloudy, 7 mph wind	5/9/2019	2:16-3:25PM	58 F, Sun, 3 mph wind	N/A [b]			N/A [b]		
L. Kingsley NW 1H	11/19/2018	12/11/2018	10:07-11:39AM	25 F, Cloudy, 7 mph wind	5/9/2019	2:16-3:25PM	58 F, Sun, 3 mph wind	N/A [b]			N/A [b]		
L. Kingsley NW 2H	11/19/2018	12/11/2018	10:07-11:39AM	25 F, Cloudy, 7 mph wind	5/9/2019	2:16-3:25PM	58 F, Sun, 3 mph wind	N/A [b]			N/A [b]		
L. Kingsley SE 3H	11/19/2018	12/11/2018	10:07-11:39AM	25 F, Cloudy, 7 mph wind	5/9/2019	2:16-3:25PM	58 F, Sun, 3 mph wind	N/A [b]			N/A [b]		
L. Kingsley SE 4H	11/19/2018	12/11/2018	10:07-11:39AM	25 F, Cloudy, 7 mph wind	5/9/2019	2:16-3:25PM	58 F, Sun, 3 mph wind	N/A [b]			N/A [b]		
L. Kingsley SW 1H	11/19/2018	12/11/2018	10:07-11:39AM	25 F, Cloudy, 7 mph wind	5/9/2019	2:16-3:25PM	58 F, Sun, 3 mph wind	N/A [b]			N/A [b]		
L. Kingsley SW 2H	11/19/2018	12/11/2018	10:07-11:39AM	25 F, Cloudy, 7 mph wind	5/9/2019	2:16-3:25PM	58 F, Sun, 3 mph wind	N/A [b]			N/A [b]		
Larry Baumunk 1H	3/29/2017	4/27/2017	1:35-2:24PM	67 F, Cloudy, 7 mph wind	8/24/2018	3:38-4:09PM	77 F, Sun, 7 mph wind	2/15/2019	3:07-3:32PM	45 F, Cloudy, 4 mph wind	7/31/2019	2:57-3:29PM	82 F, Rain, 5 mph wind
Lightcap North 1H	3/16/2018	4/27/2018	10:15-11:28AM	48 F, Rain, 5 mph wind	10/5/2018	10:41-11:45AM	62 F, Cloudy, 6 mph wind	3/15/2019	12:35-1:52PM	62 F, Cloudy, 3 mph wind	N/A [b]		
Lightcap North 2H	3/16/2018	4/27/2018	10:15-11:28AM	48 F, Rain, 5 mph wind	10/5/2018	10:41-11:45AM	62 F, Cloudy, 6 mph wind	3/15/2019	12:35-1:52PM	62 F, Cloudy, 3 mph wind	N/A [b]		
Lightcap North BRA 4H	3/16/2018	4/27/2018	10:15-11:28AM	48 F, Rain, 5 mph wind	10/5/2018	10:41-11:45AM	62 F, Cloudy, 6 mph wind	3/15/2019	12:35-1:52PM	62 F, Cloudy, 3 mph wind	N/A [b]		
Martino 1H	4/9/2017	4/27/2017	9:52-10:35AM	65 F, Cloudy, 7 mph wind	8/24/2018	1:27-1:58PM	76 F, Sun, 4 mph wind	2/15/2019	12:35-1:06PM	44 F, Cloudy, 4 mph wind	7/31/2019	11:19-11:52AM	79 F, Rain, 5 mph wind
Martino 2H	4/9/2017	4/27/2017	9:52-10:35AM	65 F, Cloudy, 7 mph wind	8/24/2018	1:27-1:58PM	76 F, Sun, 4 mph wind	2/15/2019	12:35-1:06PM	44 F, Cloudy, 4 mph wind	7/31/2019	11:19-11:52AM	79 F, Rain, 5 mph wind
Mehalick 2H	1/14/2019	2/8/2019	8:45-9:01AM	44 F, Cloudy, 11 mph wind	7/18/2019	9:01-9:18AM	81 F, Cloudy, 2 mph wind	N/A [b]			N/A [b]		
Nelson 2H	7/18/2017	7/27/2017	1:10-1:48PM	81 F, Sun, 3 mph wind	11/14/2018	9:40-10:12AM	32 F, Sun, 10 mph wind	5/2/2019	11:07-11:36AM	64 F, Sun, Calm	N/A [b]		

Table B-2
Chief Oil & Gas LLC
40 CFR Part 60, Subpart OOOOa Fugitive Emissions Monitoring Survey Summary
August 3, 2018 to August 2, 2019 Reporting Period

