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ConocoPhillips

Brad Broker/Catie Coursen
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June 28, 2019

Certified Mail
Return Receipt Requested
7018 0360 0000 6624 6784

Clean Air Act Compliance Manager
U.S. EPA - Region 10. OCE-101
1200 6th Avenue; Suite 900
Seattle, WA 98101-3140

Subject: NSPS Subpart OOOOa
Annual Report – April 1, 2018 through March 31, 2019
Kuparuk River Unit

Dear Compliance Manager,

As required in 40 CFR 60.5420a(b), ConocoPhillips Alaska (COPA) submits the enclosed annual NSPS Subpart OOOOa report for the Kuparuk River Unit.

Per 40 CFR 60.5420a(b), the initial annual report for OOOOa is due, "no later than 90 days after the end of the initial compliance period as determined according to §60.5410a. Subsequent annual reports are due no later than the same date each year as the initial annual report."

Pursuant to 40 CFR 60.5420a(b), COPA elected to submit the initial annual OOOOa report by June 29th. The initial report on June 29, 2017 covered a reporting period of less than one year (reporting sooner than October 30, 2017). Subsequent annual reports have been submitted no later than June 29 each year, satisfying the requirement for an alternate reporting deadline.

Should you have any questions regarding this submittal, please contact the Kuparuk Environmental Coordinator at (907) 659-7242.

Sincerely,

Brad Broker/Catie Coursen
Environmental Coordinator

Enclosures

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I. General Information

ConocoPhillips Alaska, Inc.
700 G Street
P.O. Box 100360
Anchorage, AK 99510-0360

Facility Site Name: Kuparuk River Unit

Location: Kuparuk Oil Field
Latitude: 70.323720° (Central Production Facility 1)
Longitude: -149.611196° (Central Production Facility 1)

Affected Facilities Included in This Annual Report

Affected Facilities:	Subject to Reporting?
Hydraulically fractured/refractured wells [§60.5365a(a)]	Yes
Centrifugal compressors [§60.5365a(b)]	No
Reciprocating compressors [§60.5365a(c)]	No
Pneumatic controllers [§60.5365a(d)]	Not Applicable
Storage vessels [§60.5365(e)]	No
Pneumatic pumps [§60.5365a(h)]	Not Applicable
Fugitive emission components at a well site or compressor station [§60.5365a(i) and §60.5365a(j)]	Yes

II. Report Certification

Reporting Period Start: April 1, 2018
Reporting Period End: March 31, 2019

Statement of Certification

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Signature: _____ Date: 06/25/19
Ty Maxey
GKA Operations Manager

III. Reporting Requirements and Documentation

Citation	Requirements	Data Location
Well Affected Facilities		
§60.5420a(b)(2)(i); §60.5420a(c)(1)(i); and §60.5420a(c)(1)(iii)	I. Records of the following for each well completion operation conducted during the reporting period: a. Well identification name b. Well location (latitude and longitude to five (5) decimal degrees c. API well number d. Date and time of the onset of flowback following hydraulic fracturing or refracturing e. Date and time of each attempt to direct flowback to a separator f. Date and time of each occurrence of returning flowback liquid to well completion or storage vessels (e.g. infeasible to operate separator) g. Date and time that well was shut in and flowback equipment permanently disconnected h. Duration of flowback (hours) i. Duration of gas recovery and type of recovery (hours) j. Duration of combustion (hours) k. Duration of venting and reason for venting in lieu of capture or combustion (hours)	See Attachment 1.
§60.5420a(b)(2)(ii); §60.5420a(c)(1)(ii); and §60.5420a(c)(2)(ii)	II. Records of deviations during the reporting period as specified in §60.5420a(c)(1)(ii).	No well affected facility deviations during the reporting period.
§60.5375a(f); §60.5420a(b)(2)(iii); §60.5420a(c)(1)(vii); and §60.5432a	III. Records that support a determination under §60.5432a that the well affected facility is a low pressure well.	No low pressure well designations during the reporting period

Citation	Requirements	Data Location
Fugitive Emission Component Affected Facilities (BOTH WELL SITES AND COMPRESSOR STATIONS)		
§60.5397a(h); and §60.5420a(b)(7)(i) through §60.5420a(b)(7)(xii)	l. For the collection of fugitive emission components at each well site and/or each compressor station within the company defined area, report for each monitoring survey: a. Date of the survey b. Beginning and end time of the survey c. Name of the operator(s) performing survey i. If the survey is performed by optical gas imaging, note the training and experience of the operator(s). d. Ambient temperature, sky conditions, and maximum wind speed at the time of the survey e. Monitoring instrument used f. Any deviations, or a statement that there were no deviations, from the monitoring plan g. Number and type of fugitive emissions components for which fugitive emissions were detected h. Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h) i. Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emissions components monitored j. The date of successful repair of each identified fugitive emissions component k. Number and type of fugitive emissions components placed on delay of repair and explanation for each delay of repair l. Type of instrument used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding	See Attachment 2.

