MIDDLE FORK
ENERGY
UINTA, LLC

October 28th, 2019

Director, Air and Toxics Technical Enforcement Program
Office of Enforcement, Compliance and Environmental Justice
U.S. EPA, Region 8
1595 Wynkoop Street, 8ENF-AT
Denver, CO 80202-1129

Re: Middle Fork Energy Uinta, LLC
NSPS Subpart OOOO and NSPS Subpart OOOOa Annual Report
Uinta Basin

Dear Sir or Madam:

As required by 40 CFR 60.5420a, attached please find the following annual reports for MFEP Energy Company:

- Annual Report for OOOOa Applicable Tanks for Uinta Basin
- Annual Report for OOOO Applicable Tanks for Uinta Basin
- Annual Report for Fugitive Emissions Monitoring
- Annual Report for Well Completions

Certifications by a Responsible Official of MFEP Energy Company are included with each report.

If you have any questions regarding this report, please contact me at (720) 500-0131 or karl.biermann@middleforkep.com.

Sincerely,

(b) (6)

[redacted]

Karl J. Biermann II
Manager of Production Engineering & Operations

/Attachments

MIDDLE FORK ENERGY UINTA, LLC

40 CFR Part 60 Subpart OOOOa
Initial Report – Storage Tanks

Middle Fork Energy Uinta, LLC
1515 Wynkoop Street Suite 650
Denver, Colorado 80202

Operations in Uinta Basin, Utah
Reporting Period: September 6, 2018 – August 1, 2019

Reporting Requirements - 60.5420a (b) (1) and 60.5420a (b) (6)
See attached TABLE 1.

The facilities listed in TABLE 1 of this Initial OOOOa Report are tanks subject to the requirements of 40 CFR 60.5395a. TABLE 1 includes the information specified in the reporting requirements of 40 CFR 60.5420a (b) (6) (i) through 40 CFR 60.5420a (b) (6) (iii) and 40 CFR 60.5420a (b) (6) (v) through 40 CFR 60.5420a (b) (6) (vi).

Records of Deviations - 60.5420a (b) (6) (iii)
MFEP Energy Company is not reporting any deviations for the facilities listed in TABLE 1 as specified in 60.5365a (e).

Emission Control – 60.5420a (b) (6) (iv)
MFEP Energy Company has met the requirements set forth by 40 CFR 60.5410a (h) (2) and 40 CFR 60.5410a (h) (3).

Certification of Closed Vent System – 60.5420a (b) (12)
MFEP Energy Company has met the requirements set forth by 40 CFR 60.5420a (b) (12) and has provided a copy of the certification signed by a qualified professional engineer for each closed vent system routing to a control device. Please see ATTACHMENT 4.

Certification of Truth, Accuracy, and Completeness – 60.5420a (b) (1) (iv)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in this report are true, accurate, and complete.

(b) (6) [redacted]

Karl J. Biermann II

10/29/19
Date

Manager of Production Engineering and Operations

Middle Fork Energy Uinta, LLC

TABLE 1 Uinta Basin OOOOa Applicable Tanks

Company Name: Middle Fork Energy Uinta, LLC

Company Address: 1515 Wynkoop Street
Suite 650
Denver, Colorado 80202

Beginning Date of Reporting Period: 9/6/2018
Ending Date of Reporting Period: 8/1/2019

Facility Name	Latitude (Nad 83)	Longitude (Nad 83)	Construction Date	Tank ID	Number of Tanks	VOC PTE (tpy)	VOC PTE per Tank (tpy)	Date Removed from Service	Date Returned to Service	Deviations to Report?	Closed Vent System Certification
RW 44-16A PAD	(b) (9) [redacted]		2/27/2016	120161861	1	7.14	7.14	N/A	N/A	No	Included
RW CPF 27A			2/27/2016	150059	5	21.95	4.39	N/A	N/A	No	Included
			2/27/2016	150061				N/A	N/A	No	Included
			2/27/2016	150065				N/A	N/A	No	Included
			2/27/2016	150069				N/A	N/A	No	Included
			2/27/2016	150136				N/A	N/A	No	Included
KJ 33B-17A			2/1/2018	120266121	2	8.72	4.36	N/A	N/A	No	Included
			2/1/2018	120266117				N/A	N/A	No	Included
SR 32A-13H			2/1/2018	120266204	2	14.78	7.39	N/A	N/A	No	Included
			2/1/2018	120194754				N/A	N/A	No	Included

ATTACHMENT 4

HALKER
CONSULTING

7936 E. Arapahoe Ct., Suite 3200
Centennial, CO 80112
303-515-2700

44-16A WELL PAD UINTA BASIN VENT LINE DESIGN AND CAPACITY ASSESSMENT

TO:	QEP Energy
FROM:	Tim Archuleta
CC:	Andrew Depperschmidt, Bobby McCracken, Brianne Stebbins
DATE:	November 10, 2016
RE:	44-16A Well Pad Uinta Basin-Vent Line Design and Capacity Assessment

COLORADO LICENSED
ANDREW RAY DEPPERSCHMIDT
42670
11-10-16
PROFESSIONAL ENGINEER

The US EPA finalized "Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015" on June 3, 2016. This regulation has requirements for certifying the design of closed vent systems. An assessment of the closed vent must be performed to determine it is of sufficient design and capacity to ensure that all emissions from storage vessels are routed to the control device and that the control device is of sufficient design and capacity to accommodate all emissions and have it certified by a qualified professional engineer. This regulation is 40 CFR 40 Subpart OOOOa, referred to as the Quad Oa regulation.