Well Name	First Production Date	Initial Inspection			Subsequent Semiannual Inspections [a]								
		Date	Start/End Time	Weather	Date	Start/End Time	Weather	Date	Start/End Time	Weather	Date	Start/End Time	Weather
Nelson 3H	7/18/2017	7/27/2017	1 10-1 48PM	81 F, Sun, 3 mph wind	11/14/2018	9 40-10 12AM	32 F, Sun, 10 mph wind	5/2/2019	11 07-11 36AM	64 F, Sun, Calm	N/A [b]		
P. Cullen A-1H	4/4/2017	4/27/2017	11 07-11 49 AM	67 F, Cloudy, 7 mph wind	8/24/2018	11 42-12 06PM	70 F, Sun, 4 mph wind	2/15/2019	11 09-11 28AM	40 F, Cloudy, 4 mph wind	7/31/2019	12 17-12 38PM	81 F, Rain, 5 mph wind
Raimo 1H	6/17/2019	7/31/2019	9 32-10 46AM	79 F, Rain, 5 mph wind	N/A [b]			N/A [b]			N/A [b]		
Raimo 2H	6/17/2019	7/31/2019	9 32-10 46AM	79 F, Rain, 5 mph wind	N/A [b]			N/A [b]			N/A [b]		
Raimo East 1H	6/28/2019	7/31/2019	9 32-10 46AM	79 F, Rain, 5 mph wind	N/A [b]			N/A [b]			N/A [b]		
Raimo East 2H	6/28/2019	7/31/2019	9 32-10 46AM	79 F, Rain, 5 mph wind	N/A [b]			N/A [b]			N/A [b]		
Raimo 3H	2/3/2018	3/22/2018	2 08-2 55PM	40 F, Sun, 7 mph wind	8/24/2018	9 50-10 39AM	62 F, Cloudy, 3 mph wind	2/15/2019	9 50-10 41AM	40 F, Cloudy, 4 mph wind	7/31/2019	9 32-10 46AM	79 F, Rain, 5 mph wind
Raimo 4H	2/6/2018	3/22/2018	2 08-2 55PM	40 F, Sun, 7 mph wind	8/24/2018	9 50-10 39AM	62 F, Cloudy, 3 mph wind	2/15/2019	9 50-10 41AM	40 F, Cloudy, 4 mph wind	7/31/2019	9 32-10 46AM	79 F, Rain, 5 mph wind
Raimo East 3H	2/4/2018	3/22/2018	2 08-2 55PM	40 F, Sun, 7 mph wind	8/24/2018	9 50-10 39AM	62 F, Cloudy, 3 mph wind	2/15/2019	9 50-10 41AM	40 F, Cloudy, 4 mph wind	7/31/2019	9 32-10 46AM	79 F, Rain, 5 mph wind
Raimo East 4H	2/3/2018	3/22/2018	2 08-2 55PM	40 F, Sun, 7 mph wind	8/24/2018	9 50-10 39AM	62 F, Cloudy, 3 mph wind	2/15/2019	9 50-10 41AM	40 F, Cloudy, 4 mph wind	7/31/2019	9 32-10 46AM	79 F, Rain, 5 mph wind
SA Wilson 1H	12/6/2015	5/24/2017	10 04-10 28AM	64 F, Sun, 8 mph wind	8/24/2018	12 29-12 54PM	73 F, Sun, 4 mph wind	2/15/2019	11 45-12 02PM	40 F, Cloudy, 4 mph wind	7/31/2019	12 51-1 09PM	81 F, Rain, 5 mph wind
SGL-12 A-2H	6/6/2016	5/10/2017	11 51AM-1 02PM	55 F, Sun, 7 mph wind	8/17/2018	1 34-2 28PM	80 F, Cloudy, 3 mph wind	2/8/2019	1 56-2 49PM	42 F, Cloudy, 11 mph wind	7/18/2019	2 14-3 11PM	83 F, Cloudy, 2 mph wind
SGL-12 A-3H	6/6/2016	5/10/2017	11 51AM-1 02PM	55 F, Sun, 7 mph wind	8/17/2018	1 34-2 28PM	80 F, Cloudy, 3 mph wind	2/8/2019	1 56-2 49PM	42 F, Cloudy, 11 mph wind	7/18/2019	2 14-3 11PM	83 F, Cloudy, 2 mph wind
SGL-12 A-4H	6/7/2016	5/10/2017	11 51AM-1 02PM	55 F, Sun, 7 mph wind	8/17/2018	1 34-2 28PM	80 F, Cloudy, 3 mph wind	2/8/2019	1 56-2 49PM	42 F, Cloudy, 11 mph wind	7/18/2019	2 14-3 11PM	83 F, Cloudy, 2 mph wind
SGL-12 A-6H	6/5/2016	5/10/2017	11 51AM-1 02PM	55 F, Sun, 7 mph wind	8/17/2018	1 34-2 28PM	80 F, Cloudy, 3 mph wind	2/8/2019	1 56-2 49PM	42 F, Cloudy, 11 mph wind	7/18/2019	2 14-3 11PM	83 F, Cloudy, 2 mph wind
SGL-12 B North 1H	10/5/2017	10/25/2017	12 55-2 03 PM	54 F, Sun, 10 mph wind	8/17/2018	12 36-1 27PM	79 F, Cloudy, 5 mph wind	2/8/2019	12 57-1 44PM	42 F, Cloudy, 11 mph wind	7/18/2019	1 10-2 04PM	83 F, Cloudy, 2 mph wind