Well Affected Facilities

ConocoPhillips Alaska

Table 1-A: Well Flowback Information

Well Name	Well Completion Operation Type	Location of the Well	API Well Number	Date	Time Start	Time End	Flowback Stage	Duration of Flowback[1] (hr/day)	Duration of Recovery to Flow Line[2] (hr/day)	Duration of Combustion (hr/day)	Duration of Venting (hr/day)	Reasons for Venting in Lieu of Capture or Combustion	Exception Claimed Under §60.5375a(a)(3)	Comments/Explanation
1Q-22	Routine Development	Lat: 70.36919° N Long: 149.768718° W	500292259500	10/5/2018	7:21 AM	7:21 AM	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Once fluids reached the surface, production was immediately started.
2S-315	Routine Development	Lat: 70.219503° N Long: 150.156734° W	501032077600	2/7/2019	12:00 AM	12:00 AM	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Once fluids reached the surface, production was immediately started.
3C-08A	Routine Development	Lat: 70.399912° N Long: 149.767583° W	50029213900100	1/26/2019	1:10 PM	1:10 PM	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Once fluids reached the surface, production was immediately started.
3S-611	Routine Development	Lat: 70.394492° N Long: 150.19326° W	501032077400	1/24/2019	3:38 PM	3:38 PM	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Once fluids reached the surface, production was immediately started.
3S-612	Routine Development	Lat: 70.394479° N Long: 150.193422° W	501032077700	2/1/2019	8:05 AM	8:05 AM	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Once fluids reached the surface, production was immediately started.

Notes:
1. If the daily "Duration of Flowback" is listed as "0.0", this indicates the well was shut-in for the entire day and no flowback occurred. If "Duration of Flowback" is non-zero, but recovery, combustion and venting are listed as "0.0", this indicates the well did not produce any gas.
2. Wildcat, delineation and low pressure wells are not required to reporting the Duration of Recovery to Flow Line [§60.5420a(c)(1)(iii)(B)]

Table 2-A: Fugitive Emission Component Affected Facility Records

							For OGI Camera Only		Survey Conditions		
Well Site No.	Location Name	Date of Survey[1]	Survey Start Time	Survey End Time	Name of Survey Operator	Survey Instrument	Operator Has Company Specific OGI Training?	Duration of Operator OGI Camera Experience	Ambient Temperature (°F)	Maximum Wind Speed (MPH)	Sky Conditions
1	1B	9/10/2018	18:30	20:45	Adam Tafoya Chuck Kindstrand	OGI Camera	Yes	10 months <1 month	35	12.7	Overcast
2	1C	9/19/2018	18:30	20:45	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 7 months 9 months	35	10	Clear
3	1D	6/22/2018[2]	18:30	19:45	Terry Kincaid	OGI Camera	Yes	1 year 4 months	39	11	Clear
4	1E	9/21/2018	18:00	20:30	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 7 months 9 months	30	5	Overcast
5	1G	9/14/2018	18:20	20:00	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 7 months 9 months	35	13.5	Overcast
6	1H	9/23/2018	18:30	20:30	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 7 months 9 months	31	10	Overcast
7	1L	9/8/2018	18:15	20:30	Adam Tafoya Chuck Kindstrand	OGI Camera	Yes	10 months <1 month	48	1.5	Overcast
8	1Q	1/27/2019	19:00	20:30	Adam Tafoya Chuck Kindstrand	OGI Camera	Yes	1 year 2 months 4 months	7	7.9	Clear
9	2A	9/2/2018	18:45	22:00	Adam Tafoya Chuck Kindstrand	OGI Camera	Yes	10 months <1 month	38	7.9	Overcast
10	2B	8/10/2018	18:30	20:30	Adam Tafoya Chuck Kindstrand	OGI Camera	Yes	9 months <1 month	52	6.2	Overcast
11	2E	8/27/2018	18:30	20:00	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 6 months 8 months	34	9	Overcast
12	2G	8/8/2018[2]	18:45	19:20	Adam Tafoya	OGI Camera	Yes	9 months	42	8.2	Overcast
13	2K	8/24/2018	18:30	20:15	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 6 months 8 months	37	11	Overcast
14	2M	8/20/2018	18:30	20:15	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 6 months 8 months	41	10	Overcast
15	2S	8/19/2018	18:30	19:45	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 6 months 8 months	52	6	Overcast
16	2T	8/26/2018	18:30	20:30	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 6 months 8 months	36	14	Overcast
17	2X	8/12/2018	18:30	21:30	Adam Tafoya Chuck Kindstrand	OGI Camera	Yes	9 months <1 month	51	5.2	Clear
18	2Z	8/17/2018	18:20	19:45	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 6 months 8 months	37	3	Overcast
19	3A	7/30/2018	20:00	21:00	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 5 months 7 months	70	9	Overcast
20	3F	8/1/2018	18:30	20:30	Terry Kincaid Adam Tafoya	OGI Camera	Yes	1 year 6 months 9 months	42	12.9	Overcast
21	3G	8/6/2018	18:30	21:30	Adam Tafoya Warren Cook	OGI Camera	Yes	9 months 9 months	43	5	Overcast
22	3H	9/6/2018	18:30	21:15	Adam Tafoya Chuck Kindstrand	OGI Camera	Yes	10 months <1 month	46	4.5	Overcast
23	3I	10/20/2018	18:30	20:15	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 8 months 10 months	25	12	Overcast
24	3K	7/29/2018	18:30	20:00	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 5 months 7 months	68	13	Clear
25	3M	7/30/2018	18:30	19:45	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 5 months 7 months	70	9	Overcast
26	3N	7/27/2018	18:45	20:00	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 5 months 7 months	44	13	Overcast
27	3O	7/25/2018	18:30	19:45	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 5 months 7 months	48	6	Clear
28	3Q	7/23/2018	18:30	19:30	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 5 months 7 months	53	11	Clear
29	3R	7/22/2018	18:30	19:45	Terry Kincaid Matt Abbott	OGI Camera	Yes	1 year 5 months 7 months	68	10	Clear

