NTG

ENVIRONMENTAL

October 25, 2017

TCEQ Region 16 (Laredo, Texas)

Attn: Mr. Arnaldo Lanese

- Air Section Manager

707 E Calton Rd, Ste 304

Laredo, TX 78041-3887

Re: 40 CFR Part 60 Subpart 0000a Annual Report - RY17

Ageron Energy, LLC

Dear Mr. Lanese, 911 Regional Park Drive

Houston, Texas 77060

Tel. 281.872.9300

WWW n kg lobal.com

In compliance with 40 CFR §60.5420a reporting requirements, Ageron Energy, LLC (Ageron) is

submitting this annual report.

This report has been prepared based on information and data provided by Ageron. If you have any

questions or need further information, please contact me at 281.872.9300 or by email at

bginn@ntglobal.com. All written correspondence should be sent to:

Ageron Energy, LLC

1250 NE Loop 410, Suite 500

San Antonio, Texas 78209

Attention: Ms. Katy Rodriguez

Sincerely,

William Ginn

NTG Environmental

Attachments: 0000a Annual Report Certification Page

Fugitive Emissions Survey Data

Well Completion Daily Logs

cc: Ms. Katy Rodriguez - Ageron Energy, LLC

EPA Region 6

Creating a Better Environment

For Oil & Gas Operations

40 CFR 60 SUBPART 0000a ANNUAL REPORT

GENERAL INFORMATION

Reporting Period: September 18,2015 to August 1, 2017

—

Company Name: Ageron Energy, LLC

_.

Mailing Address:

Street:

City:

State: .

1250 NE Loop 410, Suite 500

San Antonio County: Bexar

Texas Zip Code: 78209

TCEQ Region: 16 - Laredo

RESPONSIBLE OFFICIAL

Name: ,

Blaine Spies Title: VP of Operations

Email: bspiesPageronllc.com Phone: 210-569-7113

Certification Statement:

I hereby certify that, based on information and belief formed after reasonable inquiry, the statements

and information in this document are true, accurate, and complete,

if:447-4' i,r6ie' P6" AVV.2 Di 7 9Signature o l esponsible Official Date

Affected Facilities Included in Report

Fugitive Emissions Components Yes

High -bleed Pneumatic Controllors N/A

Oil and Gas Wells Yes

Pneumatic Pumps N/A

Reciprocating Compressors N/A

Storage Vessels N/A

Affected Facility Deviation Report

API Well

Site Name I Latitude Longitude Affected Facility Deviation

Number

lnititial Survey was not completed within 60

Fugitive Emissions

N. Bauerle Unit No. 4H 42-507-33280

Components at a Well Site days of start-up of production due to

confusion over the applicability of the rule.

Location and Well Information

Company:

TCEQ Region

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-507-33280 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas Li New Well Completion

Oil 11 II Recompletion

Li Re -fracture

Date

(mm/dd/yyyy) Start Time

(hh:mm) End Time

(hh:mm) Duration of

Flowback

(hours) Duration of as

from

Separator to

Flowline

(hours) Duration ofCombustion

of

Gas from

Separator

(hours) Duration of

Venting from

Separator

(hours) Comment

01/15 - 24/2017 3:00 PM 10:00 AM 211 0 0 0 Initial Flowback Stage

01/24 - 27/2017 10:00 AM 7:00 AM 68 68 0 0 Preparing pipeline

01/27/2017 7:00 AM End 0 0 0 0 Gas to Sales

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

NTG

ENVIRONMENTAL

October 25, 2017

TCEQ Region 16 (Laredo, Texas)

Attn: Mr. Arnaldo Lanese

- Air Section Manager

707 E Calton Rd, Ste 304

Laredo, TX 78041-3887

Re: 40 CFR Part 60 Subpart 0000a Annual Report - RY17

Ageron Energy, LLC

Dear Mr. Lanese, 911 Regional Park Drive

Houston, Texas 77060

Tel. 281.872.9300

WWW n kg lobal.com

In compliance with 40 CFR §60.5420a reporting requirements, Ageron Energy, LLC (Ageron) is

submitting this annual report.

This report has been prepared based on information and data provided by Ageron. If you have any

questions or need further information, please contact me at 281.872.9300 or by email at

bginn@ntglobal.com. All written correspondence should be sent to:

Ageron Energy, LLC

1250 NE Loop 410, Suite 500

San Antonio, Texas 78209

Attention: Ms. Katy Rodriguez

Sincerely,

William Ginn

NTG Environmental

Attachments: 0000a Annual Report Certification Page

Fugitive Emissions Survey Data

Well Completion Daily Logs

cc: Ms. Katy Rodriguez - Ageron Energy, LLC

EPA Region 6

Creating a Better Environment

For Oil & Gas Operations

40 CFR GO SUBPART 0000a ANNUAL REPORT

GENERAL INFORMATION

Reporting Period: September 18, 2015 to August 1, 2017

Company Name: Ageron Energy, LLC

Mailing Address:

Street:

City:

State: 1250 NE Loop 410, Suite 500

San Antonio County: Bexar

—

Texas Zip Code: 78209

TCECI Region: 16 - Laredo

RESPONSIBLE OFFICIAL

Name: Blaine Spies Title: VP of Operations

Email: bspies@ageronlic.conn Phone: _...

210-569-7113

Certification Statement:

I hereby certify that, based on information and belief formed after reasonable inquiry, the statements

and information in this document are true, accurate, and complete.

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ANe to/i6/,2,61) 7 .11.;ifiriature

o esponsible Official Date

Affected Facilities Included in Report

Fugitive Emissions Components Yes

High -bleed Pneumatic Controllors N/A

Oil and Gas Wells Yes

Pneumatic Pumps N/A

Reciprocating Compressors N/A

Storage Vessels N/A

Affected Facility Deviation Report

API Well

Site Name Latitude Longitude Affected Facility Deviation

Number

Fugitive Emissions lnititial Survey was not completed within 60

N. Bauerle Unit No. 4H 42-507-33280 (b) (9) days of start-up of production due to Components at a Well Site confusion over the applicability of the rule.

Location and Well Information

Company:

TCEQ Region

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

42-507-33280 Well Type: Activity:

Gas Li New Well Completion

Oil 11 II Recompletion

Li Re -fracture

Date

(mm/dd/yyyy) Start Time

(hh:mm) End Time

(hh:mm) Duration of

Flowback

(hours) Duration of as

from

Separator to

Flowline

(hours) Duration ofCombustion

of

Gas from

Separator

(hours) Duration of

Venting from

Separator

(hours) Comment

01/15 - 24/2017 3:00 PM 10:00 AM 211 0 0 0 Initial Flowback Stage

01/24 - 27/2017 10:00 AM 7:00 AM 68 68 0 0 Preparing pipeline

01/27/2017 7:00 AM End 0 0 0 0 Gas to Sales

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

AUX LLC

719 Tetreau St, Thibodaux, Louisiana 70301

October 27, 2017

U.S. EPA, Region VI

Compliance Assurance & Enforcement Division

Air Enforcement Branch

1445 Ross Avenue, Suite 1200

Dallas, Texas 75202-2733

R6WellCompletion@epa.gov

RE: 40 CFR 60 - Subpart OOOOa; Annual Report

RYCA Energy Partners LLC

Reporting Period: 8/2/2016 to 8/1/2017

On behalf of RYCA Energy Partners LLC (RYCA), and in accordance with 40 CFR 60.5420a,

please find enclosed the corresponding report for the affected sources located in Louisiana

for the referenced owner/operator. This report covers the time period of 8/2/2016 to

8/1/2017.

If any other information is needed or required regarding this matter, please do not hesitate

to contact me at (985) 446-6700 or by email at daclem@charter.net.

All written correspondence should be directed to:

RYCA Energy Partners LLC

Attn.: Larry L. Bates

201 N. Bevill Street

Winnfield, LA 71483

Thank you in advance for your assistance with this matter.

Respectfully,

Drew A. Clements

Agent for RYCA Energy Partners LLC

AUX LLC

719 Tetreau St

Thibodaux, LA 70301

40 CFR 60

- SUBPART 0000a; ANNUAL REPORT

Reporting Period: 8/2/2016 8/1/2017

General Information

Company Name: RYCA Energy Partners LLC

Mailing Address

Street: 201 N. Bevill Street

City: Winnfield

State: LA Zip Code: 71483

Responsible Official

Name: Larry L. Bates

Email: lbates@batesdallis.com Title: President &CEO

Phone: 318-648-9595

Technical Contact ,

Name: Drew A. Clements

Email: daclem@charter.net Title: Authorized Agent for RYCA

Phone: 985-665-5525

Affected Facilities Included in this report?

Wells ,

NO

Centrifugal Compressors NO

Reciprocating Compressors NO

Continuous Bleed Pneumatic Controllers NO

Storage Vessels NO

Pneumatic Pumps NO

Collection of Fugitive Emissions Components at a Well Site YES

Collection of Fugitive Emissions Components at a Compressor Station NO

Certification

I hereby certify that, based on information and belief formed after reasonable inquiry, the statements and information in this

document are true, accurate, and complete.

Drew A Clements

Name of Responsible Official Authorized Agent for RYCA

Title

Signature of Responsible Official Date Signed

Reporting Period: 8/2/2016 to 8/1/2017

Company Name:

Affected Facility:

Cavenham Lease Tank Battery N/A N/A

Sharp Heirs G #2 Tank Battery -

Roseland Field

207331 N/A

Sharp Heirs SWD Tank Battery -

Roseland Field

207338 N/A

Tremont D Tank Battery N/A N/A

Date of Survey*

Address of Affected Facility or

Description of Site Location

*It should be noted that no monitoring was conducted during the referenced reporting period. Initial surveys were not conducted prior to EPA's issuance of

the stay of the initial compliance date on May 26, 2017. Upon the vacatur of the stay, a program was initiated to conduct the required monitoring and to bring

the facilities into full compliance. All remaining information required under 40 CFR 60.5420a(b)(7) will be incorporated in the next report.

Collection of Fugitive Emissions Components at a Well Site

RYCA Energy Partners LLC

40 CFR 60 - SUBPART OOOOa; ANNUAL REPORT

Facility Name

LDEQ AI

Number

Latitude Longitude

(b) (9)

AUX LLC

719 Tetreau St, Thibodaux, Louisiana 70301

October 27, 2017

U.S. EPA, Region VI

Compliance Assurance & Enforcement Division

Air Enforcement Branch

1445 Ross Avenue, Suite 1200

Dallas, Texas 75202-2733

R6WellCompletion@epa.gov

RE: 40 CFR 60 - Subpart OOOOa; Annual Report

Interstate Explorations LLC

Reporting Period: 8/2/2016 to 8/1/2017

On behalf of Interstate Explorations LLC (Interstate), and in accordance with 40 CFR

60.5420a, please find enclosed the corresponding report for the affected sources located in

Louisiana for the referenced owner/operator. This report covers the time period of

8/2/2016 to 8/1/2017.

If any other information is needed or required regarding this matter, please do not hesitate

to contact me at (985) 446-6700 or by email at daclem@charter.net.

All written correspondence should be directed to:

Interstate Explorations LLC

Attn.: Jacky Michael

17010 Interstate Highway 20

Cisco, TX 76437

Thank you in advance for your assistance with this matter.

Respectfully,

Drew A. Clements

Agent for Interstate Explorations LLC

AUX LLC

719 Tetreau St

Thibodaux, LA 70301

40 CFR 60- SUBPART 0000a; ANNUAL REPORT

Reporting Period: 8/2/2016 to 8/1/2017

General Information

Company Name: Interstate Explorations LLC

Mailing Address

Street: 17010 Interstate Highway 20

City: Cisco

State: TX Zip Code: 76437

Responsible Official

Name: Jacky Michael

Email: jmichael@ie-11c.net Title: Production Foreman

Phone: (817) 850-3610

Technical Contact

Name: Drew A. Clements

Email: daclem@charter.net Title: Authorized Agent for IEL

Phone: 985-665-5525

Affected Facilities Included in this report?

Wells NO

Centrifugal Compressors NO

Reciprocating Compressors NO

Continuous Bleed Pneumatic Controllers NO

Storage Vessels NO

Pneumatic Pumps NO

Collection of Fugitive Emissions Components at a Well Site YES

,Collection of Fugitive Emissions Components at a Compressor Station NO

Certification

I hereby certify that, based on information and belief formed after reasonable inquiry, the statements and information in this

document are true, accurate, and complete.

Drew A. Clements

Name of Responsible Official Authorized Agent for Interstate

Title

Signature of Responsible Official Date Signed

1 of 2

Reporting Period: 8/2/2016 to 8/1/2017

Company Name:

Affected Facility:

Burdin Prop Pship #1 Production

Facility - Section 28 Field

200735 N/A

Date of Survey*

Address of Affected Facility or

Description of Site Location

*It should be noted that no monitoring was conducted during the referenced reporting period. An initial survey was not conducted prior to EPA's issuance of

the stay of the initial compliance date on May 26, 2017. Upon the vacatur of the stay, a program was initiated to conduct the required monitoring and to

bring the facility into full compliance. All remaining information required under 40 CFR 60.5420a(b)(7) will be incorporated in the next report.

Collection of Fugitive Emissions Components at a Well Site

Interstate Explorations LLC

40 CFR 60 - SUBPART OOOOa; ANNUAL REPORT

Facility Name

LDEQ AI

Number

Latitude Longitude

(b) (9)

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PRICE ENERGY CONSULTING, LLC

P. O. BOX 50676

t_.,,

MIDLAND, TX 79710-0676 - uiv.

(432) 528-2777

October 30, 2017

US EPA, District 6 Office

Air NSPS Section Administrator

1445 Ross Avenue

Dallas, TX 75202

Re: COG Operating, LLC

NSPS 0000a Annual Report

Dear Madam/Sir:

Enclosed, please find the Annual Report for 40 CFR Part 60, 0000a for the above referenced

company. The report covers the compliance period beginning August 2, 2016 through August I,

2017.

If you have any questions or require additional intbrmation, please me at (432) 528-2777.

Enclosures

Cc: TCEQ, Region 7

9900 W 1H-20, Ste, 100

Midland, TX 79706

Robert McNeill, COG Operating, LLC - Midland, TX

COG Operating LLC

NSPS 0000a Annual Report

8/2/2016- 8/1/2017

CERTIFICATION STATEMENT

The signature below confirms that based on information and belief formed after

reasonable inquiry, the statements and information in this document are true, accurate and

complete.

/216-a,A2cit

Robert McNeill

Environmental Manager

COG Operating LLC

(432) 685-4304 10 -027-.02a/7

Date

COG Operating, LLC

NSPS 0000a Annual Report

Site Information

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Longitude of the contains the

US Well ID or US Well ID Latitude of the Site

Site (decimal Beginning Date Ending Date of certification signed

Associated with the Address of Affected State (decimal degrees to

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Facility Record Company Name •

•• S decimals using the professional

No. (460.5420a (b)(1)(0) Facility Site Name (§605420a(h)(1)(i)) Affected Facility, if Facility * County • Abbreviation

North American decimals using the Period.* Period.*

engineer for each

applicable. * 1§60.5420a(b)(1)(i)) North American (460.5420a(b)(1) 060 5420a(b)(1)

(460.5420a(b)(1)(q) Datum of 1983)

Datum of 1983) iii)) (iii)) closed vent system

(960.5420a(b)(1)(q) routing to a control

(960.5420a(b)(1)(i))

device or process. •

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Armstrong 282311

Barstow A 3652H

Big Gipper State Unit 2.50611

Big Gipper State Unit 250711

Bronze 6-15150511

Carpenter E Unit 222H

Carpenter E Unit 22311

Chief Pinkie 7706H

Chute Buster 62311

Cowden 28 Unit 1 2802 811

Cowden 28 Unit 2801 All

DR State Central 1213H

DR State East 3028H

DR State East 3029H

DR State East 3428H

Govemator Unit 804H

Govemator Unit 80511

Govemator Unit 80611

Grissom 182111

Grissom 182311 42-109-32967

42-109-32963

42-479-37174

42-388-35237

42-389-35340

42-389-35195

42-109-32941-00

42-109-32940-00

42-389-35575

42-109-32964

42-461-40380

42-461-40369

42-109-33025

42-109-33034

42-109-33033

42-109-33025

42-389-35293

42-389-35363

42-389-35192

42-109-32971

42-109-32948 Not Applicable

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8/1/2017

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COG Operating, LLC

NSPS 0000a Annual Report

Site Information

Facility Record

NO. Company N.I1 C.

Ig60.5470a(b)(1)(i)) Facility Site Name • (560.5420a(b)(1)(i)) US Well ID or US Well ID

Associated with the

Affected Facility, if

applicable. •

1960.5420a(b)(1)(i)) Address of Affected

Facility •

1560.5420a(b)(1)(0) _

County • State

Abbreviation

• Latitude of the Site

(decimal degrees to

5 decimals using the

North American

Datum of 1983)

(§60.5420a(b)(11(i)) longitude of the

Site (decimal

degrees to 5

decimals using the

North American

Datum of 1983)

(960.5420a(b)(1)(i)) Beginning Date

of Reporting

Period."

(560.5420a(b)(1)(

III)) Ending Date of

Reporting

Period.'

(460.5420a(b)(1)

(iii)) medse pi LIVI{Al 0 le

file name that

contains the

certification signed

by a qualified

professional

engineer for each

closed vent system

routing to a control

device or process. •

(960.5420a(b)(12))

1022 COG Operating, LLC Hasel 28 P1 Unit 2803 All 42.461-40371 Not Applicable Upton TX 8/2/2016 8/1/2017

1023 COG Operating, LLC Hasel 28 P1 Unit 2804 SH 42-461-40372 Not Applicable Upton TX 8/2/2016 8/1/2017

1024 COG Operating, LLC Hand 28 Unit 1 2802 BH 42-463-40370 Not Applicable Upton TX 8/2/2016 8/1/2017

1025 COG Operating, LLC Hasel 28 Unit 2801 AH 42-46140368 Not Applicable Upton TX 8/2/2016 8/1/2017

1026 COG Operating, LLC Have) 28 P2 Unit 1 2306 EWA 42-46140374 Not Applicable Upton Tx 8/2/2016 3/1/2017

1027 COG Operating, LLC Hanel 28 P2 Unit 2805 AN 42-461-40373 Not Applicable Upton TX 3/2/2016 8/1/2017

1028 COG Operating, LLC Hate) 53 Unit 5301 AN 42-461-40454 Not Applicable Upton TX

8/2/2016 8/1/2017

1029 COG Operating, LLC Hand 53 Unit A 5303 All 42-461-40458 Not Applicable Upton ix 8/2/2016 8/1/2017

1030 COG Operating, LLC Hanel 53 Unit 8 5302 BH 42-461-40459 Not Applicable Upton TX 8/2/2016 8/1/2017

1031 COG Operating, LLC Hasta La Vista 801H 42-389-35165 Not Applicable Reeves TX 8/2/2016 8/1/2017

1032 COG Operating, LLC Haste La Vista 803H 42-389-35285 Not Applicable Reeves TX 8/2/2016 8/1/2017

1033 COG Operating, LLC Johnny Ryall Unit 1/03H 42-389-35389 Not Applicable Reeves Tx 8/2/2016 8/1/2017

1034 COG Operating, LLC Johnny Ryall Unit 1152H 42-389-35391 Not Applicable Reeves TX 8/2/2016 8/1/2017

1035 COG Operating, LLC Joyce P2 Unit 7123 AH 42-461-40408 Not Applicable Upton Tx 8/2/2016 8/1/2017

1036 COG Operating, LLC Joyce P2 Unit 7123 BH 42-461-40409 Not Applicable Upton TX 8/2/2016 8/1/2017

1037 COG Operating, LLC Joyce P2 Unit 8239 BH 42-461-40410 Not Applicable Upton TX 8/2/2016 8/1/2017

1038 COG Operating, LLC June Unit 7201 BH 42-461-40334 Not Applicable Upton TX 8/2/2016 8/1/2017

1039 COG Operating, LLC June Unit 7202 BH 42-461-40330 Not Applicable Upton TX 8/2/2016 8/1/2017

1040 COG Operating. LLC June Unit 7227 AH 42-461-40333 Not Applicable Upton TX 8/2/2016 8/1/2017

1041 COG Operating, LLC Karen 5121 AH 42-461-40239-00 Not Applicable Upton Tx 8/2/2016 8/1/2017

1042 COG Operating, MC Karen 5121 BH 42-461-40240-00 Not Applicable Upton TX 8/2/2016 8/1/2017

2

COG Operating, LLC

NSPS 0000a Annual Report

Site Information

Facility Record

No. Company Name •

(860-54208(b)(1H0)North

1 Facility Site Name • (560.5420a(b)(1Xi)) US Well ID or US Well ID Associated with the

Affected Facility, if

applicable. •

(860.5420a(b)(1)(0) Address of Affected

Facility •

(960.5420a(b)(1)(i)) County • State

Abbreviation

• Latitude of the Site

(decimal degrees to

5 decimals using the

American

Datum of 1983)

(960.5420a(b)(1)(q)

I ,

Longitude of the

Site (decimal

degrees to 5

decimals using the

North American

Datum of 1983)

(860.5420a(b)(1)(i)) Beginning Date

of Reporting

Period.*

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Reporting

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certification signed

by a qualified

professional

engineer for each

closed vent system

routing to a control

' device or process. •

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1043 COG Operating, LLC Mabee 240C 145 LS 42-003-47392 Not Applicable Andrews TX 8/2/2016 8/1/2017

1044 COG Operating, LLC Mabee 240C 146 MS 42-003-47394 Not Applicable Andrews Tx 8/2/2016 8/1/201.7

1045 COG Operating, LLC Maggie 8 42-461-39817 Not Applicable Upton Tx 8/2/2016 8/1/201.7

1046 COG Operating, LLC Mann 15 Pl. Unit 1501 BH 42-461-40350 Not Applicable Upton TX 8/2/2016 8/1/2017

1047 COG Operating, LLC Mann 15 Pl. Unit 1519 AH 42-461-40357 Not Applicable Upton Tx 8/2/2016 8/1/2017

1048 COG Operating, LLC Mann 15 Pl. Unit 1502 BH 42-461-40348 Not Applicable Upton Tx 8/2/2016 8/1/2017

1049 COG Operating, LLC Mar? Scharbauer B1 1201 fill 42-329-41196 Not Applicable Midland Tx 8/2/2016 8/1/2017

1050 COG Operating, LLC Mary Scharbauer B2 1201 LH 42-329-41195 Not Applicable Midland TX 8/2/2016 8/1/2017

1051 COG Operating, LLC Mary Scharbauer E33 1202 BH 42-329-41190 Not Applicable Midland TX 8/2/2016 8/1/2017

1052 COG Operating, LLC Mary Scharbauer 134 1202 LH 42-329-41172 Not Applicable Midland TX 8/2/2016 8/1/2017

1053 COG Operating, LLC Mary Scharbauer B6 1203 1311 42-329-41198 Not Applicable Midland Tx 8/2/2016 8/1/2017

1054 COG Operating, 1.LC Mary Scharbauer 87 1203 LH 42-329-41197 Not Applicable Midland Tx 8/2/2016 8/1/2017

1055 COG Operating, LLC Monarch State 140511 42-371-39474 Not Applicable Midland rx 8/2/2016 8/1/2017

1056 COG Operating, LLC Norma P1 Unit 7103 BH 42-461-40319 Not Applicable Upton Tx 8/2/2016 8/1/2017

1057 COG Operating, LLC Norma P1 Unit 7104 BF(42-461-40320 Not Applicable Upton TX 8/2/2016 8/1/2017

1058 COG Operating, LLC Norma PI Unit 7128 All 42-461-40317 Not Applicable Upton TX 8/2/2016 8/1/2017

1059 COG Operating, LLC PFU2 1454 LH 42-329-41040 Not Applicable Midland Tx 8/2/2016 8/1/2017

1060 COG Operating, LIC PFU2 1450 BH 42-329-41041 Not Applicable Midland TX 8/2/2016 8/1/2017

1061 COG Operating, LLC PFU2 1450 LH 42-329-41043 Not Applicable Midland TX 8/2/2016 8/1/2017 -

1062 COG Operating, LLC PFU2 1451 LH 42-329-40915 Not Applicable Midland Tx 8/2/2016 8/1/2017

1063 COG Operating, LLC PFU2 1455 LH 42-329-40914 Not Applicable Midland TX 8/2/2016 8/1/2017

3

COG Operating, LLC

NSPS 0000a Annual Report

Site Information

Facility Record

No. Company Name •

(460.5420a(bX1)(1)) Facility Site Name • (560.54204(b)(1)(i)) US Well10 or US Well ID

Associated with the

Affected Facility, if

applicable. •

(560.5420a(b)(1)(i)) Address of Affected

Facility •

(460.5420a(bX1Xi)) County • State

Abbreviation

• Latitude of the Site

(decimal degrees to

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North American

Datum of 1983)

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Datum of 1983)

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certification signed

by a qualified

professional

engineer for each

closed vent system

routing to a control

device or process.'

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1064 COG Operating, LLC PFU2 1863 BH 42-329-40764 Not Applicable Midland TX 8/2/2016 8/1/2017

1065 COG Operating, LLC PFU2 1863 BH 42-329-40765 Not Applicable Midland Tx 8/2/2016 8/1/2017

1066 COG Operating, LLC PFU2 1904 1311 42-329-41105 Not Applicable Midland TX 8/2/2016 8/1/2017

1067 COG Operating, LLC PFU3 104 OH 42-329-41316 Not Applicable Midland TX 8/2/2016 8/1/2017

1068 COG Operating, LLC PFU3 104 LH 42-329-41315 Not Applicable Midland TX 8/2/2016 8/1/2017

1069 COG Operating, LLC PFU3 105 BH 42-329-41312 Not Applicable Midland TX 8/2/2016 8/1/2017

1070 COG Operating, LLC PFU3 105 LH 42-329-41313 Not Applicable Midland TX 8/2/2016 8/1/2017

1071 COG Operating, LLC PFU3 105 SH 42-329-41314 Not Applicable Midland TX 8/2/2016 8/1/2017

1072 COG Operating, LLC PFU3 108 OH 42-329-40932 Not Applicable Midland TX 8/2/2016 8/1/2017

1073 COG Operating, LLC PFU3 108 LH 42-329-40933 Not Applicable Midland Tx 8/2/2016 8/1/2017

1074 COG Operating, U.0 PFU3 109 AH 42-329-40940 Not Applicable Midland Tx 8/2/2016 8/1/2017

1075 COG Operating, LLC PFU3 117 OH 42-329-41003 Not Applicable Midland TX 8/2/2016 8/1/2017

1076 COG Operating, LLC PFU3 117 LH 42-329-40992 Not Applicable Midland Tx 8/2/2016 8/1/2017

1077 COG Operating, LLC PFU3 118 BH 42-329-40990 Not Applicable Midland Tx 8/2/2016 8/1/2017

1078 COG Operating, LLC PFU3 118 LH 42-329-40989 Not Applicable Midland TX 8/2/2016 8/1/2017

1079 COG Operating, LLC PFU3 1007611 42-329-41245 Not Applicable Midland Tx 8/2/2016 8/1/2017

1080 COG Operating, LLC PFU3 1007 U -I 42-329-41247 Not Applicable Midland TX 8/2/2016 8/1/2017

1081 COG Operating, LLC PFU3 5505 BH 42-329-41050 Not Applicable Midland TX 8/2/2016 8/1/2017

1082 COG Operating, LLC P9U3 5505 Ul 42-329-41048 Not Appl cable Midland Tx 8/2/2016 8/1/2017

1083 COG Operating, LLC PFU3 5506 LH 42-329-41059 Not Applicable Midland TX 8/2/2016 8/1/2017

1084 COG Operating, U.0 PFU3 5507 LH 42-329-41064 Not Applicable Midland TX 8/2/2016 8/1/2017

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COG Operating, LLC

NSPS 0000a Annual Report

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No. Company Name •

(560.5420a(b)(1)(i))

I Facility Site Name • (460.5420a(b)(1)(i))

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(§6o.542oafb)(11(0) Address of Affected

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(S60.5420a(b)(1)(1)) County • State

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1085 COG Operating, LLC PFU3 10913H 42-329-40941 Not Applicable Midland Tx 8/2/2016 8/1/2017

1086 COG Operating, LLC PF03 109 LH 42-329-40942 Not Applicable Midland rx 8/2/2016 8/1/2017

1.087 COG Operating, LIC PF03 119 LH 42-329-41244 Not Applicable Midland Ix 8/2/2016 8/1/2017

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1088 COG Operating, LLC PFU3 120 LH 42-329-41209 Not Applicable Midland rx 8/2/2016 8/1/2017

1089 COG Operating, LLC PFU3 1304 LH 42-329-41039 Not Applicable Midland TX 8/2/2016

8/1/2017

1090 COG Operating, LLC Phoenix A Unit 760211 42-389-35570 Not Applicable Reeves Tx 8/2/2016 8/1/2017

1091 COG Operating, LLC PSU 1007 MH 42-329-41230 Not Applicable Midland TX 8/2/2016 8/1/2017

1092 COG Operating, LLC Ratliff E 2201 LS 42-135-43241 Not Applicable Ector Tx 8/2/2016 8/1/2017

1093 COG Operating, LLC Ratliff I 4401 LS 42-135-43408 Not Applicable Ector TX 8/2/2016 8/1/2017

1094 COG Operating, LLC Red Cloud 3801H 42-389-34822 Not Applicable Reeves TX 8/2/2016 8/1/2017

1095 COG Operating, LLC Screaming Eagle 380411 42-389-35202 Not Applicable Reeves D(8/2/2016 8/1/2017

1096 COG Operating, LLC Streaming Eagle 380311 42-389-35643 Not Applicable Reeves TX 8/2/2016 8/1/2017

1097 COG Operating, LLC Steel Unit 8206H 42-475-37090 Not Applicable Ward TX 8/2/2016 8/1/2017

1098 COG Operating, LLC Sure Shot 951H 42-389-35181 Not Applicable Reeves TX 8/2/2016 8/1/2017

1099 COG Operating, LLC Thunderbird Unit 5002H 42-389-35491 Not Applicable Reeves D(8/2/2016 8/1/2017

1100 COG Operating, LLC Timberveolf State Unit 170111 42-389-35208 Not Applicable Reeves TX 8/2/2016 8/1/2017

1101 COG Operating„ LLC Tycoon 8 100411 42-389-35071 Not Applicable Reeves TX 8/2/2016 8/1/2017

1102 COG Operating, LLC Tycoon E 100611 42-389-35174 ,

Not Applicable Reeves TX 8/2/2016 8/1/2017

1103 COG Operating, LLC Tycoon E 105311 42-389-35072 Not Applicable Reeves Tx 8/2/2016 8/1/2017

1104 COG Operating, LLC Tycoon G Unit 120211 42-389-35319 Not Applicable Reeves TX 8/2/2016 8/1/2017

_ 1105 COG Operating, LLC Tycoon G Unit 120111 42-389-35234 Not Applicable Reeves TX 8/2/2016 8/1/2017

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COG Operating, LLC

NSPS 0000a Annual Report

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No. Company Name •

(§60.5420a(b)(1)(0) Facility Site Name ' (960.5420a(b)(1)(i)) US Well loot US Well ID

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1106 COG Operating, LLC Tycoon G Unit 125114 42-389-35235 Not Applicable Reeves TX 8/2/2016 8/1/2017

1107 COG Operating, LLC Tycoon G Unit 1252H 42-389-35318 Not Applicable Reeves TX 8/2/2016 8/1/2017

1108 COG Operating, LLC Vanessa 5232 BH 42-461-40263-00 Not Applicable Upton TX 8/2/2016 8/1/2017

1109 COG Operating, LLC Veto 1301H 42-389-35263 Not Applicable Reeves TX 8/2/2016

8/1/2017

1110 COG Operating, LLC Wetherbee 421H 42-109-32860 Not Applicable Culberson TX 8/2/2016 8/1/2017

1111 COG Operating, LLC Wetherbee 423H 42-109-32932 Not Applicable Culberson Tx 8/2/2016 8/1/2017

1112 COG Operating, LLC Whatcha Want Unit 7376H 42-475-37211 Not Applicable Ward TX 8/2/2016 8/1/2017

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1113 COG Operating, LLC Windham A 1018K 42-329-40895 Not Applicable

_ Midland Tx 8/2/2016 8/1/2017

1114 COG Operating, LLC Windham A 101 LH 42-329-40873 Not Applicable Midland TX 8/2/2016 8/1/2017

1115 COG Operating, LLC Windham A 102 BH 42-329-40921 Not Applicable Midland Tx 8/2/2016 8/1/2017

1116 COG Operating, LLC Windham A 102 LH 42-329-40872 Not Applicable Midland Tx 8/2/2016 8/1/2017

1117 COG Operating, LLC Windham A 103 BH 42-329-40905 Not Applicable Midland TX 8/2/2016 8/1/2017

1118 COG Operating, LLC Windham A 103 LH 42-329-40875 Not Applicable Midland TX 8/2/2016 8/1/2017

1119 COG Operating, LLC Windham A 104 BH 42-329-40906 Not Applicable Midland TX 8/2/2016 8/1/2017

1120 COG Operating, LLC Windham A 104 LH 42-329-40876 Not Applicable Midland TX 8/2/2016 8/1/2017

1121 COG Operating, LC Worsham 140514 42-389-35203 Not Applicable Reeves TX 8/2/2016 8/1/2017

1122 COG Operating, LLC Neal Ranch 428 Unit 4201 BH 42-461-40543 Not Applicable Upton Tx 8/2/2016 8/1/2017

1123 COG Operating, LC Neal Ranch 42B Unit 4202 BH 42-461-40542 Not Applicable Upton TX 8/2/2016 8/1/2017

1124 COG Operating, LLC Neal Ranch 42B Unit 4231 AK 42-461-40541 Not Applicable Upton TX 8/2/2016 8/1/2017

2001 COG Operating, LLC Azores Federal 714 30-025-43170 Not Applicable Lea NM 8/2/2016 8/1/2017

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COG Operating, LLC

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Azores Federal 1114

Azores Federal 12H

Beech 25 Federal 1241

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Burch Keely Unit 94041

Burch Keely Unit 94241

Burch Keely Unit 94441

Burch Keely Unit 95241

Burch Keely Unit 9664-I

Blue Jay Fed 241

Branex-COG Fed Com 1541

Broadcaster 29 Federal 4H

Bultaco State 311

Cadillac 15 State 10241

Carmen 3 Fed Corn 1341

Caverns Fed Corn 411

Clydesdale 1 Fee 611

Clydesdale 1 Fee 711

Clydesdale 1 Fee 8H

Clydesdale 1 Fee 511 30-025-43212

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COG Operating, LLC

NSPS 0000a Annual Report

Site Information

Facility Record

No. Company Name '

(960.5420a(b)(1)(i)) Facility Site Name • (460.5420a1b)(1)(0) US Well ID or US Well ID

Associated with the

Affected Facility, if

applicable. •

1460.5420a(b)(1)(i)) Address of Affected

Facility •

(460.5420a(b)(1)(i)) County `

I(960.5420a(b)(12)) State

Abbreviation

• Latitude of the Site

(decimal degrees to

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North American

Datum of 1983)

(§60.5420a(b)(1)(i)) Longitude of the

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device or process. •

2023 COG Operating, LLC Collier 22 State Corn 431.1 30-015-44044 Not Applicable Eddy NM 8/2/2016 8/1/2017

2024 COG Operating, LLC Columbus Fee 2H 30-025-42822 Not Applicable Lea NM 8/2/2016 8/1/2017

2025 COG Operating, LLC Copperhead 31 Fed Corn 3H 30-015-43924 Not Applicable Eddy NM 8/2/2016 8/1/2017

2026 COG Operating, LLC Copperhead Fee A 4H 30-015-41210 Not Applicable Eddy NM 8/2/2016 8/1/2017

2027 COG Operating, LLC Dodd Federal Unit 918H 30-015-42940 Not Applicable Eddy NM 8/2/2016 8/1/2017

2028 COG Operating, 11C Dodd Federal Unit 930H 30-01543782 Not Applicable Eddy NM 8/2/2016 8/1/2017

2029 COG Operating. LLC Dodd Federal Unit 921H 30-015-42995 Not Applicable Eddy NM 8/2/2016 8/1/2017

2030 COG Operating, U.0 Fascinator Fee Com 1H 30-025-43037 Not Applicable Lea NM 8/2/2016 8/1/2017

2031 COG Operating, 11C Flat Head Fed Corn 15H 30-025-43157 Not Applicable Lea NM 8/2/2016 8/1/2017

2032 COG Operating, LLC Flat Head Fed Corn 17H 30-025-43224 Not Applicable Lea NM 8/2/2016 8/1/2017

2033 COG Operating, LLC Flat Head Fed Corn 25H 30-025-431139 Not Applicable Lea NM 8/2/2016 8/1/2017

2034 COG Operating, LLC Flat Head Fed Corn 2711 30-025-43147 Not Applicable Lea NM 8/2/2016 8/112017

2035 COG Operating, LLC Geronimo Fed Corn 11H 30-025-43503 Not Applicable Lea NM 8/2/2016 8/1/2017

2036 COG Operating, LLC Goose State Cam 2H 30-025-41201-00 Not Applicable Lea NM 8/2/2016 8/1/2017

2037 COG Operating, LLC Graham Nash Fed Corn 71-1 30-015.43811 Not Applicable Eddy NM 8/2/2016 8/1/2017

2038 COG Operating, LLC Halberd 27 State Corn IN 30-015-42967 Not Applicable Eddy NM 8/2/2016 8/1/2017

2039 COG Operating, LLC Iwo the Boneless Federal 12H 30-025-42997 Not Applicable Lea NM 8/2/2016 8/1/2017

2040 COG Operating, LLC Ivar the Boneless Federal 21H 30-025-43406 Not Applicable Lea NM 8/2/2016 8/1/2017

2041 COG Operating, LLC King Air 8 Fed Corn 3H 30-02541476 Not Applicable Lea NM 8/2/2016 8/1/2017

2042 COG Operating, LLC lajitas BWC1State Cons 1H 30-015-43390 Not Applicable Eddy NM 8/2/2016 8/1/2017

2043 COG Operating, LLC Lusk Deep Unit A 31H 30-015-43878 Not Applicable Eddy NM 8/2/2016 8/1/2017

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COG Operating, !IC

NSPS 0000a Annual Report

Site information

Facility Record

No. Company Name •

(460-5420$8)(1H11)North Facility Site Name • (960.5420a(b)(110)) US Well ID or US Well ID

Associated with the

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(§60.5420a(b)(1)(B) Address of Affected

Facility •

(460.5420a(b)11)(i)) County • State

Abbreviation

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2044 COG Operating, LLC Lusk Deep Unit A 33H 30-025-43390 Not Applicable Lea NM 8/2/2016 8/1/2017

2045 COG Operating, LLC Lychee BWS State Corn 18 30-025-42450 Not Applicable Lea NM 8/2/2016 8/1/2017

2046 COG Operating, LLC Mat Federal 3H 30-025-42950 Not Applicable Lea NM 8/2/2016 8/1/2017

2047 COG Operating, LLC Mas Federal 48 30-025-43482 Not Applicable Lea NM 8/2/2016 8/1/2017

2048 COG Operating, LLC McIntyre DI(Fed Corn 28H 30-015-41273 Not Applicable Eddy NM 8/2/2016 8/1/2017

2049 COG Operating, LLC Music Master 27 Federal 38 30-025-43387 Not Applicable Lea NM 8/2/2016 8/1/2017

2050 COG Operating, LLC Myox 5 State 228 30-015-43706 Not Applicable Eddy NM 8/2/2016 8/1/2017

2051 COG Operating, LLC Myox 5 State Corn 238 30-015-43972 Not Applicable Eddy NM 8/2/2016 8/1/2017

2052 COG Operating, LLC Myox 6 State 28 30-015-41919 Not Applicable Eddy NM 8/2/2016 8/1/2017

2053 COG Operating, LLC Nelson Fed Corn 138 30-025-43705 Not Applicable Lea NM 8/2/2016 8/1/2017

2054 COG Operating, LLC Nelson Fed Corn 23H 30-025-43706 Not Applicable Lea NM 8/2/2016 8/112017

2055 COG Operating, LLC Pan Head Fee 118 30-025-42817 Not Applicable Lea NM 8/2/2016 8/1/2017

2056 COG Operating, LLC Pan Head Fee 22H 30-025-42819 Not Applicable Lea NM 8/2/2016 8/1/2017

2057 COG Operating, LLC Pan Head Fee 248 30-025-42820 Not Applicable Lea NM 8/2/2016 8/1/2017

2058 COG Operating, LLC Pinto 36 State Corn 78 30-015-39973 Not Applicable Eddy NM 8/2/2016 8/1/2017

2059 COG Operating, LLC Pinto 36 State Corn 278 30-015-43399 Not Applicable Eddy NM 8/2/2016 8/1/2017

2060 COG Operating, LLC Populus Fed 2H 30-015-44102 Not Applicable Eddy NM 8/2/2016 8/1/2017

2061 COG Operating, LLC Populus Fed 48 30-015-44103 Not Applicable Eddy NM 8/2/2016 8/1/2017

2062 COG Operating, LLC Puckett 13 Fed Corn 178 30-015-43667 Not Applicable Eddy NM 8/2/2016 8/1/2017

2063 COG Operating, LLC Puckett 13 Fed Corn 258 30-015-43785 Not Applicable Eddy NM 8/2/2016 8/1/2017

2064

_ COG Operating, LLC Puckett 13 Fed Corn 278 30-015-43872 Not Applicable Eddy NM 8/2/2016 8/1/2017

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COG Operating, LLC

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M60-542004(1)(0) County • State

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2065 COG Operating, LLC Queso State 8H 30-07.5-43141 Not Applicable Lea NM 8/2/2016 8/1/2017

2066 COG Operating. LLC Ragnar Fed Corn 15H 30-025-43114 Not Applicable Lea NM 8/2/2016 8/1/2017 -

2067 COG Operating, LLC Ragnar Fed Corn 1611 30-025-43272 Not Applicable Lea NM 8/2/2016 8/1/2017 -

2068 COG Operating, 11C Ragnar Fed Com 25H 30-025-43131 Not Applicable Lea NM 8/2/2016 8/1/2017

2069 COG Operating, LLC Ragnar Fed Com 26H 30-025-43273 Not Applicable Lea NM 8/2/2016 8/1/2017

2070 COG Operating, LLC Raspberry State Corn 1H 30-025-43179 Not Applicable Lea NM 8/2/2016 8/1/2017 _

207:. COG Operating, LLC Red Raider 25 BK5 State 4H 30-025-42992 Not Applicable Lea NM 8/2/2016 8/1/2017

2072 COG Operating, LLC Road Runner Fed Corn 1H 30-015-43133 Not Applicable Eddy NM 8/2/2016 8/112017

2073 COG Operating, LLC Road Runner Fed Corn 11H 30-015-43900 Not Applicable Eddy NM 8/2/2016 8/1/2017

2074 COG Operating, LLC Rojo AE 7811 JV-P Fed Corn Di 30-025-43476 Not Applicable Lea NM 8/2/2016 8/1/2017

2075 COG Operating, LLC Screech Owl Fed Com 3H 30-025-42827 Not Applicable Lea NM 8/2/2016 8/1/2017

2076 COG Operating, LLC Shiner Bock 1 Fed Corn 2811 30-015-4391.3 Not Applicable Eddy NM 8/2/2016 8/1/2017

2077 COG Operating, LLC Sidewinder Fed Corn 4H 30-015-44192 Not Applicable Eddy NM 8/2/2016 8/1/2017

2078 COG Operating, LLC Skelly Unit 422H 30-015-43832 Not Applicable Eddy NM 8/2/2016 8/1/2017

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2079 COG Operating, LLC Slcull Cap Fed Com 22H 30-025-43299 Not Applicable Lea NM 8/2/2016 8/1/2017

2080 COG Operating, LLC Smalls Federal 711 30-025-43068 Not Applicable Lea NM 8/2/2016 8/1/2017 -

2081 COG Operating, LLC Smalls Federal 811 30-025-43069 Not Applicable Lea NM 8/2/2016 8/1/2017 _

2082 COG Operating, LLC Sneed 9 Fed Com 1114 30-025-43284 Not Applicable Lea NM 8/2/2016 8/1/2017 -

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2083 COG Operating, LLC Sneed 9 Fed Corn 1311 30-025-43285 Not Applicable Lea NM

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2084 COG Operating, LLC Sneed 9 Fed Corn 21H 30-025-41489 Not Applicable Lea NM 8/2/2016 8/1/2017

2085 COG Operating, U.0 Sombrero Fed Com 4H 30-02543286 Not Applicable Lea NM 8/2/2016 8/1/2017 _

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COG Operating, LLC

NSPS 0000a Annual Report

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Facility Record Company Name •

Facility Site Name • (460.5420a(b)(1)(i)) Affected Facility, if Facility • County • Abbreviation 5 decimals using the