SGL-12 B South 1H	10/6/2017	10/25/2017	12 55-2 03 PM	54 F, Sun, 10 mph wind	8/17/2018	12 36-1 27PM	79 F, Cloudy, 5 mph wind	2/8/2019	12 57-1 44PM	42 F, Cloudy, 11 mph wind	7/18/2019	1 10-2 04PM	83 F, Cloudy, 2 mph wind
SGL-12 B North 3H	10/7/2017	10/25/2017	12 55-2 03 PM	54 F, Sun, 10 mph wind	8/17/2018	12 36-1 27PM	79 F, Cloudy, 5 mph wind	2/8/2019	12 57-1 44PM	42 F, Cloudy, 11 mph wind	7/18/2019	1 10-2 04PM	83 F, Cloudy, 2 mph wind
SGL-12 B South 3H	10/5/2017	10/25/2017	12 55-2 03 PM	54 F, Sun, 10 mph wind	8/17/2018	12 36-1 27PM	79 F, Cloudy, 5 mph wind	2/8/2019	12 57-1 44PM	42 F, Cloudy, 11 mph wind	7/18/2019	1 10-2 04PM	83 F, Cloudy, 2 mph wind
SGL-12 C East 3H	6/28/2018	8/17/2018	11 40AM-12 22PM	75 F, Cloudy, 7 mph wind	2/8/2019	12 05-12 41PM	42 F, Cloudy, 11 mph wind	7/18/2019	12 21-12 57PM	83 F, Cloudy, 2 mph wind	N/A [b]		
SGL-12 C East 4H	6/26/2018	8/17/2018	11 40AM-12 22PM	75 F, Cloudy, 7 mph wind	2/8/2019	12 05-12 41PM	42 F, Cloudy, 11 mph wind	7/18/2019	12 21-12 57PM	83 F, Cloudy, 2 mph wind	N/A [b]		
SGL-12 C West 3H	7/12/2018	8/17/2018	11 40AM-12 22PM	75 F, Cloudy, 7 mph wind	2/8/2019	12 05-12 41PM	42 F, Cloudy, 11 mph wind	7/18/2019	12 21-12 57PM	83 F, Cloudy, 2 mph wind	N/A [b]		
SGL-12 D East 3H	8/4/2018	8/17/2018	10 10-11 28AM	73 F, Cloudy, 7 mph wind	2/8/2019	10 20-11 42AM	42 F, Cloudy, 11 mph wind	7/18/2019	11 01-12 13PM	83 F, Cloudy, 2 mph wind	N/A [b]		
SGL-12 D East 4H	8/4/2018	8/17/2018	10 10-11 28AM	73 F, Cloudy, 7 mph wind	2/8/2019	10 20-11 42AM	42 F, Cloudy, 11 mph wind	7/18/2019	11 01-12 13PM	83 F, Cloudy, 2 mph wind	N/A [b]		
SGL-12 D West 1H	8/4/2018	8/17/2018	10 10-11 28AM	73 F, Cloudy, 7 mph wind	2/8/2019	10 20-11 42AM	42 F, Cloudy, 11 mph wind	7/18/2019	11 01-12 13PM	83 F, Cloudy, 2 mph wind	N/A [b]		
SGL-12 D West 3H	8/4/2018	8/17/2018	10 10-11 28AM	73 F, Cloudy, 7 mph wind	2/8/2019	10 20-11 42AM	42 F, Cloudy, 11 mph wind	7/18/2019	11 01-12 13PM	83 F, Cloudy, 2 mph wind	N/A [b]		
SGL-12 D West 4H	8/4/2018	8/17/2018	10 10-11 28AM	73 F, Cloudy, 7 mph wind	2/8/2019	10 20-11 42AM	42 F, Cloudy, 11 mph wind	7/18/2019	11 01-12 13PM	83 F, Cloudy, 2 mph wind	N/A [b]		
SGL-12 Hardy North 1H	10/26/2018	12/11/2018	12 05-12 39 PM	23 F, Cloudy, 7 mph wind	5/9/2019	3 50-4 22PM	57F, Sun, 7 mph wind	N/A [b]			N/A [b]		
SGL-12 Hardy SW 2H	10/26/2018	12/11/2018	12 05-12 39 PM	23 F, Cloudy, 7 mph wind	5/9/2019	3 50-4 22PM	57F, Sun, 7 mph wind	N/A [b]			N/A [b]		
SGL-12 K South 1H	11/11/2018	12/11/2018	2 20-2 48PM	24 F, Cloudy, 7 mph wind	5/9/2019	11 11-11 26AM	56F, Sun, 7 mph wind	N/A [b]			N/A [b]		
SGL-12 L North 4H	5/1/2019	5/9/2019	11 35-12 26PM	56F, Sun, 7 mph wind	N/A [b]			N/A [b]			N/A [b]		
SGL-12 M North 1H	5/1/2019	5/9/2019	11 35-12 26PM	56F, Sun, 7 mph wind	N/A [b]			N/A [b]			N/A [b]		
SGL-12 M North 2H	5/1/2019	5/9/2019	11 35-12 26PM	56F, Sun, 7 mph wind	N/A [b]			N/A [b]			N/A [b]		