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Table 2-A: Fugitive Emission Component Affected Facility Records

							For OGI Camera Only		Survey Conditions		
Well Site No.	Location Name	Date of Survey[1]	Survey Start Time	Survey End Time	Name of Survey Operator	Survey Instrument	Operator Has Company Specific OGI Training?	Duration of Operator OGI Camera Experience	Ambient Temperature (°F)	Maximum Wind Speed (MPH)	Sky Conditions
30	3S	8/4/2018	06:30	20:00	Adam Tafoya Warren Cook	OGI Camera	Yes	9 months 9 months	46	4	Overcast

[1] Per 40 CFR 60.5397a(g)(1) for well sites located on the Alaska North Slope fugitive emissions monitoring surveys are required to be conducted at least annually (effective March 2018).

[2] This survey was conducted to monitor components that were deemed unsafe to monitor (UTM) during the well site's prior annual survey.

Table 2-B: Fugitive Emission Component Affected Facility Monitoring Survey Records

Well Site No.	Component Type Found Leaking	Count of Leaking Components Found	Count of Components Placed on Delay of Repair	Count of Components Repaired and Resurveyed During Intial Finding	Count of Components NOT Repaired per §60.5397a(h)	Count of Difficult-to-Monitor Components Surveyed	Count of Unsafe-to-Monitor Components Surveyed
1	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	1	0	1	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	5	0	5	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	1	0	1	0	0	0
2	Compressor	0	0	0	0	0	0
	Connector	1	0	1	0	0	0
	Flange	1	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	1	0	1	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	3	0	2	0	0	0
3	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	11
	Flange	0	0	0	0	0	13
	Open-Ended Line	0	0	0	0	0	0
	Other	0	0	0	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	0	0	0	0	0	19
4	Compressor	0	0	0	0	0	0
	Connector	1	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	3	0	3	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	4	1	2	0	0	0

Fugitive Emission Component Affected Facilities at Well Sites and Compressor Stations

ConocoPhillips Alaska

Table 2-B: Fugitive Emission Component Affected Facility Monitoring Survey Records

Well Site No.	Component Type Found Leaking	Count of Leaking Components Found	Count of Components Placed on Delay of Repair	Count of Components Repaired and Resurveyed During Intial Finding	Count of Components NOT Repaired per §60.5397a(h)	Count of Difficult-to-Monitor Components Surveyed	Count of Unsafe-to-Monitor Components Surveyed
5	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	2	0	2	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	3	0	3	0	0	0
6	Compressor	0	0	0	0	0	0
	Connector	1	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	2	0	2	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	0	0	0	0	0	0
7	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	4	0	4	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	3	0	2	0	0	0
8	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	4	0	3	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	4	2	2	0	0	0

Fugitive Emission Component Affected Facilities at Well Sites and Compressor Stations

ConocoPhillips Alaska

Table 2-B: Fugitive Emission Component Affected Facility Monitoring Survey Records

Well Site No.	Component Type Found Leaking	Count of Leaking Components Found	Count of Components Placed on Delay of Repair	Count of Components Repaired and Resurveyed During Intial Finding	Count of Components NOT Repaired per §60.5397a(h)	Count of Difficult-to-Monitor Components Surveyed	Count of Unsafe-to-Monitor Components Surveyed
9	Compressor	0	0	0	0	0	0
	Connector	3	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	9	0	4	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	8	2	4	0	0	0
10	Compressor	0	0	0	0	0	0
	Connector	1	0	1	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	2	0	2	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	2	0	2	0	0	0
11	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	0	0	0	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	2	1	0	0	0	0
12	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	5
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	0	0	0	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	0	0	0	0	0	2

Table 2-B: Fugitive Emission Component Affected Facility Monitoring Survey Records

Well Site No.	Component Type Found Leaking	Count of Leaking Components Found	Count of Components Placed on Delay of Repair	Count of Components Repaired and Resurveyed During Intial Finding	Count of Components NOT Repaired per §60.5397a(h)	Count of Difficult-to-Monitor Components Surveyed	Count of Unsafe-to-Monitor Components Surveyed
13	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	3	0	0	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	4	0	0	0	0	0
14	Compressor	0	0	0	0	0	0
	Connector	1	0	0	0	0	0
	Flange	1	0	1	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	5	0	4	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	7	0	4	0	0	0
15	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	4	0	2	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	2	0	1	0	0	0
16	Compressor	0	0	0	0	0	0
	Connector	1	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	8	1	2	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	5	2	2	0	0	0