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No. (960.5420a(b)(1)(i))

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2106 COG Operating, LLL

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Spruce Goose Fed Corn 311

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Switchback State 21H

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Vast State 411

Vast State 511

Vast State 2111

Vast State 2211

Vast State 2311

Vast State 24H

Vast State 2511

Vast State 2611

Viking Helmet State Conn 1H

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COG Operating, LLC

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Datum of 1983) North American

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COG Operating, LLC WAdward Federal 10H

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COG Operating, LLC Aldrin 2822H Tank Battery

Armstrong 2824H Tank Battery

Augustus 1023H Battery

Barstow 33-33 Ill 2H Battery

Barstow A 36-52H Battery

Big Chief 46

Bronze 6-15 IN Battery

Carpenter C Unit 203H Battery

Carpenter E Unit 223H Battery

Chief Pinkie Battery

Chronic 33-395 Battery

Chute Buster 611411 Battery

Omarron Battery

DR State Central 1213H Battery

OR State Central 250111 Battery

DR State East 3428 Battery

Grissom 1802H Battery Not Applicable

Not Applicable

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COG Operating, LLC Grissom 1822H Battery

Hasel - Cowden 28

Hasel Unit 53 Battery

Haste La Vista Battery

Horn Splitter 100211

Ike State Battery

Johnny Ryall Unit Battery

Joyce H Battery

La rimer State Unit Battery

Laura Jean Battery

Mabee 240 (Tank Battery 1)

Mabee 240 C Battery

Mabee 2400 2 Battery

Maggie Battery

Mann 15 P1 Unit H Battery

Mane Lease H Battery

Monarch State Battery

Neal Ranch 42 Battery

Neal Ranch 42H Unit Battery

Norma H Battery

PFU2 1863H Battery Not Applicable

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COG Operating, LLC

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device or process. '

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3039 COG Operating, LLC PFU2 232911 Battery Not Applicable Not Applicable Midland rx 8/2/2016 8/1/2017

3040 COG Operating, LLC PFU3 1080 Battery Not Applicable Not Applicable Midland TX 8/2/2016 8/1/2017

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COG Operating, LLC PFU3 10811 Battery

PFU3 117H Battery

Poppy State Battery

Ratliff A Tank Battery 1

Ratliff E Battery

Ratliff F Battery

Ratliff G (A29) Battery

Ratliff I Battery

Rough Rider Battery

Screaming Eagle Battery

Shepard 82411 Battery

Steel Unit Battery

Stephanie

Sure Shot Battery

Thunderbird Unit Battery

Timberwolf State Unit Battery Not Applicable

Not Applicable

Not Applicable

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3059 COG Operating, LLC

COG Operating, LC

COG Operating, LLC Trailblazer (Angler) Battery

Tycoon C Battery

Tycoon D Battery Not Applicable

Not Applicable

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COG Operating, LLC

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3067 COG Operating, LLC

COG Operating, LC

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COG Operating, LLC Tycoon E Battery

Tycoon F Battery

Tycoon G Battery

Vanessa 5232814 (Karen Vanessa)

Veto Battery

Wetherbee 42111 Battery

Windham A H Unit Battery

Worsham 614 1405H Battery Not Applicable

Not Applicable

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3070 COG Operating, LLC

cxx Operating, LLC

COG Operating, LC Graham 33-35 111 Battery

Mary H Battery

DR State East 302811 Battery Not Applicable

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COG Operating, LLC Admiral Federal Corn 2H Battery

Azores Federal 311 Battery

Banter State Corn 411 Battery

Beech 25 Federal Siti Battery

Blue Jay Federal 111 Battery

Bone Yard 11 Fee 1211

Boone 16 State Corn 211 Battery

Bose 'bard 4 State Corn 1811

Bradley 8 Fee 2H Not Applicable

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COG Operating, LLC

NSPS 0000a Annual Report

Site Information

Facility Record

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Associated with the

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4010 COG Operating. LLC Bradley 8 Fee 311 Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4011 COG Operating, LLC Branex-COG Federal 11 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4012 COG Operating, LLC Broadcaster 29 Federal 3H Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4011 COG Operating, LLC Bultaco State 111 Battery Not Appkcable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4014 COG Operating, LLC Burch Keely Unit 13A Not Appkcable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4015 COG Operating, LLC Burch Keely Unit 13C Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4016 COG Operating, LLC Burch Keely Unit 18A Not Applicable Not Applicable FddY NM 8/2/2016 8/1/2017 Attached

4017 COG Operating, LLC Burch Neely Unit 23A Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4018 COG Operating, LLC Cabo Blanco State Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4019 COG Operating, LLC Cadillac 15 State 4H Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4020 _

COG Operating, LLC Cali Roll 24 Federal Com 2H Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4021 COG Operating, LLC Carmen 3 Federal 1H Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4022 COG Operating, LLC CCAP State Corn 6H Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4023 COG Operating, LLC Chopper State Corn IN Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4024 COG Operating, LLC Clydesdale 1 Fee 6H Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4025 COG Operating. LLC Columbus Fee 211 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4026 COG Operating, LLC Cookie Tosser State Corn 1H Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4027 COG Operating, LLC Cookie Tosser State Corn 211 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4028 COG Operating, LLC Copperhead 31 Federal Corn 314 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4029 COG Operating, LLC Cottonmouth 23 Federal Corn 2H Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4030 COG Operating, LLC Crapshoot Federal 211 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

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COG Operating, LLC

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North American decimals using the Period.' Period.'

engineer for each

%o (§60.5420a(b)(1)(i))

applicable. ' (§60.5420a(b)(1)(i))•North American (§60.5420a(b)(1) (§60.5420a(b)(1)

(§60.5420a(b)(1)(0) Datum of 1983)

(460.5420a (b)(1)(i)) Datum of 1983) iiii) OM closed vent system

routing to a control

(§60.5420a(b)(1)(0)

device or process. •

I

.-- (560.5420a(b)112))

4031 COG Operating, LLC Dlamoodback 22 State Com 5/1 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4032 COG Operating, LLC Dodd Federal Unit 106 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4033 COG Operating, LLC Dodd Federal Unit 14A Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4034 COG Operating, LLC Dodd Federal Unit 154 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4035 COG Operating, LLC Eata Fajita State 911 & 10H Battery Not Applicable Not Applicable Lee NM 8/2/2016 8/1/2017 Attached

4036 COG Operating, LLC Eata Fajita State Corn 611 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4037 COG Operating, LLC Eider Federal 2H Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4038 COG Operating, LLC Electra Federal 33 (North) Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4039 COG Operating, LLC Fascinator Fee Corn 211 Battery Not Applicable Not Applicable Lea NM 6/2/2016 8/1/2017 Attached

4040 COG Operating, U.0 Flat Head Federal Corn 2711 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4041 COG Operating, LLC Flat Head Federal Corn 611 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4042 COG Operating, LLC Gerommo Federal Corn 11H Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4043 COG Operating, LLC Glacier Federal Corn 1H Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4044 COG Operating, LLC Goose State 11.1 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4045 COG Operating, LLC Graham Nash Federal Corn 711 Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4046 COG Operating, LLC Gunner 8 Federal 611 and 7H Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4047 COG Operating, LLC Halberd 27 State 3H Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4048 COG Operating, LLC Horned Owl Federal 311 Not Applies' ble Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4049 COG Operating, LLC Ice Dancer 30 Federal Corn 211 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4050 COG Operating LLC Ivar the Boneless Federal 11H Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4051 COG Operating, LLC King Air 8 Federal Corn 311 Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

17

COG Operating, LLC

NSPS 0000a Annual Report

Site Information

Please pi ovine tile

file name that

contains the

Latitude of the Site Longitude of the

certification signed

US Well ID Of US Well ID

(decimal degrees to Site (decimal Beginning Date Ending Date of

by a qualified

Facility Record Company Name • Associated with the Address of Affected State

5 decimals using the degrees to 5 of Reporting Reporting

professional

No. (§60.5420a(b)(1)(i)) Facility Site Name • (§60.5420a(b)(1)(i)) Affected Facility, if Facility • County • Abbreviation

North American decimals using the Period.* Period.•

engineer for each

applicable. • (§60.5420a(b)(110)) ' North American (§60.5420a(b)(1)I (§60.5420a(b)(1)

(§60.5420a(b)(1)(i)) Datum of 1983)

(§60.5420a(b)(1)(i)) Datum of 1983) iii)) Olin closed vent system

routing to a control

(§60.5420a(b)(1)0))

device or process. •

_. _ (960.5420a(b)(12))

4052 COG Operating, LLC Lantas BWQ State Corn 111 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4053 COG Operating, LLC Lusk Deep Unit A 2311 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4054 COG Operating, U.0 Lusk Deep Unit A 2511 Battery Not Applicable Not Applicable E'ddy NM 8/2/2016 8/1/2017 Attached

4055 COG Operating, LLC Lychee BW5 State Corn IA Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4056 COG Operating, LLC Macho Nacho State Corn 10H Battery Not Applicable Not Applicable Lea NM 8/212016 8/1/2017 Attached

405 COG Operating, LLC Man State 211 Battery Not Applicable Not Applicable Lea NM

8/2/2016 8/1/2017 Attached

4058 COG Operating, LLC Man Federal 311 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4059 COG Operating, LLC Mastiff Federal 311 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4060 COG Operating, LLC McIntyre DK Federal 15 Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4061 COG Operating, LLC Monet Federal 311 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4062 COG Operating LLC Music Master 27 Federal 311 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4063 COG Operating, LLC Myox 5 State Coin 2211 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4064 COG Operating, LLC Myox 6 State Corn 311 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4065 COG Operating, LLC Newcastle 6 Federal Corn 711 Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4066 COG Operating, LLC Pan Head Fee 1311 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4067 COG Operating, IC Pan Head Fee 411 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4068 COG Operating, tic Patron 23 Federal 411 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4069 COG Operating, LLC Pilum 15 Fee 2H Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4070 COG Operating LLC Pinto 36 State Corn 114 Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/21317 Attached

4071 COG Operating, LLC Pinto 36 State Corn 411 Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4072 COG Operating, LLC Populus Federal 311 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

18

COG Operating, LLC

NSPS 0000a Annual Report

Site Information

Facility Record

No. Company Name •

(560.5420a(b)(1)(i)) Facility Site Name • (li60.5420alb)(1)(i)) US Well ID or US Well ID

Associated with the

Affected Facility, if

applicable.*

(960.5420a(b)(1)(4) Address of Affected

Facility •

(660.5420a(b)(1)(i)) County • State

Abbreviation

• ----- -

Latitude of the Site

(decimal degrees to

5 decimals using the

North American

Datum of 1983)

(§60.5420a(b)(1)(B) - -

Longitude of the

Site (decimal

degrees to 5

decimals using the

North American

Datum of 1983)

(460.5420a(b)(1)(i)) Beginning Date

of Reporting

Period.*

460.5420a(b)(1)

in)) Ending Date of

Reporting

Period.'

(660.5420a(b)(1)

(iii)) inease provme We

file name that

contains the

certification signed

by a qualified

professional

engineer for each

closed vent system

routing to a control

device or process. •

(§60.5420a1b)(12))

4073 COG Operating, LLC Puckett 13 Federal Corn 35H Not Applicable Not Applicable Eddy NM I 8/2/2016 8/1/2017 Attached

4074 COG Operating, LLC Puckett 13 Federal Corn 811 Not Applicable Not Applicable Eddy N" I 8/2/2016 8/1/2017 Attached

4075 COG Operating, LLC Queso State 1H Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4076 COG Operating, LLC Queso State 3H and SH Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4077 COG Operating, LLC Ragnar Federal Not Applicable Not Applicable Lea NM 8/2/2016

8/1/2017 Attached

4078 COG Operating, LLC Raspberry State 1H Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4079 COG Operating, LLC Red Raider BKS State #1 Not Applicable Not Applicable Le3 NM 8/2/2016 8/1/2017 Attached

4080 COG Operating, LLC Resolver Fed Corn 2H Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4081 COG Operating, LLC Road Runner Federal Corn 1H Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4082 COG Operating, ULC Sam Adams 12 Federal Corn 4k Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4083 COG Operating, LLC Scooter Federal Conn 2H Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4084 COG Operating, LLC Screech Owl CID Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4085 COG Operating, LLC Sherman 4 Fee 6H Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4086 COG Operating, LLC Shiner Bock 1 Federal Corn 8k Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4087 COG Operating, LLC Sitka BSI State Corn 1H Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4088 COG Operating, LLC Skelly Unit 942 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4089 COG Operating, LLC Skull Cap Fed Corn 2211 Battery Not Applicable Not Applicable Lea NM 8/2/2016 Attached

4090 COG Operating, LLC Si. East 30 Federal 2H Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4091 COG Operating, LLC Smalls Federal 1H Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4092 COG Operating, LLC Sneed 9 Federal Com 2H Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4093 COG Operating, LLC Sombrero Federal Corn 4H Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

19

COG Operating, LLC

NSPS 0000a Annual Report

Site Information

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crease promise one

file name that

Longitude of the contains the

Latitude of the Site certification signed

US Well ID or US Well ID

(decimal degrees to Site (decimal Beginning Date Ending Date of

by a qualified

Facility Record Company Name ' Associated with the Address of Affected State

5 decimals using the degrees to 5 of Reporting Reporting

professional

No. 060.5420a(b)(1)(i)) Facility Site Name • (660.5420a(b)(1)01) Affected Facility, if Facility • County • Abbreviation

North American decimals using the Period. • Period.'

engineer for each

applicable. • 1960.5420a(b)(1)(0) North American 1960.5420a(b)(1)1 (§60.5420a(b)(1)

(460.5420a(b)(1)(i)) Datum of 19831

Datum of 1983) iii)) (iii)) closed vent system

(660.5420a(b)(1)(i))

(§60.5420a(b)(1)(0) routing to a control

device or process. •

ti.-....--... (§60.5420a(b)(12))

4094 COG Operating, LLC Spruce Goose Federal Com 3H Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4095 COG Operating, LLC Stealth Federal Corn 411 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4096 COG Operating, LLC Stonewall 9 Fee 111 Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4097 COG Operating, LLC Stonewall 9 Fee 811 Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4098 COG Operating, LLC Stove Pipe Federal Corn 211 Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4099 COG Operating, LLC Stratosphere 36 State Corn 311 Not Applicable Not Applicable Lea .

NM 8/2/2016 8/1/2017 Attached

4100 COG Operating, LLC Switchback State 2111 Battery Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4101 COG Operating, LLC Tarpan 33 Fee 4H Not Applicable Not Applicable Eddy NM 8/2/2016 8/1/2017 Attached

4102 COG Operating, U.0 Tyrell Fee 1H Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4103 COG Operating, LLC Vast State 211 Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4104 COG Operating, LLC Viking Helmet State Corn 2H Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4105 COG Operating, LLC Warbler State Corn 2Y Battery Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

4106 COG Operating, LLC West Pearl 36 CTE1 Not Applicable Not Applicable Lea NM 8/2/2016 8/1/2017 Attached

20

Duration of

Time of Each Date Well Shut In Time Well Shut In

, Recovery in

Occurrence of and Flowback and Flowback Duration of Hours *

Disposition of Duration of

Duration of Venting Reason for Venting

Returning to the Equipment Equipment Flowback in (Not Required

Recovery* Combustion in

in Hours * M lieu of Capture or

Initial Flowback Permanently Permanently Hours * for Wells

(§60.5420a(b)(2)(i) Hours *

(§60.5420a(b)(2)(i) Combustion *

Stage* Disconnected or the Disconnected or the (§60.5420a(b)(2)(Complying with

and (§60.5420a(b)(2)(i)

and (§60.5420a(b)(2)(i)

060.5420a(b)(2)(i) Startup of Startup of I) and §60.5375a(f))

§60.5420a(c)(1.1(iii)(and

§60.5420a(c)(1)(111)(and

and Production a Production * §60.5420a(c)(1)(i (§60.5420a(b)(2)(

A)-(B)) §60 .5420a(c)(1)(iii)(

A)-(B)) §60.5420a(c)(1)(iii)(

§60-5420a(c)(1)(iii)((560.5420a(b)(2)(i) (§60.5420a(b)(2)(i) ii)(A)-(B)) i) and A) -(R)) A) -(B))

A} -(B)) and and 560.5420a(c)(1)0

§60.5420a(c)(1)(iii)(§60.5420a(c)(1)(iii)(ii)(A))

A) -(B))

4:05 p.m. 12/22/2016 _

11:00 a.m. 48.35 2.35 Combustion 2.35 Not Applicable Not Applicable

11/5/2016 1:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

_ -

6/7/2017 7:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

12/8/2016 8:30 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

12/8/2016 9:00 a.m. 0 0

, Not Applicable Not Applicable Not Applicable

, Not Applicable

8/31/2016 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

1:00 a.m. 8/26/2016 12:00 p.m. 94.25 56 Gas Sales 1

Not Applicable Not Applicable

7:00 a.m. 38.25 Combustion 3825

8/18/2016 10:00 a.m. 72 60 Combustion 60 Not Applicable Not Applicable

5/16/2017 9:00 a.m. _

0 0 Not Applicable Not Applicable Not Applicable Not Applicable

12/18/2016 2:00 p.m. 6 0 Not Applicable Not Applicable Not Applicable Not Applicable

3/19/2017 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

3/19/2017 9:00 art. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

3/24/2017 3:00 p.m. 77 0 Not Applicable Not Applicable Not Applicable Not Applicable

6/29/2017 2:45 p.m. 51.75 0 Not Applicable Not Applicable Not Applicable Not Applicable

6/27/2017 1:00 p.m, 120 48 Combustion 48 Not Applicable Not Applicable

22

COG Operating, LLC

NSPS 0000a Annual Report

Well Completions

Records of

i deviations where Please provide the

well completion file name that

Date of Onset of Time of Onset of Date of Each ilme of Each

i

Facility Record Operations with contains the Record

Flowback Following Flowback Following Attempt to Direct Attempt to Direct

Date Each

No. • hydraulic fracturing of Determination

Hydraulic Fracturing Hydraulic fracturing Flowback to a Flowback to a of

(Select from United States Well were not performed and Supporting Well Completion ID • Well Location •

or Refracturing • or Refracturing • Separator • Separator • Occurrence of

dropdown list - Number in compliance with Inputs and (560.5420a(b)(2)(i) and (§60.5420a(b):2)(i) and

(460.5420a (b)(21(i) (460.5420a (b)(2)(i) (§60.5420a(b)(2)(i) (560.5420a(b)(2)(I) Returning to the

(§60.5420a(b)(1)(0) the requirements Calculations • §60.5420a(c)(1)(i)) §60.5420a(c)(1Xiiii(A)-(811

and and and Initial Flowback

may need to

scroll up) specified in § (§60.5420a(b)(2)(iii) and

§60.5420a(c)(1)(iii)i §60.5420a(c)(1)(iii)(§60.5420a(c)(1)(6i)(§60.5420a(c)(1)(iiI)(Stage •

60.5375a. • and

A) -)B)) 4)-(8)) (460.5420a(b)(2)(i)

(560.5420a(b)(2)(ii) 460.5420a(c)(1)(vii)) and

and Please provide only §60.5420a(c)(1)(iii)(

§60.5420a(c)(1)(4)) one file per record. 4}(B))

1016 42-109-33025 --

No deviations Not Applicable DR State East 34281-I 4/20/2017 8:00 p.m. 4/22/2017 1200 p.m.

1017 42-389-35293 No deviations Not Applicable Governator Unit 804H 5/12/2017 .....

4:00 p.m. 5/12/2017 4:00 p.m.

1018 42-389-35363 No deviations Not Applicable Governabor Unit 80511 12/30/2016 2:30 p.m.

, 12/30/2016 2:30 p.m.

1019 42-389-35192 No deviations Not Applicable Governator Unit 806H 12/30/2016 130 p.m.

_.... 12/30/2016 1:30 p.m.

1020 42-109-32971 No deviations Not Applicable Grissom 18211-I 2/6/2017 10:00 a.m. 2/6/2017 200 p.m.

_

1021 42-109-32948 ,

No deviations Not Applicable Grissom 1823H 11/19/2016 6:00 p.m. 11/19/2016 600 p.m.

3.022 42-461-40371 I No deviations Not Applicable Nasal 28 P1 Unit 2803 AN 3/21/201.7 2:00 p.m. 3/21/2017 2:00 p.m.

1023 42-461-40372 No deviations Not Applicable Nasal 28 P1 Unit 28.04 BH 3/21/2017 200 p.m. 3/21/2017 200 p.m.

-

1024 7

42-461,40370 No deviations Not Applicable Nasal 28 Unit 12302 BH 3/19/2017 9:00 a.m. 3/19/2017 9:00 a.m.

1025 -

42461-40368 No deviations Not Applicable Hose! 28 Unit 2801 All 3/19/2017 9:00 a.m. 3/19/2017 9:00 a.m.

1026 42-461-40374 i

No deviations Not Applicable Hose! 28 P2 Unit 1 2806 Bli 3/21/2017 11:00 a.m. 3/21/2017 1:00 p.m.

,

1027 42-461-40373 No deviations Not Applicable Hasel 28 P2 Unit 2805 All 3/21/2017 11:00 a.m. 3/21/2017 3:00 p.m.

1028 42-461-40454 t4o deviations Not Applicable Nasal 53 Unit 5301 AH 5/7/2017 8:00 a.m. 5/7/2017 8:00 a.m.

-

1029 42-461-40458 No deviations Not Applicable Hasel 53 Unit A 5303 AN 5/7/2017 8:00 a.m. 5/7/2017 800 a.m.

1030 42-461-40459 No deviations Not Applicable Hasel 53 Unit B 5302 BH 5/7/2017 8:00 a.m. 5/7/2017 800 a.m.

,

1031 42-389-35165 No deviations ,

Not Applicable Haste La Vista 801H 8/4/2016 3:30 p.m- 8/4/2016 3:30 p.m.

1032 42-389-35285 No deviations Not Applicable Hosts La Vista 80311 10/1/2016 3:00 p.m. 10/1/2016 3:00 p.m.

1033 42-389-35389 No deviations Not Applicable Johnny Ryall Unit 1103H 4/1/2017 3:00 p.m. 4/1/2017

- 3:00 p.m.

1034 42-389-35391 No deviations _

Not Applicable Johnny Ryall unit 11521) 4/1/2017 3:00 p.m. 4/1/2017 3:00 p.m.

Time of Each
Occurrence of
Returning to the
Initial Flowback
Stage*
060.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(Date Well Shut In
and Flowback
Equipment
Permanently
Disconnected or the
Startup of
Production *
(§613.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Time Well Shut In
and Flowback
Equipment
Permanently
Disconnected or the
Startup of
Production *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of
Flowback in
Hours *
(§60.5420a(b)(2)
i) and
§60.5420a(c)(1)(i
ii)(A)-(B)) Duration of
Recovery in
Hours .
(Not Required
for Wells
Complying with

§60.5375a(f))
(§60.5420a(b)(2)(
i) and
§50.5420a(c)(1)(i
ii)(A)) Disposition of
Recovery *
(560.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(Duration of
Combustion in
Hours *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of Venting
in Hours *
(460.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Reason for Venting
in lieu of Capture or
Combustion *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B))
4/22/201.7 1.2:00 p.m. 40 0 Not Applicable Not Applicable Not Applicable Not Applicable
5/12/2017 4:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
12/30/2016 2:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
12/30/2016 1:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
2/7/2017 3:00 p.m. 29 25 Combustion 25 Not Applicable Not Applicable
11/1.9/2016 6:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
3/21/2017 2:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
3/21/2017 2:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
3/19/2017 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
3/19/2017 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
3/21/2017 1:00 p.m. 2 ,
0 Not Applicable Not Applicable Not Applicable Not Applicable
3/21/2017 3:00 p.m. 4 0 Not Applicable Not Applicable Not Applicable Not Applicable

5/7/2017 8:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

5/7/2017 8:00 a.m. 0 _

0 Not Applicable Not Applicable Not Applicable Not Applicable

5/7/2017 8:00 a.m. _

0 0 Not Applicable Not Applicable Not Applicable Not Applicable

8/4/2016 3:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

10/1/2016 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

4/1/2017 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

4/1/2017 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

24

COG Operating, LLC

NSF'S 0000a Annual Report

Well Completions

Records of

deviations where Please provide the

well completion file name that

Date of Onset of Time of Onset of Date of Each Time of Each

Facility Record operations with contains the Record

Flowback Following Flowback Following Attempt to Direct Attempt to Direct

Pate of Each

No. •Hydraulic hydraulic fracturing of Determination

Fracturing Hydraulic Fracturing Flowback to a Flowback to a

(Select from United States Well were not performed and Supporting Well Completion ID • Well Location •

or Refracturing • or Refracturing • Separator • Separator • Occurrence of

dropdown list Number* in compliance with Inputs and (§60.5420a(bX2Xi) and (560.5420a(b)(2)(1) and

1§60.5420a(b)(2)0) (§60.5420a(b)(2)(i) 1560.5420a(b)(2)(1) (560.5420a(b)(2)(i) Returning to the

1560.54203(b)(1)(ii) the requirements Calculations • §60.5420a(c)(1)(i)) 4605420a(c)(1)(iii)(4)-(6))

and and and and initial Flowback

may need to

scroll up) specified in § (560.5420a(b)(2)(ii

§60-5420a(t)(1)(44(§60.5420a(c)(1)(iii)l §60.5420a(c)(1)(iii)(§60.5420a(c)(1)(iii)(Stage •

60.5375a. • and

A).(B)) 4)-(6)) 4)-(11)) 4)-(13)) (§60.5420a(b)(2)(i)

(§60.5420a(b)(2)(1i) §60.5420a(c)(1)(vii) and

and Please provide only §60.5420a(c)(1)(iii)(

§60.5420a(c)41)(ii)) one file per record. 4)-(15))

1035 42-461-40408 No deviations Not Applicable Joyce P2 Unit 7123 All 4/6/2017 900 cm. 4/6/2017 9:00 a.m.

1036 42-461-40409 No deviations Not Applicable Joyce P2 Unit 7123 BH t)) (9 , 4/6/2017 9:00 a.m. 4/6/2017 9:00 am.

1037 42-461-40410 No deviations Not Applicable Joyce P2 Unit 823988 4/6/2017 9:00 a.m. 4/6/2017 9:00 a.m.

1038 42-461-40334 No deviations Not Applicable June Unit 7201131-1 3/30/2017 11:30 a.m. 3/30/2017 11:30 a.m.

1039 42-461-40330 No deviations Not Applicable June Unit 720268 3/30/2017 11:30 a.m. 3/30/2017 11:30 a.m.

1040 42461-40333 No deviations Not Applicable June Unit 7227 461 3/28/2017 1:00 p.m. 3/28/2017 100 p.m.

1041 4246140239-00 No deviations Not Applicable Karen 51214H 8/7/2016 7:00 p.m. 8/7/2016 7:00 p.m.

1042 42-461-40240-00 No deviations Not Applicable Karen 5121 BH 8/7/2016 7P30 p.m. 8/7/2016 7:00 p.m.

1043 42.003-47392 No deviations Not Applicable Mabee 240C 145 LS 1/19/2017 10:00 a.m. 1/19/2017 1:00 p.m.

,-

1044 42-003-47394 No deviations Not Applicable Ma bee 240C 146 MS 1/19/2017 10:00 a.m. 1/19/2017 1200 p.m.

1045 42-461-39817 No deviations Not Applicable Maggie 8 3/24/2017 10:30 a.m. 3/24/2017 10:30 a.m.

1046 4246140350 No deviations Nat Applicable Mann 15 P1 Unit 1501 BH 2/2/2017 11:00 a.m. 2/2/2017 11:00 a.m.

1047 42-461-40357 No deviations Not Applicable Mann 15 P1 Unit 1519861 2/28/2017 11:00 a.m. 2/28/2017 11:00 a.m.

1048 42-461-40348 No deviations Not Applicable Mann 15 P1 Unit 1502 BH 2/2/2017 11:15 a.m. 2/2/2017 11:15 a.m.

1049 42-329-41196 No deviations Not Applicable Mary Scharbauer 81 120168 5/17/2017 10:15 p.m. 5/17/2017 10:15 p.m.

1050 42-329-41195 No deviations Not Applicable Mary Scharbauer 62 120118 5/17/2017 10:00 p.m. 5/17/2017 10:00 p.m.

1051 42-329-41190 No deviations Not Applicable Mary Scharbauer 63 1202138 5/17/2017 10:10 p.m. 5/17/2017 10:10 p.m.

1052 42-329-41172 No deviations Not Applicable Mary Scharbauer 841202 LH 5/17/2017 9:55 p.m. 5/17/2017 9:55 p.m.

1053 42-329-41198 No deviations Not Applicable Mary Scha rbauer 66 1203 BH 5/4/2017 9:00 a.m. 5/4/2017 9:00 a.m.

25

Time of Each

Occurrence of

Returning to the

Initial Flowback

Stage *

(§60.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(
A) -(B)) Date Well Shut In
and Flowback
Equipment
Permanently
Disconnected or the
Startup of
Production •
(460.5420a(b)(2)(i)
and
960.5420a(c)(1)(iii)(
A)-(8)) Time Well Shut In
and Flowback
Equipment
Permanently
Disconnected or the
Startup of
Production *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of
Flowback in
Hours •
(§60.5420a(b)(2)(
i) and
§60.5420a(c)(1)(i
ii)(A)-(B)) Duration of
Recovery in
Hours *
(Not Required
for Wells
Complying with
§60.5375a(f))
1460.5420a(b)(2)(
i) and
§60.5420a(c)(1)(i
ii)(A)) Disposition of
Recovery *

(§60.5420a(b)(2)(i)§.

and

§60.5420a(c)(1)(iii)(6,..

A) -(B)) Duration of

Combustion in

Hours •

(§60.5420a(b)(2)0)

and

§60.5420a(c)(1)(m)(

A) -(B)) Duration of Venting

in Hours *

I 60.5420a(b)(2)(i)

and

§ 0.5420a(c)(1)(iii)

A) -(B)) Reason for Venting

.

in lieu of Capture or

Combustion *

1460.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(

A) -(B))

4/6/2017 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

4/6/2017 9:00 a.m. 0 0 Not Applicable Not Applicable Nat Applicable Not Applicable

4/6/2017 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

3/30/2017 11:30 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

3/30/2017 11:30 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

3/28/2017 1:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

8/7/2016 7:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

8/7/2016 7:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

1/19/2017 1:00 p.m. 3 0 Not Applicable Not Applicable Not Applicable Not Applicable

1/19/2017 12:00 p.m. 2 0 Not Applicable

_ Not Applicable Not Applicable Not Applicable

—

3/24/2017 10:30 are. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

2/2/2017 11:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

2/28/2017 11:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

2/2/2017 11:15 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

5/17/2017 10:15 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

5/17/2017 10:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

5/17/2017 10:10 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

5/17/2017 9:55 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

5/4/2017 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

26

COG Operating, LLC

NSPS 0000a Annual Report

Well Completions

Records of

deviations where Please provide the

well completion file name that

Date of Onset of Time of Onset of Date of Each Time of Each

Facility Record operations with contains the Record

Flowback FoNowing Flowback Following Attempt to Direct Attempt to Direct

Date of Each

No. •Hydraulic hydraulic fracturing of Determination

Fracturi ; Hydraulic Fracturing Flowback to a Flowback to a

(Select from United States Well were not performe , and Supporting Well Completion ID • Well Location •

or Ftefracturing • or Refracturing • Separator • Separator • Occurrence of

dropdown list- Number" in compliance with Inputs and I560.5420a(bX2)(i) and (it60.5420aibp2)(i) and

IN60.5420a (b)(2HI) (N60.5420a(h)(Mi) (460.5420a (b)(2(i) O60.54203(6)(2)(0 Returning to the

(160.5420a(b)(1)(1i) the requirements Calculations • *60.5420a(c)(1)(i)) N60.5420a(c)(1):iii)(A)-(8))

and and and and Initial Flowback

may need to

scroll up) specified in 4 (560.5420a(b)(2)(iiiStage

N60.5420a(c)(1)(6i)l N60.5420a(c)(1)(iii)(N60.5420a(c)(1)(iii)(460.5420a(c)(1)(Hi)(•

60.5375a. • and

A(-(B)) A) -(B)) A) -(B)) A) -(B)) (460.5420a(b)(2)(i)

060.5420a(bX2)(ii) N60.5420a(c)(1)(vH) and

and Please provide only I N50.5420a(c)(1)(iii)(

N60.5420a(c)(1)(10) one file per record. AHB))

1054 42-329-41.197 No deviations Not Applicable Mary Scharbauer 87 1203 LH I) '1') (9 5/4/2017 8:37 a.m. 5/4/2017 8:37 a.m. 1055 42-371-39474 No deviations Not Applicable Monarch State 3405H 4/16/2017 8:30 a.m 4/16/2017 8:30 a.m. 1056 42-461-40319 No deviations Not Applicable Norma P1. Unit 7103 BH 11/11/2016 11/11/2016 1:00 p.m. 10:00 a.m. 11/11/2016 11/11/2016 1:00 p.m. 10:00 a.m. 1057 42-461-40320 No deviations Not Applicable Norma P1 Unit 7104 BH 1058 42-461-40317 No deviations Not Applicable Norma P1 Unit 71284H 11/11/2016 3:00 p.m. 11/11/2016 3:00 p.m. 1059 42-329-41040 No deviations Not Applicable PFU2 1454 LH 12/4/2016 6:00 p.m. 12/4/2016 6:00 p.m. 1060 42-329-41041 No deviations Not Applicable PFU2 1450 BH 2/13/2017 1:15 p.m. 2/13/2017 1:15 p.m. 1061 42-329-41043 No deviations Not Applicable PFU2 1450 LH 2/13/2017 1:15 p.m.

2/13/2017 1:15 p.m. 1062 42-329-40915 No deviations Not Applicable PFU2 1451 LH 12/16/2016 7:30 p.m. 12/16/2016 7:30 p.m. 1063 42-329-40914 No deviations Not Applicable PFU2 1455 LH 12/16/2016 8:00 p.m. 12/16/2016 8:00 p.m. 1064 42-329-40764 No deviations Not Applicable PFU2 1863 BH 1/16/2017 3:00 p.m. 1/16/2017 3:00 p.m. 1065 42-329-40765 No deviations Not Applicable PFU2 1363 BH I 1/16/2017 2:20 p.m. 1/16/2017 2:20 p.m. 1066 42-329-41105 No deviations Not Applicable PFU2 1904 BH 1 12/22/2016 10-15 a.m. 12/22/2016 10:15 a.m. 1067 42-329-41316 No deviations Not Applicable PFU3 104 BH 7/5/2017 135 p.m. 7/5/2017 1:35 p.m. 1068 42-329-41315 NO deviations Not Applicable PFU3 1041K 7/5/2017 1:50 p.m. 7/5/2017 1:50 p.m. 1069 42-329-41312 No deviations Not Applicable PFU3 105 BH 7/3/2017 12:25 p.m. 7/3/2017 12:25 p.m. 1070 42-329-41313 No deviations Not Applicable PFU3 105 LH 7/3/2017 5:20 p.m. 7/3/2017 5:20 p.m. 1071 42-329-41314 No deviations Not Applicable PFU3 105 SH 7/3/2017 2:00 p.m. 7/3/2017 2:00 p.m. 1072 42-329-40932 No deviations Not Applicable PFU3 1013 EH 11/22/2016 10:15 a.m. 11/22/2016 10:15 a.m.

27

Time of Each

Occurrence of

Returning to the

Initial Flowback

Stage *

(§60.5420a(b)(2)(i)

and

§60.5430a(c)(1)(iii)(

A) -(B)) Date Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of

Production *

(560.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(Time Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of

Production *

(§60.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(Duration of

Flowback in

Hours *

(§60.5420a(b)(2)

i) and
§60.5420a(c)(1)(i
ii)(A)-(B))
I Duration of
Recovery in
Hours *
(Not Required
for Wells
Complying with
§60.S375a(f))
(§60.5420a(b)(2)
i) and
560.5420a(c)(1)(i
ii)(A)) Disposition of
Recovery*
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of
Combustion in
Hours *
(§60.5420a(b)(2)(i)
and
460.5420a(c)(1)(iii)(
A) -(B)) Duration of Venting
in Hours *
(§60.5420a(b)(2)(i)
and
*60.5420a(c)(1)(iii)(
A) -(B)) Reason for Venting
in lieu of Capture or
Combustion *
(460.5420a(b)(2)(i)
and
460.5420a(c)(1)(iii)(
A) -(B))
5/4/2017 3:37 urn, 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
4/16/2017 3:30 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
11/11/2016 1:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

11/11/2016 10:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

11/11/2016 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

12/4/2016 6:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

2/13/2017 1:15 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

2/13/2017 1:15 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

12/16/2016 7:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

12/16/2016 8:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

1/16/2017 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

1/16/2017 2:20 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

12/22/2016 10:15 a urn. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

7/5/2017 1:35 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

7/5/2017 1:50 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

7/3/2017 12:25 p.m. 00 Not Applicable Not Applicable Not Applicable Not Applicable

7/3/2017 5:20 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

7/3/2017 2:00 p.m. 00 Not Applicable Not Applicable Not Applicable Not Applicable

11/22/2016 10:15 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

28

COG Operating, LLC

NSPS 0000a Annual Report

Well Completions

Records of

deviations where Please provide the

well completion file name that

Date of Onset of Time of Onset of Date of Each Time of Each

Facility Record operations with contains the Record

Flowback Following Flowback Following Attempt to Direct Attempt to Direct

No. • hydraulic fracturing of Determination

Hydraulic Fracturing Hydraulic Fracturing Flowback to a Flowback to a Date of Each

(Select from United States Well were not performed and Supporting Well Completion ID • Well Location •

or Refracturing • or Refracturing " Separator • Separator • Occurrence of

dropdown list

- Number' in compliance with Inputs and (960.5420a(b)(2)(i) and 1960.5420a(b)(2)(i) and

(860.5420a(BH2lii) (960.5420a(b)(2)(i) (960.5420a(b)(2)(i1 (960.5420a(b)(2)(i) Returning to the

(960.5420a(b)(1)(ii)) the requirements Calculations • 860.5420a(c)(1)(i)) 960.5420*R100(41BH

and and Initial Flowback

may need to

scroll tip)960.5420a(c)(1)(61)(specified in 9 (960.5420a(b)(2)(01) and and

560.5420atcp)(iii)(460.5420.(cmiXiii)(960.5420a(c)(1)(iii)(Stage "

60.5375a. ' and

A)-(8)) 4)-(B)) A) -(S)) 4)-(B)) 1960.5420a(b)(2)(i)

(960.5420a(b)(2)(ii) §60.5420a(c)(1)(vii)) and

and Please provide only 960.5420a(c)(1)(iii)(

960.5420a(c)(1)(ii)) one file per record. 4)-(8))

a ..1

1073 42-329-40933 No deviations Not Applicable PFU3 108 LH

PFU3 109 AM I (0) (9)

PFU3 117 BH I 1.1/22/2016 10:35 a.m. 11/22/2016 10:35 a.m.

1074 42-329-40940 No deviations Not Applicable 11/22/2016 10:25 am, 11/22/2016 10:25 a.m.

...

107$ 42-329-41003 No deviations Not Applicable 12/21/2016 4:30 p.m. 12/21/2016 4:30 p.m.

1076 42-329-40992 No deviations Not Applicable PFU3 117 LH I 12/21/2016 4:30 p.m. 12/21/2016 4:30 p.m.

1077 42-329-40990 No deviations Not Applicable -

PFU3 1.18 BH 1/3/2017 8:00 p.m. 1/3/2017 8:00 p.m.

1078 42-329-40989 No deviations Not Applicable PFU3 118 LH 1/3/2017 8:00 p.m. 1/3/2017 8:00 p.m.

1079 42-329-41245 No deviations Not Applicable PFU3 100784 6/22/2017 8:15 a.m. 6/22/2017 8:15 a.m.

1080 42-329-41247 No deviations Not Applicable PFU3 1007 LH 6/22/2017 330 p.m. 6/22/2017 3:30 p.m.

1081 42-329-41050 No deviations Not Applicable PFU3 5505 EH 2/28/2017 2:35 p.m. 2/28/2017 2:35 p.m.

1082 42-329-41048 No deviations Not Applicable PFU3 5505 LH 2/28/2017 2:40 p.m. 2/28/2017 240 p.m.

1083 42.329-41059 No deviations Not Applicable PFU3 5506 LH 2/28/2017 9:45 a.m. 2/28/2017 9:45 a.m.

1084 42-329-41064 No deviations Not Applicable PFU3 5507 LH 2/28/2017 9:35 a.m. 2/28/2017 9:35 a.m.

1085 42-329-40941 No deviations Not Applicable PFU3 109 BH 11/10/2016 8:50 a.m. 11/10/2016 8:50 a.m.

1086 42-329-40942 No deviations Not Apptcable PfU3 109 LH 11/13/2016 1130 a.m. 11/13/2016 11:30 a.m.

1087 42-329-41244 No deviations Not Applicable PFU3 119 LH ..

5/1/2017 8:20 a.m. 5/1/2017 8:20 a.m.

1088 42-329-41.209 No deviations Not Applicable PFU3 120 LH 5/1/2017 8:20 a.m. 5/1/2017

- 8:20 a.m.

1089 42-329-41039 No deviations Not Applicable PFU3 1304 LH a

11/13/2016 10:45 a.m. 11/13/2016 10:45 a.m.

_

1.090 42-389-35570 No deviations Not Applicable Phoenix A Unit 7602H _

5/18/2017

- 8:30 a.m. 5/18/2017 8:30 a.m.

–

1091 42-329-41230 No deviations Not Applicable PSI.) 1007 NM 6/22/2017 4:30 p.m. 6/22/2017 4:30 p.m.

29

Time of Each

Occurrence of

Returning to the

Initial Flowback

Stage*

(§60.5420a(b)(2)(i)

and

§60.542.0a(c)(1)(iii)(Date Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of

Production *

(§60.5420a(b)(2)(i)

and

460.5420a(c)(1)(iii)(

A) -(B)) Time Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of

Production *

(§60.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(

A) -(B)) Duration of

Flowback in

Hours *

(§60.5420a(b)(2)(

i) and

§60.5420a(c)(1)(1

ii)(A)-(B)) Duration of

Recovery in
Hours *
(Not Required
for Wells
Complying with
§60.5375a(f))
(§60.5420a(b)(2)(
i) and
g60.5420a(c)(1)(i
ii)(A)) Disposition of
Recovery *
(460.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of
Combustion in
Hours *
(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A)-(8)) Duration of Venting
in Hours*
(§60.5420a(b)(2)(i)060.5420a
and
§60.5420a(c)(1)(iii)(
A) -(B)) Reason for Venting
in lieu of Capture or
Combustion *
(560.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B))
I I'.
11/22/2016 10:35 are. 0 0 Not Applicable Not Applicable Not Applicable
, Not Applicable
11/22/2016 10:25 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
12/21/2016 4:30 p.m. 0 0 Not Applicable
, Not Applicable
_ Not Applicable Not Applicable

12/21/2016 4:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

1/3/2017 8:00 p.m. 0 0 Not Applicable Not Applicable

_ Not Applicable Not Applicable

1/3/2017 8:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

6/22/2017 8:15 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

6/22/2017 3:30 p.m. 0 0 Not Applicable Not Applicable

_ Not Applicable Not Applicable

2/28/2017 2:35 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

2/28/2017 2:40 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

2/28/2017 9:45 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

2/28/2017 9:35 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

11/10/2016 8:50 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

11/13/2016 11:30 a.m. 0 0 Not Applicable

_ Not Applicable Not Applicable Not Applicable

5/1/2017 8:20 a.m. 0 0 _

Not Applicable Not Applicable Not Applicable Not Applicable

5/1/2017 8:20 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

11/13/2016 10:45 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

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5/18/2017 8:30 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

6/22/2017 4:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

30

COG Operating, LLC

NSPS 0000a Annual Report

Well Completions

Records of

! deviations where Please provide the

well completion file name that

Date of Onset of Time of Onset of Date of Each Time of Each

Facility Record operations with contains the Record

Flowback Following Flowback Following Attempt to Direct Attempt to Direct

Date of Each

No.••Hydraulic hydraulic fracturing of Determination Fracturing Hydraulic Fracturing Flowback to a Flowback to a

(Select from United States Well were not performed and Supporting Well Completion ID • Well Location •

or Refracturing • or Refracturing • Separator • Separator • Occurrence of

dropdown list- Number* in compliance with Inputs and (860.5420a(b)(2)(1) and (860.5420a(b)(2)(i) and

(060.5420a(b)(2110 (§60.5420a(b)(2)(1) (§60.5420a(b)(2)01 (560.5420a(b)(2)(i) Returning to the

060.5420a(b)(1)(0) the requirements Cakulations • §50.5420a(c)(1)(i))
860.5420a(c)(1)(iii)(A)-(B))

and and and Initial Flowback

may need to

scroll up) specified in § (860.5420a(b)(2)(111) and

§60.5420a(c)(1)(iiill §60.5420a(cX1)(iii)l §60.5420a(c)(10)(§60.5420a(cX1)001 Stage •

60.5375a. • and

A) -(B)) A) -(B)) A) -(B)) A)-(8)) (960.54209(b)(2)(1)

(§60.5420a(b)(2)(ii) §60.5420a(c)(1)(vii)) and

and Please provide only §60.5420a(c)(1)(iii)(

§6o.5420a(c)(1)(i)) one file per record.