SGL-12 N East 1H	3/10/2019	5/9/2019	12 37-1 25PM	56F, Sun, 7 mph wind	N/A [b]			N/A [b]			N/A [b]		
SGL-12 N East 2H	3/10/2019	5/9/2019	12 37-1 25PM	56F, Sun, 7 mph wind	N/A [b]			N/A [b]			N/A [b]		
SGL-12 N West 1H	5/1/2019	5/9/2019	11 35-12 26PM	56F, Sun, 7 mph wind	N/A [b]			N/A [b]			N/A [b]		
SGL-12 N West 2H	3/10/2019	5/9/2019	12 37-1 25PM	56F, Sun, 7 mph wind	N/A [b]			N/A [b]			N/A [b]		
SGL-12 N West 3H	3/10/2019	5/9/2019	12 37-1 25PM	56F, Sun, 7 mph wind	N/A [b]			N/A [b]			N/A [b]		
Savage 2H	4/12/2018	4/13/2018	10 37-11 29AM	65 F, Sun, 4 mph wind	8/24/2018	2 16-3 04PM	76 F, Sun, 6 mph wind	2/15/2019	1 38-2 29PM	46 F, Cloudy, 4 mph wind	7/31/2019	1 25-2 19PM	82 F, Rain, 5 mph wind
Savage 3H	4/12/2018	4/13/2018	10 37-11 29AM	65 F, Sun, 4 mph wind	8/24/2018	2 16-3 04PM	76 F, Sun, 6 mph wind	2/15/2019	1 38-2 29PM	46 F, Cloudy, 4 mph wind	7/31/2019	1 25-2 19PM	82 F, Rain, 5 mph wind
Savage South 2H	4/14/2018	4/13/2018	10 37-11 29AM	65 F, Sun, 4 mph wind	8/24/2018	2 16-3 04PM	76 F, Sun, 6 mph wind	2/15/2019	1 38-2 29PM	46 F, Cloudy, 4 mph wind	7/31/2019	1 25-2 19PM	82 F, Rain, 5 mph wind
Savage South 3H	4/13/2018	4/13/2018	10 37-11 29AM	65 F, Sun, 4 mph wind	8/24/2018	2 16-3 04PM	76 F, Sun, 6 mph wind	2/15/2019	1 38-2 29PM	46 F, Cloudy, 4 mph wind	7/31/2019	1 25-2 19PM	82 F, Rain, 5 mph wind
Signore North 4H	10/18/2016	11/3/2016	10 50-11 26 AM	57 F, Cloudy, 4 mph wind	10/5/2018	9 42-10 15AM	59 F, Cloudy, 6 mph wind	3/15/2019	2 32-3 04PM	65 F, Cloudy, 3 mph wind	N/A [b]		
Signore North 5H	10/17/2016	11/3/2016	10 50-11 26 AM	57 F, Cloudy, 4 mph wind	10/5/2018	9 42-10 15AM	59 F, Cloudy, 6 mph wind	3/15/2019	2 32-3 04PM	65 F, Cloudy, 3 mph wind	N/A [b]		
Warburton North 1H	6/9/2016	7/13/2017	9 48-10 26 AM	79 F, Rain, 2 mph wind	11/14/2018	1 26-1 42PM	33 F, Sun, 10 mph wind	5/2/2019	2 45-3 01PM	67 F, Sun, Calm	N/A [b]		
Wissler South 2H	9/21/2018	10/25/2018	10 02-10 37 AM	44 F, Cloudy, 8 mph wind	3/21/2019	11 28-11 59AM	42 F, Cloudy, 8 mph wind	N/A [b]			N/A [b]		
Wissler South 3H	9/21/2018	10/25/2018	10 02-10 37 AM	44 F, Cloudy, 8 mph wind	3/21/2019	11 28-11 59AM	42 F, Cloudy, 8 mph wind	N/A [b]			N/A [b]		
Yoder 2H	11/2/2017	11/29/2017	2 48-3 17PM	58 F, Sun, 4 mph wind	11/9/2018	12 43-1 14PM	37 F, Light Rain, 7 mph wind	5/2/2019	9 14-9 39AM	61 F, Sun, Calm	N/A [b]		
Yoder 3H	11/1/2017	11/29/2017	2 48-3 17PM	58 F, Sun, 4 mph wind	11/9/2018	12 43-1 14PM	37 F, Light Rain, 7 mph wind	5/2/2019	9 14-9 39AM	61 F, Sun, Calm	N/A [b]		
Yonkin 1H	5/25/2017	6/28/2017	10 41-11 29 AM	77 F, Sun, 5 mph wind	9/13/2018	2 17-2 48PM	77 F, Cloudy, 1 mph wind	3/7/2019	2 04-2 40PM	33 F, Cloudy, 5 mph wind	N/A [b]		
Yonkin 3H	5/25/2017	6/28/2017	10 41-11 29 AM	77 F, Sun, 5 mph wind	9/13/2018	2 17-2 48PM	77 F, Cloudy, 1 mph wind	3/7/2019	2 04-2 40PM	33 F, Cloudy, 5 mph wind	N/A [b]		
Yonkin B-1H	6/8/2017	7/27/2017	11 47AM-12 22PM	80 F, Sun, 3 mph wind	9/13/2018	1 29-2 02PM	76 F, Cloudy, 1 mph wind	3/7/2019	1 16-1 47PM	32 F, Cloudy, 5 mph wind	N/A [b]		