Certification for 40 CFR 60.5411a(d):

"I certify that the closed vent system design and capacity assessment was prepared under my direction or supervision. I further certify that the closed vent system design and capacity assessment was conducted and this report was prepared pursuant to the requirements of subpart Quad Oa of 40 CFR part 60. Based on my professional knowledge and experience, and inquiry of personnel involved in the assessment, the certification submitted herein is true, accurate, and complete. I am aware that there are penalties for knowingly submitting false information."

Purpose:

Evaluate the proposed 44-16A Well Pad vent line design to ensure that the thief hatches, which are set at 16oz/in^2, will not open during normal operating flow rate scenarios. The normal flow path for the vapor from the storage tanks will be to one flare where the off gas will be combusted to meet Quad Oa regulations.

Results:

Based on the QEP Energy verified tank isometrics and predicted vapor flow rates, Halker Consulting evaluated the pipe routing from the storage tanks to the flare and calculated the expected pressure drop in the system during the QEP Energy specified production. The pressure at the outlet of the flare was set at local atmospheric pressure of approximately 12.02 psia. The pressure drop through the flare was taken to be negligible. Pressure drop through the piping system from the test/swab tank to the flare was calculated and found to have a backpressure on the tank of less than 10% of the thief hatch set pressure.

During normal operating conditions back pressure should be negligible at the tank and will be much less than 10% of the of 16 oz/in^{2}g, set pressure of the thief hatch.

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303-515-2700

Observation:

In order to minimize the backpressure on the tanks and therefore minimize the possibility of venting uncombusted vapors, Halker recommends not installing inline components that add additional pressure drop through the tank vapor system, including: swing check valves, pressure control devices, and unnecessary ball, gate, or globe valves. Additionally, routing the tank vapor system in a manner that does not allow liquids to build up inside the pipeline allows for minimizing pressure drop through the system by being able to utilize the entire cross sectional area of the piping configuration as well as minimizing the possibility of sending liquids to the flare.

Calculations:

A flame arrestor pressure drop of 0 oz/in^2 was used. The pressure drop was based on an Enardo Series 7 flame arrestor.

The total flow rate used was 4,680 scfd (22 lb/hr). Based on a tank GOR of 117 scf/bbl and an oil rate of 40 bbl/day.

Standard pressure drop "K" value for fittings and valves per Crane Technical Paper 410 were used. The value used for the absolute roughness of steel was 0.0002 ft.

**Attached are the tabulated results of the hydraulic calculations and the vent isometric drawing.*

Disclaimer:

This assessment meets the certification requirements of 40 CFR part 60 subpart 0000a. It is the responsibility of *QEP Energy* to comply with the reporting requirements of this regulation.

This evaluation does not take into account the destructive efficiency of the controlled device or the upstream components of the tank vent design.

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Centennial, CO 80112
303-515-2700

CPF 27A UINTA BASIN VENT LINE DESIGN AND CAPACITY ASSESSMENT

TO:	QEP Energy
FROM:	Tim Archuleta
CC:	Andrew Depperschmidt, Bobby McCracken, Brianne Stebbins
DATE:	November 10, 2016
RE:	CPF 27A Uinta Basin - Vent Line Design and Capacity Assessment

COLORADO LICENSED
ANDREW RAY DEPPERSCHMIDT
42670
11-10-16
PROFESSIONAL ENGINEER

The US EPA finalized "Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015" on June 3, 2016. This regulation has requirements for certifying the design of closed vent systems. An assessment of the closed vent must be performed to determine it is of sufficient design and capacity to ensure that all emissions from storage vessels are routed to the control device and that the control device is of sufficient design and capacity to accommodate all emissions and have it certified by a qualified professional engineer. This regulation is 40 CFR 40 Subpart OOOOa, referred to as the Quad Oa regulation.

Certification for 40 CFR 60.5411a(d):

"I certify that the closed vent system design and capacity assessment was prepared under my direction or supervision. I further certify that the closed vent system design and capacity assessment was conducted and this report was prepared pursuant to the requirements of subpart Quad Oa of 40 CFR part 60. Based on my professional knowledge and experience, and inquiry of personnel involved in the assessment, the certification submitted herein is true, accurate, and complete. I am aware that there are penalties for knowingly submitting false information."

Purpose:

Evaluate the proposed CPF 27A vent line design to ensure that the thief hatches, which are set at 16oz/in^2, will not open during normal operating flow rate scenarios. The normal flow path for the vapor from the storage tanks will be to one flare where the off gas will be combusted to meet Quad Oa regulations.

Results:

Based on the QEP verified tank isometrics and predicted vapor flow rates, Halker Consulting evaluated the pipe routing from the storage tanks to the flare and calculated the expected pressure drop in the system during the QEP specified production. The pressure at the outlet of the flare was set at local atmospheric pressure of approximately 12.02 psia. The pressure drop through the flare was taken to be negligible. Pressure drop through the piping system from the furthest storage tank to the flare was calculated and found to have a backpressure on the tank battery of 0.29 psig (4.6 oz/in^2).