Table 2-B: Fugitive Emission Component Affected Facility Monitoring Survey Records

Well Site No.	Component Type Found Leaking	Count of Leaking Components Found	Count of Components Placed on Delay of Repair	Count of Components Repaired and Resurveyed During Intial Finding	Count of Components NOT Repaired per §60.5397a(h)	Count of Difficult-to-Monitor Components Surveyed	Count of Unsafe-to-Monitor Components Surveyed
17	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	6	1	3	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	5	1	4	0	0	0
18	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	1	0	0	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	1	0	0	0	0	0
19	Compressor	0	0	0	0	0	0
	Connector	1	0	1	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	1	0	1	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	3	0	2	0	0	0
20	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	7	0	6	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	1	0	0	0	0	0

Table 2-B: Fugitive Emission Component Affected Facility Monitoring Survey Records

Well Site No.	Component Type Found Leaking	Count of Leaking Components Found	Count of Components Placed on Delay of Repair	Count of Components Repaired and Resurveyed During Intial Finding	Count of Components NOT Repaired per §60.5397a(h)	Count of Difficult-to-Monitor Components Surveyed	Count of Unsafe-to-Monitor Components Surveyed
21	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	12	0	9	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	4	1	1	0	0	0
22	Compressor	0	0	0	0	0	0
	Connector	1	0	1	0	0	0
	Flange	2	0	2	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	4	0	4	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	4	0	3	0	0	0
23	Compressor	0	0	0	0	0	0
	Connector	1	0	0	0	0	0
	Flange	1	0	1	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	0	0	0	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	1	0	1	0	0	0
24	Compressor	0	0	0	0	0	0
	Connector	1	0	1	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	7	0	7	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	1	0	1	0	0	0

Table 2-B: Fugitive Emission Component Affected Facility Monitoring Survey Records

Well Site No.	Component Type Found Leaking	Count of Leaking Components Found	Count of Components Placed on Delay of Repair	Count of Components Repaired and Resurveyed During Intial Finding	Count of Components NOT Repaired per §60.5397a(h)	Count of Difficult-to-Monitor Components Surveyed	Count of Unsafe-to-Monitor Components Surveyed
25	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	3	0	2	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	2	0	2	0	0	0
26	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	1	0	0	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	1	0	1	0	0	0
27	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	2	0	2	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	7	3	4	0	0	0
28	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	0	0	0	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	2	0	2	0	0	0

Table 2-B: Fugitive Emission Component Affected Facility Monitoring Survey Records

Well Site No.	Component Type Found Leaking	Count of Leaking Components Found	Count of Components Placed on Delay of Repair	Count of Components Repaired and Resurveyed During Intial Finding	Count of Components NOT Repaired per §60.5397a(h)	Count of Difficult-to-Monitor Components Surveyed	Count of Unsafe-to-Monitor Components Surveyed
29	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	0	0	0	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	1	0	1	0	0	0
30	Compressor	0	0	0	0	0	0
	Connector	0	0	0	0	0	0
	Flange	0	0	0	0	0	0
	Open-Ended Line	0	0	0	0	0	0
	Other	1	0	1	0	0	0
	Pressure Relief Device	0	0	0	0	0	0
	Valve	1	0	1	0	0	0

Fugitive Emission Component Affected Facilities at Well Sites and Compressor Stations

ConocoPhillips Alaska

Table 2-C: Fugitive Emission Component Affected Facility Reasons for Delay of Repair

Well Site No.	Component Type Placed on Delay of Repair	Reason for Each Delay of Repair per §60.537a(h)(2)
4	Valve	Repair or replacement requires a well shutdown or well shut-in.
8	Valve	Repair or replacement would require a vent blowdown.
8	Valve	Repair or replacement would require a vent blowdown.
9	Valve	Repair or replacement requires a well shutdown or well shut-in.
9	Valve	Repair or replacement requires a well shutdown or well shut-in.
11	Valve	Repair or replacement would require a vent blowdown.
16	Valve	Repair or replacement would require a vent blowdown.
16	Valve	Repair or replacement would require a vent blowdown.
16	Other	Repair or replacement would require a vent blowdown.
17	Other	Repair or replacement requires a well shutdown or well shut-in.
17	Valve	Repair or replacement requires a well shutdown or well shut-in.
21	Valve	Repair or replacement requires a well shutdown or well shut-in.
27	Valve	Repair or replacement requires a well shutdown or well shut-in.
27	Valve	Repair or replacement requires a well shutdown or well shut-in.
27	Valve	Repair or replacement requires a well shutdown or well shut-in.