, A) -(B))

I 4

1 1 I

1092 42-135-43241 No deviations Not Applicable Ratliff E 220115 11/16/2016 2:30 p.m. 11/16/2016 2:30 p.m.

1093 42-135-43408 No deviations Not Applicable Ratliff 14401 IS i 5/2/2017 7:00 p.m. 5/2/2017 7:00 p.m

1094 42-389-34822 No deviations Not Applicable Red Cloud 380111 6/29/2017 10:30 a.m. 0/29/2017 10:30 a.m.

1095 42-389-35202 No deviations Not Applicable Screaming Eagle 38048 9/29/2016 3:00 p.m. 9/29/2016 3:00 p.m.

1096 42-389-35643 No deviations Not Applicable Screaming Eagle 380311 6/24/2017 9:00 a.m. 6/24/2017 9:00 a.m.

1097 42-475-37090 No deviations Not Applicable Steel Unit 82068 8/24/2016 8:00 a.m. 8/24/2016 8:00 a.m.

-

1098 42-389-35181 No deviations Not Applicable Sure Shot 95111 11/14/2016 10:00 a.m. 11/14/2016 10.00 a.m.

1099 42-389-36491 No deviations Not Applicable Thunderbird Unit 500211 2/15/2017 6:00 p.m. 2/15/2017 6:00 p.m.

1100 42-389-35208 No deviations Not App Nca ble Timberwolf State Unit 1701H 5/24/2017 11:00 a.m. 5/24/2017 1.2:00 p.m.

1101 42-389-35071 No deviations Not Applicable Tycoon E 10041-1 11/18/2016 3:00 p.m. 11/18/2016 3:03 p.m.

1102 42-389-35174 No deviations Not Applicable Tycoon E 10068 11/16/2016 COO p.m. 11/16/2016 400 p.m.

1103 _

42-389-35072 No deviations Not Applicable Tycoon E 10538 11/18/2016 2:30 p.m. 11/18/2016 2:30 p.m.

-

1104 42-389-35319 No deviations Not Applicable Tycoon G Unit 120211 3/27/2017 600 p.m. 3/27/2017 6:00 p.m.

-

1105 42-389-35234 No deviations Not Applicable Tycoon G Unit 12018 2/2/2017 8:30 a.m. 2/2/2017 8:30 a.m.

11.06 42-389-35235 _

No deviations Not Applicable Tycoon G Unit 1251H 2/2/2017 9:30 am. 2/2/2017 9:30 a.m.

1107 42-389-35318 No deviations Not Applicable Tycoon G Unit 1252H 3/27/2017 500 p.m. 3/27/2017 7:00 p.m.

1108 42-461-40263-00 No deviations Not Applicable Vanessa 5232 BH 8/6/2016 7:00 p.m. 8/7/2016 3:00 am.

1109 42-389-35263 No deviations Not Applicable Veto 13011-I 10/13/2016 3:00 p.m. 10/13/2016 3:00 p.m.

1110 42-109-32860 No deviations Not Applicable Wetherbee 421H 5/16/2017 1_2:00 p.m. 5/17/2017 2:00 p.m.

31

Time of Each

Occurrence of

Returning to the

Initial Flowback

Stage*

(§60.5420a(b)(2)(i)

and

§605420a(c)(1)(iii)(

A) -(B)) Date Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of

Production *

(§60.5420a(b)(2)(i)

and

460.5420a(c)(1)(iii)(

A) -(B)) Time Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of

Production *

(560.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(

A) -(B)) Duration of

Flowback in

Hours *
(560.5420a(b)(2)(
i) and
§60.5420a(c)(1)(i
ii)(A)-(B)) Duration of
Recovery in
Hours *
(Not Required
for Wells
Complying with
§60.5375a(f))
(§60.5420a(b)(2)(
i) and
§60.5420a(c)(1)(i
ii)(A)) Disposition of
Recovery *
(460.5420a(b)(2)(i)
and
460.5420a(c)(1)(iii)(
A) -(B)) Duration of
Combustion in
Hours *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of Venting
in Hours *
15605420a(b)(2)(i)
and
460.5420a(c)(1)(iii)(
A) -(B)) Reason for Venting
in lieu of Capture or
Combustion *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B))
11/16/2016 2:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
5/2/2017 7:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

6/29/2017 10:30 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

9/29/2016 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

6/24/2017 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

8/24/2016 8:09 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

11/14/2016 10:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

2/15/2017 6:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

5/24/2017 12:00 p.m. 1 0 Not Applicable Not Applicable Not Applicable Not Applicable

11/18/2016 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable

yi Not Applicable

11/16/2016 4:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable

ri Not Applicable

11/18/2016 2:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable

_ Not Applicable

3/27/2017 6:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

2/2/2017 8:30 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

2/2/2017 9:30 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

3/27/2017 7:00 p.m. 2 0 Not Applicable Not Applicable Not Applicable Not Applicable

8/7/2016 3:00 a.m. 8 0 Not Applicable Not Applicable Not Applicable Not Applicable

10/13/2016 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

5/19/2017 5:00 pro. 41.5 12 Gas Sales Not Applicable Not Applicable Not Applicable

32

COG Operating, LLC

NSPS 0000a Annual Report

Well Completions

Records of

deviations where Please provide the

well completion file name that

Date of Onset of Time of Onset of Date of Each Time of Each

Facility Record operations with contains the Record

Flowback Following Flowback Following Attempt to Direct Attempt to Direct

Date Each

No. • hydraulic fracturing of Determination

Hydraulic Fracturing Hydraulic Fracturing Flowback to a Flowback to a of

(Select from United States Well were not performed and Supporting Well Completion ID • Well Location •

or Refracturing • or Refracturing • Separator ' Separator • Occurrence of

dropdown list - Number in compliance with Inputs and (560.5420a(b)(2)(I) and (460.5420a(b)(2)(i) and

(460.54202(4(2)(i) (460.5420a(b)(2)(i) (460.54203(0(2)0) (460.5420a(b)(2)(i) Returning to the

060.54204,1(1)(O the requirements Calculations • 460.5420a(c)(1)0))

460.5420a(c)(1)(iii)(4).(B))

and and Initial Flowback

may need to

specified in 4 (460.5420a(b)(2)(iii) and and

Stage •

scroll up)

• 460.5420a(c)(1)(iii)(460.5420a(c)(1)061(460.5420a(c)(1)(iiill 460.5420a(c)(1)011)(

(460.5420a(b)(2)(i) 60.5375a. and

A)-(13)) A).(13)) A) -(B)) A)-(11))

(460.5420a(b)(2)(ii) 460342000(1)00) and

and Please provide only 460.5420a(c)(1)(iii)(

460.54203(c)(1)(ii)) one file per record.

. .•

1111 42-109-32932 No deviations Not Applicable Wetherbee 423116/7/2017 1:00 p.m. 6/8/2017 700 a.m.

1112 42-475-37211 No deviations Not Applicable whatcha Want unit 737611 k i..))

... 7/23/2017 500 p.m. 7/23/2017 500 p.m.

1113 42-329-40895 No deviations Not Applicable Windham A 101 814 10/5/2016 9:00 p.m. 10/5/2016 9:00 p.m.

1114 42-329-40873 No deviations Not Apptcable Windham A 101 LH 9/22/2016 6:15 p.m. 9/22/2016 6:15 p.m.

1115 42-329-40921 No deviations Not Applicable Windham A 1021311 10/5/2016 8:30 p.m. 10/5/2016 8:30 p.m.

1116 .

42-329-40872 No deviations Not Applicable Windham A 102 LH 9/22/2016 6:00 p.m. 9/22/2016 600 p.m.

1117 42-329-40905 No deviations Not Applicable Windham A 103 BH 10/4/2016 3:00 p.m. 10/4/2016 3:00 p.m.

1118 42-329-40875 No deviations Not Applicable Windham A 103 LH 9/14/2016 7:00 pm. 9/14/2016 7:00 p.m.

1119 42-329-40906 No deviations Not Applicable Windham A 104 811 10/4/2016 430 p.m. 10/4/2016 4:30 p.m.

1120 42-329-40876 No deviations Not Applicable Windham A 104 LH 9/14/2016 8:50 p.m. 9/14/2016 8:50 p.m.

1121 42-389-35203 No deviations Not Applicable Worsham 140511 11/2112016 10:00 a.m. 11/21/2016 10:00 a.m.

1122 42-461-40543 No deviations Not Applicable Neal Ranch 428 Unit 4201 BI- 9/3/2017 140 p.m. 9/3/2017 100 p.m.

1123 42-461-40542 No deviations Not Applicable Neel Ranch 428 Unit 4202611 9/3/2017 2:00 p.m. 9/3/2017 200 p.m.

1124 42-461-40541 No deviations Not Applicable Neal Ranch 428 Unit 4231 AN 9/3/2017 3:00 p.m. 9/3/2017 3:00 p.m.

,

2001 30-025-43170 No deviations Not Applicable Azores Federal 711 No Flowback No Flowback

2002 30-02543212 No deviations Not Applicable _

Azores Federal 811 12/13/2016 10.30 a.m. 12/14/2016 5:00 p.m.

2003 30-025-43171 No deviations Not Applicable Azores Federal 1111 1/15/2017 5:30 p.m. 1/16/2017 3:00 p.m.

33

Time of Each

Occurrence of

Returning to the

Initial Flowback

Stage *

(660.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(

A) -(B)) Date Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of

Production *

(§60.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(

A) -(B)) Time Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of

Production *

(§60.5420a(b)(2)(i)

and

560.5420a(c)(1)(iii)(

A) -(B)) Duration of

Flowback in

Hours*

(§60.5420a(b)(2)

i) and

§60.5420a(c)(1)(i

ii)(A)-(B)) Duration of

Recovery in
Hours *
(Not Required
for Wells
Complying with
§60.5375a(f))
(560.5420a(b)(2)(
i) and
§60.5420a(c)(1)(i
ii)(A)) Disposition of
Recovery*
§ (60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(6...
A) -(B)) Duration of
Combustion in
Hours *
(§60.5420a(b)(2)(i)
and
460.5420a(c)(1)(m)(
A) -(B)) Duration of Venting
in Hours *
(560.5420a(b)(2)(i)
and
§ 0.5420a(c)(1)(iii)(
- A) (BD Reason for Venting
in lieu of Capture or
Combustion *
(§605420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B))
925 Combustion 9.25
6/9/2017 3:00 p.m. 50 32 Combustion 32 Not Applicable Not Applicable
7/23/2017 5:00 p.m. 0 0 Not Applicable Nat Applicable Not Applicable Not Applicable
10/5/2016 9:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
9/22/2016 6:15 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
10/5/2016 8:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
9/22/2016 6:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

10/4/2016 3:00 pro. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

9/14/2016 7:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

10/4/2016 4:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

9/14/2016 8:50 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

11/21/2016 10:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

9/3/2017 1:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

9/3/2017 2:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

9/3/2017 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

6/2/2017 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

12/16/2017 5:45 p.m. 90.5 42.75 Combustion 42.75 Not Applicable Not Applicable

1/17/2017 2:00 p.m. 60.5 16 Gas Sales Not Applicable Not Applicable Not Applicable

34

COG Operating, LLC

NSPS 0000a Annual Report

Well Completions

Records of -

deviations where Please provide the

well completion file name that

Date of Onset of Time of Onset of Date of Each Time of Each

Facility Record operations with contains the Record

Flowback FoNowing Flowback Following Attempt to Direct Attempt to Direct

No. " hydraulic fracturing of Determination

Hydraulic Fracturing Hydraulic Fracturing Flowbadt to a Flowback to a Date of Each

(Select from United States Well were not performed and Supporting Well Completion ID • Well locat on •

or Refracturing • or Refracturing • Separator • Separator • Occurrence of

dropdown list- Number in compliance with Inputs and (§60.5420a(bX2)(i) and l560.5420a(b)(2)(i) and

(360.5420a(b)(2X1) (560.5420a(b)(2X1) 1 (660.5420a(b)(2)(i) (660.5420a(b)(2)(i) Returning to the

060.5420a(b)(1)(11)) the requirements Calculations • k60.5420a(c)(1)li)) 460.5420a(c)(1)iii)(AHR))

and and Initial Flowback

may need to

specified in k 060.5420a(b)(2X111) and and

Stage •

scroN up)

• k60.5420a(c)(11(iii)(k60.5420a(c)(1)(iii)($60.5420a(c)(1)(Ni)(k60.5420a(c)(1)(iii)(

60.5375a. and

A) -(B)) A)-(8)) A)-(11)) A) -(B)) 1560.5420a(b){2)(i)

(§60.5420a(b)(2)(ii) 460.5420a(c)(1)(vii) and

and Please provide only , 460.5420a(c)(1XiiiK

k60.5420a(c)(1)(11)) one file per record. AHD))

i 1 . I

2004 30-025-43178 No deviations Not Applicable Azores Federal 12Hd \ 12/25/2016 8:00 a.m. 12/27/2017 9:00 a.m.

25 00 30-015-43181 No deviations Not Applicable Beech 25 Federal 1241 k) I No Flowback No Flowback

2006 30-015-42941 No deviations Not Applicable Burch Keely Unit 93811)

No Flowback

No Flowback No Flowback

No Flowback 2007 30-015-44080 No deviations Not Applicable Burch Keely Unit 94011

2008 30-015-44081 No deviations Not Applicable Burch Keely Unit 9424-4 No Flowback No Flowback

2009 30-015-44079 No deviations Not Applicable Burch Keely Unit 94441 No Flowback No Flowback

2010 30-015-42760 ,

No deviations .

Not Applicable Burch Keely Unit 95211 No Flowback No Flowback

2011 30-015-44067 No deviations Not Applicable Burch Keely Unit 966H No Flowback No Flowback

2012 30-025-43533 No deviations Not Applicable Blue Jay Fed 211 3/16/2017 10:00 a.m. 3/16/2017 10:00 a.m.

2013 30-025-42906 No deviations Not Applicable Branex-COG Fed corn 1511 No Flowback No Flowback

2014 30-025-42954 No deviations Not Applicable Broadcaster 29 Federal 411 6/10/2017 10:00 a.m. 6/10/201.7 2:00 p.m.

2015 30-015-43670 No deviations Not Applicable Bultaco State 341 6/13/2017 6:10 p.m. 6/14/2017 7:00 are.

2016 30-015-43829 No deviations Not Applicable Cadillac 15 State 102H No Flowback No Flowback

2017 30-015-43644 No deviations Not Applicable Carmen 3 Fed Corn 1311 No Flowback No Flowback

2018 30-015-43291 No deviations Not Applicable Caverns Fed Corn 41-1 7/18/2017 12:00 p.m. 7/29/2017 11:00 a.m.

2019 30-015-43396 No deviations Not Appkcable. Clydesdale 1 Fee 6H No Flowback No Flowback

2020 30-015-43660 No deviations Not Applicable Clydesdale 1 Fee 7H No Flowback No Flowback

2021 30-015-43387 No deviations Not Applicable Clydesdale 1 Fee 8H No Flowback No Flowback

35

lime of Each

Occurrence of

Returning to the

Initial Flowback

Stage *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Date Well Shut In
and Flowback
Equipment
Permanently
Disconnected or the
Startup of
Production *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Time Well Shut In
and Flowback
Equipment
Permanently
Disconnected or the
Startup of
Production *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of
Flowback in
Hours *
(§60.542Da(b)(2)(
i) and
§60.5420a(c)(1)0
ii)(A)-(B)) Duration of
Recovery in
Hours *
(Not Required
for Wells
Complying with
§60.5375a(0)
(§60.5420a(b)(2)(
i) and

§60.5420a(c)(1)(i
ii)(A)) Disposition of
Recovery*
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) (B)) Duration of
Combustion in
Hours *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of Venting
in Hours *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Reason for Venting
in lieu of Capture or
Combustion *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B))
—
23 Combustion 23 Not Applicable Not Applicable
1/1/2017 7:30 a.m. 127.5 77.5 Combustion 77.5 Not Applicable Not Applicable
11/23/2016 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
8/19/2016 6:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
7/17/2017 7:45 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
7/16/2017 12:30 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
6/29/2017 10:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
8/16/2016 9:00 a.m. 0 0 Not Applicable Not Applicable Not Appfidable Not Applicable
7/8/2017 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
3/16/2017 10:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
11/7/2016 8:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
6/11/2017 1:00 p.m. 27 23 Combustion 23 Not Applicable Not Applicable
6/17/2017 10:00 a.m. 88 75 Combustion 75 Not Applicable Not Applicable
10/24/2016 11:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

4/7/2017 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

7/29/2017 11:00 a.m. 0 0 Not Applicable Not Applicable Nat Applicable Not Applicable

11/1/2016 7:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

11/2/2016 4:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

11/1/2016 10:00 art. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

36

COG Operating, LLC

NSPS 0000a Annual Report

Well Completions

Records of

deviations where Please provide the

well completion file name that

Date of Onset of Time of Onset of Date of Each Time of Each

Facility Record operations with contains the Record

Flowback Following Flowback Following Attempt to Direct Attempt to Direct

No. • hydraulic fracturing of Determination

Hydraulic Fracturing Hydraulic Fracturing Flowback to a Flowback to a Date of Each

United States Well were not performed and Supporting Well Completion ID '' Well Location •

' " • Occurrence of

(Select from

Number' in compliance with Inputs and (460.5420a (b)(2)(i) and (460.5420a(b)(2)(i) and or Refracturing or Refracturing Separator Separator'

Returning to the

dropdown list - 060.54200(13)(1)lu)) the requirements Calculations * 960.5420a(c)(1)(i)) 960.5420*H1)(61)(4)4)) l460.5420a(b)(2)0) (460.5420a(b)(2)(l) 1460.5420a(b)(2)(i) (560.5420a(b)(2)(i)

Initial Flowback

may need to

specified in 9 (460.5420a (b)(2)(iii) and and and and

Stage •

scroll up) 460.5420a(c)(1)(60(660.5420a(c)(1)(iii)(660.5420a(c)(1)(iii)(460.5420a(c)(1)(91)(

. 60.5375a. • and

4)-(1111 4)-(B)) A) -(B)) AHD)) (460.5420a(b)(2)(i)

, (460.5420a(b)(2)(ii) 460.5420a(c)(1)(vii)) and

and Please provide only 4605420a(c)(1)(iii)(

460.5420a (c)(1)(9)) one file per record. 4)-(B))

. r i 1 i 1

2022 30-015-43659 No deviations Not Applicable Clydesdale 1 Fee SH No Flowback No Flowback

2023 30-01544044 No deviations Not Applicable _

Collier 22 State Com 43H No Flowback)) (No Flowback - 2024 30-025-42822 No deviations Not Applicable Columbus Fee 211 . 12/18/2016 7:00 a.m. 12/21/2016 9:00 a.m. 2025 30-015-43924 No deviations Not Applicable Copperhead 31 Fed Corn 3H 2/18/2017 11:00 a.m. 2/18/2017 2030 p.m. 2026 30-015-41210 No deviations Not Applicable Copperhead Fee A 41-I 7/22/2017 8:00 a.m. 7/22/2017 , 8:30 a.m 2027 30-015-42940 No deviations Not Applicable , Dodd Federal Unit 918H No Flowback No Flowback 2028 30-015-43782 No deviations Not Applicable Dodd Federal Unit 930H No Flowback No Flowback

2029 30-015-42995 No deviations Not Applica ble Dodd Federal Unit 921H No Flowback No Flowback

2030 30-025-43037 No deviations Not Applicable Fascinator Fee Corn 1H 1/18/2017 1:00 p.111. 1/19/2017 10:C)0 p.m.

2031 30-025-43157 _

No deviations Not Applicable Flat Head Fed Corn 15H 3/6/2017 700 p.m. 4/5/2017 2:00 p.m.

2032 30-025-43224 No deviations Not Applicable Flat Head Fed Corn 17H 3/5/2017 11:15 a.m. 4/3/2017 10:00 are.

2033 30-025-43109 No deviations Not Applicable Flat Head Fed Corn 25H 3/6/2017 4:00 p.m. 4/4/2017 11:00 a.m.

2034 30-025-43147 No deviations Not Applicable Flat Head Fed Corn 271-I 3/5/2017 11:15 p.m. 4/3/2017 9:00 a.m.

2035 30-025-43503 No deviations Not Applicable

..... Geronimo Fed Corn 11H 6/7/2017 12:05 p.m. 08/2017 630 a.m.

2036 30-025-41201-00 _

No deviations Not Applicable Goose State Corn 2t1 8/29/2016 300 p.m. 8/29/2016 3:00 p.m.

2037 30-01543811 No deviations Not Applicable Graham Nash Fed Corn 71-1 5/20/2017 405 p.m. 5/21/2017 8:30 p.m.

2038 30-015-42967 No deviations ...

Not Applicable Halberd 27 State Corn 1H 12/4/2016 9:00a.m. 12/12/2016 2:00 p.m.

2039 30-02542997 No deviations Not Applicable Ivor the Boneless Federal 12H 9/9/2016 41,0p.m. 9/16/2016 4;00 p.m.

2040 30-025-43406 No deviations ,

Not Applicable Ivar the Boneless Federal 21fi No Flowback No Flowback

Time of Each

Occurrence of

Returning to the

Initial Flowback

Stage *

(§60.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(

A) -(B)) Date Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of
Production *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Time Well Shut In
and Flowback
Equipment
Permanently
Disconnected or the
Startup of
Production *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of
Flowback in
Hours •
(860.5420a(b)(2)
i) and
§60.5420a(c)(1)(i
ii)(A)-(B)) Duration of
Recovery in
Hours *
(Not Required
for Wells
Complying with
§60.5375a(f))
(560.5420a(b)(2)
i) and
§60.5420a(c)(1)(i
ii)(A)) Disposition of
Recovery*
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of
Combustion in
Hours •

(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of Venting
in Hours *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Reason for Venting
in lieu of Capture or
Combustion *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B))
11/3/2016 11:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
7/24/2017 9:30 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
12/22/2016 6:00 p.m. 84 33 Combustion 33 Not Applicable Not Applicable
2/18/2017 2:00 p.m. 3 3 Combustion 3 Not Applicable Not Applicable
7/26/2017 9:00 a.n-i. 92.5 52 Combustion 52 Not Applicable Not Applicable
4/20/2017 8:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
4/11/2017 4:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
12/16/2016 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
1/21/2017 2:30 pro. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
4/5/2017 2:00 p.m. 193 0 Not Applicable Not Applicable Not Applicable Not Applicable
4/3/2017 10:00 a.m. 68.5 0 Not Applicable Not Applicable Not Applicable Not Applicable
4/4/2017 11:00 a.m. 180 0 Not Applicable Not Applicable Not Applicable Not Applicable
4/3/2017 9:00 a.m. 128.75 0 Not Applicable Not Applicable Not Applicable Not Applicable
6/8/2017 6:00 p.m. 30 11.5 Combustion 11.5 ' Not Applicable Not Applicable
8/30/2016 2:00 p.m. 24 24 Gas Sales Not Applicable Not Applicable Not Applicable
5/26/2017 3:15 p.m. 143 125 Combustion 125 Not Applicable Not Applicable
12/12/2016 2:00 p.m. 33 0 Not Applicable Not Applicable Not Applicable Not Applicable
9/16/2016 4:00 p.m. 12 0 Not Applicable Not Applicable Not Applicable Not Applicable
12/6/2016 9:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

deviations where Please provide the I

well completion file name that

Date of Onset of Time of Onset of Date of Each rime of Each

Facility Record operations with contains the Record

Flowback Following FlowbackFollowing Attempt to Direct Attempt to Direct

No. • hydrauik fracturing of Determination I I

Hydraulic Fracturing Hydraulic Fracturing Flowback to a Flowback to a Date of Each

I (Select from United States Well were not performed and Supporting Well Completion ID • , Well location •

or Rehacturing • or Refracturing • Separator • Separator • Occurrence of

dropdown list- Number in compliance with Inputs and 060.5420a(b)(2)(1) and (§60.5420a(b)(2)(i) and

050.54208M2)(i) (v4.542044(2)(l) (§60.5420a(b)(2X0 (560.5420a(b)(2)(1) Returning to the

(§60.5420a(b)(1)(0) the requirements Cakukations • §60.5420a(c)(1H0) §60.5420a(c)(1)(iii)(A)-(B))

and and and initial Flowback

may need to

scroll up) specified in § (660.5420a(b)(2)(lig and

§60.5420a(c)(1)(60(§60.5420a(cg1)(iii)(§60.5420a(c)(1)(111)(460.5420a(c)(1)(iii)l stage •

60.5375a. ' and

A) -(B)) A)-(11)) A)-(8)) A) -(B)) (§60.5420a(bX2)(1)

(560.5420a(b)(2Xii) §60.5420a(c)(1guii)) and

and Please provide only §60.5420a(c)(1)(10(

§60.5420a(cX1)(6)) one file per record.4. A) -(B))

2041 30-025-41476 No deviations Not Applicable King Air 8 Fed Corn 311 11/29/2016 3:00 p.m. 11/30/2016 1200 p.m. 12/6/2017

12/19/2016 5:00 a.m.

2042 30-015-43390 No deviations Not Applicable Lajitas BWC1 State Corn 1H 9/3/2016 100 p.m. 9/4/2016 5:00 p.m.

—

2043 30-015-43878 No deviations Not Applicable Lusk Deep Unit A 3111 11/1/2016 7:00 p.m. 11/23/2016 12:00 p.m.

2044 30-025-43390 No deviations Not Applicable Lusk Deep Unit A 3311 10/10/2016 6:00 a.m. 10/20/2016 6:00 a.m.

2045 30-025-42450 No deviations Not Applicable Lychee E1WS State Corn 111 7/26/2016 11:00 a.m. 7/31/2016 7:00 a.m.

2046 30-025-42950 No deviations Not Applicable Mas Federal 311 11/16/2016 7:30 a.m. 11/17/2016 3:30 p.m.

2047 30-025-43482 No deviations Not Applicable Mas Federal 411 1/30/2017 11:30 a.m. 1/31/2017 5:00 p.m.

2048 30-015-41273 No deviations Not Applicable McIntyre OK Fed Corn 2811 No Flowback No Flowback

—

2049 30-025-43387 No deviations Not Applicable Music Master 27 Federal 311 3/10/2017 12:00 p.m. 3/13/2017 12:00 a.m.

2050 30-015-43706 No deviations Not Applicable Myox 5 State 2211 10/21/2016 10:00 a.m. 10/22/2016 8:00 a.m.

2051 30-015-43972 No deviations Not Applicable Myox 5 State Corn 2311 4/8/2017 700 a.m. 4/8/2017 12:00 p.m,

2052 30-015-41919 No deviations Not Applicable Myox 6 State 211 5/17/2017 12.00 p.m. 5/20/2017 9:00 a.m. 5/23/2017

5/26/2017 10:00 a.m.

2053 30-025-43705 No deviations Not Applicable Nelson Fed Corn 1311 8/1/2017 335 p.m. 8/31/2017 5:00 p.m.

2054 30-025-43706 No deviations Not Applicable Nelson Fed Corn 2311 8/7/2017 11:00 a.m. 8/29/2017 6:00 p.m.

2055 30.025-42817 No deviations Not Applicable Pan Head Fee 1111 No Flowback No Flowback

2056 30-025-42819 No deviations Not Applicable Pan Head Fee 22H 12/16/2016 4:30 p.m. 12/28/2016 12:00 p.m.

2057 30-025-42820 No deviations Not Applicable Pan Head Fee 24H 3/7/2017 10:00 p.m. 4/1/2017 11:00 a.m.

39

Time of Each

Occurrence of

Returning to the

Initial Flowback

Stage *

(§60.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(

A) -(B)) Date Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of

Production *

(§60.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(

A) -(B)) Time Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of
Production *
(§60.5420a(b)(2)(1)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of
Flowback in
Hours *
(§60.5420a(b)(2)(
i) and
§60.5420a(c)(1)(i
ii)(A)-(B))
J Duration of
Recovery in
Hours *
(Not Required
for Wells
Complying with
§60.5375a(f))
060.5420a(b)(2)(
i) and
§60.5420a(c)(1)(i
ii)(A)) Disposition of
Recovery •
(§60.5420a(b)(2)(i)
and
460.5420a(c)(1)(iii)(
A) -(B)) Duration of
Combustion in
Hours *
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of Venting
in Hours*
(§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Reason for Venting

in lieu of Capture or

Combustion *

(§60.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(

A) -(B))

-

8:00 a.m. 12/20/2016 7:00 a.m. 132 99 Combustion 99 Not Applicable Not Applicable

9/20/2016 10:00 a.m. 185 153 Combustion 153 Not Applicable Not Applicable

11/23/2016 12:00 p.m. 341 0 Not Applicable Not Applicable Not Applicable Not Applicable

10/26/2016 12:00 p.m. 248.5 156 Combustion 156 Not Applicable Not Applicable

8/2/2016 1:00 p.m. 174 54 Combustion 54 Not Applicable Not Applicable

11/22/2017 1:10 p.m. 126 112 Combustion 112 Not Applicable Not Applicable

2/1/2017 6:00 p.m. 54.5 25 Combustion 25 Not Applicable Not Applicable

6/1/2017 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

3/15/2017 11:00 a.m. 118 36 Combustion 36 Not Applicable Not Applicable

10/22/2016 11:00 a.m. 3 3 Combustion 3 Not Applicable Not Applicable

4/8/2017 5:00 p.m. 10 5 Combustion 5 Not Applicable Not Applicable

10:00 a.m. 5/27/2017 5:00 p.m. 164 74 Combustion 74 Not Applicable Not Applicable

8/31/2017 5:00 p.m. 366 0 Not Applicable 0 Not Applicable Not Applicable

8/29/2017 6:00 p.m 252 0 Not Applicable Not Applicable Not Applicable Not Applicable

8/30/2016 4:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

12/28/2016 12:00 p.m. 85 0 Not Applicable Not Applicable Not Applicable Not Applicable

4/1/2017 11:00 a.m. 77 0 Not Applicable Not Applicable Not Applicable Not Applicable

40

COG Operating, LLC

NSPS 0000a Annual Report

Well Completions

Records of

deviations where Please provide the

well completion file name that

Date of Onset of Time of Onset of i Date of Each Time of Each

Facility Record operations with contains the Record

Flowback Following Flowback Following Attempt to Direct Attempt to Direct

hydraulic fracturing of Determination Date of Each

No. •

United States Well were not performed and Supporting Well Completion ID • Well location' Hydraulic Fracturing Hydraulic Fracturing Flowback to a Flowback to a

• Occurrence of

(Select from Of Refracturing • or Refraduring • Separator • Separator

dropdown list -)(2)(i) Number. in compliance with Inputs and (560.5420.1(b)(2Xi) and 1460.5420a(b)(2)(i) and

(860.5420a(b)(2)(i) (860.5420a(b)(2)(i) (§60.5420a(b (§60.5420a(b)(2)(i) Returning to the

(§60.5420a(b)(1)(10)1 the requirements Calculations • §60.5420a(c)(1)01) 460.5420a(c)(1)(ifiXA)-(B)) Initial Howback

may need to

specified in § (560.5420a(b)(2)fkl) 1 and and and and

Stage •

scroll up) §60.5420a(c)(1)(iii)(§60.5420a(cX1)(8i)(§60.5420a(c)(1)(0i)(§60.5420a(c)(1)(iii)(

60.5375a. • and

A) -(B)) A)-1111) A) -(B)) 4)-(8)) (460-5420a(b)(2)0)

(4605420a(b)(2Xii) §60.54211a(c)(1)(vii)) and

. and Please provide only §60.5420a(c)(1)(iii)(

§60.5420a(c)(1)(ii)) one file per record.

2058 30-015-39973 No deviations Not Applicable Pinto 36 State Corn 711 No Flowback No Flowback

2059 30-015-43399 No deviations Not Applica bin Pinto 36 State Corn 27H))k , 4 - o' No Flowback No Flowback

2060 30-015-44102 No deviations Not Applicable Populus Fed 2H 8/12/2017 1:00 p.m. 8/13/2017 10:00 a.m.

2061 30-015-44103 No deviations Not Applicable Populus Fed 4H 8/19/2017 11:00 a.m. 8/19/2017 6:00 p.m.

2062 30-015-43667 No deviations Not Applicable Puckett 13 Fed Corn 17H No Flowback No Flowback

2063 30-015-43785 No deviations Not Applicable Puckett 13 Fed Corn 2511 No Flowback No Flowback

2064 30-015.43872 No deviations Not Applicable Puckett 13 Fed Corn 27H No Flowback No Flowback

2065 30-025-43141 No deviations Not Applicable Queso State 811 10/29/2016 1:00 p.m. 10/29/2016 3:00 p.m.

2066 30-025-43114 No deviations Not Applicable Ragnar Fed Corn 15H 9/27/2016 12:00 p.m. 10/5/2016 7:00 p.m.

2067 30-025-43272 No deviations Not Applicable Ragnar Fed Corn 16H 3/31/2017 10:00 p.m. 4/13/2017 10:00 a.m.

2068 30-025-43131 No deviations Not Applicable Ragnar Fed Corn 2511 9/23/2016 6:00 p.m. 9/23/2016 6:00 p.m.

2069 30-025-43273 No deviations Not Applicable Ragnar Fed Corn 2611 4/1/2017 1:00 p.m. 4/13/2017 12:00 p.m.

2070 30-025-43179 No deviations Not Applicable Raspberry State Corn 111 10/6/2016 4:00 p.m. 10/7/2016 6:00 a.m.

2071 30-025-42992 No deviations Not Applicable Red Raider 25 EIKS State 411 3/18/2017 2:15 p.m. 3/19/2017 7:00 a.m.

2072 30-015-43133 No deviations Not Applicable Road Runner Fed Corn 111 6/20/2017 2:00 p.m. 6/20/2017 10:00 p.m.

2073 30-015-43900 No deviations Not Applicable Road Runner Fed Corn 11H 6/17/2017 2:00 p.m. 6/17/2017 7:00 p.m.

2074 30-025-43476 No deviations Not Applicable Rojo AE 78111V -P Fed Corn 11-1 ,

3/20/2017 12:00 p.m. 3/22/2017 12:15 p.m.

2075 30-025-42827 No deviations Not Applicable Screech Owl Fed Corn 311 8/14/2016 5:30 a.m. 8/20/2016 7:45 a.m.

2076 30-015-43913 No deviations Not Applicable Shiner Bock 1 Fed Corn 2811 No Flowback No Flowback

41

Time of Each

Occurrence of

Returning to the

Initial Flowback

Stage *

(460.5420a(b)(2)(i)

and

460.5420a(c)(1)(iii)(Date Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of

Production *

(560.5420a(b)(2)01

and

§60.5420a(c)(1)(iii)(Time Well Shut In

and Flowback

Equipment

Permanently

Disconnected or the

Startup of

Production *

(560.5420a(b)(2)(i)

and

§60.5420a(c)(1)(iii)(

A) -(B)) Duration of

Flowback in

Hours *

(660.5420a(b)(2)I

i) and

§60.5420a(c)(1)(i

ii)(A)-(B)) Duration of

Recovery in
Hours*
(Not Required
for Wells,
Complying with
§60.5375a(0)
(560.5420a(b)(2)I
i) and
§60.5420a(c)(1)(i
ii)(A)) Disposition of
Recovery*
1§60.5420a(b)(2)(i)
and
§60.5420a(c)(1)(iii)(
A) -(B)) Duration of
Combustion in
Hours *
(460.5420a(b)(2)(i)
and
§60.5420a(c)(11(iii)(
A) -(B)) Duration of Venting
in Hours *
(§60.5420a(b)(2)(i)
and
460.5420a(c)(1)(iii)(
A) -(B)) Reason for Venting
in lieu of Capture or
Combustion *
(§60.5420a(b)(2)(i)
and
§605420a(c)(1)(iii)(
A) -(B))
4/4/2017 12:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
4/5/2017 1:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
8/13/2017 5:00 p.m. 28 7 Combustion 7 Not Applicable Not Applicable
8/22/2017 1:00 p.m. 90 67 Combustion 67 Not Applicable Not Applicable
10/24/2016 10:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
10/26/2016 3:00 p.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable
10/25/2016 11:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

11/1/2016 4:00 p.m. 75 73 Combustion 73 Not Applicable Not Applicable

10/5/2016 7:00 p.m. 128 0 Not Applicable Not Applicable Not Applicable Not Applicable

4/13/2017 10:00 a.m. 122 0 Not Applicable Not Applicable Not Applicable Not Applicable

9/29/2016 5:00 p.m. 65 45 Combustion 45 Not Applicable Not Applicable

4/13/2017 12:00 p.m. 143 0 Not Applicable Not Applicable Not Applicable Not Applicable

10/11/2016 12:00 p.m. 116 102 Combustion 102 Not Applicable Not Applicable

3/22/2017 8:00 a.m. 89.75 73 Combustion 73 Not Applicable Not Applicable

6/21/2017 2:00 p.m. 24 16 Combustion 16 Not Applicable Not Applicable

6/20/2016 2:00 p.m. 64 51 Combustion 51 Not Applicable Not Applicable

3/24/2017 12:00 p.m. 95 47.75 Combustion 47.75 Not Applicable Not Applicable

8/21/2016 12:00 p.m. 179.5 38.25 Combustion 38.25 Not Applicable Not Applicable

1/9/2017 10:00 a.m. 0 0 Not Applicable Not Applicable Not Applicable Not Applicable

42

COG Operating, LLC

NSPS 0000a Annual Report

Well Completions

Records of

deviations where

, Please provide the

Ioperations I well completion file name that Date of Onset of Time of Onset of Date of Each Time of Each

Facility Record with contains the Record

Flowback Following I Flowback Following Attempt to Direct Attempt to Direct

No.• hydraulic fracturing I of Determination Hydraulic Fracturing Hydraulic Fracturing Flowback to a Flowback to a Date of Each

(Select from United States Well were not performed and Supporting Well Completion ID • Well location • . 1

Of Refracturing • or Refracturing • Separator • Separator • Occurrence of

dropdown list - Number • in compliance with inputs and 1460.5420a(b)(2Xi) and (460.5420a(b)(2)(i) and

(§60.5420a(b)(2)10 (560.5420a(b)(2)(i) (460.5420a(bH2)(i) (460.5420a(b)(2)(I) Returning to the

1480.5420a(b)(1)(8)) the requirements Calculations' 460.5420a(c)(1)(i)) 460.5420a(c)(1)(4)(4)-(13))

and initial Flowback

may need to

specified in 4 (460.5420a(b)(2)(iii(and and and

Stage'

scroll up) §60.5420a(C)(1)011(i60.5420a(C)(1Xiii)(§60.5420a(c)(1)(iiX 460.5420a(c)(1)(811(

60.5375a. • 1 and

4)-(8)) 4)-(B)) 4)-(8)) 4)-(8)) (§60.5420a(b)(2)(i)

(460.5420a(b)(2)(ii) 460.5420a(c)(1Xvii)) and

and Please provide only460.5420a(c)(1)(iii)(I

460.5420a(c)(1)(III)) one file per record. 4)-(8))

2077 30-015-44192 No deviations Not Applicable Sidewinder Fed Com 4H (b) (1/4-
9/3/2017 3:00 p.m. 9/3/2017 3:00 p.m.

2078 30-015-43832 No deviations Not Applicable Skelly Unit 42214 No Flowback

12/27/2016

1/25/2017 -

8:00 a.m.

2:00 p.m. No Flowback

2079 30-025-43299 No deviations Not Applicable Skull Cap Fed Corn 2211

Smalls Federal 7H 1/3/2017

1/25/2017 3:30 p.m.

5:00 p.m. 2080 30-025-43068 No deviations Not Applicable

2081 30-025-43069 No deviations Not Applicable Smalls Federal 841 1/20/2017 12:00 p.m.
1/21/2017 4:00 a.m.

2082 30-025-43284 No deviations Not Applicable Sneed 9 Fed Corn 11H 12/9/2016 6:00 p.m.
12/29/2016 10:00 a.m.

2083 30-025-43285 No deviations Not Applicable Sneed 9 Fed Corn 1311 9/29/2016 300 p.m.
10/6/2016 11:00 a.m.

2084 30-025-41489 No deviations Not Applicable Sneed 9 Fed Corn 2111 No Flowback No
Flowback

2085 30-025-43286 No deviations Not Applicable Sombrero Fed Corn 414 3/6/2017 8:00 a.m.
3/9/2017 10:30 a.m.

2086 30-015-43878 No deviations Not Applicable Spruce Goose Fed Corn 2/4 10/29/2016
2:30 p.m. 11/24/2016 6:00 a.m.

2087 30-025-43169 No deviations Not Applicable Spruce Goose Fed Corn 341 10/29/2016
3:00 p.m. 11/22/2016 10:00 a.m.

2088 30-025-43338 No deviations Not Applicable Stealth Fed Corn 441 11/11/2016 8:00
a.m. 12/10/2016 10:00 a.m.

2089 30-025-43967 No deviations Not Applicable Switchback State 21H 3/28/2017 11:00
a.m. 3/30/2017 12:00 p.m.

2090 30-025-42942 No deviations Not Applicable Vast State 211 9/20/2016 4:00 p.m.
9/21/2016 10:00 a.m.

2091 30-025-42943 No deviations Not Applicable Vast State 311 9/30/2016 10:15 art.
9/30/2016 6:30 p.m.

2092 30-025-42945 No deviations Not Applicable Vast State 414 10/9/2016 11:00 a.m.
10/9/2016 2:00 p.m.

2093 30-025-42946 No deviations Not Applicable Vast State 51.1 10/18/2016 8:00 8.M.
10/18/2016 8:00 p.m.

2094 30-025-43550 No deviations Not Applica bin ,

Vast State 2111 9/5/2017 12:00 a.m. 9/5/2017 12:00 a.m.

43

Duration of

Time of Each Date Well Shut In Time Well Shut In Recovery in

Occurrence of and Flowback and Flowback Duration of Hours *

Disposition of Duration of

Duration of Venting Reason for Venting

Returning to the Equipment Equipment Flowback in (Not Required

Recovery * Combustion in

in Hours * in lieu of Capture or

Initial Flowback Permanently Permanently Hours * for Wells

(§60.5420a(b)(2)(i) Hours *

(§60.5420a(b)(2)(i) Combustion *

Stage * Disconnected or the Disconnected or the (§60.5420a(b)(2)(Complying with

and (§60.5420a(b)(2)(i)

and (§60.5420a(b)(2)(i)

(§60.5420a(b)(2)(i) Startup of Startup of i) and §60.5375a(f))

§60.5420a(c)(1)(iii)(and

§60.5420a(cH1)(iiiH and

and Production * Production * §60.5420a(c)(1)(i (§60.5420a(b)(2)(§605420a(c)(1)(iii)(§60.5420a(c)(1)(iii)(

§605420a(c)(1)(iii)((§60.5420a(b)(2)(i) (§60.5420a(b)(2)(i) ii)(A)-(B)) i) and A) -(B)) A) -(B))

A) -(B)) and and §60.5420a(c)(1)(i

§60.5420a(c)(1)(iii)(§60.5420a(c)(1)(iii)(ii)(A))

A) -(B)) A) -(B))

I. l

r

9/7/2017 1:00 p.m. 24 84 Combustion 84 Not Applicable Not Applicable

1/19/2017 6:00 p.m o 0 Not Applicable Not Applicable Not Applicable Not Applicable

1/4/2017 2:30 p.m. 146.5 22.5 Combustion 22.5 Not Applicable Not Applicable

1/27/2017 9:00 a.m. 19 16 Combustion 16 Not Applicable Not Applicable

1/21/2017 11:00 a.m. 42 19 Gas Sales Not Applicable Not Applicable Not Applicable

7 Combustion 7 Not Applicable Not Applicable

12/29/2016 10:00 a.m. 29 0 Not Applicable Not Applicable Not Applicable Not Applicable

10/6/2016 11:00 a.m. 14 0 Not Applicable Not Applicable Not Applicable Not Applicable

8/13/2017 1:00 p.m. o o Not Applicable Not Applicable Not Applicable Not Applicable

3/9/2017 10:30 a.m. 60 o Not Applicable Not Applicable Not Applicable Not Applicable

11/28/2016 11:00 a.m. 230.5 101 Combustion 101 Not Applicable Not Applicable

11/29/2016 9:00 a.m. 328 167 Combustion 167 Not Applicable Not Applicable

12/10/2016 10:00 a.m. 241 0 Not Applicable Not Applicable Not Applicable Not Applicable

3/30/2017 12:00 p.m. 49 o Not Applicable Not Applicable Not Applicable Not Applicable

9/22/2016 2:00 p.m. 46 28 Combustion 28 Not Applicable Not Applicable

10/1/2016 9:00 a.m. 18 14 Combustion 14 Not Applicable Not Applicable

10/12/2016 2:00 p.m. 113 72 Combustion 72 Not Applicable Not Applicable

10/20/2016 11:00 a.m. 51 39 Combustion 39 Not Applicable Not Applicable

9/7/2017 10:00 a.m. 34 34 Combustion 34 Not Applicable Not Applicable

44

COG Operating, LLC

NSPS 0000a Annual Report

Well Completions

Records of

deviations where Please provide the

well completion file name that

Date of Onset of Time of Onset of Date of Each Time of Each

Facility Record operations with contains the Record

Flowback Following Flowback Following Attempt to Direct Attempt to Direct

No. • hydraulic fracturing of Determination

Hydraulic Fracturing Hydraulic Fracturing Flowback to a Flowback to a Date of Each

(Select from United States Well were not performed and Supporting Well Completion ID • Well Locaton .

or Refracturing " or Refracturing • Separator • Separator • Occurrence of

dropdown list - Number*

, in compliance with inputs and (960.5420a(b)(2)(i) and (960.5420a(b)(2)(i) and

(460.5420a(b)(2)Ill (960.5420a(b)(2)(i) (960.5420a(b)(2)(i) (960.5420a(b)(2)(i) Returning to the

(560.5420a(b)(1)(ii)) the requirements Calculations • 960.5420a(c)(1)(i)) 960.5420a(c)(1)iiii)(A)-(B))

and and and initial Flowback

may need to

scroll up) specified in 9 (960.5420a(b)(2Xiii) and

960.5420a(c)(1)(110(960.5420a(c)(1)(iii)(960.5420a(c)(1)(iii)(960.5420a(c)(1)(iii)(Stage •

60.5375a. • and

A)-(8)) MIN) A)-(13)) A)-(8)) (960.54203(6)(4i)

1960.5420a(b)(2)(8) 960.5420a(c)(1)(vii)) and

and ' Please provide only 960.54200(c)(1)(iii)1

960.5420a(c)(1)(ii)), one file per record. A)-(1)))

1

2095 30025-43551 No deviations Not Applicable Vast State 22H 9/8/2017 2:03 p.m. 9/8/2017 2:00 p.m.