During normal operating conditions the 4.6 oz/in^{2}g pressure should be the highest pressure that the tanks will see and is 29% of the of 16 oz/in^{2}g, set pressure of the thief hatches.

HALKER
CONSULTING

7936 E. Arapahoe Ct., Suite 3200
Centennial, CO 80112
303-515-2700

Observation:

In order to minimize the backpressure on the tanks and therefore minimize the possibility of venting uncombusted vapors, Halker recommends not installing inline components that add additional pressure drop through the tank vapor system, including: swing check valves, pressure control devices, and unnecessary ball, gate, or globe valves. Additionally, routing the tank vapor system in a manner that does not allow liquids to build up inside the pipeline allows for minimizing pressure drop through the system by being able to utilize the entire cross sectional area of the piping configuration as well as minimizing the possibility of sending liquids to the flare.

Calculations:

A flame arrestor pressure drop of 0.89 oz/in^2 was used. The pressure drop was based on an Enardo Series 7 flame arrestor.

The total flow rate used was 193,500 scfd (916 lb/hr). Based on a tank GOR of 43 scf/bbl and an oil rate of 4,500 bbl/day.

Standard pressure drop "K" value for fittings and valves per Crane Technical Paper 410 were used. The value used for the absolute roughness of epoxy steel was 0.0002 ft.

**Attached are the tabulated results of the hydraulic calculations and the vent isometric drawing.*

Disclaimer:

This assessment meets the certification requirements of 40 CFR part 60 subpart 0000a. It is the responsibility of *QEP* to comply with the reporting requirements of this regulation.

This evaluation does not take into account the destructive efficiency of the controlled device or the upstream components of the tank vent design.

KJ 33B-17A STORAGE TANK VAPOR COLLECTION SYSTEM DESIGN ANALYSIS

40 CFR Part 60 Subpart OOOOa

Prepared for: Middle Fork Energy Partners

Client Ref: 118.02082.00006

October 2019

DRAFT

SLR

Storage Tank Emissions Design Model
Professional Engineer Certification [40 CFR §60.5411a(d)(1)(i)]

Site Name:	**KJ 33B-17A Production Facility**
Client Name:	**Middle Fork Energy Partners**
Location:	(b) (9) [redacted], **Uintah County, Utah**
Description:	**Baseline**

I certify the closed vent system design and capacity assessment was prepared under my direction or supervision. I further certify the closed vent system design and capacity assessment was conducted and this report was prepared pursuant to the requirements of subpart OOOOa of 40 CFR part 60. Based on my professional knowledge and experience, and inquiry of personnel involved in the assessment, the certification submitted herein is true, accurate, and complete. I am aware there are penalties for knowingly submitting false information.

Angela M. Oberlander
Name of Professional Engineer

864094
State Registration No.

Utah
State

Professional Engineer's Seal

DRAFT

Attachment A:

Model Results

DRAFT

Storage Tank Emissions Design Model
Write Up

Site Name:	**KJ 33B-17A Production Facility**
Client Name:	**Middle Fork Energy Partners**
Location:	(b) (9) [redacted] **Uintah County, Utah**
Description:	**Baseline**

Facility and Process Flow Description:

The KJ 33B-17A Production Facility is an oil and gas production facility located in Uintah County, Utah. The KJ 33B-17A well on site produces through a high pressure test separator. Hydrocarbon liquids from the high pressure separator are routed directly to the storage tanks. Produced water from the high pressure separator is routed a remote facility for storage. Vapor from the storage tanks is directed through a vapor collection system (VCS) to a flare for control. The storage tank battery consists of two 500 bbl oil storage tanks. The oil tanks are controlled by one REEF XGFRS-120603-30-AA-EP flare.

Inputs:

- The burner curve for the REEF XGFRS-120603-30-AA-EP could not be obtained, a similar Bird HPLP30 burner curve was used
- The pressure drop curve for Wenco SA-DF-4F8C-A flame arrestor could not be obtained, a similar Wenco 700 TIL 603 model was used
- All "Tee" fittings are conservatively assumed to be "Tee Run to Branch"
- Evaluation based on CPF 27A liquid sample analysis
- The current oil production at this location was conservatively assumed to be equal to the highest producing month within the past year

Results:

The results show the system is designed to operate without venting based on the inputs received. The maximum predicted tank pressure is expected to be 2.39 oz/in2.

Tank Battery Storage Capacity	
Days of Oil Storage	101.9
Days of Water Storage	N/A

Engineering Analysis Performed by:	Davis Neeper
Engineering Analysis Completion Date:	10/28/2019
Engineering Analysis Reviewed by:	Angela M. Oberlander
Engineering Analysis Review Date:	10/30/2019

DRAFT

Storage Tank Emissions Design Model
Critical Operating Parameters

Site Name:	**KJ 33B-17A Production Facility**
Client Name:	**Middle Fork Energy Partners**
Location:	(b) (9) [redacted] **Uintah County, Utah**
Description:	**Baseline**

Critical Operating Parameters:

Description	Parameter	Verification Frequency	Date of Initial Verification
Number of HP Oil Dumps to Tanks	1	Upon Change	10/16/2019
HP Sep Oil Dump Valve & Trim Size	1" vavle with 3/8" trim	Upon Change	10/16/2019
Number of Tanks	2	Upon Change	10/16/2019
Size of Tanks	500 bbl	Upon Change	10/16/2019
Maximum Vapor Line Length	167 ft	Upon Change	10/16/2019
Minimum VCS Diameter Tanks to KO	4"	Upon Change	10/16/2019
Minimum VCS Diameter KO to Comb	4"	Upon Change	10/16/2019
Number of Control Devices	1	Upon Change	10/16/2019
Control Device Make and Model	REEF XGFRS-120603-30-AA-EP	Upon Change	10/16/2019
Minimum Theif Hatch/PRD setpoint	16 oz/in2	Upon Change	10/16/2019
Maximum Liquid Volume Stored	918 bbl	Upon Change	10/16/2019
Max Facility Oil Production Rate	9.0 bbl/day	Upon Change	10/16/2019
Well Cycles per Day	30.0	Upon Change	10/16/2019
Well Production Method	Plunger Lift	Upon Change	10/16/2019
Maximum Pressure of HP Separator	200 psig	Monthly	10/16/2019

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SR 32A-13H STORAGE TANK VAPOR COLLECTION SYSTEM DESIGN ANALYSIS

40 CFR Part 60 Subpart OOOOa

Prepared for: Middle Fork Energy Partners

Client Ref: 118.02082.00006

October 2019

DRAFT

SLR

Storage Tank Emissions Design Model
Professional Engineer Certification [40 CFR §60.5411a(d)(1)(i)]

Site Name:	**SR 32A-13H Production Facility**
Client Name:	**Middle Fork Energy Partners**
Location:	(b) (9) [redacted] **Uintah County, Utah**
Description:	**Baseline**

I certify the closed vent system design and capacity assessment was prepared under my direction or supervision. I further certify the closed vent system design and capacity assessment was conducted and this report was prepared pursuant to the requirements of subpart OOOOa of 40 CFR part 60. Based on my professional knowledge and experience, and inquiry of personnel involved in the assessment, the certification submitted herein is true, accurate, and complete. I am aware there are penalties for knowingly submitting false information.

Angela M. Oberlander
Name of Professional Engineer

864094
State Registration No.

Utah
State

Professional Engineer's Seal

DRAFT

Attachment A:

Model Results

DRAFT

Storage Tank Emissions Design Model
Write Up

Site Name:	**SR 32A-13H Production Facility**
Client Name:	**Middle Fork Energy Partners**
Location:	**(b) (9) [redacted] Uintah County, Utah**
Description:	**Baseline**

Facility and Process Flow Description:

The SR 32A-13H Production Facility is an oil and gas production facility located in Uintah County, Utah. The SR 32A-13H well on site produces through a high pressure test separator. Hydrocarbon liquids from the high pressure separator are routed directly to the storage tanks. Produced water from the high pressure separator is routed a remote facility for storage. Vapor from the storage tanks is directed through a vapor collection system (VCS) to a flare for control. The storage tank battery consists of two 500 bbl oil storage tanks. The oil tanks are controlled by one REEF XGFRS-120603-30-AA-EP flare.

Inputs:

- The burner curve for the REEF XGFRS-120603-30-AA-EP could not be obtained, a similar Bird HPLP30 burner curve was used
- The pressure drop curve for Wenco SA-DF-4F8C-A flame arrestor could not be obtained, a similar Wenco 700 TIL 603 model was used
- All "Tee" fittings are conservatively assumed to be "Tee Run to Branch"
- Evaluation based on CPF 27A liquid sample analysis
- The current oil production at this location was conservatively assumed to be equal to the highest producing month within the past year

Results:

The results show the system is designed to operate without venting based on the inputs received. The maximum predicted tank pressure is expected to be 2.66 oz/in2.

Tank Battery Storage Capacity	
Days of Oil Storage	50.9
Days of Water Storage	N/A

Engineering Analysis Performed by:	Davis Neeper
Engineering Analysis Completion Date:	10/28/2019
Engineering Analysis Reviewed by:	Angela M. Oberlander
Engineering Analysis Review Date:	10/30/2019

DRAFT

Storage Tank Emissions Design Model
Critical Operating Parameters

Site Name:	**SR 32A-13H Production Facility**
Client Name:	**Middle Fork Energy Partners**
Location:	(b) (9) [redacted] **Uintah County, Utah**
Description:	**Baseline**

Critical Operating Parameters:

Description	Parameter	Verification Frequency	Date of Initial Verification
Number of HP Oil Dumps to Tanks	1	Upon Change	10/16/2019
HP Sep Oil Dump Valve & Trim Size	1" valve with 3/8" trim	Upon Change	10/16/2019
Number of Tanks	2	Upon Change	10/16/2019
Size of Tanks	500 bbl	Upon Change	10/16/2019
Maximum Vapor Line Length	167 ft	Upon Change	10/16/2019
Minimum VCS Diameter Tanks to KO	4"	Upon Change	10/16/2019
Minimum VCS Diameter KO to Comb	4"	Upon Change	10/16/2019
Number of Control Devices	1	Upon Change	10/16/2019
Control Device Make and Model	REEF XGFRS-120603-30-AA-EP	Upon Change	10/16/2019
Minimum Theif Hatch/PRD setpoint	16 oz/in2	Upon Change	10/16/2019
Maximum Liquid Volume Stored	918 bbl	Upon Change	10/16/2019
Max Facility Oil Production Rate	18.0 bbl/day	Upon Change	10/16/2019
Pumping Unit Strokes Per Minute	5.0	Upon Change	10/16/2019
Well Production Method	Pump Jack	Upon Change	10/16/2019
Maximum Pressure of HP Separator	200 psig	Monthly	10/16/2019