Fugitive Emission Component Affected Facilities at Well Sites and Compressor Stations

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Alaska

Table 2-D: Fugitive Emission Component Affected Facility Emission Monitoring Plan (EMP) Deviations

Well Site No.	Describe Deviation(s)
7	For one leak location, a leak tag was removed before resurvey.
9	For ten leak locations, resurvey documentation does not include the atmospheric location and for two leak locations, the resurvey documentation does not include the date on the digital photograph and the end time of the re-survey.
10	For one leak location, resurvey documentation does not include the atmospheric conditions.
11	For one leak location, resurvey documentation does not have a date on the digital photograph and does not include the end time of the re-survey and atmospheric conditions.
13	For five leak locations, resurvey documentation does not have a date on the digital photograph.
14	For one leak location, resurvey documentation does not have a date on the digital photograph and does not include the end time of the re-survey and atmospheric conditions.
16	For seven leak locations, resurvey documentation did not include the re-survey end time and atmospheric conditions, and for five leak locations, the resurvey documentation does not have a date on the digital photograph.
17	For one leak location, resurvey documentation does not have a date on the digital photograph and does not include the end time of the re-survey and atmospheric conditions.
20	For one leak location, resurvey documentation does not include a digital photograph.
21	For two leak locations, the leak tag was removed before resurvey.
23	For one leak location, the resurvey documentation does not include the GPS coordinates.

Table 2-E: Fugitive Emission Component Affected Facility Repair and Resurvey Records

Well Site No.	Component Type Found Leaking	Leak Tag ID	Date of Successful Repair	Resurvey Instrument
1	Other	DS1B-20180910-0001	9/10/2018	OGI Camera
1	Other	DS1B-20180910-0002	9/10/2018	OGI Camera
1	Other	DS1B-20180910-0003	9/10/2018	OGI Camera
1	Valve	DS1B-20180910-0004	9/10/2018	OGI Camera
1	Other	DS1B-20180910-0005	9/10/2018	OGI Camera
1	Flange	DS1B-20180910-0006	9/10/2018	OGI Camera
1	Other	DS1B-20180910-0007	9/10/2018	OGI Camera
2	Other	DS1C-20180919-0001	9/19/2018	OGI Camera
2	Connector	DS1C-20180919-0002	9/19/2018	OGI Camera
2	Valve	DS1C-20180919-0003	9/19/2018	OGI Camera
2	Valve	DS1C-20180919-0004	9/19/2018	OGI Camera
2	Flange	DS1C-OOOOa-2018-0351	9/23/2018	OGI Camera
2	Valve	DS1C-OOOOa-2018-1167	10/10/2018	OGI Camera
3	Valve	DS1D-OOOOa-2018-0221	6/24/2018	OGI Camera
4	Other	DS1E-20180921-001	9/21/2018	OGI Camera
4	Other	DS1E-20180921-002	9/21/2018	OGI Camera
4	Valve	DS1E-20180921-003	9/21/2018	OGI Camera
4	Other	DS1E-20180921-004	9/21/2018	OGI Camera
4	Valve	DS1E-20180921-005	9/21/2018	OGI Camera
4	Valve	DS1E-OOOOa-2018-0277	3/24/2019	OGI Camera
4	Connector	DS1E-OOOOa-2018-0293	9/24/2018	OGI Camera
4	Valve	DS1E-OOOOa-2018-1183	9/22/2018	OGI Camera
5	Valve	DS1G-20180914-0001	9/14/2018	OGI Camera
5	Valve	DS1G-20180914-0002	9/14/2018	OGI Camera
5	Valve	DS1G-20180914-0003	9/14/2018	OGI Camera
5	Other	DS1G-20180914-0004	9/14/2018	OGI Camera
5	Other	DS1G-20180914-0005	9/14/2018	OGI Camera
6	Other	DS1H-20180923-0001	9/23/2018	OGI Camera
6	Other	DS1H-20180923-0002	9/23/2018	OGI Camera
6	Connector	DS1H-OOOOa-2018-1184	9/24/2018	OGI Camera
7	Other	DS1L-20180908-0001	9/8/2018	OGI Camera
7	Other	DS1L-20180908-0002	9/8/2018	OGI Camera
7	Valve	DS1L-20180908-0003	9/8/2018	OGI Camera
7	Other	DS1L-20180908-0004	9/8/2018	OGI Camera
7	Valve	DS1L-20180908-0005	9/8/2018	OGI Camera
7	Other	DS1L-20180908-0006	9/8/2018	OGI Camera
7	Flange	DS1L-OOOOa-2017-0020	8/3/2018	OGI Camera
7	Valve	DS1L-OOOOa-2017-0359	8/4/2018	OGI Camera
7	Valve	DS1L-OOOOa-2018-1200	9/14/2018	OGI Camera
8	Other	DS1Q-20190127-0001	1/27/2019	OGI Camera
8	Valve	DS1Q-20190127-0002	1/27/2019	OGI Camera
8	Other	DS1Q-20190127-0003	1/27/2019	OGI Camera
8	Other	DS1Q-20190127-0004	1/27/2019	OGI Camera
8	Valve	DS1Q-20190127-0005	1/27/2019	OGI Camera
8	Other	DS1Q-OOOOa-2019-0276	1/30/2019	OGI Camera
8	Valve	DS1Q-OOOOa-2019-1165	Pending	-
8	Valve	DS1Q-OOOOa-2019-1166	Pending	-
9	Other	DS2A-20180902-00001	9/2/2018	OGI Camera
9	Other	DS2A-20180902-00002	9/2/2018	OGI Camera