2096 30425-43552 No deviations Not Applicable Vast State 23H it CI) k 1:: 9/13/2017 2:00 p.m. ._ 9/13/2017 2:00 p.m. 2097 30-025-43545 No deviations Not Applicable , Vast State 24H Vast State 25H 9/8/2017 9/4/2017 8:00 p.m. 7:00 p.m. 9/8/2017 9/4/2017 8:00 p.m. 10:00 p.m. 2098 30-025-43546 No deviations Not Applicable 2099 30-02543547 No deviations Not Applicable Vast State 26H 3/31/2017 8:00 a.m. , 8/31/2017 4:30 p.m. 2100 30-025-42782 No deviations Not Applicable Viking Heknet State Corn 1H 6/7/2017 11:03 a.m. 6/8/2017 6:00 p.m. 2101 30-025-43310 No deviations Not Applicable Warbler State

Corn 4H 9/19/2016 10:50 a.m. 9/21/2016 7:00 a.m. 2102 30-025-43174 , No deviations Not Applicable Windward Federal 511 8/19/2017 1:00 p.m. 8/22/2017 8:00 are. 2103 30-025-43465 No deviations Not Applicable Windward Federal 61I 8/23/2017 3:00 p.m. 8/24/2017 8:00 a.m. 2104 30-025-43516 No deviations Not Applicable , Windward Federal 711 8/31/2017 6:30 P.M- 9/1/2017 5:00 a.m. 2105 30-025-43517 No deviations Not Applicable Windward Federal 8H 8/25/2017 1000 a.m. 8/26/2017 9:00 a.rn 2106 30.02543566 No deviations Not Applicable Windward Federal 911 8/19/2017 4:00 p.m. 8/20/2017 9:00 are. 2107 , 30-02543567 No deviations Not Applicable Windward Federal 10H 8/15/2017 600 p.m. 8/16/2017 12:00 p.m. 2108 30-025-43707 No deviations Not Applicable Windward Federal 1111 8/11/2017 900 a.m. 8/13/2017 1100 a.m. 2109 30-025-43708 No deviations Not Applicable Windward Federal I211 9/6/2017 10:00 a.m. 8/7/2017 3:15 p.m.

45

Duration of

Time of Each Date Well Shut In Time Well Shut In Recovery in

Occurrence of and flowback and Flowback Duration of Hours * Duration of Reason for Venting

Disposition of Duration of Venting

.

Returning to the Equipment Equipment Flowback in (Not Required

* Combustion in

* in lieu of Capture or

Initial Flowback Permanently Permanently Hours * for Wells Recovery

Hours * in Hours

Combustion *

(§60.5420a(b)(2)(i) (§603420a(b)(2)(i)

Stage * Disconnected or the Disconnected or the (§60.5420a(b)(2)(Complying with

and (§60.5420a(b)(2)(i)

and (§60.5420a(b)(2)(1)

(§60.5420a(b)(2)(i) Startup of Startup of i) and §60.5375a(f))

§60.5420a(c)(1)(iii)(6.. and

§ 0.5420a(c)(1)(iii)(and

and Production * Production * §60.5420a(c)(1)(i (§60.5420a(b)(2)(

A) -(B)) §60.5420a(c)(1)(iii)(

A) -(B)) §60.5420a(c)(1)(iii)(

§60.5420a(c)(1)(iii)((§60.5420a(b)(2)(i) (§60.5420a(b)(2)(i) ii)(A)-(B)) i) and A) -(B)) A) -(B))

A) -(B)) and and §60.5420a(c)(1)(i

§60.5420a(c)(1)(iii)(§60.5420a(c)(1)(iii)(ii)(A))

A) -(B)) A) -(B))

9/9/2017 11:00 n.m. 21 21 Combustion 21 Not Applicable Not Applicable

9/14/2017 10:00 a.m. 20 20 Combustion 20 Not Applicable Not Applicable

9/9/2017 10:00 a.m. 14 14 Combustion 14 Not Applicable

, Not Applicable

9/6/2017 3:00 p.m. 50 41 Combustion 41 Not Applicable Not Applicable

9/2/2017 11:00 a.m. 51 42.5 Combustion 42.5 Not Applicable Not Applicable

6/17/2017 8:00 a.m. 237 206 Combustion 206 Not Applicable Not Applicable

9/21/2016 12:30 p.m. 48.5 26.5 Combustion 26.5 Not Applicable Not Applicable

8/23/2017 12:00 p.m. 95 28 Combustion 28 Not Applicable Not Applicable

8/24/2017 2:00 p.m. 9 6 Combustion 6 Not Applicable Not Applicable

9/2/2017 11:00 a.m. 52.5 30 Combustion 30 Not Applicable Not Applicable

8/29/2017 3:00 p.m. 115 78 Combustion 78 Not Applicable Not Applicable

8/22/2017 1:30 p.m. 69.5 56.5 Combustion 56.5 Not Applicable Not Applicable

8/17/2017 2:00 p.m. 44 26 Combustion 26 Not Applicable Not Applicable

8/15/2017 1:30 p.m. 100.5 50.5 Combustion 50.5 Not Applicable Not Applicable

8/10/2017 11:00 a.m. 97 67.75 Combustion 67.75 Not Applicable Not Applicable

46

COG Operating, LLC

NSPS 0000a Annual Report

Reciprocating Compressors

Facility Record No, *

(Select front dropdown list - may

need to scroll up) Facility Compressor ID *

(560.5420a(b)(1)(iil) Are emissions from the rod

packing unit being routed to a

process through a closed vent

system under negative pressure?

* (560.5420a(b)(4)(i)) If emissions are not routed to a

process through a closed vent

system under negative pressure,

what are the cumulative number

of hours or months of operation

since initial startup or the

previous rod packing replacement

(whichever is later)? *

(460.5420a(b)(4)(i)) Units of Time Measurement *

(560.5420a(b)(4)(i)) Deviations where the

reciprocating compressor was not

operated in compliance with

requirements* (§60.5420(b)(4)(ii)

and §60.5420a(c)(3)(iii))

4001 Admiral Fed Corn 2H MC6029 No 14 months Not Applicable

4003 Banter State Com 4H MC6017 No 16 months Not Applicable

, 4005 Blue Jay Fed 1H V4293 No 2738 hours Not Applicable

4012 Broadcaster 29 Fed 3H MC6002 No 16.5 months Not Applicable

, 4020 Cali Roll Fed Corn 2H MC2834 No 14.5 months Not Applicable

4023 Chopper State Corn 3H MC 1875 No 12.5 months Not Applicable

4029 Cottonmouth 23 Fed Corn 2H CDM4086 No 16 months Not Applicable

4031 Diamondback 22 State Corn 51-1 CDM3790 No 17 months Not Applicable

3014 DR State Central 1213H MC2389 No 5 months Not Applicable

3015 DR State East 3028H MC5027 No 16 months Not Applicable

3016 DR State Central 2501H V5265 No 2846 hours Not Applicable

4035 Eata Fajita State 9H & 10H CDM4076 No 16 months Not Applicable

4037 Eider Fed 2H V3665 No 8284 hours Not Applicable

4039 Fascinator Fee Corn 2H Tops 269 No 2.5 months Not Applicable

4045 Graham Nash Fed Corn 7H MC1735 No 5 months Not Applicable

3017 Grissom 1802H V5347 No 20736 hours Not Applicable

4046 Gunner 8 Fed Corn 6H & 7H MC3491 No 13.5 months Not Applicable

3022 Horn Splitter 1002H A7025 No 14070 hours Not Applicable

4048 Horned Owl Fed 3H MC3842 No 12.5 months Not Applicable

4052 Lajitas 13WQ State Com 1H Tops 216 No 2.5 Months Not Applicable

4056 Macho Nacho State 10H A7083 No 14801 hours Not Applicable

4057 Man State 2H A7069 No 16366 hours Not Applicable

4058 Man Fed 3H V3338 No 23120 hours Not Applicable

47

COG Operating, LLC

NSPS 0000a Annual Report

Reciprocating Compressors

If emissions are not routed to a

process through a closed vent

system under negative pressure,

what are the cumulative number

Are emissions from the rod of hours or months of operation Deviations where the

packing unit being routed to a since initial startup or the reciprocating compressor was not

Facility Record No. * process through a closed vent previous rod packing replacement operated in compliance with

(Select from dropdown list - may Compressor ID * system under negative pressure? (whichever is later)? * Units of Time Measurement * requirements* (560.5420(b)(4)(ii)

need to scroll up) Facility (460.5420a(b)(1)(ii)) * (560.5420a(b)(4)(1)) (860.5420a(b)(4)(4) (560.5420a(b)(4)(i)) and §60.5420a(c)(3)(iii))

4059 Mastiff Fed 3H MC2359 No 15 months Not Applicable

-

4061 Monet Fed 3H MC3677 No 14.5 months Not Applicable

4068 Patron 23 Fed 4H CDM 3707 No 16 months Not Applicable

4072 Populus Fed 311 CDM 1727 No 14 months Not Applicable

4087 Sitka BSI State Com 1H MC1556 No 12.5 months Not Applicable

4091 Smalls Fed 1H Topps 194 No 4 months Not Applicable

4084 Stove Pipe Fed Corn 2H Topps-220 No 3 months Not Applicable

4100 Switchback State 21H MC2849 No 4 months Not Applicable

48

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

I

Facility Record No. •

(Select from

dropdown list - may

need to scroll up) Fadlity Name Storage Vessel ID •

(660.5420a(b)(1)(ii)

and

360.5420a(b)(6)(i)) Was the storage vessel

constructed, modified or

reconstructed during the

reporting period? •

(460.5420a (b)(6)(i)) Latitude of Storage

Vessel (Decimal

Degrees to 5 Decimals

Using the North

American Daum of

1983) •

1560.5420a(b1(6)(1)) Longitude of Storage

Vessel (Decimal Degrees

to 5 Decimals Using the

North American Datum

of 1983) •

1660.5420a (b)(6)(i)) If new affected facility or if

returned to service during the

reporting period, provide

documentation of the VOC

emission rate determination

according to 460.5365a(e).•

(§60.5420a(b)(6)(11)) Records of deviations

where the storage vessel

was not operated in

compliance with

requirements •

(660.5420a(b)(6)(iii) and

§60.5420a(c)(51011)) Have you met the

requirements

specified in

460.5410a(h)(2)

and (3)?*

(§60.5420a(b)(6)(i

v)) Removed from

service during

the reporting

period?'

(560.5420a(b)(61

ND

,

4004 Beech 25 Federal 9H Battery 39376 constructed

constructed 9 VOC emission rate > 6 tpy No Deviations Yes No 39374 VOC emission ralm > 6 tpy No Deviations Yes No 39384 constructed(, VOC emission rate > 6 tpy No Deviations Yes No 4006 Bone Yard 11 Fee 12H Battery 39282 constructed / i constructed I VOC emission rate >6 tpy No Deviations Yes No 39281 VOC emission rate '6 spy No Deviations Yes No 39279 constructed I VOC emission rate' 6 tpy No Deviations Yes No 4008 Bose lkard 4 State Corn 18H Battery 38173 constructed I VOC emission rate > 6 tpy No Deviations Yes No 38175 constructed VOC emission rate > 6 tpy No Deviations Yes No 38142 constructed VOC emission rate > 6 tpy No Deviations Yes No 4009 Bradley 8 Fee 2H Battery 40558 constructed VOC emission rate > 6 tpy No Deviations Yes No 40664 constructed VOC emission rate >6 tpy , No Deviations Yes No 40564 constructed VOC emission rate, 6 tpy No Deviations Yes No 4010 Bradley 8 Fee 3H Battery 1360 constructed VOC emission rate >6 tpy No Deviations Yes No 1354 constructed VOC emission rate >6 tpy No Deviations Yes No 1350 constructed VOC emission rate' 6 tpy No Deviations Yes No 1.311 Branex-COG Federal 11. Battery 39566 constructed VOC emission rate > 6 tpy No Deviations Yes No - 39617 constructed VOC emission rate >6 tpy No Deviations Ys , No 39513 constructed VOC emission rate >6 tpy No Deviations Yes No 4014 Burch Keely Unit 134 Battery 32857 constructed VOC emission rate > 6 tpy No Deviations Yes No 32859 constructed VOC emission rate >6 tpy No Deviations Yes No 32858 constructed VOC emission rate > 6 tpy No Deviations Yes No 4015 Burch Keely Unit 130 Battery 42978 constructed VOC emission rate >6 tpy No Deviations Yes No

49

If removed from

service, the date

removed from service,

•

(460.5420a(b)(6)(v)) Returned to service

during the reporting

period? •

(960.5420a(b)(6)(vi)) If returned to service, the

date returned to service.

(960.5420a(b)(6)(vi)) Make of Purchased

Device •

(960.5420a(b)(6)(vii) and

960.5420a(c)(5)(vi)(A)) Model of Purchased

Device •

(960.5420a(b)(6)(vii)

and

960.5420a(c)(5)(vi)(A)

) Serial Number of

Purchased Device'

(§60.5420a(b)(6)(vii) and

960.5420a(z)(5)(vi)(A)) Date of Purchase •

(960.5420a(b)(6)(vii) and

960.5420a(c)(5)(vi)(13)) Latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

North American Datum of

1983) •

(§60.5420a(b)(6Xvii) and

960.5420a(c)(5)(vi)(D)) Longitude of Control

Device (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983) • Inlet Gas Flow Rate •

060.5420a(b)(6)(vii) (960.54203(b)(6)(vii)

and and

960.5420a(c)(5)(vi)(D)) 960.5420a(c)(5)(vi)(E))

Not Applicable Not Applicable Not Applicable Abutec 20 90017-13 Mar -14 833.33

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1050 Not Applicable Not Applicable Not Applicable Abutec 20 900:7-13 Mar -14

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Not Applicable Not App cable No Applicable Abutec 20 20181-20 833.33

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50

Please provide the file name that

contains the Records of Pilot

Flame Present at All Times of

Operation * (§60.5420a(b)(6)(vii)

and §60.5420a(c)(5)(q(F)(1))

Please provide only one file per

record, Please provide the file name that

contains the Records of No Visible

Emissions Periods Greater Than 1

Minute During Any 15 -Minute

Period * (§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per

record, Please provide the file name that

contains the Records of

Maintenance and Repair Log *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per

record. Please provide the file name that

contains the Records of Visible

Emissions Test Following Return

to Operation From

Maintenance/Repair Activity *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(4))

Please provide only one file per

record. contains the Records of

Manufacturer's Written

Operating Instructions,

Procedures and Maintenance

Schedule *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(5))

Please provide only one file per

record.

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51

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. •

(Select from

dropdown list - may

need to scroll up) Facility Name Storage Vessel 10 •

(660.5420a(b)(()(ii)

and

660.5420a(b)(6)(I)) Was the storage vessel

constructed, modified or

reconstructed during the

reporting period? •

(460.5420a(b)(6)(i)) I... latitude of Storage Vessel (Decimal Degrec to 5 Decimals Using the Narth American Datum of 1983) • If new affected facility or if if Longitude of Storage returned to service during the Vessel (Decimal Degrees reporting period, provide to 5 Decimals Using the documentation of the VOC North American Datum emission rate determination of 1983) • according to 660.5365a(e).. (660.5420alb)(6)(0) 1 (660.5420a(b)(6)(ii)) Records of deviations where the storage vessel was not operated in compliance with requirements • (660.5420a(b)(6)(iii) and 560.5420a(c)(5)(iii)) Have you met the requirements specified in 660.5410a(h)(2) and (3)?• (660.5420a(b)(610 v)) Removed from service during the reporting period? • (660.5420a(b)(61 (v)) 42885 constructed VOC emission rate > 6 tpy No Deviations Yes No 42979 constructed VOC emission rate > 6 toy No Deviations Yes No _ 401,5 Burch Keely Unit 18A Battery 34353 constructed VOC emission rate > 6 tpy (b)

VOC emission rate > 6 tpy No Deviations Yes No

34405 constructed No Deviations Yes No

34407 constructed VOC emission rate > 6 tpy No Deviations Yes No

4017 i

Burch Keelyllnit 23A Battery I

2316 constructed VOC emission rate a 6 tpy No Deviations Yes No

2314 constructed VOC emission rate >6 tpy

I No Deviations Yes

- No

,

2317 constructed VOC emission rate >6 tpy No Deviations Yes No

.

4319 Cadillac 15 State 4H Battery 2610 constructed VOC emission rate >6 tpy No Deviations Yes No

i 2612 constructed VOC emission rate > 6 tpy No Deviations Yes No

2617 constructed

, VOC emission rate > 6 tpy No Deviations Yes No

4721 Carmen 3 Federal 1H Battery 36853 constructed VOC emission rate >6 tpy No Deviations Yes No

—

-

36775 constructed VOC emission rate > 6 tpy No Deviations Yes No

36773 constructed i VOC emission rate > 6 tpy No Deviations Yes No

4024 Clydesdale 1 Fee 6H Battery 25917 constructed VOC emission rate > 6 tpy No Deviations Yes No

25920 constructed VOC emission rate >6 tpy No Deviations Yes No

-

22479 constructed VOC emission rate > 6 tpy No Deviations Yes No

22496 constructed VOC emission rate > 6tov No Deviations Yes No

20465 constructed VOC emission rate > 6 tpy No Deviations Yes No

20467 constructed VOC emission rate > 6 toy No Deviations Yes No

4022 Dodd Federal Unit 1013 Battery 33928 constructed VOC emission rate > 6 tpy No Deviations Yes No

—

33927 constructed VOC emission rate >6 tpy No Deviations Yes No

If removed from

service, the date

removed from service,

•

(§60.5420a(b)(6)(v)) Returned to service

during the reporting

period? •

(§60.5420a(b)(6)(vi)) I

If returned to service, the

date returned to service.

(560.5420a(b)(6)(vill Make of Purchased

Device *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(A)) Model of Purchased

Device •

(960.5420a(b)(6)(vii)

and

§60.5420a(c)(5)(vi)(A)

I Serial fa.mber of

Purchased Device •

(560.5420a(b)(6)(vii) and

§60.54200(c)(5)(vi)(A)) Date of Purchase •

(560.5420a(b)(6)(vii) and

§60.5420a(t)(5)(vi)(8)) Longitude of Control

Device (Decimal

latitude of Control Degrees to 5 Decimals

Device (Decimal Degrees Using the North

to 5 Decimals Using the American Datum of

North American Datum of 1983) •

1983) • (460.5420a(b)(6)(vii)

(§60.5420a(b)(6)(vii) and and

560.5420altR5)(vi)(D)) §60.5420a(c)(5)ivil(D1) Inlet Gas Flow Rate "

(§60.5420a(b)(6)(vii)

and

§60.5420a(c)(5)(vi)(E))

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53

Please provide the file name that

contains the Records of Pilot

Flame Present at All Times of

Operation * (§60.5420a(b)(6)(vii)

and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per

record, Please provide the file name that

contains the Records of No Visible

Emissions Periods Greater Than 1

Minute During Any 15 -Minute

Period * (560.5420a(b)(6)(vii) and

§60.5420a(C)(5Hvi)(F)(2))

Please provide only one file per

record, Please provide the file name that

contains the Records of

Maintenance and Repair Log *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per

record, Please provide the file name that

contains the Records of Visible

Emissions Test Following Return

to Operation From

Maintenance/Repair Activity *

(560.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(4))

Please provide only one file per

record. contains the Records of

Manufacturer's Written

Operating Instructions,

Procedures and Maintenance

Schedule *

(560.5420a(b)(6)(vii) and

460.5420a(c)(5)(vi)(F)(5))

Please provide only one file per

record.

Monthly Records Available Monthly Records Available Monthly Records Available Monthly Records Available Available

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Records Available Available

54

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. •

(Select from

dropdown list- may

need to scroll up)

o Facility Name Storage Vessel ID •

(§60.5420a(b)(1)(6)

and

960.5420a(b)(6)(i)) Latitude of Storage If new affected facility or if

Vessel (Decimal Longitude of Storage returned to service during the

Was the storage vessel Degrees to 5 Decimals Vessel (Decimal Degrees reporting period, provide

constructed, modified or Using the North to 5 Decimals Using the documentation of the VOC

reconstructed during the American Datum of North American Datum emission rate determination

reporting period? • 1983) • of 1983) • according to §60.5365a(e).•

(660.5420a(b)(6)(i)) (460.5420a(h)(6)(i)) (660.5420alb)1610() 060.5420a(b)(6)(6)) Records of deviations

where the storage vessel

was not operated in

compliance with

requirements •

(660.5420a(b)(6)(iii) and

§60.5420a(c)(5)(iii)) i

Have you met the

requirements

specified in

460.5410a (h)(2)

and (3)?*

(960.5420a (b)(6)6

no

-4 Removed from

service dun ng

the reporting

period? •

1§60.5420a(b)(61

ND

..,

33917 constructed VOC emission rate > 6 tpy No Deviations Yes No

-

4033 Dodd Federal Unit 14A Battery 2447 constructed VOC emission rate > 6 tpy No Deviations Yes No

2425 constructed VOC emission rate > 6 tpy No Deviations Yes No

2424 constructed VOC emission rate > 6 tpy No Deviations Yes No

4034 Dodd Federal ikut 15A Worry 31426 constructed VOC emission rate > 6 tpy No Deviations Yes No

31424 constructed VOC emission rate > 6 t,py No Deviations Yes No

-

31533 constructed VOC emission rate' 6 tpy No Deviations Yes No

4038 Electra Federal 33 (North) Battery 10938 constructed VOC emission rate > 6 tpy No Deviations Yes No

22032 constructed VOC emission rate >6 tpy No Deviations Yes No

2068 constructed VOC emission rate, 6 tpy No Deviations

- Yes No

4040 Flat liead Fed Corn 2711 Battery FH15-01 constructed VOC emission rate >6 tpy No Deviations Yes No

FH15-02 constructed VOC emission rate >6 tpy No Deviations Yes No

FH15-03 constructed VOC emission rate > 6 tpy No Deviations Yes No

FH15-04 constructed VOC emission rate > 6 tpy No Deviations Yes No

r.eci Flat Heed Fed Com 6H Battery 2636 constructed VOC ernission rate > 6 tpy No Deviations Yes No

2724 constructed VOC emission rate > 6 tpy No Deviations Yes No

2728 constructed VOC emission rate >6 tpy No Deviations Yes No

z.3.I7 Halberd 2 State 3H Battery 3043 constructed VOC emission rate >6 tpy No Deviations Yes No

3050 constructed VOC emission rate >6 tpy No Deviations Yes No

3052 constructed VOC emission rate >6 tpy No Deviations Yes No

.:050 ivar the Boneless Federal 1111 Battery 3208 constructed VOC emkSSiOn rate '6 tpy NO Deviations Yes No

3206 constructed VOC emission rate > 6 tpy No Deviations Yes No

55

If removed from

service, the date

removed from service,

•

1460.5420a(b)6Xv1) Returned to service

during the reporting

period? •

1660.5420a(b)(6)(vi) If returned to service, the

date returned to service.

•

(560.5420a(b)(6)(vi)) Make of Purchased

Device •

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)NiXAll model of Purchased

Device •

(460.5420a(b)(6)(vii)

and

460.5420a(c)(5)(vi)(A)

) Serial Number of

Purchased Device '

(560.5420a(b)(6)(vii) mid

560.5420a1cX5livii(A)) Date of Purchase '

(460.5420a(b)(6)(vii) and

§60.5420a(cH5Hul)(8)) Latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

North American Datum of

1983) •

(560.5420a(b)(6)(vii) and

§60-5420alcH51(vi)(0)) Longitude of Control

Device (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983) • Inlet Gas Flow Rate '

(460.5420a(b)(6)(vii) (460.5420a(b)(6)(vii)

and and

460.5420a(c)(5)(v1)(D)) 460.5420a(c)(5)(vi)(1))

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Not Applicable Not Applicable Not Applicable Abutec 20 50126-18 Jan -15 833.33

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50

Please provide the file name that

contains the Records of Pilot

Flame Present at All Times of

Operation . (560.5420a(b)(6)(vii)

and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per

record, Please provide the file name that

contains the Records of No Visible

Emissions Periods Greater Than 1

Minute During Any 15 -Minute

Period' (560.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per

record, Please provide the file name that

contains the Records of

Maintenance and Repair Log .

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per

record, Please provide the file name that

contains the Records of Visible

Emissions Test Following Return

to Operation From

Maintenance/Repair Activity.

(460.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(4))

Please provide only one file per

record. contains the Records of

Manufacturer's Written

Operating Instructions,

Procedures and Maintenance

Schedule *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(5))

Please provide only one file per

record.

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57

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. '

(Select from

dropdown list - may

need to scroll up) Facility Name Storage Vessel ID "

(§60.5420a(b)(1)(ii)

and

§60.5420a(b)(6)(D) •

Was the storage vessel

constructed, modified or

reconstructed during the

reporting period? •

(960.5420a(b)(6)(4)

J Latitude of Storage

Vessel (Decimal

Degrees to5 Decimals

Using the North

American Datum of

1953) •

(560.5420a(b)(6)(i)) Longitude of Storage

Vessel (Decimal Degrees

to 5 Decimals Using the

North American Datum

of 1983) •

(460.5420a(b)(6)01) If new affected facility or if

returned to service during the

reporting period, provide

documentation of the VOC

emission rate determination

according to 460.5365ale).•

(960.5420a(b)(6)(ii)) Records of deviations

where the storage vessel

was not operated in

compliance with

requirements •

(§60.5420a(h)(6)(iii) and

460.5420a(c)(5)(iii)) Have you met the

requirements

specified in

460.5410a(h)(2)

and (3)?*

(560.5420a(b)(6)(i

vi) Removed from

service during

the reporting

period? •

(450.5420a(b)(6

ND

I

3207 constructed _ VOC emission rate > 6 tpy No Deviations Yes No

4060 McIntyre OK Fed 15 Batterry 40175 constructed \

VOC emission rate >6 tpy

I kaii)) (illia VOC emission rate > 6 tpy VOC emission rate > 6 tpy No Deviations Yes No , 40251 constructed No Deviations Yes No - 40295 constructed No Deviations Yes , No 4065 Newcastle 6 Fed Corn 75 Battery 2969 constructed VOC emission rate >6 tpy No Deviations Yes No 2959 constructed VOC emission rate >6 tpy No Deviations Yes No 2972 constructed VOC emission rate >6 tpy No Deviations Yes No 4066 Part Head Fee 135 Battery 1536 constructed VOC emission rate >6 tpy No Deviations Yes No 1534 constructed VOC emission rate >6 tpy No Deviations Yes No 1533 constructed VOC emission rate > 6 tpy No Deviations Yes No 1535 constructed VOC emission rate >6 tpy No Deviations Yes No 4067 Pan Head Fee 6h Battery 23147 constructed VOC emission rate >6 tpy No Deviations Yes No 2590 constructed VOC emission rate > 6 tpy No Deviations Yes No 2586 constructed VOC emission rate > 6 tpy No Deviations Yes No 2589 constructed UDC emission rate >6 tpy No Deviations Yes No 4069 PlIum IS Fee 2H Battery 2986 constructed VOC emission rate >6 tpy No Deviations Yes No 2995 constructed VOC emission rate > 6 tpy No Deviations Yes No 2997 constructed VOC emission rate '6 tpy No Deviations Yes No 4070 Ptllto 36 State Corn 15 Battery 37744 constructed VOC emission rate >6 tpy No Deviations Yes No . 37723 constructed VOC emission rate >6 tpy No Deviations Yes No i 37749 constructed VOC emission rate >6 tpy No Deviations Yes No 4071 Pinto 36 State Corn 4H Batttery 37210 constructed VOC emission rate > 6 tpy No Deviations Yes NO

58

If removed from

service, the date

removed from service,

•

(460.5420a(b)(6)(v)) Returned to service

during the reporting

period? •

060.5420a(b)(6)(vi)) If returned to service, the)

date returned to service.

•

(460.8420a(b)(6)(vi)) Make of Purchased

Device •

(§60.5420a(b)(E)(viil and

560.5420a(c)(5)(vi)(N) Model of Purchased

Device •

(560.5420a(b)(6)(vii)

and

§60.5420a(c)(5)(vi)lAil

) Serial Number of

Purchased Device •

1460.542044(6)(vii) and

460.5420a(c)(5)(viNAN Date of Purchase •

(§60.5420a(b)(6)(vii) and

460.5420a(c)(5)(vi)(B)) Longitude of Control

Device (Decimal

Latitude of Control Degrees to 5 Decimals

Device (Decimal Degrees Using the North

to 5 Decimals Using the American Datum of

North American Datum of 1983) • inlet Gas Flow Rate •

1983) • (560.5420a(b)(6)(vii) (§60.5420a(b)(6)(vii)

(550.5420a(b)(6)(vii) and and and

§60.5420a(c)(5)(vil(D)) §E0.5420a(c)(5)(vi)(0)) 560.5420a(c)(5)(vi)(EN

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Nov -14 833.33

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59

Please provide the file name that

contains the Records of Pilot

Flame Present at All Times of

Operation * (§60.5420a(b)(6)(vii)

and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per

record, Please provide the file name that

contains the Records of No Visible

Emissions Periods Greater Than 1

Minute During Any 15 -Minute

Period * (§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per

record, Please provide the file name that

contains the Records of

Maintenance and Repair Log *

(460.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per

record. Please provide the file name that

contains the Records of Visible

Emissions Test Following Return

to Operation From

Maintenance/Repair Activity *

060.5420a(b)(6)(vii) and

fi605420a(c)(5)(vi)(F)(4))

Please provide only one file per

record. contains the Records of

Manufacturer's Written

Operating Instructions,

Procedures and Maintenance

Schedule *

(460.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(5))

Please provide only one fde per

record.

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Not Applicable

Not Applicable

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Not Applicable

60

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. •

(Select from

dropdown list - may

need to scroll up) Facility Name Storage Vessel ID •

(960.5420a(b)(1)(11)

and

660.5420a(b)(6)(i)) Was the storage vessel

constructed, modified or

reconstructed during the

reporting period? •

(460.54203(6)(6)(W Latitude of Storage

Vessel (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983) •

(660.5420a(b)(6)(i)) Longitude of Storage

Vessel (Decimal Degrees

to 5 Decimals Using the

North American Datum

of 1983) •

(660.5420a(b)(6)(0) If new affected facility or if

returned to service during the

reporting period, provide

documentation of the VOC

emission rate determination

according to 660.5365a (e)."

(560.5420a(b)(6)(0) Records of deviations

where the storage vessel

was not operated in

compliance with

requirements •

(560.5420a(b)(6)(iii) and

460.5420a(c)(5)(iii)) Have you met the

requirements

specified in

§60.5410a(h)(2)

and (3)7.

(660.5420a(b)(6)(l

v)) Removed from

service during

the reporting

period? •

(§60.5420a(b)(6(

(v))

37208 constructed VOC emission rate > 6 tpy

emission rate, 6 tpy No Deviations

No Deviations Yes

Yes No

_ No 37209 constructedVOC 0)

4073

I Puckett 13 Fed Corn 35H Battery 2633 constructed

constructed VOC emission rate >6 tpy

VOC emission rates 6 tpy No Deviations Yes

Yes No

No 2650 No Deviations

2632 constructed VOC emission rate >6 tpy No Deviations Yes No

4074 Puckett 13 Fed Corn 8H Battery 38888 constructed VOC emission rate >6 tpy No Deviations Yes No

37652 constructed VOC emission rate > 6 tpy No Deviations Yes No

37651 constructed VOC emission rate >6 tpy No Deviations Yes No

37623 constructed VOC emission rate > 6 tpy No Deviations Yes No

4077 Ragnar Federal Battery 22495 constructed VOC emission rate > 6 tpy No Deviations Yes No

20362 constructed VOC emission rate > 6 tpy No Deviations Yes No

23149 constructed VOC emission rate >6 tpy No Deviations Yes No

4082 Sam Adams 12 Fed Com 8H Battery 45941 constructed VOC emission rate > 6 tpy No Deviations Yes No

45946 constructed VOC emission rates 6 tpy No Deviations Yes No

45938 constructed VOC emission rate, 6 tpy No Deviations Yes No

4085 Sherman 4 Fee 6H Batter,/ 1303 constructed VOC emission rate, 6 tpy No Deviations Yes No

501 constructed VOC emission rate >6 tpy No Deviations Yes No

520 constructed VOC emission rate > 6 tpy No Deviations Yes No

39970 constructed VOC emission rates 6 toy No Deviations Yes No

40815 Shiner Bock 1 Fed Corn 8H Battery 2591 constructed VOC emission rate, 6 tpy No Deviations Yes No

2585 constructed VOC emission rate >6 tpy No Deviations Yes No

2642 constructed VOC emission rate > 6 tpy No Deviations Yes No

61

If removed from

service, the date

removed from service,

•

1460.5420a lb)(6)(v)) Returned to service

during the reporting

period? •

(460.5420a(b)(6)(vi)) II returned to service, the

date returned to service.

.

(460.542006)16)(vi)) Make of Purchased

Device •

060.5420a(b)(6)(vii) and

460.5420a(c)(5)(vi)(A)) Model of Purchased

Device •

(460.5420a(b)l6)(vii)

and

460.5420a(c)(5)(vi)(A)

) Serial Number of

Purchased Device •

(4605420a(b)(6)(vii) and

460 5420a(c)(5)(vi)lA)) Date of Purchase •

(460.5420a(b)(6)(vii) and

460.5420a(c)(5)(vi)lB)) latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

North American Datum of

1983)*

(460.5420a(b)(6)(vii) and

460.5420a(c)(5)(vi)(D)) Longitude of Control

Device (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983) •

(460.5420a(b)(6)(vii)

and

460.5420a(c)(5)(vi)(D)) Inlet Gas Flow Rate •

(460.5420a(b)(6)(vii)

and

460.5420a(c)(5)(vi)(E))

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62

Please provide the file name that contains the Records of

Please provide the file name that contains the Records of Visible Manufacturer's Written

Please provide the file name that contains the Records of No Visible Please provide the file name that Emissions Test Following Return Operating Instructions,

contains the Records of Pilot Emissions Periods Greater Than 1 contains the Records of to Operation From Procedures and Maintenance

Flame Present at All Times of Minute During Any 15 -Minute Maintenance and Repair Log * Maintenance/Repair Activity * Schedule *

Operation * (§60.5420a(b)(6)(vii) Period * (560.5420a(b)(6)(vii) and (560.5420a(b)(6)(vii) and (§60.5420a(b)(6)(vii) and (§60.5420a(b)(6)(vii) and

and §60.5420a(c)(5)(vi)(F)(1)) §60.5420a1c)(5)(vO(F)(2)) §60.5420a(c)(5)(vi)(F)(3)} §60.5420a(c)(5)(vi)(F)(4)) §60.5420a(c)(5)(vi)(F)(5))

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Not Applicable

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13

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

1. acility Record No. •

(Select from
dropdown list - may
need to scroll up) Facility Name Storage Vessel ID •
(§60.5420a(b)(1)(6)
and
960.5420a(b)(6)(i)) Was the storage vessel
constructed, modified or
reconstructed during the
reporting period? '
(960.5420a(b)(6)(i)) La:itude of Storage
Vessel (Decimal
Deg•ees to 5 Decimals
Using the North
American Datum of
1983) •
(960.5420a(b)(6)(i)) Longitude of Storage
Vessel (Decimal Degrees
to 5 Decimals Using the
North American Datum
of 1983) '
(960.5420a(b)(6)(i)) If new affected facility or if
returned to service during the
reporting period, provide
documentation of the VOC
emission rate determination
according to 960.5365a(e).•
(960.5420a(b)(6)(ii)) Records of deviations
where the storage vessel
was not operated in
compliance with
requirements •
(960.5420a(b)(6)(iii) and
9605420a(c)(5)(iii))
I Have you met the
requirements
specified in
§60.5410a(h)(2)
and (3)?•
(960.5420a(b)(6)(i

v)) Removed from

service during

the reporting

period?*

(960.5420a(b)(6)

(v))

_-... _

40813 sl,lly Jr$11042 Battery 22793 constructed VOC emission rate > 6 tpy No Deviations Yes No

18791 constructed VOC emission rate > 6 tpy -

No Deviations Yes No

18754 constructed VOC emission rate > 6 tpy No Deviations Yes No

17650

, constructed VOC emission rate > 6 tpy No Deviations Yes NO

' Sneed 9 Fed Com 2H Batttery 2528 constructed VOC emission rate > 6 tpy No Deviations Yes No

2626 constructed VOC emission rate > 6 Spy No Deviations Yes No

i- 2630 constructed VOC emission rate >6 Spy No Deviations Yes No

4096 Stonewall 9 Fee 1H Battery 42724 constructed VOC emission rate >6 tpy No Deviations Yes No

42725 constructed VOC emission rate > 6 tpy No Deviations Yes NO

...

42640 constructed VOC emission rate > 6 Spy No Deviations Yes No

4097 Stonewall 9 Fee BH Battery 3181 constructed VOC emission rate >6 Spy No Deviations Yes No

3167 constructed VOC emission rate > 6 Spy No Deviations Yes No

3173

-4... constructed VOC emission rate > 6 Spy No Deviations Yes '40

4101 Tarpan 33 Fee 411 Battery 3196 constructed VOC emission rates 6 Spy No Deviations Yes No

3220 constructed VOC emission rate > 6 Spy No Deviations Yes _

No

3194 constructed VOC emission rate >6 Spy No Deviations Yes No

4001 Admiral Fed Corn 211 Battery 11999 constructed VOC emission rate > 6 Spy No Deviations Yes N0

11996

- constructed VOCemLssion rate > 6 tpy No Deviations Yes No

11997 constructed VOC emission rate >6 Spy No Deviations Yes No

I

12001 constructed VOC emission rate > 6 tpy No Deviations Yes No

4022 Acores Federal 3H Battery 21941 constructed

- VOC emission rate > 6 tpy No Deviations Yes No

15939 constructed VOC emission rate > 6 Spy No Deviations Yes No

64

COG Operating, LLC

NSPS 0000a Annual Report

Well Completions

_

Records of

deviations where Please provide the

well completion file name that

operations with contains the Record Date of Onset of Time of Onset of Date of Each Time of Each

Facility Record

hydraulic fracturing of Determination Flowback Following Flowback Following Attempt to Direct Attempt to Direct

Date of Each

No. •

United States Well were not performed and Supporting Well Completion ID • Well location • Hydraulic Fracturing Hydraulic Fracturing Flowback to a Flowback to a

Occurrence of

(Select from

Number in compliance with Inputs and (460.5420a(b)(2:(i) and (960.5420a(b)(2)(i) and or Refracturing ' or Refracturing • Separator' Separator "

Returning to the dropdown list - (460.5420a(b)(10)) the requirements Calculations' 960.5420a(t)(1)(01 960.5420a(c)(1)161)(A)-(81) 1460.5420a(b)(2)(0 (560.S470a(b)(2)(i) (560.5420a(b)(2)(0 (960.S420a(b)(2)(1)

Initial Flowbadi

may need to

specified in 4 (960.5420a(b)(2)liii) and and and and

Stage . scroll up)

60.5375a. • 460.54704(c)(1)(iiill 960.5420a(c)(1)1691 §60.5420a(c)(1)(110(960.5420a(chighill

and

4)-(B)) A).(6)) ANN) (li60.5420a(b)(2)(i)

1960.5420a(bg2Hii) 460.5420a(c)(1)(vii)) and

and Please provide only 460.5420a(c)(1)(10(

960.5420a(c)(1)(iii) one file per record.

_ 4)(B))

. _ , r

1001 42-109-32967 No deviations Not Applicable Aldrin Unit 2821H 11/15/2016 9:45 p.m. 12/19/2016 3:40 p.m. 12/19/2016

12/22/2016 9:00 am.

1002 42-109-32963 No deviations Not Applicable Arrnstrong 2323H 11/5/2016 1:00 p.m. 11/5/2016 1:00 p.m.

1003 42-475-37174 No deviations Not Applicable Barstow A 3652H 6/7/2017 7:30 p.m. 6/7/2017 7:30 p.m

1004 42-389-35237 No deviations Not Applicable Big Dipper State Unit 250611 12/8/2016 8:30 cm. 12/8/2016 8:30 am

1005 42-389-35340 No deviations Not Applicable Big Dipper State Unit 2507H 12/8/2016 9.00 cm. 12/8/2016 9:00 a.m.

1006 42-389-35195 No deviations Not Applicable Bronze 6-15 1505H 8/31/2016 9:00 cm. 8/31/2016 900 a.m.

1007 42-109-32941-00 No deviations Not Applicable Carpenter E Unit 222H 7/26/2016 3:00 p.m. 7/25/2016 3:00 p.m. 7/27/2016

8/23/2016 12:00 p.m. 8/24/2017

7/28/2016 9:00 p.m. 8/25/2016

7/28/2016 9:50 a.m.

9:00 p.m. 1008 42-109-32940-00 No deviations Not Appkable Carpenter E Unit 223H

8/17/2016 7:00 a.m.

1009 42-389-35575 No deviations Not Applicable Chief Pinkie 770611 5/16/2017 900 a.m. 5/16/2017 9:00 a.m.

1010 42-109-32964 No deviations Not Applcable Chute Buster 62311 12/15/2016 8:00 a.m. 12/15/2016 2:00 p.m.

1011 42-461-40330 No deviations Not Applicable Cowden 28 Unit 1 2802 BH 3/19/2017 9:00 am, 3/19/2017 9:00 a.m.

1012 42-461-40369 No deviations Not Applicable Cowden 28 Unit 2801 AH 3/19/2017 _

9:00 a.m. 3/19/2017 9:00 cm.

1013 42-109-33025 No deviations Not Applicable DR State Central 121311 3/21/2017 1000 a.m 3/24/2017 3:00 p.m.

1014 42-109-33034 No deviations Not Applicable DR State East 302811 6/27/2017 11:00 a.m. ...

6/29/2017 2:45 p.m.

1015 42-109-33033 No deviations Not Applicable DR State East 302911 6/22/2017 1100 a.m. 6/25/2017 ,

11:00 a.m.

If removed from

service, the date

removed from service,

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(960.5420a(b)(6)(v)) Returned to service

during the reporting

period? •

(960.54200(b)(6)(vi)) - -

If returned to service, the

date returned to service.