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MIDDLE FORK
ENERGY
UINTA, LLC

40 CFR Part 60 Subpart OOOO
Annual Report – Storage Tanks

Middle Fork Energy Uinta, LLC
1515 Wynkoop Street Suite 650
Denver, Colorado 80202

Operations in Uinta Basin, Utah
Reporting Period: September 6, 2016 – August 1, 2019

Reporting Requirements - 60.5420 (b) (1) and 60.5420 (b) (6)
See attached TABLES 2-1 and 2-2.

The facilities listed in TABLE 2-1 of this Annual Report are tanks subject to the requirements of 40 CFR 60.5395. Table 2 includes the information specified in the reporting requirements of 40 CFR 60.5420 (b)(6).

The facilities listed in TABLE 2-2 of this Annual Report are tanks no longer subject to the requirements of 40 CFR 60.5395 (d). The listed affected facilities included in TABLE 2-2 have met the compliance threshold of uncontrolled actual VOC emissions, per affected storage vessel facility, of less the 4 TPY VOC for 12 consecutive months. Per 60.5395 (d) (2) these storage vessel affected facilities are no longer required to comply with the control requirements of 60.5395 (d) (1) until such time that the well feeding the storage vessel undergoes fracturing or fracturing per 60.5395 (d) (2) (i) or the monthly emissions from the storage vessel increase to 4 TPY per 60.5395 (d) (2) (ii).

Records of Deviations - 60.5420 (b) (6) (iii)
MFEP Energy Company is not reporting any deviations for the facilities listed in TABLE 2-1 or TABLE 2-2 as specified in 60.5365 (e).

Emission Control – 60.5420 (b) (6) (v)
MFEP Energy Company has met the requirements set forth by 40 CFR 60.5410 (h) (2) and 40 CFR 60.5410 (h) (3).

Certification of Truth, Accuracy, and Completeness – 60.5420 (b) (1) (iv)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in this report are true, accurate, and complete.

(b) (6) [redacted]

10/29/19

Karl J. Biermann II

Date

Manager of Production Engineering and Operations

Middle Fork Energy Uinta, LLC

TABLE 2-1 Uinta Basin OOOO Previously Reported Applicable Tanks

Company Name: Middle Fork Energy Uinta, LLC

Company Address: 1515 Wynkoop Street
Suite 650
Denver, Colorado 80202

Facility Name	Latitude (Nad 83)	Longitude (Nad 83)	Construction Date	Group 1 or Group 2 Tank	Tank ID	Number of Tanks	VOC PTE (tpy)	VOC PTE per Tank (tpy)	Date Removed from Service	Date Returned to Service	Deviations to Report?
RW H1-14-16B	(b) (9) [redacted]	[redacted]	9/16/2015	2	120266115	3	15.89	5.30	N/A	N/A	No
			9/16/2015	2	120266114				N/A	N/A	No
			9/16/2015	2	120159029				N/A	N/A	No
RW 24-14AGR			7/28/2015	2	120109297	3	8.16	2.72	N/A	N/A	No
			7/28/2015	2	120152076				N/A	N/A	No
			7/28/2015	2	120110093				N/A	N/A	No
RW Disposal Facility			6/12/2015	2	120266203	4	66.54	16.64	N/A	N/A	No
			6/12/2015	2	120266205				N/A	N/A	No
			8/16/2013	2	513A002766				N/A	N/A	No
			6/16/2013	2	513A002332				N/A	N/A	No
RW 42-28B PAD			5/17/2015	2	120110094	1	3.91	4.68	N/A	N/A	No
RW 44-25B			2/8/2015	2	120194753	3	12.21	4.07	N/A	N/A	No
			2/8/2015	2	120266120				N/A	N/A	No
			2/8/2015	2	120266119				N/A	N/A	No
RW 34-20BGR			12/26/2014	2	120266122	3	17.30	5.77	N/A	N/A	No
			12/26/2014	2	120266118				N/A	N/A	No
			12/26/2014	2	120266116				N/A	N/A	No
RW 32-25A			10/3/2014	2	120107699	3	10.56	3.52	N/A	N/A	No
			10/3/2014	2	120110140				N/A	N/A	No
			10/3/2014	2	120110181				N/A	N/A	No
RW 42-25AGR			7/1/2014	2	120106675	3	7.94	2.65	N/A	N/A	No
			7/1/2014	2	120110183				N/A	N/A	No
			7/1/2014	2	120110099				N/A	N/A	No
RW 41-26AG			4/9/2014	2	120159002	3	10.26	3.42	N/A	N/A	No
			4/9/2014	2	120152075				N/A	N/A	No
			4/9/2014	2	120159025				N/A	N/A	No
RW 43-20B			10/6/2013	2	120090498	3	7.41	2.47	N/A	N/A	No
			10/6/2013	2	120090499				N/A	N/A	No
			10/6/2013	2	120093539				N/A	N/A	No