Table 2-E: Fugitive Emission Component Affected Facility Repair and Resurvey Records

Well Site No.	Component Type Found Leaking	Leak Tag ID	Date of Successful Repair	Resurvey Instrument
9	Other	DS2A-20180902-00003	9/2/2018	OGI Camera
9	Valve	DS2A-20180902-00004	9/2/2018	OGI Camera
9	Valve	DS2A-20180902-00005	9/2/2018	OGI Camera
9	Other	DS2A-20180902-00006	9/2/2018	OGI Camera
9	Valve	DS2A-20180902-00007	9/2/2018	OGI Camera
9	Valve	DS2A-20180902-00008	9/2/2018	OGI Camera
9	Other	DS2A-OOOOa-2018-0031	9/17/2018	Method 21, snoop
9	Valve	DS2A-OOOOa-2018-0328	9/17/2018	Method 21, snoop
9	Other	DS2A-OOOOa-2018-0341	9/17/2018	Method 21, snoop
9	Valve	DS2A-OOOOa-2018-0342	Pending	-
9	Other	DS2A-OOOOa-2018-1189	9/29/2018	Method 21, snoop
9	Valve	DS2A-OOOOa-2018-1190	9/18/2018	Method 21, snoop
9	Valve	DS2A-OOOOa-2018-1192	Pending	-
9	Other	DS2A-OOOOa-2018-1195	9/8/2018	Method 21, snoop
9	Other	DS2A-OOOOa-2018-1196	9/15/2018	Method 21, snoop
9	Connector	DS2A-OOOOa-2018-1197	9/14/2018	Method 21, snoop
9	Connector	DS2A-OOOOa-2018-1198	9/14/2018	Method 21, snoop
9	Connector	DS2A-OOOOa-2018-1199	9/17/2018	Method 21, snoop
10	Valve	DS2B-20180810-1001	8/10/2018	OGI Camera
10	Connector	DS2B-20180810-1002	8/10/2018	OGI Camera
10	Other	DS2B-20180810-1003	8/10/2018	OGI Camera
10	Valve	DS2B-20180810-1004	8/10/2018	OGI Camera
10	Other	DS2B-20180810-1005	8/10/2018	OGI Camera
10	Valve	DS2B-OOOOa-2017-0075	3/4/2019	Method 21, snoop
11	Valve	DS2E-OOOOa-2018-0008	Pending	-
11	Valve	DS2E-OOOOa-2018-0279	9/10/2018	Method 21, snoop
13	Valve	DS2K-OOOOa-2018-0258	9/10/2018	Method 21, snoop
13	Valve	DS2K-OOOOa-2018-0261	9/10/2018	Method 21, snoop
13	Valve	DS2K-OOOOa-2018-0294	9/10/2018	Method 21, snoop
13	Other	DS2K-OOOOa-2018-1121	8/27/2018	Method 21, snoop
13	Other	DS2K-OOOOa-2018-1122	8/27/2018	Method 21, snoop
13	Valve	DS2K-OOOOa-2018-1123	9/10/2018	Method 21, snoop
13	Other	DS2K-OOOOa-2018-1124	9/10/2018	Method 21, snoop
14	Other	DS2M-20180820-0001	8/20/2018	OGI Camera
14	Other	DS2M-20180820-0002	8/20/2018	OGI Camera
14	Valve	DS2M-20180820-0003	8/20/2018	OGI Camera
14	Other	DS2M-20180820-0004	8/20/2018	OGI Camera
14	Other	DS2M-20180820-0005	8/20/2018	OGI Camera
14	Valve	DS2M-20180820-0006	8/20/2018	OGI Camera
14	Valve	DS2M-20180820-0007	8/20/2018	OGI Camera
14	Flange	DS2M-20180820-0008	8/20/2018	OGI Camera
14	Valve	DS2M-20180820-0009	8/20/2018	OGI Camera
14	Other	DS2M-OOOOa-2017-0085	9/9/2018	Method 21, snoop
14	Connector	DS2M-OOOOa-2018-0253	8/24/2018	Method 21, snoop
14	Valve	DS2M-OOOOa-2018-1130	8/24/2018	Method 21, snoop
14	Valve	DS2M-OOOOa-2018-1131	8/26/2018	Method 21, snoop
14	Other	DS2M-OOOOa-2018-1150	8/27/2018	Method 21, snoop
14	Valve	DS2M-OOOOa-2018-1179	8/26/2018	Method 21, snoop
15	Other	DS2S-20180819-0001	8/19/2018	OGI Camera

Table 2-E: Fugitive Emission Component Affected Facility Repair and Resurvey Records