•

(960.5420a(b)(6)(vi)l Make of Purchased

Device •

1960.5420a(b)(6)(vii) and

960.5420a(c)(5)(vi)(A)) Model of Purchased

Device •

(560-5420a (b)(6)(vii)

and

gb0.54200(c)(5)(vi)(A)

) Serial Number of

Purchased Device •

(560.5420a(b)(6)(vii) and

960.5420a (c)(5)(vi)(A)) Date of Purchase •

(960.5420a(b)(6)(vii) and

960.5420a(c)(5)(vi)(8)) Latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

North American Datum of

1983)*

(960.5420a(b)(6)(vii) and

960.5420a(c)(5)(vi)(D)) Longitude of Control

Device (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983) • Inlet Gas Flow Rate •

(960.5420a(b)(6)(vii) (960.5420a (b)(6)(vii)

and and

960.5420a(c)(5)(vi)lon 960.5420a(c)(5)lvi)(E))

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Not Applicable Not Applicable Not Applicable Abutec 100 20073 Jun -16 4200

65

Please provide the file name that

contains the Records of Pilot

Flame Present at All Times of

Operation * (§60.5420a(b)(6)(vii)

and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per

record, Please provide the file name that

contains the Records of No Visible

Emissions Periods Greater Than 1

Minute During Any 15 -Minute

Period * (§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per

record, Please provide the file name that

contains the Records of

Maintenance and Repair Log *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per

record, Please provide the file name that

contains the Records of Visible

Emissions Test Following Return

to Operation From

Maintenance/Repair Activity *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(4))

Please provide only one file per

record. contains the Records of

Manufacturer's Written

Operating Instructions,

Procedures and Maintenance

Schedule 0

1§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(5))

Please provide only one file per

record.

Not Applicable

Not Applicable

Not Applicable

Not Applicable

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66

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. •

(Select from

dropdown list- may

need to scroll up) w

Facility Name Storage Vessel ID •

(460.5420a(b)(1)(ii)

and

460-5420a(b)(6)01) I

Latitude of Sterne

Vessel (Decimal

Was the storage vessel Degrees to S Decimals

constructed, modified or Using the North

reconstructed during the American Datum of

reporting period? • 1983) •

(§60.5420a(bX6)(1)) (§60.5420a(b)(6X1)) 1 Longitude of Storage

Vessel (Decimal Degrees

to 5 Decimals Using the

North American Datum

of 1983) •

(960.5420a(b)(6)(i)) If new affected facility or if

returned to service during the

reporting period, provide

documentation of the VOC

emission rate determination

according to 460S365a(e).•

(¢60.5420a(b)(6)(ii)) Records of deviations

where the storage vessel

was not operated in

compliance with

requirements •

(460.5420a(bX6)(III) and 11(§60.5420a(b)(6)(i §60.5420a(c)(5)(81)) Have you met the

requirements

specified In

660.5410a(h)(2)

and (3)?•

v))

I Removed from

service during

the reporting

period? •

(960.5420a(b)(61

(v))

15928 constructed ier g constructed (

constructed 1 b) VOC emission rate' 6 tpy No Deviations Yes No 15926 21928 VOC emission rate '6 tpy VOC emission rate >6 tpy No Deviations No Deviations Yes Yes No No 21950 constructed VOC *mission rate > 6 tpy No Deviations Yes No 4003 Banter State Corn 411 Battery 3235 constructed VOC emission rate > 6 tpy No Deviations Yes No 3234 constructed VOC emission rate > 6 tpy No Deviations Yes No 3232 constructed VOC emission rate > 6 tpy No Deviations Yes No 3231 constructed VOC emission rate > 6 tpy No Deviations Yes No 4005 Blue Jay Federal 1H Battery 1493 constructed VOC emission rate > 6 tpy No Deviations Yes No 1495 constructed VOC emission rate > 6 tpy No Deviations Yes No 1512 constructed VOC emission rate '6 tpy No Deviations Yes No 1494 constructed VOC emission rate, 6 tpy No Deviations Yes No 4007 Boone 16 State Corn 211 Battery 21334 constructed VOC emission rate > 6 tpy No Deviations Yes No 21339 constructed VOC emission rate >6 tpy No Deviations Yes No 21333 constructed VOC emission rate > 6 tpy No Deviations Yes No 4012 Broadcaster 29 Federal 3H Battery 45007 constructed VOC emission rate > 6 tpy No Deviations Yes No 45008 constructed VOC emission rate >6 tpy No Deviations Yes No 45009 constructed VOC emission rate > 6 tpy No Deviations Yes No 45010 constructed VOC emission rate > 6 tpy No Deviations Yes No 4013 Bultaco State 1H Battery 24065 constructed VOC emission rate > 6 tpy No Deviations Yes No 24059 constructed VOC emission rate >6 tpy No Deviations Yes No 24044 constructed VOC emission rate > 6 tpy No Deviations Yes No

67

If removed from

service, the date

removed from service,

•

(980.5420a(b)(6)(v)) Returned to service

during the reporting

period? •

(460.5420e(b)(6)(vi) If returned to service, t

date returned to service.

"

(560.5420a(bX6)(vi)) Make of Purchased

Device •

(960.5420a(b)(6)(vill) and

§60.5420a(c)(5)(vi)(A)) Model of Purchased

Device'

(460.5420a(bX6)ivii)

and

960.5420a(c)(5Xvi)(A)

1 Serial Number of

Purchased Device •

(460.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi}(A)) Date of Purchase'

(960.5420a(b)(6Xvii) an

§60.5420a(c)(5i(vi)(8)) Latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

North American Datum

1983) •

(960.54208(b)(6Xvii) and

460.5420a(c)(5)(vi)(0)) Longitude of Control

Device (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983) • inlet Gas Flow Rate'

(§60.5420a(bX6)(vii) (§60.5420a(b)(6)(v6)

and and

§60.542011101500(D)1 960.5420a(c)(5)(W)(ED

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Not Applicable Not Applicable Not Applicable Edge CXV CXV-153 Sep -16 5200

Not Applicable Not Applicable Not Applicable Edge CXV CXV-153 Sep -16 5200

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68

Please provide the file name that contains the Records of Pilot Flame Present at All Times of Operation * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per record. Please provide the file name that contains the Records of No Visible Emissions Periods Greater Than 1 Minute During Any 15 -Minute Period * (§60.5420a(b)(6)(vii)and §60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per record. Please provide the file name that contains the Records of Maintenance and Repair Log * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per record, Please provide the file name that contains the Records of Visible Emissions Test Following Return to Operation From Maintenance/Repair Activity * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(4))

Please provide only one file per record. contains the Records of Manufacturer's Written Operating Instructions, Procedures and Maintenance

Schedules

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(5))

Please provide only one file per

record.

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Records Available Available

69

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. •

(Select from

dropdown list - may

need to scroll up) Facility Name Storage Vessel ID •

(960.5420a(b)(1)(ii)

and

960.5420a(b)(6)01) Was the storage vessel

constructed, modified or

reconstructed during the

reporting period? •

1860.5420a(b)(6)01) Latitude of Storage

Vessel (Decimal Longitude of Storage

. Degrees to 5 Dedmals Vessel (Decimal Degrees

! Using the North to 5 Decimals Using the

American Datum of North American Dation

1983) • of 1983) •

(960.5420a(b)(6)(0) (960.5420a(b)(6)(ff) If new affected facility or if

returned to service during the

reporting period, provide

documentation of the VOC

emission rate determination

according to 960.5365a(e).

1960.5420a(b)(6)01)) Records of deviations

where the storage vessel

was not operated in

compliance with

requirements •

(460.5420a(b)(6)(iii) and

560.5420a(c)(5)(ii)) Have you met the

requirements

specified in

860.5410a(h)(2)

and (3)?"

(9605420a(b)(6)(i

v)) Removed from

service during

the reporting

period? •

(460.5420a(b)(6(

(v))

..,

24063 constructed VOC emission rate > 6 tpy No Deviations Yes No

4022 CCAP State Corn 61.1 Battery 25268 constructed VOC emission rate' 6 tpy No Deviations Yes No

,

25266 constructed VOC emission rate' 6 tpy No Deviations Yes No

25269 constructed VOC emission rate > 6 tpy No Deviations Yes No

,

25267 constructed VOC emission rate' 6 tpy No Deviations Yes No

4018 Cabo Blanco State Battery 21833 constructed VOC emission rate > 6 tpy No Deviations Yes No

21035 constructed VOC emission rate > 6 tpy No Deviations Yes No

21019 constructed VOC emission rate '6 tpy No Deviations Yes No

,

21024 constructed VOC emission rate >6 tpy No Deviations Yes No

4020 Cali Roll 24 Fed Corn 21-I Battery 11887 constructed VOC emission rate > 6 tpy No Deviations Yes No

11893 constructed VOC emission rate '6 tpy No Deviations Yes No

11884 constructed VOC emission rate > 6 tpy No Deviations Yes No

11888 constructed VOC emission rate > 6 tpy No Deviations Yes No

4023 Chopper State Corn 3H Battery 13047 constructed VOC emission rate > 6 tpy No Deviations Yes No.

..

13041 constructed VOC emission rate > 6 tpy No Deviations Yes No

13033 constructed VOC emission rate >6 tpy No Deviations Yes No

12946 constructed VOC emission rate '6 tpy No Deviations Yes No

4025 Columbus Fee 2H Battery 1685 constructed VOC emission rate >6 tpy No Deviations Yes No

1686 constructed VOC emission rate >6 tpy No Deviations Yes No

1687 constructed VOC emission rate >6 tpy No Deviations Yes No

·_

1688 constructed VOC emission rate > 6 tpy No Deviations Yes No

4026 Cookie Tosser State Cam 1H Battery VOC emission rate >6 tpy No Deviations Yes Na

70

If removed from

service, the date
removed from service,
(960.5420a(b)(6)(v)) Returned to service
during the reporting
period?*
(660.5420a(b)(6)(vill If returned to service, the
date returned to service.
•
(660.5420a(b)(6)(W)) Make of Purchased
Device '
(660.5420a(b)(6)(vii) and
660.5420a(c)(5)(vi)(A)) Model of Purchased
Device '
(460.5420a (b)(6)(vii)
and
660.5420a(c)(5)(vi)(A)
I Serial Number of
Purchased Device •
(660.5420a(b)(6)(vii) and
660.5420a(c)(5)(vi)(A)) Date of Purchase "
(660.5420a (b)(6)(vii) and
§6o.5420a(c)(5)1.i)(B)) Latitude of Control
Device (Decimal Degrees
to 5 Decimals Using the
North American Datum of
1983) "
(660.5420a(b)(6)(vii) and
660.5420a(c)(5)(vi)(D)) Longitude of Control
Device (Decimal
Degrees to 5 Decimals
Using the North
American Datum of
1983) •
060.5420a(b)(6)(vii)
and
6605420a(c)(5)(vii(D)) Inlet Gas Flow Rate •
(160.6420a(b)(6)(vii)
and
160.1420a(c)(5)(vi)(E))

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71

Please provide the file name that contains the Records of

Please provide the file name that contains the Records of Visible Manufacturer's Written

Please provide the file name that contains the Records of No Visible Please provide the file name that Emissions Test Following Return Operating Instructions,

contains the Records of Pilot Emissions Periods Greater Than 1 contains the Records of to Operation From Procedures and Maintenance

Flame Present at All Times of Minute During Any 15 -Minute Maintenance and Repair log* Maintenance/Repair Activity * Schedule *

Operation * (§60.5420a(b)(6)(vii) Period * (560.5420a(b)(6)(viii and

(§60.5420a(b)(6)(vii) and (§605420a(b)(6)(vii) and (§60.5420a(b)(6)(vii) and

and §60.5420a(c)(5)(vi)(F)(1)) §60.5420a(c)(5)(vi)(F)(2)) §60.5420a(c)(5)(vi)(F)(3)) §60.5420a(c)(5)(vi)(F)(4)) §60.5420a(c)(5)(vi)(F)(5))

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Records Available Available

72

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. •

(Select from

dropdown Bst - may

need to saoll up) i

Facility Name Storage Vessel ID •

(§60.5420a(b)(1)(ii)

and

§60.5420a(b)(6)(0) Was the storage vessel

constructed, modified or

reconstructed during the

reporting period? •

1480-5420a(b)(6)(1)) Latitude of Storage

Vessel (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983) •

1/60.5420a(b)(6)(l)) Longitude of Storage

Vessel (Decimal Degrees

to 5 Decimals Using the

North American Datum

of 1983) •

(660.5420a(b)(6)(i)) If new affected facility or if

returned to service during the

reporting period, provide

documentation of the VOC

emission rate determination

according to 460.5365a(e).•

(460.5420a(b)(6)(8)) Records of deviations

where the storage vessel

was not operated in

compBance with

requirements •

(460.5420a(b)(6)(111) and

§60.5420a(c)(5)(iii)) Have you met the

requirements

specified in

660.5410a(h)(2)

and (3)?*

(460.5420a(b)(610

v)) Removed from

service during

the reporting

period? •

(860.5420a(b)(81

(v))

11561 constructed

(rol) (ill VOC emission rate > 6 tpy No Deviations Yes No 11148 constructed VOC emission rate > 6 tpy No Deviations Yes No 11560 constructed VOC emission rate' 6 tpy No Deviations Yes No 4027 Cookie Tosser State Corn 2H Battery 11150 constructed VOC emission rate > 6 tpy No Deviations Yes No 11159 constructed VOC emission rate >6 tpy No Deviations Yes No 11563 , constructed VOC emission rate >6 tpy No Deviations Yes No 11567 constructed VOC emission rate > 6 tpy No Deviations Yes No 4028 Copperhead 31 Fed Coin 3H Battery 1722 constructed , VOC emission rate > 6 tpy No Deviations Yes No 1767 constructed VOC emission rate > 6 tpy No Deviations Yes No 1764 constructed VOC emission rate > 6 tpy No Deviations Yes No 1738 constructed VOC emission rate > 6 tpy No Deviations Yes No 4029 Cottonmouth 23 Fed Corn 2H Battery 11894 constructed VOC emission rate, 6 tpy No Deviations Yes No 11886 constructed VOC emission rate' 6 tpy No Deviations Yes No 11890 constructed VOC emission rate > 6 tpy No Deviations Yes No 11891 constructed VOC emission rate' 6 toy No Deviations Yes No 4030 Crapshoot Fed 2H Battery 3175 constructed VOC emission rate > 6 tpy No Deviations Yes No 3183 constructed VOC emission rate > 6 tpy No Deviations Yes No 3182 constructed VOC emission rate > 6 tpy No Deviations Yes No 3174 constructed VOC emission rate > 6 tpy No Deviations Yes No 4031 Diamondback 22 State Com SH Battery 24892 constructed VOC emission rate > 6 tpy No Deviations Yes No 24893 constructed VOC emission rate > 6 tpy No Deviations Yes No 24891 constructed VOC emission rate > 6 tpy No Deviations Yes No

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If removed from

service, the date

removed from service,

•

(560.5420a(b)(601) Returned to service

during the reporting

period?

1560.5420a(b)(6)(vill If returned to service, the

date returned to service.

n

(960.5420a(b)(61(vi)) Make of Purchased

Device '

(§805420a(b)(6)(vii) and

§60.5420a(c)(5)(vd(A)) Model of Purchased

Device •

(560.5420a(b)(6)(vii)

and

§60.5420altlf5((vi)(A)

I Serial Number of

Purchased Device •

(5603420a(b)(6)(vii) and

§60.5420a(c)(5)(vd(A)) Date of Purchase •

(560.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(B)) Latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

North American Datum of

1983) •

(560.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(1))) longitude of Control

Device (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983) •

(660.5420a(b)(6)(vii)

and

§60.5420a(c)(5)(vi)(D)) Inlet Gas Flow Rate •

1660.5420a(b)(6)(vii)

and

§60.5420a(c)(5)(vi)(E))

Not Applicable Not Applicable Not Applicable Edge CXV CXV93 Feb -16 Ilk b) (9 5200 Not Applicable Not Applicable Not Applicable Edge CXV CXV93 Feb -16 5200 Not Applicable Not Applicable Not Apphcable Edge OD/ CXV93 eb-16 5200 5200 Not Applicable Not Applicable Not App cable Edge CXV ON -133 Jun -16 Not Applicable Not Applicable Not Applicable Edge ON ON -133 Jun -16 5200 Not Applicable Not Applicable Not Applicable Edge CXV CXV-138 Jun -16 • 5200 Not Applicable Not Applicable Not Applicable Edge CXV ON 133 Jun -16 5200 Not Applicable Not Applicable Not Appl cable Edge ON DCXV-95 Feb -15 5200 Not Applicable Not Applicable Not Applicable Edge CXV DON -95 Feb -15 5200 Not Applicable Not Applicable Not Applicable Edge CXV DCXV-95 Feb -15 5200 Not Applicable Not Applicable Not Applicable Edge CXV DON -95 Feb -15 5200 Not Applicable Not Applicable Not Applicable Edge ON 0N050-2 Feb -16 5200 Not Applicable Not Applicable Not Applicable Edge CXV OCV050-2 Feb -16 5200 Not Applicable Not Applicable Not Applicable Edge ON OCV050.2 Feb -16 5200 Not Applicable Not Applicable Not Applicable Edge ON ON050-2 Feb -16 5200 Not Applicable Not Applicable Not Applicable Edge ON CXV003-2 Jun -15 5200 Not Applicable Not Applicable Not Applicable Edge ON ON003-2 Jun -15 5200 Not Applicable Not Applicable Not Applicable Edge CXV ON003 2 Jun -15 5200 Not Applicable Not Applicable Not Applicable Edge CXV ON003-2 Jun -15 5200 Not Applicable No Applicable Not Applicable Abutec 100 20150 Mar -15 4200 Not Applicable Not Applicable Not Applicable Abutec 100 20150 Mar -15 4200 Not Applicable Not Applicable Not Applicable Abutec 100 20150 Mar -15 4200

74

Please provide the file name that contains the Records of Pilot Flame Present at All Times of Operation * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(P)(1))

Please provide only one file per record, Please provide the file name that contains the Records of No Visible Emissions Periods Greater Than 1 Minute During Any 15 -Minute Period * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per record, Please provide the file name that contains the Records of Maintenance and Repair Log* (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per record, Please provide the file name that contains the Records of Visible Emissions Test Following Return to Operation From Maintenance/Repair Activity* (§60.5420a(b)(6)(vii) and §fi0.5420a(c)(5)(vi)(F)(4))

Please provide only one file per record. contains the Records of Manufacturer's Written Operating Instructions, Procedures and Maintenance Schedule * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(5))

Please provide only one file per record.

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75

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. •

(Select from

dropdown list - may
need to scroll up) Facility Name Storage Vessel ID •
(960.5420a(b)(1)(ii)
and
960.5420a(b)(6)(i)) Was the storage vessel
constructed, modified or
reconstructed during the
reporting period? •
(160.5420a(b)(6)(i)) latitude of Storage
Vessel (Dedmal Longitude of Storage
Degrees to 5 Decimals Vessel (Decimal Degrees
Using the Norti to 5 Decimals Using the
American Datum of North American Datum
1983) • of 1983) •
(960.5420a(b)(6)1)) (960.5420a(b)(6)(0) If new affected facikty or if
returned to service during the
reporting period, provide
documentation of the VOC
emission rate determination
according to 960.5365a(e).
(960.5420a(b)(6)(1)) Records of deviations
where the storage vessel
was not operated In
compliance with
requirements •
(960.5420a(b)(6)(iii) and
960.5420a(c)(5)(iill Have you met the
requirements
specified In
960.5410a(h)(2)
and (3)?•
(960.5420a(b){6)(i
v)) I
Removed from
service during
the reporting
period? •
960.5420*(b)(61
(v))

24890 constructed VOC emission rate' 6 toy No Deviations Yes No

4035 Eata Fajita State 911 & 10H Battery 21238 constructed VOC emission rate, 6 tpy No Deviations Yes No

21244 constructed VOC emission rate, 6 tpy No Deviations Yes No

21243 constructed VOC emission rate, 6 tpy No Deviations Yes No

21329 constructed VOC emission rate > 6 tpy No Deviations Yes No

4036 Eata Fajita State Corn 611 Battery 21327 constructed VOC emission rate , 6 tpy No Deviations Yes No

20815 constructed I VOC emission rate' 6 tpy No Deviations Yes No 20812 constructed VOC emission rates 6 tpy No Deviations Yes No 20814 constructed VOC emission rate > 6 tpy No Deviations Yes No 4037 Eider Federal 2H Battery 11666 constructed VOC emission rate > 6 tpy No Deviations Yes No 11892 constructed VOC emission rate > 6 tpy No Deviations Yes No 11662 constructed VOC emission rate > 6 toy No Deviations Yes No 11672 constructed VOC emission rate, 6 tpy No Deviations Yes No 4039 Fascinator Fee Corn 211 Battery 1485 constructed VOC emission rate > 6 tpy No Deviations Yes No 1517 constructed VOC emission rate >6 tpy No Deviations Yes No 1514 .... _ . constructed VOC emission rate >6 tpy No Deviations Yes No 1488 constructed VOC emission rate > 6 tpy No Deviations Yes No 4042 Geronimo Fed Corn 1111 Battery 12959 constructed VOC emission rate > 6 tpy No Deviations Yes No 13001 constructed... VOC emission rate >6 spy No Deviations Yes No 13002 .. constructed VOC emission rate, 6 tpy No Deviations Yes No 12938 constructed VOC emission rates 6 tpy No Deviations Yes No 4043 Glacier Fed Corn 1H Battery 25525 constructed VOC emission rate >6 tpy No Deviations Yes No 76

If removed from

service, the date

removed from service.,

•

(460.5420a(b)(6))v1) Returned to service

during the reporting

period? •

(960.542043)(6)(0) if returned to service, the

date returned to service.

(960.5420a(b)(6)(vi)) Make of Purchased

Device "

(960.5420a(b)(6)(vii) and

960.5420a(c)(5)(vi)(A)) Model of Purchased

Device •

(9613.5420a(b)(6)(vii)

and

960.5420a(c)(5)(vil(A)

) Serial Number of

Purchased Device •

(660.5420a(b)(6)(vii) and,

960.5420a(c)(5)(vi)(A)) , Date of Purchase'

(§60.5420a(b)(6)(vii) andl

960.5420a(c)(5)(vi)(8)) Longitude of Control

Device (Decimal

Latitude of Control Degrees to 5 Decimals
Device (Decimal Degrees Using the North
to 5 Decimals Using the American Datum of
North American Datum of 1983) •
1983) • (960.5420a(b)(6)(vii)
(960.5420a(b)(6)(vii) and and
960.5420a(c)(5)Wi)(D)) 960.5420a(c)(5)(vi)(D)) inlet Gas Flow Rate •
(960.5420a(b)(6)(vii)
and
960.5420a(c)(5)(vi)(E))
Not Applicable Not Applicable Not Applicable Abutec 100 20150 Mar -15 4200
Not Applicable Not Applicable Not Applicable Abutec 100 90013.17 Oct -14 4200
Not Applicable Not Applicable Not Applicable Abutec 100 90013.17 Oct -14 4200
Not Applicable Not Applicable Not Applicable Abutec 100 9001137 Oct -14 4200
Not Applicable Not Applicable Not Applicable Abutec 100 90013.17 Oct -14 4200
Not Applicable Not Applicable Not Applicable Edge CXV ON -9: Jan -14 5200
Not Applicable Not Applicable Not Applicable Edge CXV C(V-97 Jan -14 5200
Not Applicable Not Applicable Not Applicable Edge CXV CXV-9: Jan -14 5200
Not Applicable Not Applicable Not Applicable Edge CXV CXV-9: Jan -14 5200
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Not Applicable Not Applicable Not Applicable Edge CXV CXV-131 Feb -16 5200
Not Applicable Not Applicable Not Applicable Edge CXV CXV-13011 Jun -16 5200
Not Applicable Not Applicable Not Applicable Edge CXV OW -13011 Jun -16 5200
Not Applicable Not Applicable Not Applicable Edge CXV 0(V-13011 Jun -16 5200
Not Applicable Not Applicable Not Applicable Edge ON ON -13011 Jun -16 5200
Not Applicable Not Applicable Not Applicable Edge ON CXV-225 Mar -17 5200
Not Applicable Not Applicable Not Applicable Edge CXV ON -225 Mar -17 5200
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Not Applicable Not Applicable Not Applicable Edge CXV CXV-225 Mar -17 5200
Not Amicable Not Applicable Not Applicable Abutec 100 50146.01 Mar -16 4200
77
Please provide the file name that
contains the Records of Pilot
Flame Present at All Times of
Operation • (§60.5420a(b)(6)(vii)
and §60.5420a(c)(5)(vi)(F)(1))
Please provide only one file per

record, Please provide the file name that
contains the Records of No Visible
Emissions Periods Greater Than 1
Minute During Any 15 -Minute
Period * (§60.5420a(b)(6)(vii) and
§60.5420a(c)(5)(vi)(F)(2))
Please provide only one file per
record, Please provide the file name that
contains the Records of
Maintenance and Repair Log •
(§60.5420a(b)(6)(vii) and
§60.5420a(c)(5)(vi)(F)(3))
Please provide only one file per
record, Please provide the file name that
contains the Records of Visible
Emissions Test Following Return
to Operation From
Maintenance/Repair Activity •
(§60.5420a(b)(6)(vii) and
§60.5420a(c)(5)(vi)(F)(4))
Please provide only one file per
record. contains the Records of
Manufacturer's Written
Operating Instructions,
Procedures and Maintenance
Schedule *
(560.5420a(b)(6)(vii) and
§60.5420a(c)(5)(vi)(F)(5))
Please provide only one file per
record.

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78

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. •

(Select from

dropdown list - may

need to scroll up) Facikty Name Storage Vessel ID •

(960.5420a(b)(1)(11)

and

§60.5420a(b)(6X1)) Was the storage vessel

constructed, modified of

reconstructed during the

reporting period? •

(§60.5420a(b)(6)(i)) Latitude of Storage

Vessel (Decimal

Degrees to 5 Decimals

Using the Nord)

American Datum of

1983) •

(§60.5420a(b)(6)(1)) I

,

Longitude of Storage

Vessel (Decimal Degrees

to 5 Decimals Using the

North American Datum

of 1983) •

(§60.5420a(b)(6)lill If new affected facility or If

returned to servke during the

reporting period, provide

documentation of the VOC

emission rate determination

according to §60.5365a(e).•

060-5420a(b)(6)(8)) Records of deviations

where the storage vessel

was not operated in

compliance with

requirements •

1960.5420a(b)(6)(111) and

§60,5420a(c)(5)(iii)) Have you met the

requirements

specified in

§60.5410a(h)(2)

and pp*

(§60.5420a(b)(6Xi

v)) Removed from

service during

the reporting

period? •

§60.5420a(bX6,

(v))

25621 constructed (b VOC emission rate >6 tpy No Deviations Yes No 25620 constructed VOC emission rate > 6 tpy No Deviations Yes No 25619 constructed)

VOC emission rate >6 tpy

VOC emission rate' 6 tpy No Deviations

No Deviations Yes

Yes No

No 4044 Goose State 1H Battery 21364 constructed

21370 constructed VOC emission rate > 6 tpy No Deviations Yes No

21365 constructed VOC emission rate >6 tpy No Deviations Yes No

4045 Graham Nash Fed Corn 7H Battery 5N7-01 constructed VOC emission rate > 6 tpy No Deviations Yes No

5N7-02 constructed VOC emission rate > 6 tpy No Deviations Yes No

GN7-03 constructed VOC emission rate > 6 tpy No Deviations Yes No

G N7-04 constructed VOC emission rate > 6 tpy No Deviations Yes No

4046 Gunner 8 Fed 6H & 7H Battery 3227 constructed VOC emission rate > 6 tpy No Deviations Yes No

,

3211 constructed VOC emission rate > 6 tpy No Deviations Yes No

3223 constructed VOC emission rate > 6 tpy No Deviations Yes No

3210 constructed VOC emission rate > 6 tpy No Deviations Yes No

4048 Horned Owl Federal 3H Battery 24512 constructed VOC emission rate' 6 tpy No Deviations Yes No

24513 constructed VOC emission rate > 6 tpy No Deviations Yes No

24511 constructed VOC emission rate, 6 tpy No Deviations Yes No

24500 constructed VOC emission rate' 6 tpy No Deviations Yes No

4049 Ice Dancer 30 Fed Corn 2H Battery 46669 constructed VOC emission rate >6 tpy No Deviations Yes No

46673 constructed VOC emission rate > 6 tpy No Deviations Yes No

46672 constructed VOC emission rate > 6 tpy No Deviations Yes No

46674 constructed VOC emission rate > 6 tpy No Deviations Yes No

79

If removed from

service, the date

removed from service,

060•5420a(b)(6)(v)I Returned to service

during the reporting

period? •

(860.5420a(b)(6)(PiI) If returned to service, the

date returned to service.

•

(860.5420a(b)(6)(W)) Make of Purchased

Device •

(960.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vG(A)) Model of Purchased

Device •

(560.5420a1b)(6)(vii)

and

460.5420a(c)(5)(vi)(A)

I Serial Sumter of

Purchased Device •

(560.5420a(b)(61(vii) and

§60.5420a(c)(5)hilHAD Date of Purchase*

(960.5420a(b)(6)(vii) and

960.5420a(c)(5)(vi)(6)) Latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

North American Datum of

1983) •

(960.5420a(b)(6)(vii) and

960.5420a(c)(5)(vi)(0)) Longitude of Control

Device (Decimal

Degrees tot Decimals

Using the North

American Datum of

1983) •

(960.5420a(b)(6)(vn I

and

9603420a(c)(5)(vi)(D)) inlet Gas Flow Rate •

(960.5420a(b)(6)(vii)

and

960.5422a(cX5)(vi)(E))

Not Applicable Not Applicable Not Applicable Abutec 100 501.46.01 Mar -16 4200

Not Applicable Not Applicable Not Applicable Abutec 100 5014601 Mar -16 4200

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Not Applicable Not Applicable Not Applicable Abutec 100 700150:5 Dec -16 4200

Not Applicable Not Applicable Not Applicable Edge OD/ Apr -17 5200

Not Applicable Not Applicable Not Applicable Edge CXV Apr -17 5200

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Not Applicable Not Applicable Not Applicable Edge CXV CXV-87 Jan -16 5200

Not Applicable Not Applicable Not Applicable Edge CXV ON -8; Jan -16 5200

Not Applicable Not Applicable Not Applicable Edge CXV ON -87 Jan -16 5200

Not Applicable Not Applicable Not Applicable Edge CXV CXV-8 7 Jan -16 5200

80

Please provide the file name that contains the Records of Pilot Flame Present at All Times of Operation * (560.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per record, Please provide the file name that contains the Records of No Visible Emissions Periods Greater Than 1 Minute During Any 15 -Minute Period * (560.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per record, Please provide the file name that contains the Records of Maintenance and Repair Log * (§50.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(3)}

Please provide only one file per record, Please provide the file name that contains the Records of Visible Emissions Test Following Return to Operation From Maintenance/Repair Activity * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(4))

Please provide only one file per record. contains the Records of

Manufacturer's Written

Operating Instructions,

Procedures and Maintenance

Schedule *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(5))

Please provide only one file per

record.

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81

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. •

(Select from

dropdown list - may

need to scroll up) Facility Name Storage Vessel ID •

(460.5420a(b)(1.0)

and

. ;4034208(4(6M) Was the storage vessel

constructed, modified or

reconstructed during the

reporting period? •

(460.5420a(b)(6)(i)) Latitude of Storage

Vessel (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983) •

(§60.5420a(b)(6)(i)) Longitude of Storage

Vessel (Decimal Degrees

to 5 Decimals Using the

North American Datum

of 1983) •

(460.5420a(b)(6)(i)) If new affected facility or if

returned to service during the

reporting period, provide

documentation of the VOC

emission rate determination

according to e60-5365a(e).*

(§60.5420a(b)(6)(i1))_ Records of deviations

where the storage vessel

was not operated in

compliance with

requirements •

1460.5420a(b)(6)(iii) and

460.5420a(c)(5)(iii)) Have you met the

requirements

specified in

§60.5410a(hX2)

and (3)?•

(660.5420a(b)(6)(1

v)) Removed from

service during

the reporting

period? •

1860.5420a(b)(6

(v))

4051 King Air 8 Fed Corn 3H Battery 12220

12224 constructed rVOC emission rates 6 tpy

constructed b VOC emission rate > 6 tpy constructed VOC emission rate > 6 tpy No Deviations No Deviations Yes Yes No No 12211 No Deviations No Deviations No Deviations Yes Yes Yes No No No 12213 constructed VOC emission rate > 6 tpy k

)

constructed VOC emission rate >6 tpy 4052 Lajitas BWQ State Corn 1H Battery 12017

12016 constructed VOC emission rate >6 tpy No Deviations Yes No

12018 constructed VOC emission rate > 6 toy No Deviations Yes No

12019 constructed VOC emission rate, 6 tpy No Deviations Yes No

4053 Lusk Deep Unit A 23H Battery 17133 constructed VOC emission rate > 6 tpy No Deviations Yes No

22191 constructed VOC emission rate > 6 tpy No Deviations Yes No

22180 constructed VOC emission rate >6 tpy No Deviations Yes No

4054 Lusk Deep Unit A 251-i Battery 17099 constructed VOC emission rates 6 tpy No Deviations Yes No

17093 constructed VOC emission rate > 6 tpy No Deviations Yes No

17096 constructed VOC emission rate r 6 tpy No Deviations Yes No

4055 Lychee BWS State Corn 1H Battery 12014 constructed VOC emission rate > 6 tpy No Deviations Yes No

12013 constructed VOC emission rate > 6 tpy No Deviations Yes No

1295 constructed VOC emission rate > 6 tpy No Deviations Yes No

4056 Macho Nacho State Corn 10H Battery 25533 constructed VOC emission rates 6 tpy No Deviations Yes No

25526 constructed VOC emission rates 6 tpy No Deviations Yes No

25538 constructed VOC emission rate > 6 tpy No Deviations Yes No

25221 constructed VOC emission rates 6 tpy No Deviations Yes No

25223 constructed VOC emission rate > 6 tpy No Deviations Yes No

82

If removed from

service, the date

removed from service,

•

(960.5420a(b)(6)(v)) Returned to service

during the reporting

period? •

(460.5420a(b)(61(v4 If returned to service, the

date returned to service.

•

(860.5420a(b)(6)(vi)) Make of Purchased

Device •

(980,54201(b)(6)(vii) and

i60.5420a(c)(5)(viXA)) Model of Purchased

Device •

(860.5420a(b)(6Xvil)

and

§60.54201(c)(5)(vOlAl

) Serial Number of

Purchased Device •

060.5420a(b)(6)(vil) and

460.5420a(c)(5)(vi)(A)) Date of Purchase •

(960.5420a(b)(6)(vii) and

§60.5420a(t)(5)(vi)(RO Latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

North American Datum of

1983) '

(960.5420a(b)(6)(vii) and

460.3420a(c)(5)(vil(D)) Longitude of Control

Device (Decimal

Degrees to 5 Decimals

Using the North

I American Datum of

1983) •

(480.5420a(b)(6)(vii)

and

§60.5420a(c)15)(viXD)) inlet Gas Flow Rate •

(560.5420a(bX6Xvii)

and

560.5420a(c)15HvinE))

Not Applicable Not Applicable Not Applicable Edge ON ON -1E8 Oct -16

I hl (9) 5200 Not Applicable Not Applicable Not Applicable Edge CXV CXV 168 Oct -16 5200 Not Applicable No Applicable Not Applicable Edge CXV CXV 1E8 Oct -16 5200 Not Applicable Not Applicable Not Applicable Edge CXV CXV 1E8 Oct -16 5200 Not Applicable Not Appkcable Not Applicable Edge ON CXV-136 Jun -16 5200 Not Applicable Not Applicable Not Applicable Edge ON CXV-1% Jun -16 5200 Not Applicable Not Applicable Not Applicable Edge CXV ON -1% Jun -16 5200 Not Applicable Not Applicable Not Applicable Edge 0(V CXV-136 Jun -16 5200 Not Applicable Not Applicable Not Applicable Edge ON CXV 89 Feb -16 5200 Not Applicable Not Applicable Not Applicable Edge ON CXV-89 Feb -16 5200 Not Applicable Not Applicable Not Applicable Edge ON CXV-89 Feb -16 5200 Not Applicable Not Applicable Not Applicable Edge ON Aug -16 5200 Not Applicable Not Applicable Not Applicable Edge ON Aug 16 5200 Not Applicable Not Applicable Not Applicable Edge ON Aug 16 5200 Not Applicable Not Applicable Not Applicable Edge ON May -16 5200 Not Applicable Not Applicable Not Applicable Edge ON May46 5200 Not Applicable Not Applicable Not Applicable Edge ON May -16 5200 Not Applicable Not Applicable Not Applicable Abutec 100 May -14 4200 Not Applicable Not Applicable Not Applicable Abutec 100 May -14 4200 Not Applicable Not Applicable Not Applicable Abutec 100 May -14 4200 Not Applicable Not Applicable Not Applicable Abutec 100 May -14 4200 Not Applicable Not Applicable Not Appacable Abutec 100 May -14 4200

83

Please provide the file name that

contains the Records of Pilot

Flame Present at All Times of

Operation * (§60.5420a(b)(6)(vii)

and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per

record, Please provide the file name that

contains the Records of No Visible

Emissions Periods Greater Than 1

Minute During Any 15 -Minute

Period * (560.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per

record, Please provide the file name that

contains the Records of

Maintenance and Repair Log *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vD(F)(3))

Please provide only one file per

record, Please provide the file name that

contains the Records of Visible

Emissions Test Following Return

to Operation From

Maintenance/Repair Activity *

(§60.542.0a(b)(6)(vii) and

460.5420a(c)(5)(vD(F)(4))

Please provide only one file per

record. contains the Records of

Manufacturer's Written

Operating Instructions,

Procedures and Maintenance

Schedule *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vD(F)(5})

Please provide only one file per

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84

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. '

(Select from

dropdown list - may

need to scroll up) Facility Name Storage Vessel ID •

(960.5420a(b)(1)(U)

and

960.5420a(b)(6)(i)) r

Was the storage vessel

constructed, modified or

reconstructed during the

reporting period? •

(560.5420a(b)(6)(1)) Latitude of Storage

Vessel (Decimal longitude of Storage

Degrees to 5 Decimals Vessel (Decimal Degrees

Using the North to 5 Decimals Using the

American Datum of North American Datum

1983) • of 1983) •

(860.5420a(b)(6)(i)) (560.5420a(b)(6)(i)) If new affected facility or if

returned to service during the

reporting period, provide

documentation of the VOC

emission rate determination

according to 960.5365a(e).•

(560.5420a(b)(6)(ii)) Records of deviations

where the storage %rinse!

was not operated in

compliance with

requirements •

(560.5420a(b)(6)(10 and

460.5420a(c)(5)(iii)) Have you met the

requirements

specified in

460.5410a(h)(2)

and (3)?*

(560.5420a(b)(6)ff

v)) Removed from

service during

the reporting

period? •

(460.6420a(b)(61

NO

25233 constructed VOC emission rate >6 tpy No Deviations Yes No

25224 constructed VOC emission rate > 6 tpy No Deviations Yes No

4057 Man State 211 Battery 3115 constructed VOC emission rate >6 tpy No Deviations Yes No

3113 constructed VOC emission rates 6 tpy No Deviations Yes No

3116 constructed VOC emission rate >6 tpy No Deviations Yes No

3117 constructed VOC emission rate >6 tpy No Deviations Yes No

4058 Mas Federal 3H Battery 12210 constructed VOC emission rate > 6 tpy No Deviations Yes No

12205 constructed VOC emission rate > 6 tpy No Deviations Yes No

12212 constructed VOC emission rate > 6 tpy No Deviations Yes No

12209 constructed VOC emission rate > 6 tpy No Deviations Yes No

40.59 Mastiff Federal 311 Battery 11656 constructed VOC emission rate > 6 tpy No Deviations Yes No

11152 constructed VOC emission rate s6 tpy No Deviations Yes No

11657 constructed VOC emission rate > 6 tpy No Deviations Yes No

11565 constructed VOC emission rates 6 tpy No Deviations Yes No

4061 Monet Federal IH Battery 11898 constructed VOC emission rates 6 tpy No Deviations Yes No

11896 constructed VOC emission rate > 6 tpy No Deviations Yes No

11889 constructed VOC emission rate > 6 tpy No Deviations Yes No

11885 constructed VOC emission rate > 6 tpy No Deviations Yes No

4062 Music Master 27 Fed 3H Battery 12204 constructed VOC emission rate > 6 tpy No Deviations Yes No

12203 constructed VOC emission rate > 6 tpy No Deviations Yes No

12208 constructed VOC emission rate > 6 tpy No Deviations Yes No

12216 constructed VOC emission rate > 6 tpy No Deviations Yes No

85

Longitude of Control

Device (Decimal

Latitude of Control Degrees to 5 Decimals

Model of Purchased Device (Decimal Degrees Using the North

If removed from Device • to 5 Decimals Using the American Datum of

service, the date Returned to service If returned to service, the Make of Purchased (§60.5420a(b)(6)011) Serial Nu mser of North American Datum of 1983) • Inlet Gas Flow Rate •

removed from servke during the reporting data returned to service. Device • and Purchased Device • Date of Purchase • 1983) • (960.5420a(b)(6)(vii) (660.5420a(b)(6)(vii)

period?. (860.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(A) (860.5420a(b)(6)(vii) and (560.5420a(b)(6)(vii) and (660.5420a(b)(6)(vii) and and and

(860.5420a(bX6)(v)) j(560.5420a(b)(6)(vi) 1560.5420a(b)(6)(vi)) §60.5420a(c)(5)(vi)(A))) 460.5420a(c)(5)(vi)(A)) §60.5420a(c)(5XviX8)) §60.5420a(c)(5)(ui)(0)) §60.5420a(C)(5)ivil(D)) §60.5420a(c)(5Xvi)(E))

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86

Please provide the file name that contains the Records of Pilot Flame Present at All Times of Operation * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per record, Please provide the file name that contains the Records of No Visible Emissions Periods Greater Than 1 Minute During Any 1S -Minute Period * (§60.5420a(b)(6)(vii) and 460.5420a(c)(5)(vi)(F)121)

Please provide only one file per record, Please provide the file name that contains the Records of Maintenance and Repair Log * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per record, Please provide the file name that contains the Records of Visible Emissions Test Following Return to Operation From Maintenance/Repair Activity " (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(4))

Please provide only one file per record. contains the Records of Manufacturer's Written Operating Instructions, Procedures and Maintenance Schedule * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(5))

Please provide only one file per record.

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87

COG Operating, LIC

NSPS 0000a Annual Report

Storage Vessels

Latitude of Storage if new affected facility or If Records of deviations Have you met the

Vessel (Decimal Longitude of Storage returned to service during the where the storage vessel requirements Removed from

Was the storage vessel Degrees to 5 Decimals Vessel (Decimal Degrees reporting period, provide was not operated in specified in service during

Fadity Record No. • Storage Vessel ID • constructed, modified or Using the North to 5 Decimals Using the documentation of the VOC compliance with 950.5410a(hl(2) the reporting

(select from (460.5420a(b)(1)(ii) reconstructed during the American Datum of North American Datum emission rate determination requirements • and (3)7* period?'

dropdown list- may and reporting period? • 1983)* of 1983) • according to ¢60.5365a(e).• (560.5420a(b)(6)(iii) and (§60.5420a(bX6)(ii (460.5420a(b)(61

need to scroll up) Facility Name 450.54211a(b)(6)(1)) (460.5420a(b)(6)(1)) (980.5420a(b)(61111) (§60.5420a(bX6110) (460.5.420a(b)(6)(1)) A §60.5420a(c)(5)(iii)) v)) i (v))

4063

4064

4068

4072

4075

4076 Myox 5 State Corn 2211 Battery

Myox 6 State Corn 3H Battery

Patron 23 Fed 411 Battery

Populus Federal 3H Battery

Queso State 111 Battery

Queso State 311 & 511 Battery 12200

12202

12201

12027

23090

23105

23106

23091

1388

1391

1393

1387

1468

1466

1467

1464

22367

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86

If removed from

service, the date

removed from service,

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(660.5420a(b)(6)(v)) Returned to service

during the reporting

period? •

1960.5420a(bX6)(vi)) If returned to service, the(

date returned to service.