TABLE 2-2 Uinta Basin OOOO Previously Reported Tanks No Longer Applicable to Control Requirements

Company Name: Middle Fork Energy Uinta, LLC

Company Address: 1515 Wynkoop Street
Suite 650
Denver, Colorado 80202

Facility Name	Latitude (Nad 83)	Longitude (Nad 83)	Construction Date	Group 1 or Group 2 Tank	Tank ID	Number of Tanks	VOC PTE (tpy)	VOC PTE per Tank (tpy)	Date Removed from Service	Date Returned to Service	Deviations to Report?
RW 23A-28B	(b) (9) [redacted]		4/12/2013	1	513A002769	2	4.81	2.41	N/A	N/A	No
			4/12/2013	1	513A002771				N/A	N/A	No
RW 12A2-28B			1/31/2013	1	513A002505	2	3.29	1.65	N/A	N/A	No
			1/31/2013	1	513A002506				N/A	N/A	No
RW 13B4-18C			7/1/2012	1	513A002136	2	3.50	1.75	N/A	N/A	No
			7/1/2012	1	513A002135				N/A	N/A	No
RW 14D3-24A			12/22/2012	1	513A002331	2	3.13	1.57	N/A	N/A	No
			12/22/2012	1	513A002333				N/A	N/A	No
RW 12B4-27B			9/21/2012	1	513A002038	2	3.72	1.86	N/A	N/A	No
			9/21/2012	1	513A002037				N/A	N/A	No
RW 34-24B			7/15/2012	1	513A002141	2	5.36	2.68	N/A	N/A	No
			7/15/2012	1	513A002141				N/A	N/A	No
RW 12-14B			5/19/2012	1	513A001913	2	4.91	2.46	N/A	N/A	No
			5/19/2012	1	513A001912				N/A	N/A	No
RW 43-28B			2/26/2012	1	513A001697	2	3.57	1.79	N/A	N/A	No
			2/26/2012	1	513A001698				N/A	N/A	No

MIDDLE FORK
ENERGY
UINTA, LLC

40 CFR Part 60 Subpart OOOOa
Annual Report – Fugitive Emissions Monitoring

Middle Fork Energy Uinta, LLC
1515 Wynkoop Street Suite 650
Denver, Colorado 80202

Operations in Uinta Basin, Utah
Reporting Period: September 6, 2016 – August 1, 2019

Reporting Requirements - 60.5420a (b) (1) and 60.5420a (b) (7)
See attached TABLES 3-1 and 3-2.

The facilities listed in TABLE 3-1 of this Compliance Report are subject to the requirements of 40 CFR 60.5397a. TABLE 3-1 includes the information specified in the reporting requirements of 40 CFR 60.5420a (b) (7) (i) through 40 CFR 60.5420a (b) (7) (vi). TABLE 3-2 includes information specified in the reporting requirements of 40 CFR 60.5420a (b) (7) (vii) through 40 CFR 60.5420a (b) (7) (xii).

Records of Deviations - 60.5420a (b) (7) (vi)
MFEP Energy Company is not reporting any deviations for the facilities listed in TABLE 3-1 as specified in 60.5420a (b) (7) (vi).

Difficult to Monitor and Unsafe to Monitor Components - 60.5420a (b) (7) (ix)
MFEP Energy Company is not reporting Difficult to Monitor or Unsafe to Monitor Components per 60.5397a (g) (4).

Delay of Repair - 60.5420a (b) (7) (vi)
MFEP Energy Company is not reporting any delay of repair for the locations listed in TABLE 3-2 as specified in 60.5420a (b) (7) (xi).

Certification of Truth, Accuracy, and Completeness – 60.5420a (b) (1) (iv)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in this report are true, accurate, and complete.

(b) (6) [redacted]