Well Site No.	Component Type Found Leaking	Leak Tag ID	Date of Successful Repair	Resurvey Instrument
15	Other	DS2S-20180819-0002	8/19/2018	OGI Camera
15	Valve	DS2S-20180819-0003	8/19/2018	OGI Camera
15	Other	DS2S-OOOOa-2018-1102	8/24/2018	Method 21, snoop
15	Other	DS2S-OOOOa-2018-1178	8/25/2018	Method 21, snoop
15	Valve	DS2S-OOOOa-2018-1201	8/24/2018	Method 21, snoop
16	Valve	DS2T-201800826-0001	8/26/2018	OGI Camera
16	Other	DS2T-201800826-0002	8/26/2018	OGI Camera
16	Valve	DS2T-201800826-0003	8/26/2018	OGI Camera
16	Other	DS2T-201800826-0004	8/26/2018	OGI Camera
16	Other	DS2T-OOOOa-2018-0214	9/7/2018	Method 21, snoop
16	Valve	DS2T-OOOOa-2018-0262	4/28/2019	Method 21, snoop
16	Connector	DS2T-OOOOa-2018-0275	9/7/2018	Method 21, snoop
16	Valve	DS2T-OOOOa-2018-0295	4/28/2019	Method 21, snoop
16	Other	DS2T-OOOOa-2018-0301	9/7/2018	Method 21, snoop
16	Other	DS2T-OOOOa-2018-1129	9/7/2018	Method 21, snoop
16	Valve	DS2T-OOOOa-2018-1147	9/13/2018	Method 21, snoop
16	Other	DS2T-OOOOa-2018-1151	Pending	-
16	Other	DS2T-OOOOa-2018-1152	9/7/2018	Method 21, snoop
16	Other	DS2T-OOOOa-2018-1153	9/13/2018	Method 21, snoop
17	Valve	DS2X-20180812-0001	8/12/2018	OGI Camera
17	Valve	DS2X-20180812-0002	8/12/2018	OGI Camera
17	Valve	DS2X-20180812-0003	8/12/2018	OGI Camera
17	Other	DS2X-20180812-0004	8/12/2018	OGI Camera
17	Other	DS2X-20180812-0005	8/12/2018	OGI Camera
17	Other	DS2X-20180812-0006	8/12/2018	OGI Camera
17	Valve	DS2X-20180812-0007	8/12/2018	OGI Camera
17	Valve	DS2X-OOOOa-2017-0090	9/7/2018	Method 21, snoop
17	Valve	DS2X-OOOOa-2017-0381	5/29/2018	Method 21, snoop
17	Other	DS2X-OOOOa-2018-0033	8/24/2018	Method 21, snoop
17	Other	DS2X-OOOOa-2018-0257	Pending	-
17	Valve	DS2X-OOOOa-2018-0303	Pending	-
17	Other	DS2X-OOOOa-2018-0327	8/24/2018	Method 21, snoop
18	Valve	DS2Z-OOOOa-2018-0215	8/26/2018	Method 21, snoop
18	Other	DS2Z-OOOOa-2018-0216	8/18/2018	Method 21, snoop
19	Other	DS3A-20180730-0001	7/30/2018	OGI Camera
19	Valve	DS3A-20180730-0002	7/30/2018	OGI Camera
19	Valve	DS3A-20180730-0003	7/30/2018	OGI Camera
19	Connector	DS3A-20180730-0004	7/30/2018	OGI Camera
19	Valve	DS3A-OOOOa-2018-0264	8/14/2018	OGI Camera
20	Other	DS3F-20180801-0001	8/1/2018	OGI Camera
20	Other	DS3F-20180801-0002	8/1/2018	OGI Camera
20	Other	DS3F-20180801-0003	8/1/2018	OGI Camera
20	Other	DS3F-20180801-0004	8/1/2018	OGI Camera
20	Other	DS3F-20180801-0005	8/1/2018	OGI Camera
20	Other	DS3F-20180801-0006	8/1/2018	OGI Camera
20	Valve	DS3F-OOOOa-2018-0205	8/12/2018	OGI Camera
20	Other	DS3F-OOOOa-2018-0206	8/13/2018	OGI Camera
21	Valve	DS3G-20180806-1001	8/6/2018	OGI Camera
21	Other	DS3G-20180806-1002	8/6/2018	OGI Camera

Table 2-E: Fugitive Emission Component Affected Facility Repair and Resurvey Records