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Make of Purchased

Device •

(5605420a(b)(6)Ivit) and

§60.5420a(c)(5Xvi)(A)) Model of Purchased

Device •

(560.5420a(b)(6)(vii)

and

460.5420a(c)(5)(vi)(A)

) Serial Number of

Purchased Device ''

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(AX Date of Purchase •

(660.5420a(b)(6)(vii) and

560.5420a(c)(5)(viX8)) Longitude of Control

Device (Decimal

Latitude of Control Degrees to 5 Decimals

Device (Decimal Degrees Using the North

to 5 Decimals Using the American Datum of

North American Datum ot 1983) •

1983)* (§60.5420a(b)(6)(vii)

(460.5420a (b)(6)(vii) and and

§60.5420a(c)(5)(vi)(0)) §60.5420a(c)(5)(vIXD)) Inlet Gas Flow Rate •

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and

§60.5420a(c)(5)(vi)(E))

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89

Please provide the file name that contains the Records of Pilot Flame Present at All Times of Operation * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per record, Please provide the file name that contains the Records of No Visible Emissions Periods Greater Than 1 Minute During Any 15 -Minute Period * (560.5420a(b)(6)(vii) and §60.5420a(c)(5l(vD(F)(2))

Please provide only one file per record, Please provide the file name that contains the Records of Maintenance and Repair log * (560.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per record, Please provide the file name that contains the Records of Visible Emissions Test Following Return to Operation From Maintenance/Repair Activity* (§60.5420a(b)(6)(vii) and §605420a(c)(5)(vi)(F)(4))

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record. contains the Records of

Manufacturer's Written

Operating Instructions,

Procedures and Maintenance

Schedule *

(560.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(5))

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COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

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Vessel (Decimal Longitude of Storage returned to service during the where the storage vessel requirements Removed from

Was the storage vessel Degrees to 5 Decimals Vessel (Decirnal Degrees reporting period, provide was not operated in specified in service during

Facility Record No. • Storage Vessel ID • constructed, modified or Using the North tot Decimals Using the documentation of the VOC compliance with 450.5410a(h)(2) the reporting

(Select from (860.5420a(b)(1)(8) reconstructed during the American Daturr of North American Datum emission rate determination requirements • and (3)?• period? •

dropdown list - may and reporting period? * 1983)' of 1983) • according to 560.5365a(e).• (860.5420a(b)(6)(iii) and (860.5420a(b)(6)(i (560.5420a(b)(6

need to scroll up) Facility Name §60.5420a(b)(6)(i)) (860.5420afb)(5)(i)) 1860-5470014161(1)1

..._ 1460.5420a(b)(6Xi))

11 (860.5420a(b)(6)(11)) 960.5420a(c)(5)(l11)) v1) 10)

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4080

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4082 Raspberry State IH Battery

Red Raider 1315 State 1 Battery

Resolver Fed Cons 2H Battery

Road Runner Fed Corn 1H & 11H Battery

St East 30 Fed 2H Battery 24696

12023

12021

12020

12022

26463

26464

26419

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RR -04

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If removed from

service, the date

removed from service,

•

(460.542043)(6)(M Returned to service

during the reporting

period? •

(960.5420a(b)(6)(vi)) If returned to service, the

date returned to service.

(560.5420a(b)(6)(vi)) Make of Purchased

Device •

(560•5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(A)) Model of Purchased

Device •

(§60.5420a(b)(6)(vii)

and

§60.5420a(c)(5)leil(A)

) Serial Number of

Purchased Device •

(§60.5420a(b)(E Hvii) and

§60,5420a(c)(5)(W)(AD Date of Purchase •

(560.5420a(b)(6)(vii) and

§60•5420a(t)(5)(vi)(B)) Latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

North American Datum of

1983) •

(960.5420a(b)(6)(vii) and

§60.5420a(t)(5)(vi)(D)) Longitude of Control

Device (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983) "

(960,5420a(b)(6)(viI)

and

§60,5420a(c)(5)Ni)(D)) Inlet Gas Flow Rate •

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Please provide the file name that contains the Records of Pilot Flame Present at All Times of Operation * (§60.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per record, Please provide the file name that contains the Records of No Visible Emissions Periods Greater Than 1 Minute During Any 15 -Minute Period * (560.5420a(b)(6)(vii) and §60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per record, Please provide the file name that contains the Records of Maintenance and Repair Loge (460.5420a(b)(6)(vii} and §60.5420a(c)(5)(vi)(F)(3))

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Please provide only one file per record. contains the Records of Manufacturer's Written Operating Instructions, Procedures and Maintenance

Schedule *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(5))

Please provide only one file per

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93

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Latitude of Storage If new affected facility or if Records of deviations Have you met the

Vessel (Decimal longitude of Storage returned to service during the where the storage vessel requirements Removed from

Was the storage vessel Degrees to 5 Decirnals Vessel (Decimal Degrees reporting period, provide was not operated in specified in

. service during

Facility Record No. • Storage Vessel ID • constructed, modified or Using the North to 5 Decimals Using the documentation of the VOC compliance with 460.5410a(h)(2) the reporting

(Select from (460.5420a(b)(1)(Ii) reconstructed during the American Datum of North American Datum emission rate determination requirements • and (3)?• j period? • dropdown list .may and reporting period? • 1983) • of 1983) • according to 460.5365a(e).• (4603420a(b)(6)(idl and 1460.5420a(h)(6)((560.5420a(bX6 need to scroll up) Facility Name §60.5420a(b)(6)(0) (460.5420a(b)(6)(i)) (460.5420a(b)(6)(0) (860.5420a(b)(6)(0) (460.5420a(b)(6)(ii)) 560.5420a(c)(5)08)) v)) (v))

1441 constructed VOC emission rate > 6 tpy No Deviations Yes No

4083 Scooter Fed Corn 2H Battery 3303 constructed VOC emission rate >6 tpy No Deviations Yes No

3305 constructed VOC emission rater 6 tpy No Deviations Yes No

3317 constructed VOC emission rate a 6 spy No Deviations Yes No

3314 constructed VOC emission rate > 6 toy No Deviations Yes No

4084 Screech Owl 013 3152 constructed VOC emission rate >6 tpy No Deviations Yes No

3153 constructed VOC emission rate > 6 tpy No Deviations Yes No

3149 constructed VOC emission rate > 6 spy No Deviations Yes No

3156 constructed VOC emission rate> 6 tpy No Deviations Yes No

4087 Sitka BSI State Corn 1H Battery SKA-01 constructed VOC emission rate > 6 tpy No Deviations Yes No

5KA-02 constructed VOC emission rate >6 tpy No Deviations Yes No

SKA-03 constructed VOC emission rate > 6 tpy No Deviations Yes No

SKA-134 constructed VOC emission rate > 6 tpy No Deviations Yes No

4089 Skull Cap Fed Corn 2211 Battery 1723 constructed VOC emission rate > espy No Deviations Yes No

1719 constructed VOC emission rate a 6 tpy No Deviations Yes No

1721 constructed VOC emission rate >6 tpy No Deviations Yes No

1714 constructed VOC emission rates 6 tpy No Deviations Yes No

4091 Smalls Federal 1H Battery 11895 constructed VOC emission rate S 6 tpy No Deviations Yes No

11981 constructed VOC emission rate >6 tpy No Deviations Yes No

11130 constructed VOC emission rate >6 tpy No Deviations Yes No

11982 constructed VOC emission rate > 6 tpy No Deviations Yes No

4093 Sombrero Fed corn 4H Battery 12937 constructed VOC emission rate >6 tpy No Deviations Yes No

94

If removed from

service, the date

removed from service,

•

(§60.5420a(b)(6)(v)) Returned to service

during the reporting

period? •

(§60.5420a(bX6)(vi) If returned to service, tht

date returned to service.

•

(§60.5420a(b)(6)(vi)) Make of Purchased

Device •

(4605420a(h)(6)(vii) and

460.5420a(c)(5)06)(A)) Model of Purchased

Device •

(960542.0a(b)(6)(vii)

and

§60.9420a(c)(5)(vi)(A)

) Serial Number of

Purchased Device •

(960.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(A)) Date of Purchase'

(960.5420a(b)(5)(e9) and

§60.5420a(c)(5)(vi)(8)1 Latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

North American Datum of

1983).

(960.5420a(b)46)(vii) and

§80.5420a()(5)01)(D)) Longitude of Control

Device (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983)*

(560.5420a(b)(6Xvii)

and

580.5420a(015)fril(D)) inlet Gas Flow Rate •

(§60.5420a(b)(6Xvil)

and

460.5420a(c)(5XvI)(Ell

Not Applicable Not Applicable Not Applicable Edge CXV CXV-94 Feb -165200 i b) (9)1 Not Applicable Not Applicable Not Applicable Abutec 100 Nov 15 4200 4200 4200 Not Applicable Not Applicable Not Applicable Abutec 100 Nov 15 Not Applicable Not Applicable Not Applicable Abutec 100 Nov 15 Not Applicable Not Applicable Not Applicable Abutec 100 Nov -15 4200 Not Applicable Not Applicable Not Applicable Edge ON 0(V-039-2 Jun -16 5200 Not Applicable Not Applicable Not Applicable Edge CXV CXV-039-2 Jun -16 5200 Not Applicable Not Applicable Not Appl cable Edge CXV ON -039.2 Jun -16 5200 Not Applicable Not Applicable Not Applicable Edge CXV ON -039.2 Jun -16 5200 Not Applicable Not Applicable Not Applicable Edge ON CXV-125 May -16 5200 Not Applicable Not Applicable Not Applicable Edge ON CXV-125 May -16 5200 Not Applicable Not Applicable Not Applicable Edge ON ON 125 May -16 5200 Not Applicable Not Applicable Not Applicable Edge CXV ON 125 May -16 5200 Not Applicable Not Applicable Not Applicable VRU in service Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable VRU in service Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable VRU in service Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable VRU in service Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Edge CXV CXV 1111 Apr 16 5200 Not Applicable Not Applicable Not Applicable Edge CXV CXV 118 Apr -16 5290 5200 Not Applicable Not Applicable Not Applicable Edge CXV CXV-118 Apr 16 Not Applicable Not Applicable Not Applicable Edge ON CXV-118 Apr -16 5200 Not Applicable Not Applicable Not Applicable Edge ON CXV-196 5200

95

Please provide the file name that

contains the Records of Pilot

Flame Present at All Times of

Operation * (§60.5420a(b)(6)(vii)

and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per

record, Please provide the file name that

contains the Records of No Visible

Emissions Periods Greater Than 1

Minute During Any 15 -Minute

Period * (§60.54Z0a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per

record. Please provide the file name that

contains the Records of

Maintenance and Repair Log *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per

record, Please provide the file name that

contains the Records of Visible

Emissions Test Following Return

to Operation From

Maintenance/Repair Activity *

(560.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(4))

Please provide only one file per

record. contains the Records of

Manufacturer's Written

Operating Instructions,

Procedures and Maintenance

Schedule *

(560.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(5))

Please provide only one file per

record.

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96

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Facility Record No. •

(Select from

dropdown list - may

need to scroll up) Facility Name Storage Vessel ID •

(660.54200b)(1)(8)

and

660.542044(6W)) Was the storage vessel

constructed, modified or

reconstructed during the

reporting period? •

(660.5420a(b)(6)(I)) Latitude of Storage

Vessel (Decimal Longitude of Storage

Degrees to 5 Decknals Vessel (Decimal Degrees

using the North to 5 Decimals Using the

American Datum of North American Datum

1983) • of 19831 •

(660.5420a(bli61(0) (960.5420a(b)(6)011 If new affected facility or if

returned to service during the

reporting period, provide

documentation of the VOC

emission rate determination

i according to 660.53658(0.*

1660.5420a(b1(6)(0) Records of deviations

where the storage vessel

was not operated in

compliance with

requirements'

(660.5420a(b)(6)(iii) and

660.54200c)(5)(iii)) Have you met the

requirements

specified in

660.5410a(b)(2)

and (3)?•

(660.5420a(b)(6))i

0) Removed from

service during

the reporting

period? •

(660.5420a(b)(6

(v))

..,....--

12934 constructed VOC emission rate >6 tpy No Deviations Yes No

12935 constructed VOC emission rates 6 tpy NO Deviations Yes No

12217 constructed VOC emission rate > 6 tpy No Deviations Yes No

4094 Spruce Goose Fed Corn 3H Battery 1659 constructed VOC emission rate > 6 tpy No Deviations Yes No

1662 constructed VOC emission rate > 6 tpy ...

No Deviations Yes No

1664 constructed VOC emission rate > 6 tpy No Deviations Yes No

1666 constructed VOC emission rate > 6 tpy No Deviations Yes No

4095 Stealth Fed Corn 4H Battery 1690 constructed VOC emission rate >6 tpy No Deviations Yes No

12313 constructed VOC emission rate >6 tpy No Deviations Yes No

12207 constructed VOC emission rate > 6 tpy No Deviations Yes No

91741 constructed VOC emission rate >6 tpy No Deviations Yes No

4096 Stove Pipe Fed Corn 211 Battery 11562 constructed VOC emission rate >6 tpy No Deviations Yes No

11659 constructed VOC emission rate > 6 tpy No Deviations Yes No

11.566 constructed VOC emission rate >6 tpy No Deviations Yes No

11660 constructed VOC emission rate >6 tpy No Deviations Yes No

4099 Stratosphere 36 State Corn 3H Battery 46251 constructed VOC emission rate > 6 tpy No Deviations Yes No

46196 constructed ,

VOC emission rate >6 tpy No Deviations Yes No

46208 constructed VOC emission rate' 6 toy No Deviations Yes No

46207 constructed VOC emission rate > 6 tpy No Deviations Yes No

4100 Switchback State 21H Battery 12225 constructed VOC emission rate > 6 tpy No Deviations Yes No

12206 constructed VOC emission rate > 6 tpy No Deviations Yes No

12214 constructed VOC emission rate, 6 tpy No Deviations Yes No

97

If removed from

service, the date

removed from service.

•

080.542049)X6Xvp Returned to service

during the reporting

period? •

(560.5420a(b)(6)(vi) If returned to service, the

date returned to service.

•

(§60.5420a(bX6)(vi)) Make of Purchased

Device •

(§60.5420a(b)(6)(v6) and

46o.5420a(c)15101101) Model of Purchased

Device •

(§60.5420a(b)(6)(vii)

and

§60.5420a(c)(5)(vi)(A)

I Serial Number of

Purchased Device •

(§60.5420a(b)(6)(vil) and

§60.5420a(c)(5)IvillAll Date of Purchase *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(6)) Latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

orth American Datum.

1983) •

(§60.5420a(b)(6)(v11) and

§60.5420a(c)(5)(vi)(D)) Longitude of Control

Device (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

19113) •

(§60.5420a(b)(6)(vii)

and

§605420a(c)(5)(vIXD)) Inlet Gas Plow Rate •

(§60.5420a(b)(6)(vii)

and

§60.5420a(c)(5)(vi)(E))

Not Applicable Not Applicable Not Applicable Edge ON ON -196 I 5200

Not Applicable Not Applicable Not Applicable Edge CXV CXV-196 5200

Not Applicable Not Applicable Not Applicable Edge CXV CXV-196 5200

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Not Applicable Not Applicable Not Applicable Edge CXV CXV-148 Aug -16 5200

No Applicable Not Applicable Not Applicable Edge CXV ON 146 Aug -16 5200

Not Applicable Not Applicable Not Applicable Edge CXV ON 148 Aug -16 5200

Not Applicable Not Applicable Not Applicable Edge CXV ON -173 Oct -16 5200

Not Applicable Not Applicable Not Applicable Edge ON CXV-171 Oct -16 5200

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98

Please provide the file name that

contains the Records of Pilot

Flame Present at All Times of

Operation • (§60.5420a(b)(6)(vii)

and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per

record, Please provide the file name that

contains the Records of No Visible

Emissions Periods Greater Than 1

Minute During Any 15 -Minute

Period * (560.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(2))

Please provide only one file per

record, Please provide the file name that

contains the Records of

Maintenance and Repair Log *

(§60.5420a(b)(6)(vii) and

460.5420a(c)(5)(vi)(F)(3))

Please provide only one file per

record, Please provide the file name that

contains the Records of Visible

Emissions Test Following Return

to Operation From

Maintenance/Repair Activity •

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(4))

Please provide only one file per

record. contains the Records of

Manufacturer's Written

Operating Instructions,

Procedures and Maintenance

Schedule *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi}(F)(S))

Please provide only one file per

record.

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99

COG Operating, LLC

NSPS 0000a Annual Report

Storage Vessels

Latitude of Storage If new affected facility or if Records of deviations Have you met the

Vessel (Decimal Longitude of Storage returned to service during the where the storage vessel requirements Removed from

Was the storage vessel Degrees to 5 Decinab Vessel (Decimal Degrees reporting period, provide was not operated in specified in service during

Facility Record No. • Storage Vessel ID • constructed, modified or Using the North to 5 Decimals Using the documentation of the VOC compliance with 960.5410a(h)(2) the reporting

(Select from (960.5420a(bX1)(1) reconstructed during the American Datum of North American Datum emission rate determination requirements • and (3)?• period? •

dropdown list - may and reporting period? • 1983) • of 1983) • according to 960.5365a(e)." (460.5420a(b)(6)00) and 1960.542000H6)(i 1960.5420a(b)(6I

need to scroll up) Facility Name 960.5420a(b)(6)(i)) (160.5420014(6)19) (460-5420•011(6110/ 060-54204(b)(6)101 060.5420a(bX6)(10) 960.5420a(c)(5)(ii)) v)) (v))

4102

4103

4104

4105

4106 Tynan Fee 1H Battery

Vast State 2H Battery

Viking Helmet State Corn 2H Battery

Warbler State Corn 2Y Battery

West Pearl 36 CTB 12218

21172

21173

21171

1556

1541

1565

1547

11991

11993

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11987

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100

II removed from

service, the date

removed from service,

•

060.5420a(b)(6)(v)) Returned to service

during the reporting

period? •

1§60.5420a(b)(6)(vi)l If returned to service, the

date returned to service.

(560.5420a(b)(6)(vi)) Make of Purchased

Device •

(960.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(A)) Model of Purchased

Device •

(960.5420a(b)(6)(vii)

and

560.5420a(c)15Hvil(A)

) Serial Number of

Purchased Device'

(660.54200(b)(E)(vii) and

§60.5420a(c)(!)(vi)(A)) Date of Purchase •

(960.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(8)) Latitude of Control

Device (Decimal Degrees

to 5 Decimals Using the

North American Datum of

1983) •

(560.5420a(b)(6)(vd) and

§60.5420a(c)(5)(vi)(D)) Longitude of Control

Device (Decimal

Degrees to 5 Decimals

Using the North

American Datum of

1983) •

060.5420a(b)(6)(vii)

and

§60.5420a(c)(5)(vi)(0)) Inlet G35 Flow nate •

(560.5420a(b)(6)(vii)

and

560.5420a(c)(5)(vi)(E))

Not Applicable Not Applicable Not Applicable Edge CXV ON 215 5200

4200 Not Applicable Not Applicable Not Applicable Abutec 100 20015.C1 Dec -13

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.7200 Not Applicable Not Applicable Not Applicable Abutec 100 20015.C1 Dec -13

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Not Applicable Not Applicable Not Applicable Edge ON (NV -067-2 Aug -15 5200

101

Please provide the file name that

contains the Records of Pilot

Flame Present at All Times of

Operation * (§60.5420a(b)(6)(vii)

and §60.5420a(c)(5)(vi)(F)(1))

Please provide only one file per

record, Please provide the file name that

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Emissions Periods Greater Than 1

Minute During Any 15 -Minute

Period * (§60.5420a(b)(S)(vii) and

§60.5410a(c)(5)(vi)(F)(2})

Please provide only one file per

record, Please provide the file name that

contains the Records of

Maintenance and Repair Log *

(§60.5420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(3))

Please provide only one file per

record, Please provide the file name that

contains the Records of Visible

Emissions Test Following Return

to Operation From

Maintenance/Repair Activity •

(§605420a(b)(6)(vii) and

§60.5420a(c)(5)(vi)(F)(4))

Please provide only one file per

record. contains the Records of

Manufacturer's Written

Operating Instructions,

Procedures and Maintenance

Schedule *

(§60.5420a(b)(6)(vii) and

§60.542.0a(c)(5)(vi)(F)(5))

Please provide only one file per

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102

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

, Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdcnvn list - Date of Survey • Time • Time * Surveyor • During Survey • During Survey • Survey • none.) • Detected " Detected •

may need to Identification of Each Affected (560.5420a(b)(7)1 (860.5420a(b)(7)((N60.5420a(b) 460.5420a(b)(7) N60.5420a(b)(7) (560.5420a(b)(7) (Nb0.5420a(b)(7) Monitoring Instrument Used • (N60.5420a(b)(7)1 (860.5420a(b)(7) (§60.5420a(b)(7)

scroN up) Facility • (560.5420a(b)(1)) 0) 1)) (7)(8)) iii)) iv))

1 iv)) iv)) (860.5420a(b)(7)(v)) vi)) alin vii))

I

4001 Admiral Federal Corn 2H Battery 03/08/2017 11:30 12:30 60°F Clear SE 3 MPH Opgal EyeCGas OGI Camera None N/A N/A

4001 Admiral Federal Corn 2H Battery 07/26/2017 17:15 12.45 9rF Partly Cloudy SE 8 MPH Opgal EyeCGas OGI Camera None N/A N/A

3001 Aldrin 2822H Tank Battery 05/18/2017 1300 14:00 807 Clear S 12 MPH Opgal EyeC.Gas 001 Camera None N/A N/A

3002 Armstrong 2824H Tank Battery 05/18/2017 12:00 13:00 78°F Clear Sit. MPH Opgal EyeCGas 001 Camera None N/A N/A

3003 Augustus 1023H Battery 05/18/2017 14:00 15:00 82°F Clear S 14 MPH Opgal EyeCGas 001 Camera None N/A N/A

4002 Azores Federal 311 Battery 03/31/2017 09:45 10:28 70'F Clear S 12 MPH Opgal EyeCGas 001 Camera None N/A N/A

103

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h) * Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(560.5420a(b)(7)((§60.5420a(b)(7)((560.5420a(b)(7)l (§6C1.5420a(b)(7)1 (§60.5420a(b)(7)) (§60.5420a(b)(7)I (560.5420a(b)(7)I (§60.5420a(b)(7)) (§60.5420a(b)(7) (§60.5420a(b)(7)1 (§60.5420a(b)(7)I Training and Experience of viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIP

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

.....

Guardian Compliance LDAR

training and certification, FLIP

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, RIR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIP

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

104

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

Ambient maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey • none.) • Detected • Detected •

may need to Identification of Each Affected (9605420a(b)(7)1 §60.5420a(b)(7)((§60.5420a(b) (960.5420a(b)(7) (660.5420a(b:(7)((960.5420a(b)(7) (960.5420a(b)(7)(Monitoring Instrument Used • (960.5420a(b)(7) (§60.5420a(b)(7) (660.5420a(b)(7)

scroll up) Facility • (960.5420AM)) i)) ill MOH iii)) la)) iv)) iv)) (960.5420a(b)(7)(v)) vi)) vii))

I_ vii))

Banter State Corn 4H Battery 03/01/2017 13:04 13:50 66*F Partly Cloudy NE 7 MPH Opgal EyeCGasOGI Camera None N/A N/A

4003 Banter State Corn 4H Battery 07/27/2017 76"F Partly Cloudy SSE 8 MPH Opgal EyeCGas OGI Camera None N/A

3004 Barstow 33-33 1H 2H Bette

3005 Barstow A 36-52H Batleoy 60'F Partly Cloudy SW 8 MPH Opgal EyeCGas OGI Camera A

07/11/2017 14.00 1500 97'F Partly Cloudy E 17 MPH Opgal EyeCGas 001 Camera None

4004 Beech 25 Federal 9H Battery 01/10/2017 16:45 27:25 Party Cloudy WSW 15 MPH Opgal EyeCGas 001 Camera

4004 Beech 25 Federal 9H Battery 06/25/2017 Or:.3O 07:00 73'F Partly Cloudy SE 14 MPH Opgal EyeCGas OGI Camera None

ICS

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey*

(§60.5420a(b)(7)I (§60•5420a(b)n (§60.5420a(b)(7)((§60.542043)(7)I (§60.5420a(b)(7)l (§60.5420a)b)(7)((§60.5420a(b)(7)1 (§60.5420a(b))7)C (§60.5420a(b)(7)I (§60.5420a(b)(7)I (§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (560.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

106

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperatura Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey " Time ' Time • Surveyor ' During Survey • During Survey • Survey • none.) ' Detected • Detected •

may need to Identification of Each Affected (460.5420a(b)(7)((§60.5420a(b)(7)((460.5420a (b) (560.5420a(b)(/)((460.5420a(b)7)1 (460.5420a(b)(7)I (§605420a(b)(7)(Monitoring Instrument Used • (460.5420a (b)(7)((560.5420a(b)(7)I (460.5420a(6)(7)(scroll up) Facility .1460.5420a(b)(1)) 0) 0) (7)00) iii)) iv)) iv)) Iv)) (§60.5420a(b)(7)(v)) Vi)) vii)) vii))

Big Chief 46 02/20/2017 09'13 :0)5 E,','", Partly cloudy SW 11 MPH Opgal EyeCGas OGI Camera ,

Bog Chief 46 07/10/2017 13 30 14:70 94*F Partly Cloudy _

SE 11 MPH Opgal EyeCGas OGI Camera sore N/A

Blue Jay Federal 1H Battery 01/12/2017 1205 .59F

93'F Part!. Cloudy

Clear SSW 9 MPH

SE OOMPH Opgal EyeCGas OGI Camera

Opgal EyeCGas OGI Camera None

None N/A

N/A N/A

N/A -

B lue lay Federal 1H Battery 06/27/2017 16.30

4110E Bone Yard 11 Fee 12H 01/10/2017 15:53 lE -I-. Partly Cloudy WSW 6 MPH Opgal EyeCGas OGI Camera None N/A N/A

4006 Bone Yard 11 Fee 12H 06/26/2017 06:45 _

07.15 Cloudy E 13 MPH Opgal EyeCGas OGI Camera None N/A N/A

107

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored a Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(560.5420a(b)(7)((§60.5420a(b)(7)((560.5420a(b)(7)((§60.5420a(b)(7)I (860.5420a(b)(7)f (§60.5420a(b)(7)1 (560.5420a(b)(7) (560.5420a(b)(7)((560.5420a(b)(7)((860.5420a(b)(7)((§60.5420a(b)(7)1 Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

_

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5* years experience

108

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record I Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list- I Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey • none.) • Detected • Detected •

may need to Identification of Each Affected (960.5420a(b)(7) (9605420a(b)(7)((460.5420a(b) (k60.5420a(b)(7)11 (¢60.5420a(b)(7)4 (§60.5420a(b)(7)(§60,5420a(b)(7 Monitoring Instrument Used * 560.5420a(b)(7) ¢60.5020a(b)(7) 460.5420a(b)(7)

scroll up) Facility • (560.5420a(b)(1)) i)) il) (7Xii)) Hi)) iv)) iv)) iv)/ I (560.5420a(bX7)(v)) vi)) vii)) vii))

4007

4007

4008

4008

4009

4010 Boone 16 State Corn 211 Battery

Boone 16 State Corn 2H Battery

Bose lkard 4 State Corn 1SH

Bose I kard 4 State Corn 181-1

Bradley 8 Fee 2H

Bradley 8 Fee 3H 03/03/2017

07/02/2017

10/20/2016

06/25/2017

06/26/2017

01/09/2017 14:30

16:00

12:31

09:00

07:30

14:52 15:22

16:30

13:20

09:30

D8:00

15:41 58'F

92'F

61°F

74*F

70'F

757 Clear

Clear

Partly Cloudy

Partly Cloudy

Partly Cloudy

Clear SSE 15 MPH

SSE 12 MPH

NNE 11 MPH

SE 17 MPH

E 9 MPH

SW is MPH Opgal EyeCGas 001 Camera

Opgal EyeCGas OGI Camera

Opgal Eye:Gas OGI Camera

Opgal EyeCGas OGI Camera

Opgal EyeCGas 001 Camera

Opgal EyeCGas OGI Camera None

None

None

None

None

None N/A

N/A

N/A

N/A

N/A N/A

N/A

N/A

N/A

N A

10CA

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

060.5420a(b)(7)(1460.5420alb)Ml 060.5420a(b)(7)1 (56054204)117H (§60.5420431011 (§60.5420a(b)(7)(060.5420a(b)(7)1 (§60.5420a(b)(7)l (§60.5420a(b)(7)((§60.5420a(b)(7)) (§60.5420a(b)(7)l Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xi)) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

110

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

INumber of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begirt Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list- Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey • none.) • Detected • Detected •

may need to Identification of Each Affected (460.5420a(b)(7) (S60.5420a(b)(7)((§60.5420a(b) (460.5420a(b)(7) (460.5420*PN (§60.5420a(b)(7)1 (§60.5420a(b)(7) Monitoring Instrument Used • (060.5420a(b)(7)I (460.5420a(b)(7)(11560.5420:011711

scroll up) i Facility *1§60.5420a(b)(1)) il) ill (Min) iii)) iv)) iv)) iv)) (460.5420a(b)(7Xv)) vi)) Win vii))

4010 Bradley 8 Fee 3H 06/26/2017 08:15 08:45 717 Partly Cloudy E 9 MPH Opgal EyeCGas OGI Camera None N/A N/A

4011 Bra nex-COG Federal 11 Battery 10/18/2016 10:30 11:23 66*F Partly Cloudy NW 10 MPH Opgal EyeCGas OGI Camera _

None N/A N/A

4011 Branex-COG Federal II Battery 06/26/2017 1700 17:30 817 Partly Cloudy ESE 11 MPH Opgal EyeCGas 001 Camera None N/A N/A

4012 Broadcaster 29 Federal 3H

- 07/27/2017 07:30 08:00 827 Partly Cloudy SSE 11 MPH Opgal EyeCGas 001 Camera None N/A N/A

3007 Bronze 6-15 1H Battery 03/21/2017 08:00 09:00 607 Partly Cloudy CALM Opgal EyeCGas 001 Camera -

None N/A N/A

4013 Bultaco State 1H Battery 03/31/2017 10:45 11:30 741 Clear S 14 MPH Opgal EyeCGas 001 Camera None N/A N/A

111

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5420a(b)(7)((§60.5420a(b)(7)) (§60-5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7) (§60.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.S420a(b)(7)((§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix))

i ix)) x))

t xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance WAR

training and certification, FUR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance WAR

training and certification, FUR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

112

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey ' Time • Time • Surveyor • During Survey • During Survey • Survey • none.) • Detected ' Detected •

may need to Identification of Each Affected (360.5420a(b)(7) (360.5420a(b)(/)((360,5420a(b) (360.5420a1b)(7) (360.5420a(bI(7) (360.54203(b)(1) (360.5420a(b)(7)(Monitoring Instrument Used • (360.5420a(b)17)I (360.5420a(b)(7)((k60.5420a(b)(7)

scroll up) Facility ' (360.5420a(b)(1)) ill

i 01 MOW iii))

I iv)) iv))

i iv)) (560:5420a(b)(7)(v)) vi)) vii)) vii))

Burch Keely Unit 13A 04/04/2017 MOO 11:00 67°F Partly Cloudy W18 MPH Opgal EyeCGas OGI Camera None NIA NJ;:

4015 EL,,s1 KeV ly ..,'n it 13C 10/113/2016 15:25 16.33 721F Partly Cloudy NNW 12 MPH Opgal EyeCGas OGI Camera None N," I NiA

cols Burch Keely Unit 13C 06/25/2017 10.45 11:15 81'E Partly Cloudy SE 15 MPH Opgal EyeCGas OGI Camera -

4016 Burch Kee)/ Unit 18A 10/18/2016 14:18 15:23 3.'r,"F Partly Cloudy NNW 13 MPH Opgal EyeCGas OGI Camera I.

4016 Burch Keely Unit 18A 12:15 12:45 83°F Partly Cloudy SE 16 MPH Opgal EyeCGas 061 Camera Non,

4017 Burch Keely Unit 23A .77q7 14:02 14.48 3 I ' F L1'333 S12 MPH Opgal EyeCGas OGI Camera None N/A N/A

113

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored x Monitored x Monitored * Component *

of Repair * of Repair * Delay of Repair * Original Survey*

(560.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7)I
(§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)1 (§60.5420a(b)(7)
(§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor *
(§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

114

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperatu-e Sky Conditions Speed During
(If none, state Emissions Emissions

dropdown list- Date of Survey • Time • Time ' Surveyor • During Survey • During Survey

• Survey • none.) • Detected ' Detected •

may need to Identification of Each Affected (560.5420a (b)(7)) (560.54200(b)(7)((660.5420a(b) (660.5420a(b)(7); (960.5420a(bi(/) (660.5420a(b)(7)((560.5420a(b)(7) Monitoring Instrument Used • (660.5420a(b)(7)r (660.5420a(b)(7) (960.5420a(b)(7)(

scroll up) Facility • (660.5420a(h)(1)) 0) 4) (716i)) iii)) iv)) iv)) iv)) (460.5420a(b)(7)(v)) vi)) vii)) vii))

40:7

4013

4018

4019

4019

4020 Burch Keely Unit 23A

Cabo Blanco State Battery

Cabo Blanco State Battery

Cadillac 15 State 414

Cadillac 15 State 4H

Call Roll 24 Federal Corn 214

Battery 06/25/2017

02/28/2017

07/27/2017

02/11/2017

06/21/2017

04/11/2017 1_10

12:40

er7-1`,

11:10

011:00

06:30 10,30

37

13

11:4F;

OB:30

07:30 77-F

74'F

47'F Cloudy

Partly Cloudy

1,1

Partly Cloudy

Partly Cloudy SSW 19 MPH

SF 7 MPH

SW 11 MPH

SE 15 MPH

E 6 MPH Opgal EyeCGas OGI Camera

Opgal EyeCGas 001 Camera

Opgal EyeCGas 001 Camera

Opgal EyeCGas OGI Camera

Opgal EyeCGas 001 Camera

Opgal EyeCGas 001 Camera None

Sore

None

None

None

None N/A

N/

N/A N/A

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

460.5397a(h) • 60.5397a(h)* Monitored • Monitored * Monitored * Monitored * Component* of Repair * of Repair * Delay of Repair * Original Survey *

N60342043)(7)1 (§60.5420a(b)(7)1 (§60.5420a(b)(7)((46054200W) (§60.5420a(b)(7)l (§605420a(b)(7)((§60.5420a(b)(7)I (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)t (§60.5420a(b)(7) Training and Experience of

viii)) viii)) ix)) ix))

I ix)) ix)) x)) xi)) xi)) xi))

_ xii)) Surveyor * (§60.5420a(b)(7)(iii))

-

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

116

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

i r

I) I

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list- Date of Survey • lime • Time • Surveyor • During Survey * During Survey • Survey • none.) • Detected • Detected •

may need to Identification of Eadi Affected)460.5420a(b)(7)1 (160.5420a(b)(7)((460.5420a(b) (460.5420a(b)(7)((460.5420a(b)(7K (b60.5420a(b)(7) (560.5420a(b)(7)(Monitoring Instrument Used • (§60.5420a(b)(7) (660.5420a(b)(7) (660.5420a(b)(7)1

scroll up) Facility • (460.5420a(b)(1)) In ill (7)(ii)) Ili)) iv)) ' iv)) iv)) (460.54201)b)(7P)) vi)) vii)) vii))

4021 Carmen 3 Federal 1H Battery 06/25/2017 14 -:: 1-1',IC 87"F Partly Cloudy SE 14 MPH Opgal EyeCGas 001 Camera None N/A N/A

3008 Carpenter C Unit 203H Battery 05/18/2G17 10 OC 74"F Clear S 8 MPH Opgal EyeCGas OGICamera None N/A N/A

3009 Carpenter E Unit 223H Battery 05/23/2017 r L 13:30 70"F Partly Cloudy NNE 16 MPH Opgal EyeCGas OG I Camera None N/A N/A

4022 CCAP State Corn 6H Battery 03/08/2017 07:00 n300 ,rF Clear W 5 MPH Opgal EyeCGas OGI Camera None N/A N/A

4022 CCAP State Com 6H Battery 07/26/2017 08:00 08:30 85*F Partly Cloudy SSE 10 MPH Opgal EyeCGas OGI Camera None Valve 1

3010 Chief Pinkie Battery 05/31/2017 10:00 11:00 Partly Cloudy ESE 10 MPH Ousel EyeCGas 001 Camera None N/A N/A

117

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

660.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair • Delay of Repair * Original Survey *

1660.542043)(7)) (560.5420a(b)(7)I (§60.5420a(b)(7) (660.5420a(b)(7)I (660.5420a(b)(7)I (660.6420a(b)(7)) (660.5420a(b)(7) (660.5420a(b)(7)I (660.5420a(b)(7)((§60.5420a(b)(7)((660.5420a(b)(7) Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x))

1 xi)) xi)) xi)) xii)) Surveyor * (560.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIP

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance WAR

training and certification, RIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance WAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIP

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A 07/28/2017 N/A N/A N/A al EyeCGas OGI Ca 5+ years experience

Guardian Compliance LDAR

training and certification, FLIP

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

118

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

1

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey . none.) • Detected • Detected •

may need to Identification of Each Affected (960.5420a(b)(7)l (460.5420a(b)(7)((§60.5420a(b) (¢60.5420a(b)(7)1 (960.5420a(b)(7), (960.5420a(b)(7)i (§60.5420a(b)(7)1 Monitoring Instrument Used 460.5420a(b)(7) (§60.5420a(b)(7) i460.5420a(b)(7)

scroll up) Facility • (560.5420a(b)(1)) i)) i)) IMO) iii)) iv)) iv)) iv)) (§60.5420a(b)(7)(v)) vi)) vii)) vii))

4023 Chopper State Corn 311 Battery 03/08/2017 08:00 09:00 4 : - Clear N 4 MPH Opgal EyeCGas OGI Camera None N/A N/A

4023 Chopper State Com 3H Battery 07/26/2017 09:30 10:00 89"F Partly Cloudy SSE 8 MPH Opgal EyeCGas OGI Camera None N/A N/A

3011 Chrome 33-395 Battery 05/09/2017 09:30...,:i

. Ei 0 '

Clear SSE 7 MPH Opgal EyeCGas OGI Camera Norse N/A N/A

3012 Chute Buster 604H Battery 05/18/2017 15:00 : 4 .' ri .2-4 F Clear ....

S14 MPH Opgal EyeCGas OGI Camera None N/A N/A

3013 Cimarron Battery 03/07/2017 11:36 1 61F Partly Cloudy NE 7 MPH Opgal EyeCGas OGI Camera None •

N/A N/A

4024 Clydesdale 1 Fee 6H 01/09/2017 15-55 16:41 79°F Partly Cloudy SW 17 MPH Opgal EyeCGas OGI Camera •

None •

N/A N/A

119

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions

Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5420a(b)(7)f (§60-5420a(b)(7)) (§60.5420a(b)(7)l (§60.5420a(b)(7) (§60.5420a(b)(7)((§60.5420a(b)(7)I (§60.5420a(b)(7)1 (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)I (§60.5420a(b)(7) Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance WAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

120

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

I

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor • During Survey' During Survey • Survey • none.) • Detected • Detected •

may need to Identification of Each Affected (N60.5420a(b)(7)I (N60.5420a(b)(7)1 (960.5420a(b) (860.5420a(b)(7) (460.5420a(bX7N (860.5420a(b)(7) (460.5420a(b)(7)1 Monitoring Instrument Used • 060-5420a(b)(7)0(460.5420a(b)(7) (860.5420a(b)17)

scroN up). Facility • (860.5420a(b)(1)) Ill j in (7118)1 ii)) iv)) iv)) iv)) (N60.5420a(b)(7)(v)) vi)) vii)) vii))

4024 Clydesdale 1 Fee 61-1 06/26/2017 09:00 09:30 59'F Partly Cloudy ESE 7 MPH Opgal EyeCGas OGI Camera None N/A N/A

4025 Columbus Fee 2H Battery 04/11/2017 11:S0 1233 69'F Partly Cloudy E 12 MPH Opgal EyeCGas OGI Camera None N/A N/A

4026 Cookie Tosser State Corn 1H

Battery 03/14/2017 1210 13:15 3C -F Clear WSW 4MPH Opgal EyeCGas OGI Camera None N/A N/A

4027 Cookie Tosser State Corn 2H

Battery 03/14/2017 13:22 141' 80°F Clear WSW 4MPH Opgal EyeCGas OGI Camera None N/A N/A

4028 Copperhead 31 Federal Com 3H

Battery 05/06/2017 12:00 13:00

4029 Cottonmouth 23 Federal Corn 2H 03/07/2017 17:00 18:00 697 Partly Cloudy E 8 MPH Opgal EyeCGas 001 Camera None N/A N/A

677 Partly Cloudy SSE 10 MPH Opgal EyeCGas OGI Camera None N/A N/A

121

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

q60.5397a(h)* 60.5397a(h) * Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair ' Original Survey *

(460.5420a(b)(7)((§60.5420a(b)(7) (460.5420a(b)(7){ (§60.5420a(b)(7)1 (560.5420a(b)(7)((§60.5420a(b)(7)1 (§60.5420a(h)(7)1 (§60.5420a(b)(7){ (§60.5420a(b)(7)) (560.5420a(b)(7)1 (q60.5420a(b)(7) Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (q60.5420a(b)(7)(iii))

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIP

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIP

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIP

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIP

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance WAR

training and certification, FUR

Quad Oa training and certification,

5+ years experience

122

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Milne of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdcnvn list- Date of Survey' Time' Time • Surveyor ' During Survey • During Survey • Survey' none.) • Detected • Detected •

may need to Identification of Each Affected (360.5420a(b)(7)((450.5420a(b)(7)((960.5420a(b) I560.5420a(b)(7) (360.5420a(b)(7)((960.5420a(b)(7) (§60.5420a(b)(71 Mondoring Instrument Used ° (460.5420a(b)(711 (360.5420a(b)(7) (§60.54200(b)(7)t

scroll up) Facility • (§60.5420a(b)(1)) ill if) (7)(ii)) iii))

i iv)) iv)) iv)) (§60.5420a(b)(7)(v)) vi)) vii)) vii))

4030 Crapshoot Federal 2H Battery 05/01/2017 13:30 14:30 78°F Clear NNW 13 MPH Opgal EyeCGas OGI Camera r.

Diamondback 22 State Cam SH

4031 Battery 03/07/2017 1.6.0E 17:D0 6ErF Perth/ Cloudy SSE 9 MPH Opgal EyeCGas OGI Camera

4042 Dodd Federal Unit 10B Battery 05/01/2017 16:00 17 •.);. 82*F Clear W 10 MPH Opgal EyeCGas OGI Camera Ncre VA VA

4033 Dodd Federal Unit 14A Battery 02/11/2017 09:33 10.1:1 777 Clear SW 7 MPH Opgal EyeCGas OGI Camera None N /74 N/A

4033 Dodd Federal Unit 144 Battery 06/25/2017 11 82F Partt Cloo4v SC 15 MPH Opgal EyeCGas OGI Camera None 1

4034 Dodd Federal Unit 154 Battery 05/01/2017 IS O.: T I, 0 7 Inv NW 13 MPH Opgal EyeCGas 001 Camera None WA

123

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§603397a(h)* 60,5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey •

1§60.5420a(b)(7)1 (§60.5420a(b)(2)l (§60.5420a(b)(7)l (§60.5420a(b)(7)1 (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)i (§603420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)) (§60.5420a(b)(7) Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

124

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, gate Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor • During Surve) • During Survey • Survey • none.) • Detected • Detected •

may need to Identification of Each Affected (960.5420a(b)(7) (960.5420a(b)(7)(1 (960.5420a(b) (960.5420a(b)(7)1 (§60.5420a(b)(7)I (960.5420a(b)(7) (960.5420a(b)(7)I Monitoring Instrument Used • (§60.5420a(b)(7)((§60.5420a(b)(7)§1(960.5420a(b)(7)I

scroll up) Facility • (960.5420a(b)(1)) ill 0) (7)(6)) iii)) iv)) iv)) iv)) 1460.5420a(b)(7)(v)) Al vii)) vii))

3014 DR State Central 1213H Battery 05/18/2017 16:00 1700 867 Clear S 15 MPH I

Opgal EyeCGas OGI Camera ,

None N/A N/A

3015 DR State Central 2501H Battery 05/18/2017 17:00 18:00 867 Clear S 14 MPH _

Opgal EyeCGas OGI Camera None N/A N/A

3070 DR State East 3028H Battery 05/25/2017 09:30 10:30 827 Partly Cloudy WSW 15 MPH Opgal EyeCGas OGI Camera ,

None ,

N/A N/A

3016 DR State East 3428 Battery 05/25/2017 10:00 11:00 867 Partly Cloudy WSW 11 MPH Opgal EyeCGas 061 Camera None .

N/A N/A

4035 Eata Fajita State 9H & 10H Battery 02/28t0017 10:02 10:53 697 Partly Cloudy SSW 11 MPH Opgal EyeCGas OGI Camera None .