10/29/19

Karl J. Biermann II

Date

Manager of Production Engineering and Operations

Middle Fork Energy Uinta, LLC

TABLE 3-1 Uinta Basin Fugitive Emissions Components

Company Name: Middle Fork Energy Uinta, LLC

Company Address: 1515 Wynkoop Street
Suite 650
Denver, CO 80202

Beginning Date of Reporting Period: Sept. 6, 2018

Ending Date of Reporting Period: August 1, 2019

Facility Name	Latitude	Longitude	Date of Survey	Beginning Time of Survey	Ending Time of Survey	Survey Performed By	Ambient Conditions			Monitoring Instrument	Deviations From Monitoring Plan	Leaks Detected (See Table 3-2 for Details)
							Temperature (F)	Sky Condition	Maximum Wind Speed (mph)			
RW 44-16A PAD	(b) (9) [redacted]		9/6/2018	10:43AM	11:52AM	Sandee Pummell[1]	73	Partly Cloudy	1	FLIR GF320	No deviations	No
KJ 33B-17A	[redacted]		9/19/2018	12:27PM	1:20PM	Sandee Pummell[1]	75	Clear	1	FLIR GF320	No deviations	Yes
SR 32A-13H	[redacted]		9/20/2018	9:47AM	11:02AM	Sandee Pummell[1]	64	Clear	1	FLIR GF320	No deviations	Yes
WV SW-22-8-21	[redacted]		2/7/2019	10:10AM	11:10AM	Sandee Pummell[1]	3	Clear	1	FLIR GF320	No deviations	No
RW 23-13B	[redacted]		2/12/2019	12:40PM	1:40PM	Sandee Pummell[1]	17	Clear	1	FLIR GF320	No deviations	Yes
RW 32-17C	[redacted]		2/12/2019	11:37AM	12:30PM	Sandee Pummell[1]	17	Clear	1	FLIR GF320	No deviations	Yes
RW CPF DISPOSAL	[redacted]		2/13/2019	11:55AM	12:55PM	Sandee Pummell[1]	20	Overcast	2	FLIR GF320	No deviations	Yes
RW 11-33B SWD	[redacted]		2/22/2019	1:07PM	2:11PM	Nate Massey[2]	25	Overcast	0	FLIR GF320	No deviations	Yes
RW CPF 27A	[redacted]		2/27/2019	11:05AM	12:15PM	Nate Massey[2]	17	Overcast	0	FLIR GF320	No deviations	No
RW SD2-26B	[redacted]		3/4/2019	11:00AM	11:36AM	Sandee Pummell[1] & Nate Massey[2]	19	Overcast	2	FLIR GF320	No deviations	No
RW 23-23B PAD	[redacted]		3/4/2019	8:48AM	11:00AM	Sandee Pummell[1] & Nate Massey[2]	17	Overcast	4	FLIR GF320	No deviations	Yes
RW 44-16A PAD	[redacted]		3/5/2019	11:04AM	12:24PM	Sandee Pummell[1] & Nate Massey[2]	21	Partly Cloudy	1	FLIR GF320	No deviations	Yes
SR 32A-13H	[redacted]		3/19/2019	11:52AM	12:59PM	Sandee Pummell[1]	35	Partly Cloudy	1	FLIR GF320	No deviations	Yes
KJ 33B-17A	[redacted]		3/18/2019	1:01PM	2:28PM	Sandee Pummell[1]	36	Partly Cloudy	1	FLIR GF320	No deviations	Yes
RW 44-22B	[redacted]		6/5/2019	10:01AM	11:20PM	Sandee Pummell[1] & Nate Massey[2]	74	Clear	1	FLIR GF320	No deviations	Yes

[1] OGI Surveyor Sandee Pummell is an ITC Certified Infrared Thermographer with 3 years of experience conducting OGI surveys.

[2] OGI Surveyor Nate Massey is an ITC Certified Infrared Thermographer with 2 years of experience conducting OGI surveys.

TABLE 3-2 Uinta Basin Fugitive Emissions Components

Company Name: Middle Fork Energy Uinta, LLC

Company Address: 1515 Wynkoop Street
Suite 650
Denver, CO 80202

Beginning Date of Reporting Period: Sept. 6, 2018

Ending Date of Reporting Period: August 1, 2019

Facility Name	Date of Survey	Component Type	Number of Components for Which Fugitive Emissions Were Detected	Number of Fugitive Emissions Components not Repaired as Required in §60.5397a(h) (See footnote below)	Date(s) of Successful Repair of Fugitive Emissions Component	Number of Fugitive Emissions Components Placed on Delay of Repair	Explanation for Delay of Repair	Type of Instrument Use to Repair a Fugitive Emissions Component not Repaired During Initial Survey	Number and Type of Difficult to Monitor and Unsafe to Monitor Components
KJ 33B-17A	9/19/2018	Valves	1	0	9/21/2018	0	N/A	FLIR GF320	N/A
		PRV	1	0	9/21/2018	0	N/A		N/A
SR 32A-13H	9/20/2018	Valves	1	0	9/25/2018	0	N/A	FLIR GF320	N/A
RW 23-13B	2/12/2019	Connectors	1	0	2/14/2019	0	N/A	FLIR GF320	N/A
		Connectors	1	0	2/14/2019	0	N/A		N/A
RW 32-17C	2/12/2019	Valves	1	0	2/21/2019	0	N/A	FLIR GF320	N/A
RW CPF DISPOSAL	2/13/2019	Connectors	1	0	2/19/2019	0	N/A	FLIR GF320	N/A
		Connectors	1	0	2/19/2019	0	N/A		N/A
RW 11-33B SWD	2/22/2019	Connectors	1	0	2/26/2019	0	N/A	FLIR GF320	N/A
		Connectors	1	0	2/26/2019	0	N/A		N/A
RW 23-23B PAD	3/4/2019	Valves	1	0	3/5/2019	0	N/A	FLIR GF320	N/A
		Valves	1	0	3/5/2019	0	N/A		N/A
		Valves	1	0	3/5/2019	0	N/A		N/A
		Connectors	1	0	3/5/2019	0	N/A		N/A
RW 44-16A	3/5/2019	Connectors	1	0	3/8/2019	0	N/A	FLIR GF320	N/A
SR 32A-13H	3/19/2019	Other	1	0	3/20/2019	0	N/A	FLIR GF320	N/A
		Regulator	1	0	3/22/2019	0	N/A		N/A
		Connectors	1	0	3/19/2019	0	N/A		N/A
		Connectors	1	0	3/22/2019	0	N/A		N/A
KJ 33B-17A	3/18/2019	Valves	1	0	3/25/2019	0	N/A	FLIR GF320	N/A
		Connectors	1	0	3/25/2019	0	N/A		N/A
RW 44-22B PAD	6/5/2019	Connectors	1	0	6/10/2019	0	N/A	FLIR GF320	N/A
		Connectors	1	0	6/10/2019	0	N/A		N/A
		Connectors	1	0	6/10/2019	0	N/A		N/A
		PRV	1	0	6/10/2019	0	N/A		N/A
		Connectors	1	0	7/18/2019	0	SEE NOTE		N/A
		Connectors	1	0	7/18/2019	0	SEE NOTE		N/A

Repairs made within the timeframes specified in §60.5397a(h)(1) and (2), and resurveyed within the timeframe specified within §60.5397a(h)(3), are considered to be repaired as required in §60.5397a(h).