Well Site No.	Component Type Found Leaking	Leak Tag ID	Date of Successful Repair	Resurvey Instrument
21	Other	DS3G-20180806-1003	8/6/2018	OGI Camera
21	Other	DS3G-20180806-1004	8/6/2018	OGI Camera
21	Other	DS3G-20180806-1005	8/6/2018	OGI Camera
21	Other	DS3G-20180806-1006	8/6/2018	OGI Camera
21	Other	DS3G-20180806-1007	8/6/2018	OGI Camera
21	Other	DS3G-20180806-1008	8/6/2018	OGI Camera
21	Other	DS3G-20180806-1009	8/6/2018	OGI Camera
21	Other	DS3G-20180806-1010	8/6/2018	OGI Camera
21	Connector	DS3G-OOOOa-2017-0259	3/2/2019	OGI Camera
21	Valve	DS3G-OOOOa-2017-0345	Pending	-
21	Valve	DS3G-OOOOa-2017-0383	4/27/2019	OGI Camera
21	Valve	DS3G-OOOOa-2018-0032	8/12/2018	OGI Camera
21	Other	DS3G-OOOOa-2018-0207	8/12/2018	OGI Camera
21	Other	DS3G-OOOOa-2018-0208	8/12/2018	OGI Camera
21	Other	DS3G-OOOOa-2018-0209	8/12/2018	OGI Camera
21	Valve	DS3G-OOOOa-2018-0256	8/12/2018	OGI Camera
21	Valve	DS3G-OOOOa-2018-0305	Pending	-
22	Valve	DS3H-20180906-0001	9/6/2018	OGI Camera
22	Other	DS3H-20180906-0002	9/6/2018	OGI Camera
22	Connector	DS3H-20180906-0003	9/6/2018	OGI Camera
22	Other	DS3H-20180906-0004	9/6/2018	OGI Camera
22	Flange	DS3H-20180906-0005	9/6/2018	OGI Camera
22	Valve	DS3H-20180906-0006	9/6/2018	OGI Camera
22	Other	DS3H-20180906-0007	9/6/2018	OGI Camera
22	Valve	DS3H-20180906-0008	9/6/2018	OGI Camera
22	Flange	DS3H-20180906-0009	9/6/2018	OGI Camera
22	Other	DS3H-20180906-0010	9/6/2018	OGI Camera
22	Other	DS3H-OOOOa-2017-0353	9/6/2018	OGI Camera
22	Valve	DS3H-OOOOa-2018-0297	10/1/2018	OGI Camera
23	Flange	DS3I-20181021-0001	10/20/2018	OGI Camera
23	Valve	DS3I-20181021-0002	10/20/2018	OGI Camera
23	Connector	DS3I-OOOOa-2018-1185	10/22/2018	OGI Camera
24	Other	DS3K-20180729-0001	7/29/2018	OGI Camera
24	Other	DS3K-20180729-0002	7/29/2018	OGI Camera
24	Other	DS3K-20180729-0003	7/29/2018	OGI Camera
24	Valve	DS3K-20180729-0004	7/29/2018	OGI Camera
24	Connector	DS3K-20180729-0005	7/29/2018	OGI Camera
24	Other	DS3K-20180729-0006	7/29/2018	OGI Camera
24	Other	DS3K-20180729-0007	7/29/2018	OGI Camera
24	Other	DS3K-20180729-0008	7/29/2018	OGI Camera
24	Other	DS3K-20180729-0009	7/29/2018	OGI Camera
25	Valve	DS3M-20180730-0001	7/30/2018	OGI Camera
25	Valve	DS3M-20180730-0002	7/30/2018	OGI Camera
25	Other	DS3M-20180730-0003	7/30/2018	OGI Camera
25	Other	DS3M-20180730-0004	7/30/2018	OGI Camera
25	Other	DS3M-OOOOa-2018-0034	8/13/2018	OGI Camera
26	Valve	DS3N-20180727-0001	7/27/2018	OGI Camera
26	Valve	DS3N-OOOOa-2017-OGI-01	2/23/2019	OGI Camera
26	Other	DS3N-OOOOa-2018-0201	7/29/2018	OGI Camera

Table 2-E: Fugitive Emission Component Affected Facility Repair and Resurvey Records

Well Site No.	Component Type Found Leaking	Leak Tag ID	Date of Successful Repair	Resurvey Instrument
27	Valve	DS3O-20180725-0001	7/25/2018	OGI Camera
27	Valve	DS3O-20180725-0002	7/25/2018	OGI Camera
27	Other	DS3O-20180725-0003	7/25/2018	OGI Camera
27	Valve	DS3O-20180725-0004	7/25/2018	OGI Camera
27	Valve	DS3O-20180725-0005	7/25/2018	OGI Camera
27	Other	DS3O-20180725-0006	7/25/2018	OGI Camera
27	Valve	DS3O-OOOOa-2018-0202	Pending	-
27	Valve	DS3O-OOOOa-2018-0203	Pending	-
27	Valve	DS3O-OOOOa-2018-0204	4/20/2019	OGI Camera
28	Valve	DS3Q-20180723-0001	7/23/2018	OGI Camera
28	Valve	DS3Q-20180723-0002	7/23/2018	OGI Camera
28	Valve	DS3Q-OOOOa-2017-0076	7/23/2018	OGI Camera
28	Connector	DS3Q-OOOOa-2017-0325	5/22/2018	OGI Camera
29	Valve	DS3R-20180722-0001	7/22/2018	OGI Camera
29	Other	DS3R-OOOOa-2017-0002	3/24/2019	OGI Camera
30	Valve	DS3S-20180804-0001	8/4/2018	OGI Camera
30	Other	DS3S-20180804-0002	8/4/2018	OGI Camera