N/A N/A

4035 Eata Fajita State 9H & 10H Battery 07/27/2017 10:30 10:00 907 Partly Cloudy 5 10 MPH Opgal EyeCGas 061 Camera None Valve 1

125

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -

to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

460.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5420a(b)(7)1 (460.5420a(b)(7)((§60.5420a(b)(7)((§60-5420a(b)(7) (§60.5420a(b)(7)1 (§60.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7)1 (§60.5420a(b)(7)((§60.5420a(b)(7)1 (§60.5420a(b)(7) Training and Experience of

viii)) viii)) ix)) ix))

t ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A 08/01/2017 N/A N/A N/A EyeCGas OGI Ca Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

126

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

IINumber

of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown Est- Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey • none.) • Detected' Detected'

may need to Identification of Each Affected (§60.5420a(b)(7)1(960-5420a(b)(7)((§60.5420a(b)f (960.5420a(b)(7)((560.5420a(bX7)1 (460.5420a(b)(7) (§60.5420a(b)(7)1 Monitoring Instrument Used • (§60.5420a(b)(7)t (560.5420a(b)(7) (§60.5420a(b)(7)(

scroll up) Facility • (§60.5420a(b)(1)) 0) ill (7)00) iii)) iv)) iv)) iv)) (460.5420a(b)(7)(v)) v0) ' vii)) vii))

_I

4036

4037

4037

4038

4038

4039 Eata Fajita State Corn 611 Battery

Eider Federal 211 Battery

Eider Federal 211 Battery

Electra Federal 33 (North)

Electra Federal 33 (North)

Fascinator Fee Corn 211 Battery 02/28/2017

03/02/2017

07/27/2017

10/19/2016

06/25/2017

01/28/2017 09:03

12:20

11:15

10:35

14:45

09:00 09:45

13:15

11:45

11:28

15:15

09:58 66*F

60'F

86°F

65°F

90°F

28°F Partly Cloudy

Partly Cloudy

Partly Cloudy

Partly Cloudy

Partly Cloudy

Partly Cloudy 55W 10 MPH

SE 11 MPH

SE 9 MPH

SSW 10 MPH

SE 15 MPH

W 6 MPH Opgal EyeCGas 061 Camera

Opgal EyeCGas 061 Camera

Opgal EyeCGas OGI Camera

Opgal EyeCGas 001 Camera

Opgal EyeCGas OGI Camera

Opgal EyeCGas 001 Camera None

None

None

None

None

None N/A

N/A

N/A

N/A

N/A

N/A N/A

N/A

N/A

N/A

N/A

N/A

127

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component* of Repair * of Repair * Delay of Repair * Original Survey*

(§60.5420a(b)(7)) (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(71((§60.5420a(b)(7)((§60.5420a(b)(7)i (§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) 4) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

128

COG Operating, [IC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey ' Time' Time • Surveyor ' During Survey • During Survey • Survey • none.) • Detected' Detected •

may need to Identification of Each Affected (§60.5420a(b)(7)1 (§60.5420a(b)(7)(i (§60.5420a(b) (§60.5420a(b)(7) (560.5420a(b)711 (§60.5420a(b)(7) (560.5420a(b)(7)(Monitoring Instrument Used' (560.5420a(b)(7)((§60-5420a(b)(7)((§60-5420a(b)(7)1

scroll up) Facility • (560.5420a(b)(1)) ill i)) M(4)) iii))

1 iv)) iv)) iv)) (560.5420a(b)(7)(v)) vi)) vii)) vii))

4039 Fascinator Fee Corn 2H Battery 06/27/2017 12.00 12:30 85"F Clear SSE 5 MPH Opgal EyeCGas 001 Camera None N/A

riot Head Federal Corn 2711

Battery 05/31/2017 1600 1700 Fdri'y SE 13 MPH Opgal EyeCGas OGI Camera None

4041 a! Head Federal Core 6H Battery

3eronimo Federal Corn 11I-1

Battery 05/02/2017

05/31/2017 1490

14:00 15:30

15:00 84'F

S:7'7 Clear

Partly Cloudy SSW 5 MPH

ESE 14 MPH Opgal EyeCGas 0(31 Camera

Opgal EyeCGas OGI Camera None

Acne NiA

4043 Glacier Federal Corn 1H Battery 03/26/2017 11:33 12:28 757 Clear SSE 13 MPH Opgal EyetGas OGI Camera Nnnt., N/A N/A

4044 Goose State 1H Battery 01/12/2017 17:00 1748 70•F Partly Cloudy SSE 9 MPH Opga I EyeCGas OGI Camera None N/A N/A

129

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h) * 60.5397a(h) . Monitored * Monitored * Monitored * Monitored * Component . of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5420a(b)(7)((§60.5420a(b)(7)(1§60.5420a(b)(7)((§60.5420a(b)(7)) (§60.5420a(b)(7)((§60.5420a(b)(7)((560.5420a(b)(7)I (§60.5420a(b)(7)((§60.5420a(b)(7)I (§60.5420a(b)(7)1 (§60.5420a(b)(7) Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor .

(560.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance WAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

130

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

°f omponent Type

Facility Record I Deviations From ent for Component for which No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive (Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions dropdown list- Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey • none.) • Detected •, Detected • may need to Identification of Each Affected (§60.5420a(b)(7)I (160.54200)(7)f (§60.5420a(b) (§60.5420a(b)(7) (§60.5420a(b)(7)I (560.5420a(b)(7) §60.5420a(b)(7)I Monitoring Instrument Used • (§60.5420a(b)(7) (§60.5420a(bX7)4(§60.5420a(b)(7)1 scroll up) Facility • (§60.5420a(b)(1)) il) ID A (MB)) iii)) iv)) NH iv)) (§60.5420a(b)(7)(v)) vi)) " vii)) vii))

4044 Goose State 1H Battery 06/27/2017 15:45 16:15 90°F Clear SE 9 MPH Opgal EyeCGas 001 Camera None Flange 1

3068 Graham 33-35 1H Battery 04/25/2017 09:30 10:30 79°F Partly Cloudy SW 8 MPH Opgal

EyeCGas 001 Camera None N/A N/A

4045 Graham Nash Federal Com 7H 05/25/2017 11.00 12.00 92'F Partly Cloudy WSW 16 MPH Opgal EyeCGas 001 Camera None N/A N/A

3017 Grissom 1802H Battery 02/19/2017 15:00 16:07 55*F Partly Cloudy SSW 7 MPH Opgal EyeCGas OGI Camera None N/A N/A

3017 Grissom 1802H Battery 06/27/2017 09:15 09:45 77°F Clear 5 5 MPH

... ,

°peal EyeCGas 001 Camera None N/A N/A

3018 Grissom 1822H Battery 02/19/2017 13:30 14:20 53°F Partly Cloudy SSW 8 MPH Opgal EyeCGas 001 Camera None N/A N/A

131

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component* of Repair * of Repair * Delay of Repair * Original Survey *

1§60.5420a(b)(7)((§60.5420a(b)(7)((§60.S420a(b)(7)((§60.5420a(b)(7)i (§60.5420a(b)(7)((§60.5420a(b)(7)4 (§60.5420a(b)(7)i (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)((560.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

N/A N/A N/A N/A N/A N/A 06/29/2017 N/A N/A N/A EyeCGas OGI Ca Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

132

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During Of none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor . During Survey • During Survey • Survey • none.) ' Detected • Detected •

may need to Identification of Each Affected (560.5420a(b)(7)1 (660.5420a(b)(7)( )660.5420a(b) (§60.5420a(b)(7) (560-6420a(b)(7)i (§60.5420a(b)(7) (660.5420a(b)(7)1 Monitoring Instrument Used • (660.5420a(b)(7)I (660.5420a(b)(7)14660.5420a(b)(7)(

scroll up) Facility - (§60.5420a(b)(1)) i)) i)) (7)(i1)) iii))

1 iv)) iv)) iv)) (460.5420a(b)(7)(v)) vi)) vii)) vii))

::::)is Grissom 1822H Battery 06/27/2017 08:30

_ 761' Clear ENE 3 MPH Opgal EyeCGas OGI Camera None ,

Gunner 8 Federal 6H and 7H

Z.O.Z.F Battery 03/02/2017 09:10 10.0.F 51°F Partly Cloudy ESE 7 MPH Opgal EyeCGas OGI Camera None N/A

Gunner 8 Federal 61-I and 7H

.c.:6 Battery 07/04/2017 08:45 81F Clear SE 1S MPH Opgal EyeCGas 001 Camera None 5/A

4047 Halberd 27 State 3H Battery 01/10/2017 17:45 :3_33 70"F Partly Cln udy WSW 19 MPH Opgal EyeCGas 001 camera None N/A N/A

4047 Halberd 27 State 3H Battery 06/25/2017 07:15 07,45 74"I- Partly Cloudy 5515 MPH Opgal EyeCGas OGICa mere None N/A _

3019 Hasel

- Cowden 28 04/07/2017 12:00 ", 75'1 Clear 508 la MPH Opgal EyeCGas 001 Camera None N/A

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h) • Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

1§60.5420a(b)(7)((§60.5420a(b)(7)1 (§60.5420a(b)(7)((560.5420a(b)(7) (§60.5420a(b)(711 (560.5420a(b)(7)(060.542004(7)1 (560.5420a(b)(7)1 (§60.5420a(b)(7)((560.5420a(b)(7)((560.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix))

i ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (560.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Or training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Or training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Or training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Or training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

134

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind IVIonhoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey * none.) • Detected • Detected •

may need to Identification of Each Affected (§60.5420a(b)(7)(060.5420a(b)(7)((460.5420a(b)4460.5420a(b)(7) (560.5420a(b)17) §60.5420a(b)(7) (560.5420a(b)(7) Monitoring Instrument Used • (560.5420a(b)(711 (§60.5420a(b)(7)1 (460.5420a(bX7)

scroll up) Facility • (460.5420a(bX1)) i)) 1)) (MB)) iii)) Iv)) iv)) iv)) 1§605420a(b)(7)(v)) vi)) vii))

, vii))

3020 Hasel Unit 53 Battery 05/19/2017 10:30 11:30 82'F Clear S 10 MPH Opgal EyeCGas OGI Camera None N/A N/A

3021 Haste La Vista Battery 05/09/2017 10:30 11:30 78F Clear SSE 9 MPH Opgal EyeCGas OGI Camera None N/A N/A

3022 Horn Splitter 100214 02/19/2017 08:20 0905 51°F Partly Cloudy SSW 7 MPH Opgal EyeCGas OGI Camera None N/A N/A

3022 Horn Splitter 1002H 06/27/2017 07:15 07:45 74"F Clear SSE 3 MPH Opgal EyeCGas 001 Camera None N/A N/A

4048 Horned Owl Federal 3H 04/10/2017 15:00 16:00 83°F Clear ENE 10 MPH °age! EyeCGas OGI Camera None N/A N/A

Ice Dancer 30 Federal Corn 2H

4049 Battery 03/08/2017 09:30 1030 53°F Clear E 4 MPH Opgal EyeCGas OGI Camera None N/A N/A

135

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component* of Repair * of Repair • Delay of Repair * Original Survey *

(§60.5420a(b)(7)1 (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)I (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420affi)(7) (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) vii))

l Surveyor * (§60.5420a(b)(7)(iii))

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance WAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

136

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time * Time • Surveyor • During Survey • During Survey * Survey • none.) " Detected ' Detested •

may need to Identification of Each Affected (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b) (§60.5420a(b)(7) (§60.5420a(b)(7) (560.5420a(b)(7)I (560.5420a(b)(7)1 Monitoring Instrument Used " (§60.5420a(b)(7)((560.5420a(b)(7)) (§60.5420a(b)(7)(

scroll up) Facility • (§60.5420a(b)(1)) 11) 11)

, (Mid) iii)) iv)) iv)) iv)) (560.5420a(b)(7)(v)) xi)) vii)) vii))

Ice Dancer 30 Federal Corn 2H

4049 Battery 07/26/2017 10:30 11:00 93°F Partly Cloudy SSE 7 MPH , :nga I EyeCGas 001 Camera None N/A N/A

3023 Ike State Battery 05/24/2017 08:30 09:30 5,, i Clear NNW 1 M.= I-. °Deal EyeCGas 001 Camera None N/A NIA

4050 Ivar the Boneless Federal 11H 10/18/2016 08:50 09:58 67F Parry Cloudy NW P N.1- --

SE 10 MPH //: peal EyeCGas OGI Camera None N/A N/A

4050 Ivar the Boneless Federal 11H 06/26/2017 15:30 16:00 Partly Cloudy Opgal EyeCGas 001 Camera None N/A N/A

3024 Johnny Ryall Unit Battery 05/24/2017 07:00 08:00 467 Clear ENE 4 MPH Opgal EyeCGas OGI Camera None N/A N/A

3025 Joyce H Battery 03/15/2017 12:30 1325 68°F Clear SSE 12 MPH Opgal EyeCGas OGI Camera None N/A N/A

137

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h) a 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey*

(§60.5420a(b)(7)((§60.5420a(b)(7)((460.5420a(b)(7)((§60.5420a(b)(7)) (§60.5420a(b)(7) (§60.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7)) (§60.54200(b)(7)) (860.5420a(b)(7)(860.5420a(b)(7) Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (860.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

138

COG Operating, (IC

NSPS 0000a Annual Report

Fugitive Components

Numbcy of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient maximum Wind Monitoring Plan which Fugithre Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdcnvn list Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey • none.) • Detected • Detected *

may need to identification of Each Affected (§60.5420a(b)(7)44460.5420a(b)(7)((460.5420a(b) (§60.5420a(b)(7) (fr60.5420a(b)(7)I (§60.5420a(b)(7) (§60.5420a(b)(7)1 Monitoring Instrument Used • (46O34204b)(7)*(460.5420a(b)(7 460.5420a(bX7)

scroll up) Faciiiry • (560.5420a(b)(1)) ill i)) (7)01)) iii)) iv)) iv)) iv)) 1160.5420a(b)(7)(v)) vi)) vii)) vii))

4051

4051

4052

4052

3026

3026 King AI r 8 Federal Corn 3H I 03/03/2017

King Air 8 Federal Corn 311 07/02/2017

Lajitas 13WQ State Corn 1H Battery! 03/14/2017

lajrtas BWR State Corn 1H Battery! 07/25/2017

la rimer State Unit Battery

Larimer State Unit Battery 03/07/2017

07/10/2017 11:00

11:30

14:30

11:30

08:18

16:30 11:44

12:00

15:113

12:00

09,05

17:00 494F

sa•F

94-F

F

95°F Partly Cloudy

Clear

Clear

Clear

Clear

Partly Cloudy 15 MPH

S 13 MPH

WSW 7 MPH

SSE 12 MPH

NE 4 MPH

ESE 18 MPH Opgal EyeCGas OGI Camera

Opgal EyeCGa, OG I Camera

Opgal EyeCGas OGI Camera

Opgal EyeCGas 001 Camera

Opgal EyeCGas 001 Camera

Opgal EyeCGas 001 Camera None

None

None

None N/A

N/A

N/A

N/A

N /A

N/A N/A

N/A

N/A

N/A

N/A

N/A

130

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey*

(§60.5420a(b)(7) (§60.5420a(b)(7)i (560.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)1 (§60.5420a(b)(7)((560.5420a(b)(7)i (§60.5420a(b)(7)I) (§60.5420a(b)(7)((§60.5420a(b)(7)((560.5420a(b)(7) Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xi)) Surveyor * (560.5420a(b)(7)(iii))

N/A N/A N/A N/A N/A N/A N/A N/A NIA N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

Number of Each

Type of Component Typ

Facility Record Deviations From Component for for which

No. * Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (if none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time * Surveyor • During Survey " During Survey' Survey' none.) • Detected ' Detected •

may need to identification of Each Affected (460.5420a(b)(7) 4450.5420a(b)(7)((460.5420a(b) (460.54204b)(7)(,(460.5420a(b)7) 1560.5420a(b)(7)1 (§60.5420a(b)(7)1 Monitoring Instrument Used • 1460.5420a(b)(7) 460.5420a(b)(7)1 §60.5420a(b)(7)

scroll up) Facility " (460.5420a(b)(1)) so) i)) (7)(if)) II)) iv)) iv)) iNI) (§60.5420a(b)(7)(v)) vi)) vii)) vii))

3027 Laura Jean Battery 03/17/2017 0930 10:08 60°F Clear SSW 16 MPH Opgal EyeCGas OGI Camera None N/A

4053 Lusk Deep Unit A 23H Battery 03/03/2017 07:06 07:55 35T Partly Cloudy 5 4 MPH Opgal EyeCGas OGI Camera None N/A N/A

4053 Lusk Deep Unit A 23H Battery 07/02/2017 21:30 10:00 80*F Clear S 15 MPH Opgal EyeCGas OGI Camera None N/A N/A

4054 Lusk Deep Unit A 25H Battery 03/03/2017 09:02 09:50 40*F Partly Cloudy S8 MPH Opgal EyeCGas 061 Camera None NiA N/A

4054 Lusk Deep U rut A 25H Battery 07/02/2017 10:30 11:00 82°F Clear 5 15 MPH Opgal EyeCGas 061 Camera None N/A N/A

4055 Lychee BWS State Corn 1A Battery 03/01/2017 07:04 07:55 4rF Clear N 9 MPH Opgal EyeCGas 061 Camera None N/A N/A

4

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored " Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(560.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7)I (§60.5420a(b)(7)((§60.5420a(b)(7)1 (§60.5420a(b)(7) (§60.5420a(b)(7); (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)1 Training and Experience of

viii)) viii)) ix)) ix))

I ix)) ix))

- x)) xi)) xi)) xi)) nil)) Surveyor " (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

142

COG Operating, LLC

MPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperaturr Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time ' Time • Surveyor • During Survey* During Survey • Survey • none.). Detected * Detected '

may need to Identification of Each Affected (§60.5420a(b)(1) (460.5420a(b)(7)((960.5420a(b) (§60.5420a(b)(7)1 (460.5420a(b)(7) (560.542042V) (460.5420a(b)(7) Monitoring Instrument Used • (860.3420a(b)(7)11560.5420a(b)(7)1 (§60.5420a(b)(7)(

scroll up) Facility • (§60.5420a(b)(1)) l /1

I ill (Mi)l in)) iv)) iv)) iv)) (§60.5420a(b)(7)(v)) vi)) vii)) vii))

4055 Lychee SW5 State Corn SA Battery 07/02/2017 17:30 I 93'F Clear SSE 9 MPH Ousel EyeCGas OW Camera None N/A N/A

3028 Mabee 240 (Tank Battery 1) 05/08/2017 16:30 1730 80*F Partly Cloudy SSE 19 MPH Opgal EyeCGas OGI Camera None N/A N/A

3029

- Mabee 240 C Battery 04/03/2017 09:33 10:26 67°F Clear W 17 MPH Opgal EyeCGas 001 Camera None N/A N/A

Mabee 240C 2 Battery 04/13/2017 14:30 15:30 74*F Partly Cloudy SW 14 MPH Opgal EyeCGas OGI Camera None N/A

Macho Nacho State Corn 10H

4056 Battery 02/28/2017 11:09 11:53 70°F Partly Cloudy SSW 17 MPH Opgal EyeCGas 001 Camera N: -N/A N/A.

Macho Nacho State Corn lOil

4056 Battery 07/27/2017 10:00 10:30 831 Partly Cloudy SE 9 MPH Opgal EyeCGas OGI Camera None N/A N/A

'43

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed an Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair " Original Survey *

N60.5420a(b)(7)((00.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7)((§60.5420a(b)(7)((560.5420a(b)(7)I (§60.5420a(b)(7)) 060.5420a(b)(7)i (§60.5420a(b)(7)((§60.5420a(b)(7)1 Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

144

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

—

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor ' During Survey • During Survey • Survey • none.) • Detected • Detected •

may need to Identification of Each Affected (§60.5420a(b)(7)i (§60.54204(b)(/Hi (560.5420a(b) (.960.5420a(b)(7)((460.5420a(b)178 (560.5420a(b)(7)1 (§60.5420a(b)(7) Monitoring Instrument Used • (560.5420a (b)(7) (460.5420a(b)(7)((460.5420a(b)(7)(

scroll up) Facility • (560.5420a(b)(1)) i)) i)) MON iii)) iv)) iv)) iv)) (460.5420a(b)(7)(v)) vi)) vii)) vid)

3031 Maggie Battery 05/04/2017 10:00 11:00 597 Clear N 3 MPH Opgal EyeCGas OGI Camera- N/A N/A

Man State 2H Battery 03/14/2017 15.33 16.22 851" Clear WSW 8 MPH: Opgal EyeCGas :30: Carrera N/A

- Man State 2H Battery 07/25/2017 12:15 1231.8 95"F Clear SSE 11 MPH Opgal EyeCGas OGI Camera N/A N/A

-J1J3-2 Mann 15 P1 Unit H Battery 03/17/2017 08.30 L19.25. Clear S 14 MPH Opgal EyeCGas OGI Camera None

31:33 Marie Lease H Battery 02/22/2017 13:03 13:58 Clear W 12 MPH Opgal EyeCGas OGI Camera None N/A

303'3 Mane tease H Battery 07/04/2017 15:30 16.00 97°F Partly Cloudy SE 14 MPH Opgal EyeCGas 001 Camera None N/A N/A

145

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h) a 60.53974.1)0 Monitored * Monitored * Monitored * Monitored * Component • of Repair * of Repair * Delay of Repair * Original Survey •

(§60.5420a(b)(7)l (§60.5420a(b)(7)((§60.5420a(b)(7){ (§60.5420a(b)(7)I (§60.5420a(b)(7)((560.5420431(7)((560.5420a(b)(7)I (§60.5420a(b)(7g (560.5420a(b)(7)((560.5420a(b)(7)1 (§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) 5)) xi)) xi)) xi)) xii))

I Surveyor * (560.5420a(b)(7)(iii))

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad On training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance WAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdcnvn list - Date of Survey •

, Time '' Time • Surveyor • During Survey • During Survey • Survey * none.) • Detected • Detected •

may need to Identification of Each Affected (560.5420a(b)(7)4060.5420a(bX7)((§60.5420a(b) 1§60.5420a(b)(7)1 §60.5420a(b)(7 (§60.5420a(b)(7) (§60.5420a(b)(7) Monitoring Instrument Used • (560.5.420a(b)(7)1060.5420a(bX7) (560.5420a(b)(7)

scroll up) Facility ' (660.5420a(b)(1)) ill i)) OHO) iii))

1 iv)) iv)) iv)) 060.5420a(b)(7)(v)) vi)) vii)) vii))

1

1069 Mare Battery 03/09/2017 08:00 09:00 65°F Partly Cloudy SW? MPH Opgal EyeCGas 001 Camera None N/A N/A

4058 Ma s Federal 3H Battery 03/03/2017 13:30 14:22 53'F Partly Cloudy SSE it MPH Opgal EyeCGas OGI Camera None N/A N/A

4058 Mas Federal 3H Battery 07/02/2017 12:15 12:30 89'F Clear S 13 MPH Opgal EyeCGas OGI Camera None Valve

4059 Mastiff Federal 3H Battery 03/02/2017 14:00 14:55 63'F Partly Cloudy SE 12 MPH Opgal EyeCGas OGI Camera None N/A N/A

4059 Mastiff Federal 3H Battery 07/26/2017 14:00 14:30 99°F- Partly Cloudy SSE 13 MPH Opgal EyeCGas 001 Camera None N/A N/A

4060 McIntyre OK Federal 15 06/25/2017 13:00 13:30 83°F Partly Cloudy SE 16 MPH Opgal EyeCGas 061 Camera None N/A N/A

147

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed an Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair " Original Survey *

(§60.5420a(b)(7)((§60.5420a(b)(7)1 (§60.5420a(b)(7)1 (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7)1 (§60.5420a(b)(7)(I (§60.5420a(b)(7)((§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) " xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A 07/07/2017 N/A N/A N/A 11 EyeCGas OGI Ca 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

148

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey' Time • Time • Surveyor • During Survey • During Survey • Survey' none.) • Detected • Detected •

may need to Identification of Each Affected (5635420a(b)(7) (560.5420a(b)(7)((§60:5420a(b) (560.5420a(b)(7) (960.5420a(b)(7)1 (560.5420a(b)(7) (§60.5420a(b)(7)1 Monitoring Instrument Used • (560.5420a(b)(7) (560.5420a(b)(7)I (560.5420a(b)(7)

scroll up) Facility • (960.5420a(b)(1)) ii)

I ill (711ii)i iii)) iv)) iv))

I iv)) (S60.5420a(b)(7)(v)) vi)) vii))

4 vii))

34 Monarch State Battery 05/31/2017 09:00 1000 65°F Partly Cloudy ESE 11 MPH Opgal EyeCGas OGI Camera None N/A N/A

4061 Monet Federal 3H Battery 03/02/2017 10:15 10:57 5S•= Partly Cloudy SE 13 MPH Opp! EyeCGas 001 Camera None N/A N/A

4061 Monet Federal 3H Battery 07/27/2017 12:45 13:15 91F Partly Cloudy E 7 MPH Opgal EyeCGas 001 Camera None N/A N/A

Musk Master 27 Federal 3H

4062 Battery 05/18/2017 06:30 07:30 467 Clear SE 3 MPH Owl EyeCGas 001 Camera None N/A N/A

4063 Myox 5 State Corn 22H Battery 03/07/2017 15:00 16:00 697 Partly Cloudy S 9 MPH Opga I EyeCGas OGI Camera None N/A N/A

4064 Myox 6 State Com 3H Battery 05/25/2017 1200 1300 93*F Partly Cloudy W 19 MPH Opgal EyeCGas OGI Camera None N/A N/A

149

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(560.5420a(b)(71((§60.5420a(b)(7)I (460.5420a(b)(7)i (560.5420a(b)(7) (§60.5420a(b)(7)1 (§60.5420a(b)(7)((560.5420a(b)(7)I (560.5420a(b)(7)1 (560.5420a(b)(7)((§60.5420a(b)(7) (560.5420a(b)(7)f Training and Experience of

viii)) viii)) ix)) ix)) ix))

i ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5 --years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

150

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

- ;

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No.' Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list

- Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey ' none.) • Detected • Detected •

may need In Identification of Each Affected (460.5420a)b)(7)' (§60.5420a(b)(7)((660.5420a(b) (660.5420a(b)(7)I (560.5420a1b))7)((§60.5420a(b)(7) (560.5420a15)17)) Monitoring Instrument Used " (§61/S420a(b)(7)1 (560.5420a(b)(7) 060.5470a(b)(7)(

scroll up) Facility • (§60.5420a(b)(1)) il) I)) MOM iii)) iv)) iv)) iv)) (§60.5420a(b)(7)(v)) vi)) vii))

I vii))

3035

3036

4r_tr5

4065

3037

4066 Neal Ranch 42 Battery

Neal Ranch 42H Unit Battery

Newcastle 6 Federal Corn 7H

Newcastle 6 Federal Corn 71-I

Norma H Battery

Pan Head Fee 13H Battery 02/26/2017

03/22/2017

10/19/2016

06/25/2017

03/22/2017

01/10/2017 08:00

12:01

15:30

10:00

12:10 67°F

65*F

68"F

88`F

65•F

657 Partly Cloudy

Partly Cloudy

Partly Cloudy

Partly Cloudy

Partly Cloudy

Partly Cloudy W 6 MPH

ESE 10 MPH

SSW 12 MPH

SE 15 MPH

ESE 8 MPH

SW 12 MPH Opal EyeCGas OGI Camera

Opgal EyeCGas 001 Camera

Opgal EyeCGas OGI Camera

Opgal EyeCGas 001 Camera

Opgal EyeCGas OGI Camera

Ocgal EyeCGas OGI Camera None

None

None

Noon N/A

rJ/A

N/A

N/A N/A

N/A

N/A

N/A

N/A

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h) a 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair a Original Survey *

(§60.5420a(b)(7)((§60.5420a(b)(7) (560.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7) (§60.5420a(b)(7)((§60.5420a(b)(7)1 (560.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) a)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FUR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Number of Each

Type of Component Typ

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list

- Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey ' none.) • Detected • Detected •

may need to Identification of Each Affected (560.5420a(b)(7)) (§60.5420a(b)(7)((960.5420a(b) (860.5420a(b)(7)((660.547043)(7)((660.5420a(b)(7) 1 60.5420a(b)(71 Monitoring Instrument Used • (460.5420a(b)(7)((560.5420a(b)(7)((660.5420a(b)(7)

scroll up) Facility • (460.5420a(b)(1)) i)) in VIM) iii)) iv)) iv)) iv)) (560.5420a(b)(7)(v)) vi)) vii)) Will

Par -lead Fee UH EanerY D6/1612017 19.1d 19:30 7rF Partly Cloudy ESE 11 MPH Opgal EyeCGas OGI Camera Nord NjA

Par Head Fee 41. Battery 01/E1/2117 n 1E 12:01 63"F Partly Cloudy SW 10 MPH Opgal EyeCGasOGI Camera None N/A N/A

40/b/ Pan Head Fee 4H Battery 06/26/2017 18:30 I 0 07, BO'F Partly Cloudy ESE 12 MPH Opgal EyeCGas 001 Camera None N/A

1050 Patron 23 Federal 4H Battery 03/08/2017 10:30 11 30 60"F Clear 5 3 MPH Opgal EyeCGas OGI Camera None N/A N/A

4068 Patron 23 Federal 4H Battery 07/26/2017 11'3 0 12:00 97°F Partly Cloudy SE 8 MPH Opgal EyeCGas 001 Camera Non,

3038 PFU2 1863H Battery 02/27/2017

_ 16:O5 17:5E. SWF Clear SW 16 MPH Opgal EyeCGas OGI Camera None N/A N/A

153

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component* of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5420a(b)(7)l (560.5420a(b)(7)((560.5420a(b)17)((560.5420a(b)(7)1 (§E05420a(b)(7)) (560.5420a(b)(7)((§60.5420a(b)(7) (560.5420a(b)(7)((560.5420a(b)(7)1 (560.5420a(b)(7) (560.5420a(b)(7)f Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xiff) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

154

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. " Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor ' During Survey • During Survey • Survey ` none.) • Detected ' Detected •

may need to Identification of Each Affected (§60.54204(b)(7) (560.5420a(b)(7)((560.5420a(b) (060.5420a(b)(7) (460.5420a(b)(7)1 360.5420a(b)(7)1 (560.5420a(b)(7)(Monitoring Instrument Used* (960.5420a(b)(7) (560.5420a(b)(7) (560•5420a(b)(7)

scroll up) Facility ' (560.5420a(b)(1)) d) il) (7)(idi Xi)) iv)) iv)) iv)) (560.5420a(b)(7)(v)) vi)) vii)) vii))

3039 PFU2 2329H Battery 02/27/2017 13 45 78"F Clear SW 18 MPH Opgal EyeCGas 001 Camera None N/A N/A

3040 PFU3 1080 L3dttet y 13/01/201/ 11.00 14:00 10°I: Party Cloudy NE 15 MPH Opgal EyeCGas OGI Camera None N/A

3041 PFU3 108H Battery 03/29.,57.:7 (3 00 :7:3 64"F Partly Cloudy 518 MK Opgal EyeCGas OGI Camera None N/A N/A

3042 PFU3 117H Battery 04/07/201/ (700 10 C ';', EVE Partly Cloudy SSE 18 MPH Opgal EyeCGas 001 Camera None r

41)69 Piltim 15 Fee 2H 01/09/2017 12:013 13,1,4 59*F Clear S5 MPH Opgal EyeCGas 001 Camera Nun, r,

Pilum 15 Fee 2H 06/26/2017 12:45 13:15 80*F Partly Cloudy SE 8 MPH Opgal EyeCGas OGI Camera N.,,,

155

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in

660.5397a(h). Required in 6

60.5397a(h)* Components

Monitored * Component Type

Monitored * Component

Monitored * Component Type

Monitored * Emissions

Component * Placed on Delay

of Repair * Placed on Delay

of Repair * Explanation for

Delay of Repair * Repaired During

Original Survey *

(660.5420a(b)(7)) (660.5420a(b)(7)i (660.5420a(b)(7)((660.5420a(b)(7) (660.5420a(b)(7)((660.5420a(b)(7) (660.5420a(b)(7) (660.5420a(b)(7)((660.5420a(b)(7)((660.5420a(b)(7)((660.5420a(b)(7) Training and Experience of

viii)) viii)) ix)) ix))

, ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (660.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

156

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

I

Number Of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor • During Survey • During Survey Survey • none.) • Detected • Detected •

may need to Identification of Each Affected (560.5420a(b)(7)1 460.5420a(b)17)4 (§60.5420s(b) oso.sszos(wp (060.542(1a(b(7) 1§60.5420a(b)(7) (§60.5420a(bX7) Monitoring Instrument Used (§60.5420a(b)(7) (460.5420a(b)(7)1 (i60.5420a(b)(7H scroll up) Facility • (460.5420a(b)(1)) i)) i)) (lou)) Ill)) iv)) iv)) iv)) (§60.5420a(bX7)(v)) will AD vii))

4070

4071

4071

3043

3043

4072 Pinto 36 State Corn 1H

Pinto 36 State Corn 4H

Pinto 36 State Corn 4H

Poppy State Battery

Poppy State Battery

Populus Federal 311 Battery 05/02/2017

03/13/2017

08/01/2017

02/06/2017

07/11/2017

04/10/2017 07:30

12:45

1630

09:00

09:30

16:00 49'F

6rF

83'F

51°F

857

srF Clear

Partly Cloudy

Partly Cloudy

Partly Cloudy

Clear

Partly Cloudy W 3 MPH

NE 12 MPH

ENE 9 MPH

WSW 10 MPH

E 9 MPH

ENE 8 MPH Opgal EyeCGas 001 Camera

Opgal EyeCGas 061 Camera

Opgal EyeCGas 001 Camera

Opgal EyeCGas OGI Camera

Opgal EyeCGas OGI Camera

Opgal EyeCGas 001 Camera None

None

None

None

None

None N/A

N/A

N/A

N/A

Valve

N/A N/A

N/A

N/A

N/A

1

N/A

157

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h) * Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair • Original Survey *

(860.5420a(b)(7)((§60.5420a(b)(7)( )§60.5420a(b)(7) (§6D.5420a(b)(7)I (§60.5420a(b)(7){ (§60.5420a(b)(7)I (§60.5420a(b)(7)I (§60.5420a(b)(7)I (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A 07/17/2017 N/A N/A N/A al EyeCGas OGI Ca 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

158

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monrtoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor ' During Survey • During Survey • Survey ' none-) • Detected . Detected .

may need to Identification of Each Affected (560.5420a(b)(7) (560.5420a(b)171((960.5420a(b) (§60.5420a(b)(7)((960.5420a(bX7)) (660.S420a(b)(7) (960.5420a(b)(7)(Monitoring Instrument Used • (950.5420410)1 (060.5420albg7111960.5420a(b)(711

scroll up) Facility • (660.5420a(b)(1))_ i))

J- i)) MOOD iii)) iv)) iv)) iv)) (560.5420a(b)(7)(v)) vi)) vii)) vii))

4073 Puckett 13 Federal Corn 35H 02/11/2017 12 IN 1314 83°F Clear SW 17 MPH Opgal EyeCGas OGI Camera None NIA N,

4173 Puckett 13 Federal Corn 35H 06/26/2017 1401 14:30 837 Partly Cloudy SE 8 MPH Opgal EyeCGas OGI Camera None N/A

444 Puckett 13 Federal Corn 811 02/11/2017 13:29 14.14 85T dear SW 18 MPH Opgal EyeCGas 001 Camera N/A

4074 Puckett 13 Federal Corn 8H 06/26/2017 14:45 15:15 86'F Partly Cloudy SE 9 MPH Opgal EyeCGas 001 Camera Nu,u: N/A N/A

4075 Queue State 1H Battery 03/02/2017 15:54 16:35 65.F Partly Cloudy SE 10 MPH 0 pga I EyeCGas 001 Camera Nuna

4075 Queue State 1H Battery 07/27/2017 09 30 10:00 434*F Partly Cloudy SE 8 MPH Opgal EyeCGas OGI Camera None N/A

15(4

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored a Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5420a(b)(7)((§60.5420a(b)(7)1 (§60.5420a(b)(7)I (660.5420a(b)(7) (560.5420a(b)(7)) (660.5420a(b)(7)((560.54Z0a(b)(7) (§60.5420a(b)(7)1 (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)1 Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.542.0a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

,

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

160

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

I I

Number of Each

Type of Component Type

Faciity Record Deviations From Component for for which

No. • Ambient Maximum Wind 1 Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey • none.) • Detected • Detected •

may need to Identification of Each Affected (160.5420a(b)(7)f (460.5420a(b)(7)((460.5420a(b) 460.5420a(b)(7 (560.5420a(147) (060.5420a(b)(7) (460.5420a(bX7)4 Monitoring Instrument Used' 1560.5420a(b)(7) (460,5420a(b)(7)14460.5420a(b)(7)1

scroll up) I Facility • (460.5420a(b)(1)) 01 0) MHO iii)) iv))

1,----. iv)) iv)) (460.5420a(b)(7)(v)) vi)) vii)) WI))

4076 Queso State 3H and SH Battery 02/28/2017 14:10 14:55 73 -IF Partly Cloudy SSW 20 MPH Opgal EyeCGas OGI Camera None N/A N/A

4076 Queso State 3H and 5H Battery 07/27/2017 08:45 09:15 83°F Partly Cloudy SE 8 MPH Opgal EyeCGas 001 Camera None N/A N/A

4077 Ragnar Federal 01/10/2017 13:08 14:00 66*F Partly Cloudy SW 10 MPH Opgal EyeCGas 001 Camera None N/A N/A

4077 Ragnar Federal 06/26/2017 :5.15 lb:45 85'F Partly Cloudy E 10 MPH Opgal EyeCGas 001 Camera None N/A N/A

4078 Raspberry State 1H Battery 03/01/2017 08-07 08:56 42°F Clear N 13 MPH Opgal EyeCGas OG I Camera None N , A

4078 Raspberry State 1H Battery 07/02/2017 15:00 .11.30 92°F Clear SSE 9 MPH Opgal EyeCGas OGI Camera None N/A N/A

161

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in 4 Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

460.5397a(h)* 60.5397a(h) * Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Surveys

(460.5470a(b)(7)1 (460.5420a(b)(7)(060.5420a(b)(7)1 (560.5420a(6)(7) 0E0342003)(7)i (660.5420a(b)(7) (660.5420a(b)(7) (460.5420a(b)(7) (460.5420a(b)(7)((460.5420a(b)(7)((460.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x))

i xi)) xi)) xi)) xii)) Surveyor * (460.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years expenence

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

162

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

- -- _

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select horn Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey • none.) • Detected • Detected '

may need to Identification of Each Affected (460.5420a(b)(7)) (§60.5420a(b)(7)((560.5420a(b) (660.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7) (460.5420a(b)(7)(Monitoring Instrument Used • (660.5420a(b)(7) (460.5420a(b)(7)i 060.5420a(b)(7)1

scroll up) Facility • (460.5420a(b)(1)) in in (7)(ii)) iii)) iv))

i bin iv)) 1§60.5420a(b)(7)(y)) vi)) vii)) vii))

3(.144 Ratiff A Tank Battery 1 04/13/2017 16:00 17:00 75°F Partly Cloudy SE 12 MPH Opgal EyeCGas 001 Camera None NA

304L Rellff E BaC:ery 04/16/2017 16 sc:. 17 3: 847 Partly Cloudy SSE 13 MPH Opgal EyeCGas OGI Camera None

3046 RAtlIff F Battery 05/04/2017 12:00

14:30 11/C 67°F

S 30 83•F Clear el 10 MPH Opgal EyeCGas OGI Camera None N/A

3047 Ratliff G (A29) Battery 05/08/2017 Partly Cloudy SSE 18 MPH Opgal EyeCGas OGI

Camera None N/A

3048 Ratliff I Battery 05/19/2017 08745 657 Clear SW 6 11111 Opgal EyeCGas OGI Camera None NjA ,

4079 Red Raider SKS State *1 04/10/2017 11:00 09:08 71•F Clear NE 18 MPH Opgal EyeCGas 001 Camera None

1133

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5470a(b)(7) (66o.5420a(b)(7)1 (660.5420a(b)(7)((660.5420a(b)(7)) (660.5470a(b)(7)((660.5420a(b)(7)((660.5420a(b)(7) (§60.5420a(b)(7)((§60.5420a(b)(7)((660.5420a(b)(7)((660.5420a(b)(7)(Training and Experience of

Viii)) viii)) ix)) ix)) ix)) ix)) no xi)) xi)) xi)) xii)) Surveyor * (660.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

164

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Nurse of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor • During Survey " During Survey • Survey* none.) • Detected • Detected •

may need to Identification of Each Affected (§60.5420a(b)(7)1 (560.5420a(b)(7)((§60.5420a(b) (§60.5420a(b)(7)((460.5420a(b)17)4 (560.5420a(h)(7)) (§60.5420a(b)(7) Monitoring Instrument Used - (360.5470a(b)(7)) (460.5420a(b)(7)1 (§60.5420a(b)(7)(

scroll up) Facility • (560.5420a(b)i1)) i)) i)) 17100 iii)) iv)) iv)) iv)) (460.5420a(b)(7)(v)) vi)) vii)) vii))

(b) (b)

4.9Sil Resolver Fed Corn 2H Battery 03/01/2017 10:30 Ii 51'F

/3'F Clear

Dear N 11 MPH

ESE 6 MPH Opgal EyeCGas OGI Camera

Opgal EyeCGas OGI Camera None

None N/A

N/A N/A

N/A Road Runner Federal Corn 1H 06/27/2017 _

- -

31:41 Rough Rider Battery 03/07/2017 09:20 02.1 - 48"F Clear NE 8 MPH Opgal EyeCGas OGI Camera None N/A N/A

3949 Rough Rider Battery 07/10/2017 14:00 14:33 947 Partly Cloudy SE 11 MPH (Jogai EyeCGas OGI Camera None N/A NA

4082 Sam Adams 12 Federal Corn 4H 10/20/2016 VMS 11 -RS 57°F Partly Cloudy NNE 13 MPH Opgal EyeCGas OGI Camera None N/A N/A

4082 Sam Adams 12 Federal Corn 4H 06/25/2017 16:15 16:45 91°1 Partly Cloudy SSE 15 MPH Opgal EyeCGas OGI Camera None N/A N/A

165

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -

to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component ComponentType Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored • Monitored * Monitored * Component* of Repair • of Repairs Delay of Repair * Original Survey •

(560.5420a(b)(7)1 (560.5420a(b)(7)((560.5420a(b)(7)((§60.5420a(b)(7) (560.5420a(b)(7)((560.5420a(b)(7)((560.5420a(b)(7) (§60.5420a(b)(7)((560.5420a(b)(7)i (560.5420a(b)(7)((560.5420a(b)(7) Training and Experience Of

viii)) viii)) ix)) ix)) ix)) ix)) a))

1 xi)) xi)) xi)) xii)) Surveyor * (560.5420a(b)(7)(iii))

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

166

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During Of none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor • OutingSurve During Survey • Survey • none.) • Detected • Detected •

may need to Identification of Each Affected (560.5420a(b)(7)I (460-5420a(b)(7)f (§60.5420a(b) (460.5420a(b)(7) I (5605420a(b)(7)1 (§60-5420a(b)(7)1 Monitoring instrument Used • (460.5420a(b)(7) 460.5420a(b)(7)(60-5420a(b)(7)1

scroll up) Facility • (4603420a(b)(1)) i)) il) (1)(i1)1 BB) iv))

I-,.... iv)) (560.5420a(b)(7)(v)) i vi)) Win Win

4083 Scooter Federal Com 2H 01/12/2017 15:39 16:22 70'F ....

Partly Cloudy SSE 9 MPH Opgal EyeCGas OGI Camera None N/A N/A

4083 Scooter Federal Com 2H 07/25/2017 08:00 08:30 78'F Clear SSE 12 MPH Opgal EyeCGas OGI Camera None N/A N/A

3050 Screaming Eagle Battery 03/07/2017 13:06 14:08 61F Partly Cloudy_ ,

NE 7 MPH Octal EyeCGas OGI Camera None N/A N/A

3050 Screaming Eagle Battery 07/10/2017 02:13 14:00 96'F Partly Cloudy SE 14 MPH Opgal EyeCGas 001 Camera None Valve 1

4084 Screech Owl CM 04/10/2017 1400 15:00 807 Clear ,

ENE 11 MPH Opgal EyeCGas OGI Camera None N/A N/A

3051 Shepard 824H Battery 05/18/2017 11:00 13:00_ 76°F

_ Clear .