[a] This table only shows subsequent inspections that were conducted during the reporting period. Chief conducts LDAR inspections semiannually, as required by subpart OOOOa.

[b] At the time of this submittal, this subsequent semiannual inspection was not yet completed. Chief will complete the inspection by the semi-annual deadline established under Subpart OOOOa.

Table B-3

Chief Oil & Gas, LLC

40 CFR Part 60, Subpart OOOOa Fugitive Emissions Monitoring Survey Summary of Leaks

August 3, 2018 to August 2, 2019 Reporting Period

Well Pad ID [a]	Leak Detection Date	Leak Detection Equipment	Leak Repair Date	Leak Repair Verification
Ambrosius B 1H	3/15/2019	Bascom Turner Gas Explorer	3/15/2019	Soap Bubble Test
	Description of Repairs: A vent plug on the flow line leading into the GPU of the Ambrosius B 1H was leaking around the threading (24% LEL). A new vent plug was installed and per the soap bubble test, the leak was fully repaired the same day.			
G&S Big Rigger 2H	1/17/2019	Bascom Turner Gas Explorer	1/17/2019	Soap Bubble Test
	Description of Repairs: The first cut regulator on supply line inside the GPU of the G&S Big Rigger 2H was leaking (100% Gas). The leaking regulator component was replaced and per the soap bubble test, the leak was fully repaired the same day.			
SA Wilson 1H	7/31/2019	Bascom Turner Gas Explorer	7/31/2019	Soap Bubble Test
	Description of Repairs: A regulator in the GPU of the SA Wilson 1H had a cracked diaphram which led to a leak (53% gas). Regulator was rebuilt and per the soap bubble test, the leak was fully repaired the same day.			
Yonkin 3H	9/13/2018	Bascom Turner Gas Explorer	9/13/2018	Soap Bubble Test
	Description of Repairs: A stainless steel fitting on the supply gas line to the ESD was leaking around the threads on the Yonkin 3H well head (43% LEL). The fitting was tightened and per the soap bubble test, the leak was fully repaired the same day.			

[a] Chief detected leaks during these semi-annual monitoring surveys. Chief is submitting these records in compliance with 40 CFR §60.5420a(b)(7)(vii) and (x).