NOTE- Delayed to next blowdown event. Repair would emit more than leak.

MIDDLE FORK ENERGY UINTA, LLC

40 CFR Part 60 Subpart OOOOa
Annual Report – Well Completions

Middle Fork Energy Uinta, LLC
1515 Wynkoop Street Suite 650
Denver, Colorado 80202

Operations in Uinta Basin, Utah

Reporting Period: September 6, 2018 – August 1, 2019

Reporting Requirements - 60.5420a (b) (1) and 60.5420a (b) (2)

See attached Table 1.

The facilities included in this Annual Report are wells subject to the requirements of 40 CFR 60.5375a. Table 1 includes the information specified in the reporting requirements of 40 CFR 60.5420a (b) (2) (i) through 40 CFR 60.5420a (b) (2) (iii).

Records of Deviations - 60.5420a (b) (2) (ii)

MFEP Energy Company is not reporting any deviations for the facilities listed in Table 1. All well completion operations were performed in compliance with the requirements specified in 40 CFR 60.5375a.

Certification of Truth, Accuracy, and Completeness – 60.5420a (b) (1) (iv)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in this report are true, accurate, and complete.

(b) (6) [redacted]

10/09/19

Kyle Shepherd

Date

Drilling and Completions Engineer

Middle Fork Energy Uinta, LLC

TABLE 1: Uintah Basin Completions

Company Name: Middle Fork Energy Uinta, LLC

Company Address: 1515 Wynkoop Street
Suite 650
Denver, CO 80202

Beginning Date of Reporting Period: September 6, 2018

Ending Date of Reporting Period: August 30, 2019

Well Name	Facility Name	API	Latitude	Longitude	Date Flowback Commenced	Date Flowback Ended	Duration of Flowback (hours)	Date, Time, and Duration of Venting of Casinghead (hours)	Disposition of Recovery	Duration of Recovery (hours)
RW 15C1-22B	RW 44-22B PAD	43-047-52540	(b) (9) [redacted]		4/13/2019 12:00PM	05/23/19 11:00AM	960	No venting	Routed to Flowline	942
RW 15B1-22B	RW 44-22B PAD	43-047-52539			4/13/19 2:00PM	5/23/19 3:00PM	960	No venting	Routed to Flowline	892
RW 15C4-22B	RW 44-22B PAD	43-047-52541			4/13/2019 10:00PM	5/23/2019 7:00PM	957	No venting	Routed to Flowline	891
RW 10C4-22B	RW 44-22B PAD	43-047-52535			04/14/19 3:00AM	5/23/19 7:00PM	952	No venting	Routed to Flowline	895
RW 2B1-27B	RW 44-22B PAD	43-047-52649			04/20/19 7:00PM	5/23/19 7:00PM	792	No venting	Routed to Flowline	792
RW 10C1-22B	RW 44-22B PAD	43-047-52534			04/21/19 1:00AM	5/23/19 7:00PM	786	No venting	Routed to Flowline	786
RW 2B4-27B	RW 44-22B PAD	43-047-52495			4/21/19 3:00AM	5/23/19 7:00PM	784	No venting	Routed to Flowline	784
RW 10B4-22B	RW 44-22B PAD	43-047-52532			4/21/19 7:00PM	5/23/19 7:00PM	780	No venting	Routed to Flowline	780
RW 4C4-26B	RW 44-22B PAD	43-047-52519			7/23/19 6:00AM	8/30/19 2:00PM	907	No venting	Routed to Flowline	725
RW 4C1-26B	RW 44-22B PAD	43-047-52516			7/24/19 6:00AM	8/30/2019 1:00PM	896	No venting	Routed to Flowline	722
RW 4B4-26B	RW 44-22B PAD	43-047-52513			7/24/19 6:00AM	8/30/19 2:00PM	896	No venting	Routed to Flowline	720
RW 4B1-26B	RW 44-22B PAD	43-047-52512			7/30/19 6:00AM	8/30/19 2:00PM	752	No venting	Routed to Flowline	713
RW 13C4-23B	RW 44-22B PAD	43-047-52537			8/1/19 6:00AM	8/30/19 2:00PM	704	No venting	Routed to Flowline	665
RW 13C1-23B	RW 44-22B PAD	43-047-52536			7/30/19 6:00AM	8/30/19 2:00PM	752	No venting	Routed to Flowline	711
RW 15C1-22B	RW 44-22B PAD	43-047-52540			8/3/19 6:00AM	8/30/19 2:00PM	656	No venting	Routed to Flowline	605