S 10 MPH Opgal EyeCGas OGI Camera None N/A N/A

167

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in 4 Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

4605397aM)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair " of Repair * Delay of Repair * Original Survey *

(460.5420a(b)(7)((460.5420a(b)(7) (460.5420a(b)(7)1 (460.5420a(b)(7) (460.5420a(b)(7)1 (460.5420a(b)(7)((460.5420a(b)(7) (§60.5420a(b)(7)1 (§60.5420a(b)(7)" (§60.5420a(b)(7)) (§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix))

i ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (460.5420a(b)(7)(iii))

Guardian Compliance WAR

training arid certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A 07/17/2017 N/A N/A N/A 3IEyeCGas OGI Ca 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 54 -years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

168

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Time • Time • Surveyor • During Survey • During Survey • Survey • none.) • Detected • Detected •

may need to Identification of Each Affected (§60.5420a(b)(7)((§60.5420a(b) (§605420a(b)(7) (960.5420a(b)(7)1 (460.5420a(b)(7) (560.5420a(b)(7)1 Monitoring Instrument Used • (460.5420a(b)(7)I 460.5420a(b)(7) 460.5420a(b)(7)

scroll up) i Facility • (960.5420a(b)(1)) in (7)(ii)) iii)) iv)) ivll iv)) (§60.5420a(b)(7)(v)) vi)) vii)) I vii))

, 4085 Sherman 4 Fee 6H 01/09/2017 16:59 17.48 79'F Partly Cloudy SW 19 MPH Opgal EyeCGas OGI Camera None N/A N/A

4085 Sherman 4 Fee 6H 06/26/2017 11:15 11,45 77•F Partly Cloudy SE 6 MPH Opgal EyeCGas

OGI Camera None N/A N/A

4086 Shiner Bock 1 Federal Corn 81-1 10/19/2016 08:58 1009 6WF Clear NW 6 MPH Opgal EyeCGas 001 Camera None N/A N/A

4086 Shiner Bock 1 Federal ComilH 06/25/2017 17:15 17:45 8WF Partly Cloudy SSE 15 MPH Opgal EyeCGas OGI Camera None N/A N/A

4087 Sitka BSI State Corn 1H 01/12/2017 13:27 14 22 697 Partly Cloudy SSE 8 MPH Opgal EyeCGas 001 Camera Nore N/A N/A

4087 Sitka BSI State Com 1H 06/27/2017 14:30 15:00 EIYF Clear SE 6 MPH Opgal EyeCGas OGI Camera None N/A N/A

169

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component* of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5420a(b)(7)I (§60.5420a(b)(7)1 (§60.5420a(b)(7)((§60.5420a(b)(7) (§60.54Z0a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) al)

1 xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance WAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

170

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. * Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature sky Conditions Speed During (if none, state Emissions Emissions

dropdown list- Date of Survey • Time • Time • Surveyor • During Survey • During Survey' Survey • none.) • Detected • Detected `

may need to Identification of Each Affected (960.5420a(b)(7), (960.5420a(b)(7)((560.5420a(b) 060.5420a(b)(7)(1960.5420a(b)(11 (960.5420a(b)(7)I 1960.5420a(b)(7) Monitoring Instrument Used ' {960.5420a(b)(7)((960.5420a(b)(7)((960.5420a(b)(7)(

scroll up) Facility • (960.5420a(b)(1)) i)) Ill MOH iii)) iv)) Iv)) iv)) (980.5420a(b)(7)(v)) vi)) vii)) vii))

4088 Skelly Unit 942 Battery 05/31/2017 17:00 18:00 79-E Partly Cloudy SE 10 MPH Opgat EyeCGas OGI Carr ci-o None N/A

4080 Skull Cap Fed Corn 22H Battery 03/13/2017 08:00 44.F Partly Cloudy NNE 15 MPH ,_40 -al EyeCGas 061 Carne i d None

N/A N/A

4091 SL East 30 Federal 211 Battery 03/03/2027 08,05 L.g: 7 ", 367 Party Cloudy 17 ropii - peal EyecGas C0G1Camera None i

4090 5L East 30 Federal 2H Battery 07/02/2017 10:00 817 Clear S 1S MPH Opgal EyeCGas OGI Camera None N/A N/A

4091 Smalls Federal ill Battery 03/31/2017 08:30 09 10 b 510 MPH Opgal EyeCGas OGI Camera None N/A N/A

4032 Sneed 9 Federal Corn 21I 02/11/2017 14:41 15:27 dear SW 19 MPH Opgal EyeCGas OGI Camera None N/A N/A

171

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Componentrype Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h) * Monitored • Monitored * Monitored * Monitored * Component* of Repair * of Repair * Delay of Repair * Original Survey •

(560.5420a(b)(7) (560.5420a(b)(7) (560.5420a(b)(7) (§60.5420a(b)(7)I (§60.5420a(b)(7)((560.5420a(b)(7)((§60.5420a(b)(7)I (560.5420a(b)(7)((560.5420a(b)(7)l (§60.5420a(b)(7)) (§60.5420a(b)(7)(Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor • (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

172

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor • During Survey • During Survey • Survey • none.)' Detected • Detected'

may need to Identification of Each Affected §60.5420a(b)(7) (§60.5420a(b)(7)() (§60.5420a(b) (560.5420a(b)(7)((560.5420a(b)(7)) (360.5420a(b)(7)((560.5420a(b)(7) Monitoring Instrument Used ' (§60.5420a(b)(7)1 (§60.5420a(b)(7)) (§60.5420a(b)(7)

scroll up) Facility • (§60.5420a(b)(1)) 0) 4) (7)614 iii)) ivii iv)) iv)) (560.5420a(b)(7)(v)) vin vii)) vii))

i I

Sneed 9 Federal Corn 2H 06/26/2017 17:45 18:15 81°F Partly Cloudy ESE 11 MPH Opgal EyeCGas OGI Camera Acne NIA

Sombrero Federal Com 4H Battery 03/13/2017 09:00 10:00 1,5r F Pertly Cloudy NE 11 MPH -

Opgal EyeCGas OGI Camera None Nis I.

-..--

Spruce Goose Federal Corn 3H

Battery 03/03/2017 1157 1244 50'F Partly Cloudy SSE 15 MPH Opgal EyeCGas OGI Camera None N/A

Spruce Goose Federal Corn 3H

Battery 07/02/2017 12:00 12:30 88"F Clear S 13 MPH Opgal EyeCGas OGI Camera None '

Stealth Federal Corn 4H Battery 03/03/2017 1001 10•50 Partly Cloudy S 13 MPH Opgal EyeCGas 061 Camera None

4095 Stealth Federal Corn 4H Battery 07/02/2017 11:00 11 30 Cear 515 MPH Opgal EyeCGas OGI Camera None FlarE,

1/3

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in b Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h) • 60.5397a(h) " Monitored • Monitored • Monitored • Monitored * Component • of Repair • of Repair * Delay of Repair • Original Survey •

N60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7)1 (§60.5420a(b)(7)1 (560.5420a(b)(7)1 (§60.5420a(b)(7)1 (§60.5420a(b)(7) (§60.5420a(b)(7) (§60.5420a(b)(7)1 (§60.5420a(b)(7)((b60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIP

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIP

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIP

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A 07/07/2017 N/A N/A N/A al EyeCGas OGI Ca, 5+ years experience

174

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No.' Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey '

i Time • Time • Surveyor • During Survey • During Survey • Survey • none.) • Detected " Detected •

may need to Identification of Each Affected (960.5420a(b)(7)Q §60.5420a(b)(7)((560.5420a(b) (560.5420a(b)(/)((560.54203(b)rti (560.5420a(b)(7)I (560.5420a(b)(7)I Monitoring Instrument Used • (§60.5420a(b)(7)1 1§60.5420a(b)(7)1 06054203MM

scroll up) Facility • (560.5420a(b)(1)) ill , 4) (7)(ii)) iii)) iv)) iv)) iv))

i (560.5420a(b)(7)(v)) YID vii)) vii))

3052 Steel Unit Battery 03/07/2017 1004 :0 58 49°1- Clear WNW 9 MPH Opgal EyeCGas 001 Carver. None

3052 Steel Unit Battery ..,

07/12/2017 06:30 07:00 76°F Clear E 11 MPH Jogai EveCtias OGI Carnerd None N/A

3053 Stephanie 02/26/2017 15:55 15:41 71F Partly Cloudy W 7 MPH Opgal EyeCGas OGI Camera None N/A

3053 Stephanie 07/04/2017 13:30 14:00 99*F Pa rtly Cloudy SSE 14 MPH Opgal EyeCGas OGI Camera None N/A

4096 Stonewall 9 Fee lii 06/26/2017 09:45 10:15 72F Partly Cloudy ESE 6 MPH Opgal EyeCGas OGI Camera None

4097 Stonewall 9 Fee 8H 01/09/2017 09:35 10:21 76.P Clear SSW 18 MPH Opgal EyeCGas 001 Camera None

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5420a(b)(7)) (§60.5420a(b)(7)((660.5420a(b)(7)((§60•5420a(b)(7) (660-5420a(b)PA (660.5420a(b)(7)1 (560.5420a(b)(7) (660.5420a(b)(7)((§60.5420a(b)(7)1 (§60.5420a(b)(7)i (560.5420a(b)(7) Training and Experience of

viii)) yin)) ix)) ix))

1 ix)) ix)) no

, xi)) xi)) xi)) xii)) Surveyor * (660.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance WAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

176

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

!

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time ' Time • Surveyor • During Survey • During Survey • Survey • none.) " Detected • Detected •

may need to Identification of Each Affected (§60.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b) (§60.5420a(b)(7)I (560.5420a(b)(7)I 460.5420a(b)(7)I (460.5420a(b)(7) Monitoring Instrument Used • (§60.5420a(b)(7) (460.5420a(b)(7)I (660.5420a(b)(7)

scroll up) Facility ' (460.5420a(b)(1)) ill ill (7)(ii)) iii)) iv)) iv)) iv)) (660.5420a(b)(7)(v)) vi)) vii)) vii))

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4097 Stonewall 9 Fee 8H 06/26/2017 103/) 1100 JS' F I'drtfy Cloucv SE 6 MPH Opgal Eye0Gas OGI Camera None N/A

., Stow Plpe Federal Corn 2H 01/13/2017 09.24 10 05 451 Partly Cloudy NW 11 MPH Opgal EyeCGas OGI Camera None N/A NIA

. Stove Pipe Federal Corn 2H 06/27/2011 1315 87"F Clear SSE 5 MPH Opgal EyeCGas OGI Camera None

4099 Stratosphere 36 State Corn 3H 01/12/2017 12:31 132: 63"F Partly Cloudy ESE 9 MPH Opgal EyeCGas 001 Camera None

4099 Stratosphere 36 State Corn 3H 06/27/2017 151.5 1/3, 90.F Clear SE 9 MPH Opgal EyeCGas OGI Camera None

Sure Shot Battery 03/21/2017 10:00 , : .n, 761F Clear CALM Opgal EyeCGas OGI Camera None

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component* of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5420a(b)(1)1 (560.5420a(b)(7)1 (860.5420a(b)(7)) (560.5420albff7)1 (560.5420a(b)(7)1 060.542043)(7)i (560.5420a(b)(7) (560.5420a(b)(7)((860.5420a(b)(7)((860.5420a(b)(7)l (860.5420a(b)(7)11 Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (860.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A 06/29/2017 N/A N/A N/A)1 EyeCGas OGI Ca 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

178

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey • Time • Time • Surveyor * During Survey During Survey • Survey • none.) • Detected ' Detected •

may need to Identification of Each Affected 4560.5420a(b)1711 (§60.5420a(b)(7)((660.5420a(b) 1660.5420a(b)(7)1 (660.5420a(b)(7) (960.5420a(10(7) (660.5420a(b)(7)1 Monitoring Instrument Used ' (960.5420a(b)(7)((460.5420a(b)(7)) (950.5420a(b)(7)1

scroll up) Facility • (960.5420a(b)(1)) i)) I)) mom iii)) iv)) iv)) iv)) (960.5420.(b)(7)(v)) vi)) vii)) vii))

4100 Switchback State 21F1 Battery 04/10/2017 :2:77 13:22 77°F Clear N 11 MPH Opgal EyeCGas 001 Camera None '

4101 Tarpan 33 Fee 4H 06/26/2017 12:00 12:30 78"F Partly Cloudy SEEMPH Opgal EyeCGas OGI Camera None '.

3055 Thunderbird Unit Battery 04/25/2017 10:00 11100 7rF Partry Cloudy WOW 12 MPH Opgal EyeCGas 001 Camera

3056 Timberwolf State Unit Battery

, 05/31/2017 12:00 13:00 777 Party Cloudy [13 MPH Opgal EyeCGas 001 Camera None N/A N/A

3057 Trailblazer (Angler) Battery 00/13/2017 08:00 09:00 57°F Partly Cloudy SW 6 MPH Opgal EyeCGas OGI Camera None N/A N/A

3058 Tycoon C Battery 03/21/2017 09:00 10:00 74°F Clear CALM Opga I EyeCGas OGI Camera None N/A N/A

179

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

560.5397a(h)* 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5420a(b)(7)((§60.5420a(b)(7) (§60.5420a(b)(7)((560.5420a(b)(7) (§60.5420a(b)(7) (§60.5420a(b)(7)i (§60.5420a(b)(7)1 (§60.5420a(b)(7)) (§60.5420a(b)(7)((§60.5420a(b)(7)f (§60.5420a(b)(7)I Training and Experience of

Viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor ' (560.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FUR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

-

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

180

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No.' Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (If none, state Emissions Emissions

dropdown list - Date of Survey' Time • Time • Surveyor • During Survey • During Survey • Survey • none.)' Detected • Detected •

may need to Identification of Each Affected (660.5420a(b)(1) (960.5420a(b)(1)(i (660.5420a(b) (660.5420a(b)(711 (960.5420a(b)(7)1 (660.5420a(b)(7)((660.5420a(b)(7)l Monitoring Instrument Used' (960-5420a(b)(7)1 (460.5420a(b)(7)1 (660.5420a(b)(7)

scroll up) Facility • (660.5420a(b)(1)) in 1)) MOM iii)) iv)) iv)) iv)) (960.5420a (6)(7)(v)) vi)) vii)) vii))

3059 Tycoon 0 Battery 04/13/2017 11:00 12:00 65'F Partly Cloudy SW 9 MPH Opgal EyeCGas OGI Camera None N/A N/A

31c0 Tycoon E Battery 05/31/2017 11:00 12:00 75'F Party Cloudy E 13 MPH Opgal EyeCGas OGI Camera None

3961 Tycoon F Battery 03/21/2017 11:00 12.00 77'E a CALM- Opga I EyeCGas 001 Camera None N/A

3062 Tycoon G Battery 05/09/2017 08:30 09:30 66°F s SSE 6 MPH Opgal EyeCGas OG I Camera None N/A

4102 Tyrell Fee 114 02/28/2017 07:55 0845 5137 Partly Cloudy SSW 8 MPH Opgal EyeCGas

OGI Camera None NIA

306 3 Vanessa 5232E311 (Karen Vanes.) 03/15/2017 13:31 14:18 74°F Clear SSE 16 MPH Opgal EyeCGas OGI Camera None N/A N/A

191

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h). 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey*

(860.5420a(b)(7)((860.5420a(b)(7) (860.5420a(b)(7)((§60.5420a(b)(7)I (860.5420a(b)(7)((§60.5420a(b)(7)((§60.5420a(b)(7) (860.5420a(b)(7)((860.5420a(b)(7)((860.5420a(b)(7)1 (860.5420a(b)(7)1 Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (560.5420a(b)(7)(iii))

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance WAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance WAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

182

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

I !

Number of Each

Type of Component Type

Facility Record Deviations From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End Name of Temperature Sky Conditions Speed During (if none, state Emissions Emissions

dropdown list- Date of Survey ' Time • Time • Surveyor * During Survey • During Survey • Survey • none.) • Detected • Detected •

may need to Identification of Each Affected (960.5420alb)(7) (660.5420a(b)(7)((660.5420a(b) (k60.5420a(b)(7)((§60.5420a(b)(7)) (660.5420a(b)(7) (660.5420a(b)(7)I Monitoring Instrument Used • (660.5420a(b)(7)i (660.5420a(b)(7)i (660.5420a(b)(7)

scroll up) facility • (660.5420a(b)(1)) in in 17/01) iii)) iv)) iv)) iv)) (960.5420a(b)(7)(v)) vi)) vii)) vii))

1

4103 Vast State 2H Battery 04/11/2017 11:00 1203 677 Partly Cloudy E 13 MPH Opgal EyeCGas OGI Camer

3064 Veto Battery 02/06/2017 11:30 12:30 62'F Partly Cloudy WSW I3 MPH Opgal EyeCGas OGI Camera None

3064 Veto Battery 07/11/2017 08:30 09:00 01'F Clear ES MPH Opgal EyeCGas OGI Camera None ,

Viking Helmet State Corn 2H

4104 Battery 01/28/2017 10:05 11:00 36*F Clear WNW 8 MPH Opgal EyeCGas OGI Camera None N/A N/A

Viking Helmet State Corn 2H

Battery 06/27/2017 11:15 11:45 847 Clear SSE 7 MPH Opgal EyeCGas 001 Camera None N/A N/A

,:rr,r, Warbler State Corn 2Y Battery 03/01/2017 09:11 09:59 487 Gear N 12 MPH Opgal EyeCGas 001 Camera None N/A N/A

183

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h)* 60.5397a(h)* Monitored • Monitored * Monitored * Monitored • Component * of Repair * of Repair • Delay of Repair * Original Survey*

(560.5420a(b)(7)) (860-5420a(b)(7)1 (§60.5420a(b)(7)((560.5420a(b)(7)I
(560.5420a(b)(7)i (§60.5420a(b)(7)((§60.5420a(b)(7)I (§60.54200(b)(7)l
(560.5420a(b)(7)((860.5420a(b)(7)((860.5420a(b)(7) Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) s)) xi)) xi)) xi)) xii)) Surveyor *
(§60.5420a(b)(7)(iii))

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FUR

Quad On training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 5+ years experience

184

COG Operating, LLC

NSPS 0000a Annual Report

Fugitive Components

/

Number of Each

Type of Component Type

Facility RecccdDeviations 1 From Component for for which

No. • Ambient Maximum Wind Monitoring Plan which Fugitive Fugitive

(Select from Survey Begin Survey End . Name of Temperature Sky Conditions Speed During
(if none, state Emissions Emissions

dropdown list - Date of Survey • Time* Time • Surveyor • During Survey • During Survey*

Survey " none.) • Detected • Detected •

may need to Identification of Each Affected (460.5420a(b)(7 §60-5420MbX7)((560.5420a(b) (560.5420a(bX7)) (560.5420a(b)(7)1 (4603420a(b)(7) (¢60.5420a(b)(7)1 Monitoring Instrument Used • (460.5420a(b)(7)10(660.5421MIOM (§60.5420e(b)(7 11

scroll op) Facility • (860.5420a(b)(1)) 1)) i)) 17)(10) iii)) iv)) iv)) iv)) (560.5420a(b)(7X0 vi)) vii)) vii))

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4105 Warbler State Corn 2Y Battery 07/02/2017 15:30 16:00 92'F Clear SE 10 MPH Opgal EyeCGas 061 Camera None N/A N/A

4106 West Pearl 36 CTB 01/12/2017 09:28 10:22 50°F Partly Cloudy SSW 5 MPH Opgal EyeCGas 061 Camera None N/A N/A

4106 West Pearl 36 CTB 06/27/7017 17:15 17:45 92*F Clear SE 9 MPH Opgal EyeCGas 001 Camera ...,

None N/A N/A

3065 Wetherbee 421H Battery 05/18/2017 10:00 11:00 75°F Clear S 9 MPH Opgal EyeCGas OGI Camera None N/A N/A

3066 Windham A H Unit Battery 03/23/2017 08:03 09:00 62F Partly Cloudy 5 17 MPH Opgal EyeCGas OGI Camera None N/A N/A

3067 Worsham 614 1405H Battery 04/13/2017 12:00 13:00 73°F Partly Cloudy SW 8 MPH Opgal EyeCGas 061 Camera None N/A N/A

185

Type of

Instrument Used

Type of Number of Each Number of Each Number of Each Date of to Resurvey

Component Not Component Type Type of Difficult- Difficult -to- Type of Unsafe- Unsafe -to- Successful Repair Type of Number of Each Repaired

Repaired as Not Repaired as to -Monitor Monitor to -Monitor Monitor of Fugitive Component Component Type Components Not

Required in Required in § Components Component Type Component Component Type Emissions Placed on Delay Placed on Delay Explanation for Repaired During

§60.5397a(h). 60.5397a(h)* Monitored * Monitored * Monitored * Monitored * Component * of Repair * of Repair * Delay of Repair * Original Survey *

(§60.5420a)b)(7)l (§60-5420a(b)(7)l (5605420a(b)(7)l (§60.5420a(b)(7) (§60.5420a(b)(7)1 (§60.542000)(7)((§60.5420a(b)(7) (§60.5420a(b)(7)((560.5420a(b)(7)((§60.5420a(b)(7)I (§60.5420a(b)(7)I Training and Experience of

viii)) viii)) ix)) ix)) ix)) ix)) x)) xi)) xi)) xi)) xii)) Surveyor * (§60.5420a(b)(7)(iii))

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance WAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance MAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance MAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A Guardian Compliance LDAR

training and certification, FLIR

Quad Oa training and certification,

5+ years experience

186

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611 Will Till 11,iL 2:

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Facility Name: Admiral Federal Corn 2H Battery

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 0000a 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.

Date: ID/61 I,gof

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Azores Federal 3H Battery

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 0000a 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.

Date: 1131gbil

PE Certification: NM 15024

404fik

COG Operating, LIC

MPS 0000a - Closed Vent System Design Certification (per 40 CFR 603416(M/4M

Facility Name: Banter State Corn 4H Battery

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 0000a 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.

Date: 9 131aDi3

PE Certification: NM 16024

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COG Operating, LI.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 603416(01n

Facility Name: Beech 25 Federal 9H Battery

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 0000a 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.

Date: rur t)s4- 1,,9617

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Blue Jay Federal 1H Battery

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 0000a 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.

Date: ib 9 *ill

PE Certification: NM 16024

16114(061A

COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Bone Yard 11 Fee 12H

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 0000a of 40 CFR part 60. Based

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knowingly submitting false information.

Date: filAySi A4

PE Certification: NM 16024

COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Boone 16 State Corn 2H Battery

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 0000a of 40 CFR part 60. Based

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

Date: 1019

PE Certification: NM 16024

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COG Operating, LIC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Bose Ikard 4 State Corn 18H

I certify that the closed vent system design and capacity assessment was prepared under my direction or

supervision. 1 further certify that the closed vent system design and capacity assessment was conducted

and this report was prepared pursuant to the requirements of Subpart 0000a of 40 CFR part 60. Based

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

Date: fftt,ISj icv9014.

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 603416(01M)

Facility Name: Bradley 8 Fee 2H

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 0000a of 40 CFR part 60. Based

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knowingly submitting false information.

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Bradley 8 Fee 3H

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

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knowingly submitting false information.

Date: ilvittRf /0, 02M-

PE Certification: NM 16024

COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Branex-COG Federal 1/ Battery

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

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PE Certification: NM 16024

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COG Operating, LIC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Buitaco State 1H Battery

I certify that the dosed 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

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knowingly submitting false information.

Date: !O/6) lapiq

PE Certification: NM 16024

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(COG Operating, U.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Burch Keely Unit 13A

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 0000a of 40 CFR part 60. Based

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Burch Keely Unit 13C

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 0000a of 40 CFR part 60. Based

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PE Certification: NM 16024

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COG Operating, 1.1.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Burch Keely Unit 18A

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 0000a of 40 CFR part 60. Based

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PE Certification: NM 16024

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COG Operating, U.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Burch Keely Unit 23A

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

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

Date: AOitgt. Or+

PE Certification: NM 16024

COG Operating, LEC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Cabo Blanco State Battery

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 0000a of 40 CFR part 60. Based

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PE Certification: NM 16024

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COG Operating, LLC

MPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Cadillac 15 State 411

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

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knowingly submitting false information,

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PE Certification: NM 16024

COG Operating, LJLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Cali Roll 24 Federal Corn 2H Battery

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

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(01M

Facility Name: Carmen 3 Federal 1H

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

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: CCAP State Corn 614 Battery

I certify that the dosed 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

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PE Certification: Certification: NM 16024

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COG Operating, LC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Chopper State Corn 3H Battery

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

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

Date: 10111

PE Certification: NM 16024

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COG Operating, LI.0

NSPS 0000a -Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Clydesdale 1 Fee 611

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

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Columbus Fee 2H Battery

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

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Date: 101111,QN4.

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Cookie Tosser State Corn 1H Battery

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

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Cookie Tosser State Corn 2H Battery

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Copperhead 33. Fed Corn 3H Battery

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

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Date: 100 001

PE Certification: NM 16024

COG Operating, LI.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Coronado 35 Federal Battery

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

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knowingly submitting false information.

Date: ID

PE Certification: NM 16024

COG Operating, LI.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.54160MM

Facility Name: Cottonmouth 23 Federal Corn 2H

I certify that the closed vent system design and capacity assessment was prepared under my direction or

supervision. I further certify that the dosed vent system design and capacity assessment was conducted

and this report was prepared pursuant to the requirements of Subpart 0000a of 40 CFR part 60. Based

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knowingly submitting false information.

Date:

PE Certification; NM 16024

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COG Operating, LLC

NSPS 0000a Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Crapshoot Federal 2H Battery

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

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Date: loin ppiq

PE Certification: NM 16024

COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.541.6(d)(1)(1)

Facility Name: Diamondback 22 State Corn 511 Battery

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

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a Closed Vent System Design Certification (per 40 CFR 60.5416(01)W

Facility Name: Dodd Federal Unit 10B

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

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Dodd Federal Unit 14A Battery

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

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Date: if,czri

PE Certification: NM 16024

COG Operating, LIC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Dodd Federal Unit 1SA Battery

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

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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.

Date: 14,1,20R

PE Certification: NM 16024

COG Operating, LIC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Eata Fajita State Corn 6H Battery

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

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knowingly submitting false information.

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Eata Fajita State 9H & 10H Battery

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

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Date: q113

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a -Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Eider Federal 2H Battery

I certify that the dosed 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

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Date: /DM g()17

PE Certification: NM 16024

COG Operating LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Electra Federal 33 (North)

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

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Fascinator Fee Corn 2H Battery

certify that the closed vent system design and capacity assessment was prepared under my direction or

supervision. 1 further certify that the closed vent system design and capacity assessment was conducted

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certification submitted herein is true, accurate and comptete. I am aware there are penalties for

knowingly submitting false information.

Date: 9 I I s

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Flat Head Federal Corn 6H Battery

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 0000a of 40 CFR part 60. Based

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

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PE Certification: NM 16024

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COG Operating, Elk

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 603416(01)W

Facility Name: Flat Head Federal Corn 27H Battery

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 0000a of 40 CFR part 60. Based

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

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PE Certification: NM 16024

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COG Operating, LIC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Geronimo Federal Corn 11H Battery

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 0000a of 40 CFR part 60. Based

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

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PE Certification: NM 16024

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COG Operating, LLC

MPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Glacier Federal Corn 1.H Battery

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 0000a of 40 CFR part 60. Based

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

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PE Certification: NM 16024

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COG Operating, 1.1.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Goose State 1H Battery

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 0000a of 40 CFR part 60. Based

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knowingly submitting false information.

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Graham Nash Federal Corn 7H

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 0000a of 40 CFR part 60. Based

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

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PE Certification: NM 16024

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COG Operating, Li.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(01)M

Facility Name: Gunner 8 Federal 6H and 7H Battery

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 0000a of 40 CFR part 613. Based

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 605416(01)M

Facility Name: Halberd 27 State 3H Battery

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

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

Date: RtUSf ig11

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Horned Owl Federal 3H

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 0000a of 40 CFR part 60. Based

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COG Operating, U.0

MPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Ivar the Boneless Federal 11H

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

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PE Certification: NM 16024

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COG Operating, LIZ

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: lazzbass 34 Federal Battery

I certify that the dosed 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

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Date: tip poi 4

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: King Air 8 Federal Corn 3H

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

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PE Certification: NM 16024

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COG Operating, LIC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Lajitas BWQ St Corn 1H Battery

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

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Date: Min 10011-

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Lusk Deep Unit A 23H Battery

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

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PE Certification: NM 16024

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YV COG Operating, 1.1.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Lusk Deep Unit A 2511 Battery

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

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Lychee BWS State Corn IA Battery

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

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Date: /0/qc20/7

PE Certification: NM 16024

COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Macho Nacho State Corn 1011 Battery

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

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PE Certification: NM 16024

COG Operating, LLC

NSF'S 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Man State 2H Battery

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

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Mas Federal 3H Battery

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

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PE Certification: NM 16024

COG Operating, LLC

NSFIS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Mastiff Federal 3H Battery

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

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COG Operating, LIC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: McIntyre DK Federal 15

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

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PE Certification: NM 16024

COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Monet Federal 3H Battery

I certify that the closed vent system design and capacity assessment was prepared under my direction or

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Music Master 27 Federal 3H Battery

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

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Myox 5 State Corn 22H Battery

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

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 603416(01M

Facility Name: Myox 6 State Corn 3H Battery

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

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PE Certification: NM 16024

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COG Operating, 1.1.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Newcastle 6 Federal Corn 7H

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

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PE Certification: NM 16024

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COG Operating, 1.I.0

NSPS 0000a Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Pan Head Fee 4H Battery

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

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PE Certification: NM 16024

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NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60,5416(d)(1)(1)

Facility Name: Pan Head Fee 1.3H Battery

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

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Patron 23 Federal 4E1 Battery

I certify that the closed vent system design and capacity assessment was prepared under my direction or

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.541640MM

Facility Name: Pi!um 15 Fee 2H

1 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

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Populus Federal 3H Battery

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

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PE Certification: NM 16024

COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Puckett 13 Federal Corn 8P1

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

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Puckett 13 Federal Corn 35H

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

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PE Certification: NM 16024

COG Operating ILLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

fadlity Name: Queso State 1H Battery

I certify that the dosed 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

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Date: I I-3 aori-

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Queso State 3H and SH Battery

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

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PE Certification: NM 16024

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COG Operating, LI.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Ragnar Federal

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

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PE Certification: NM 16024

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COG Operating, 1.1.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Raspberry State 1H Battery

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

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PE Certification; NM 15024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Red Raider BKS State #1

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

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 605416(d)(1)(i)

Facility Name: Resolver Fed Corn 2H Battery

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 0000a of 40 CFR part 60. Based

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Date: min labli

PE Certification: NM 16024

COG Operating, LI.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Sidewinder Federal Corn 4H

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

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certification submitted herein is true, accurate and complete. I am aware there are penalties for

knowingly submitting false information.

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PE Certification: NM 26024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Vast State 2H Battery

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

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Date: it)// 1 1,9011

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: White Falcon State 111

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

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PE Certification: NM 16024

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COG Operating, !LC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Roadrunner Fed Corn 1H Battery

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

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PE Certification: NM 16024

COG Operating, LIC

NSPS 0000a Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Sam Adams 12 Federal Corn 4H

I certify that the closed vent system design and capacity assessment was prepared under my direction or

supervision, t further certify that the closed vent system design and capacity assessment was conducted

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NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(0

Facility Name: Scooter Federal Corn 2H

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

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COG Operating, Lik

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 605416(d)(1)(1)

Facility Name: Screech Owl CrB

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

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 603416(01)M

Facility Name: Sherman 4 Fee 6H

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

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PE Certification: NM 16024

COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Shiner Bock 1 Federal Corn 81-1

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

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 603416(01W)

Facility Name: Sltka BSI State Corn 1H

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

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PE Certification: NM 16024

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COG Operating, LI.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 603416(01)W

Facility Name: Skelly Unit 942 Battery

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 0000a 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.

Date: Attusi

PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Skull Cap Fed Corn 22H Battery

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 0000a of 40 CFR part 60, Based

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knowingly submitting false information.

Date:

PE Certification: Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 605416(01)W

Facility Name: SL East 30 Federal 214 Battery

I certify that the closed vent system design and capacity assessment was prepared under my direction or

supervision. (further certify that the closed vent system design and capacity assessment was conducted

and this report was prepared pursuant to the requirements of Subpart 0000a of 40 CFR part 60. Based

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Smalls Federal 1H Battery

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 0000a of 40 CFR part 60. Based

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COG Operating, Lit

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Sneed 9 Federal Corn 2H

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

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Sombrero Federal Corn 4H Battery

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 0000a of 40 CFR part 60. Based

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Spruce Goose Fed Corn 3H Battery

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 0000a of 40 CFR part 60. Based

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PE Certification: NM 16024

COG Operating, LIC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Stealth Federal Corn 4H Battery

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 0000a of 40 CFR part 60. Based

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PE Certification: NM 16024

COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Stonewall 9 Fee 1H

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 0000a of 40 CFR part 60. Based

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Date: 1100 k,20/7.

PE Certification: NM 16024

COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Stonewall 9 Fee 81.1

I certify that the dosed vent system design and capacity assessment was prepared under my direction or

supervision. I further certify that the dosed vent system design and capacity assessment was conducted

and this report was prepared pursuant to the requirements of Subpart 0000a of 40 CFR part 60. Based

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LOG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d) 1)(i)

Facility Name: Stove Pipe Federal Corn 2H

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 0000a of 40 CFR part 60. Based

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Stratosphere 36 State Corn 3H

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

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Date: DitoPM

PE Certification: NM 16024

COG Operating, LI.0

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Fadlity Name: Switchback State 21H Battery

I certify that the closed vent system design and capacity assessment was prepared under my direction or

.upervision, t runner certify that the closed vent system design and capacity assessment was conducted

and this report was prepared pursuant to the requirements of Subpart 0000a of 40 CFR part 60. Based

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Tarpan 33 Fee 4H

I certify that the closed vent system design and capacity assessment was prepared under my direction or

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Tyre!! Fee 2H

I certify that the closed vent system design and capacity assessment was prepared under my direction or

supervision. I further certify that the dosed vent system design and capacity assessment was conducted

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(01M

Facility Name: Vast State 2H Battery

I certify that the dosed 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

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(1)

Facility Name: Viking Helmet State Corn 2H Battery

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 0000a of 40 CFR part 60. Based

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PE Certification: NM 16024

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COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(I)

Facility Name: Warbler State Corn 2(Battery

(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 0000a of 40 CFR part BO. 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.

Date: i0D/aCrq

PE Certification: NM 16024

COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(01W)

Facility Name: West Pearl 36 CTB

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 0000a of 40 CFR part 60. Based

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PE Certification: NM 16024

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itt (COG Operating, LLC

NSPS 0000a - Closed Vent System Design Certification (per 40 CFR 60.5416(d)(1)(i)

Facility Name: Windward 2H Battery

I certify that the dosed 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

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devon

October 31, 2017

US EPA Region 6

1445 Ross Avenue, Suite 1200

Dallas, TX 75202

Attn: EPA Administrator Devon Energy Corporation

333 West Sheridan Avenue

Oklahoma City, OK 73102

- 7J:11: 5J

.1 bile/ 405 235 3611 Phone

www.devonenergy.com

As required by the Code of Federal Regulations Title 40 §60.4, please find enclosed copies of the Title 40

§60.5360 (NSPS 0000) Annual Report and the Title 40 §60.5360a (NSPS 0000a) provided to

the

following delegated authorities in EPA Region 6.

The following are enclosed:

• Appendix A: Oklahoma Department of Environmental Quality

• Appendix B: New Mexico Eivironmental Department

• Appendix C: Texas Commission on Environmental Quality

Sincerely„ 4

Mike Smith

EHS Supervisor

(405) 228-8552

Mike.Smith@dvn.com

devon

Appendix A: Oklahoma Department of Environmental Quality

devon

October 17, 2017

Mr. Eddie Terrill, Director

Air Quality Division

Oklahoma Department of Environmental Quality

P.O. Box 1677

Oklahoma City, OK 73101

Dear Mr. Terrill: Devon Energy Corporation

333 West Sheridan Avenue

Oklahoma City, OK 73102

R

OCT 3 0 2017

AIR QUALITY 405 235 3611 Phone

www.devonenergy.com

As required by the Code of Federal Regulations Title 40 §60.5360 (NSPS 0000), Devon Energy is

submitting the annual compliance report. The attached NSPS 0000 report is for the following

timeframe: October 15, 2016 - October 14, 2017.

In addition, Devon Energy is also submitting the annual compliance report required by the Code of

Federal Regulations Title 40 §60.5360a (NSPS 0000a). The attached NSPS 0000a report is for the

following timeframe: September 18, 2015- August 2, 2017.

Devon respectfully requests to align the reporting date for all future reports required by both of these

NSPS and submit concurrently on October 31.

Devon is including the following information:

• Table 1- LDAR Survey Data

• Table 2 - Hydraulically Fractured Well Flowback Data

• Table 3 - Pneumatic Pumps

• Table 4- Storage Vessels

Devon did not have NSPS 0000 and/or NSPS 0000a applicable Pneumatic Controllers, Centrifugal

Compressors or Reciprocating Compressor affected facilities during these reporting periods. Therefore,

tables for these equipment types are not provided.

In accordance with Title 40 §60.5360 and §60.5360 I,

Brent Smith Manager of Production Engineering (Responsible 0ffic44tdrtify based on information and

belief formed after reasonable inquiry, the statements and information in the attached NSPS 0000

document are true, accurate, and complete.

Sincerely,

•

BretigSrhith

Manager Production Engineering

(405) 552-3442

NSPS 00004 Annual Report

Devon Energy

331 West Sheridan Avenue

Okiehoma City, OK 73102

Reporting Period: PAPS 0000. September 18, 2015 -August 2.2011

Oklahoma

Table 1 - LDAR Survey Data

COUNT COMPONENT(S) SUCESSFUL

IAllTUDE LONGITUDE AMBIENT MAXIMUM MONITORING WITH FUGITIVES REPAIR REPAIR DATE

SUM/MID INSPECTION TYPE FACIUTY NAME WFULST (08140 83) INAD93) START DATE MUM DATE PERFORMED BY TRAINING/EXPERIENCE - TEMPERATURE MY CONDITION YARD SPEED INSTRUMENT USED DEVIATION SURVEY OUTCOME COMPONENT DETECTED " METHOD'

ALMA 18 -15N -9W III- 3507325140, ALMA 18-155-9W 216 Received IN Camera Operations &

000020425029 OMR ALMA 1 & 2-110 BATTERY 3507325142 4/11/179:43 4/11J1710:23 Functionality Training on 1/26/2017 SO Partly Cloudy 10 IR Camera N/A No Repair Required N/A N/A N/A N/A

Received IX Ca nun Opirtations &

000020425031 LIAR ALMA 1.8.11-958 WELLPAD ALMA 18-1514-9W 514- 3507325152 4/11/17 8:43 4/11/17930 Functionakty Training on 1/26/2017 so Partly Cloudy 3 *Camera N/A No Repair Required N/A N/A N/A N/A

ALMA 18 -15N -9W 3H- 3507325150, ALMA 18 -15N -9W 4E6 Received IN Camera Operations &

000320925030 LIAR ALMA 3 & 4-184 BATTERY 3507325151 4/11/179:10 4/11/17 9:00 Functionality Training on 1/26/2017 59 Partly Cloudy 9 ft Camera N/A No Repair Required N/A N/A N/A N/A

Received IR Camera Operations &

0313020425032 WAR APRES VOUS DIX PAD AYRES VOUS 24_13 -14N -8W 1440-1501124950 4/6/17 13:57 4/6/17 14:20 Funetionakty Ironing on 1/26/2017 67 Ckar2 IR Camera N/A No Repair Required N/A N/A N/A N/A

BLAND 29 -13N -8W 916 3501724829, 89110 29-1314-11W 1116 .

Received IR Camera Operations &

000020449253 LOAN BLAND 29 PADS 3501724131, BLAND 29-13168W 1011- 3501724830 6/10/17 13:17 6/14/17 13:57 Functionality Training on 1/26/2017 97 Monty Cloudy 17 IR Canurra N/A No Repair Required 11/A N/A N/A NIA

Received IN Camera Operations &

000020449252 MAR BLAND 19-13-8114 WELLPAD BLAND 29-13-8 IN- 3501724449 6/3/3715:18 6/2/1713:50 Functionafty Trawling on 1/26/2017 05 Mostly Cloudy s is Camera N/A No Repair Required N/A N/A N/A N/A

Received IN Camera Operations 81

000020425034 MAR BLUE 00 31_303691-10W 1111 WELLPAD 81118 00 31_30-19610W 1106 3501123579 5/2/17 1135 5/2/171230 Functionality I ratning on 1/26/2017 72 Partly Cloudy 7 IR Camera N/A No Repair Required N/A N/A N/A N/A

Recened IR Camera Operations 8,

000020425035 LDAR BOOMER 31 2A4 PAD BOOMER 31 2434-3907325161 4/6/178:1! 4/6/17858 Functioning Training on 1/26/2017 48 dear 4 iR CAT.] N/A No Repair Required N/A N/A N/A N/A

Received IR Camera Operatians &

000020425036 LIAR BORN TREE 30000 1 BORN FREE 30 2/Al- 3507325139, BORN TREE 3024-3507325145 5/8/17 11:33 5/8/17 12:13 Fun-M.14*y Training on 1/26/2017 81 Ckar 14 IR Camera N/A No Repair Required N/A N/A N/A NIA

Received IR Camera Operations &

000020427392 LOAD BRECKENRIDGE 27 PAO 1 BRECKENRIDGE 27-2008-17W 116 3515323586 5/2/17 9:49 5/2/1719-29 Funclionakty Training on 1/26/2017 65 Partly Cloudy s M Camera N/A No Repair Required N/A N/A N/A N/A

Received ill Camera Operations &

0130020425037 WAR CHAIN RANCH 14-2 WELLPAD CHAIN RANCH 114-2- 3504323395 4/12/1719-49 4/12/1711615 Functionality Training on 1/26/2017 69 Overcast 17 IR Camera N/A No Repair Required N/A N/A N/A N/A

Recoved IR Camera Operations &

000020425038 MAR CHAMPAGNE 21619171/ 111IPAD ,CHAMPAGNE 28-194-7W 114-3107325247 4/6/178:25 4/6/17 900 Functionality Traning on 1J26/2017 57 Clew 0 IR Camera N/A No Repair Required N/A 14/6 N/A N/A

Recened IR Camera Operations &

000020425039 MAR CHICKEN YARD 32-1514-7W WEURAD CHICKEN YARD 32.1514,7W 111. 3507325286 4/6/17 930 4/6/1719-30 Functionality Training on 1/26/2017 56 Clear 3 IR Camera N/A No Repair Required N/A N/A NIA NIA

90100.4 18 Camera Operations &

000020427393 LOAR CHISHOLM TRAIL 19_18 P601 CHISHOLM TRAIL 19_113.16N.9W 140. 3501123638 0/6/17 739 4/6/17800 Functionality Training on 1/26/2017 48 Clear 4 IR Camera N/A No Repair Required N/A N/A N/A N/A

Recnied IR Corneal Operations &

000020425081 1048 CLOUD NINE 26_33 44 PAD CLOUD NINE 3328 411. 3507325173 4/6/17 12:54 4/6/17 13:34 Fawn:runty Training on 1/26/2017 67 Clear 7 IR Carneia N/A No Repair Required N/A N/A N/A NM

Received IR Camera Operations &

000020425062 LOAN COLUMBINE 15 PAD 1 COLUMBINE 154614- 3501123520 4/11/1719-07 4/11/17 13:47 Functionality Trailing on 1/26/2017 66 Clear 5 IR Cartier. N/A No Repair Required N/A N/A N/A N/A

Received Ill Coiner. Operations &

000020427394 LOAR COOKS44A0(111 PAD COOKSHACK 4 -16N -7W Ill- 3507325335 5/4/17 12:23 5/4/17 1234 Functionality Training on 1/26/2017 69 Partly Cloudy 14 II Camera N/A No Repair Required N/A N/A N/A N/A

Received IN Camera Operations &

000020425083 113.00 COWS FACE!! 5 PAD 1 COWS FACE 0805 116 3507325196 4/27/1712:01 4/27/1712:20 Functionality Traning on 1/26/2017 64 Overcast s IR Camera WA No Repair Required NM N/A N/A NIA

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DAUGHETY 31-148-9W 3/1- 3501724749, DA4,1034E1Y31.14N.9W M. Received IR Camera Operations &

000020425084 WAR DAUGH Ell 2,3 BATTERY 3501724746 3/21/17 832 3/21/178:45 Functionality Training on 1/26/2017 74 Clear 7 IR Camera N/A No Repair Required N/A N/A N/A N/A

OMAGH ETV 33 -14N -9W441. 3301724756, DAUGHETY 31-1411-9W 51-1. Received IR Camera Operations &

000020425085 LOAR DAUGHETY 4, 6.6 BATTERY 3501724757, DAUGHETY 31 -34N -9W611- 3501724753 3/20/17 900 3/20/17 9:40 Functionality Training 00 1/26/2017 75 Clear s is Camera N/A No Repair Required N/A N/A N/A N/A

DAUGHETY 31 -14N -9W 714-3501724766. DAUGHETY 31 -14N -9W WI- Received IR Camera Operations &

000020425086 LOAN DAUSHETY 7, 8, 9 BATTERY 3501724777, DAUGHETY 31 -34N -9W911- 3501724778 3/21/179-50 3/22/37920 Functionality Training on 1/26/2017 66 Partly Cloudy 3 IR Careen N/A No Repair Required N/A N/A N/A N/A

Received IR Corners Operations &

000020425087 LOAN DEALERS CHOICE 2 PADS DEALERS CHOICE 02 3,418- 35131724835 3/20/176:16 3/30/17 8:56 Functionality Traaing 00 1/76/2087 49 Overcast 13 *Camera N/A No Repair Required N/A N/A N/A NIA

Received IR Camera Operations &

000320425088 LOAN DIVIDE -CLARK 1104 PAD DIME -CLARK 28 21-1414-6W 1*01- 3501724913 4/3/17 8:23 4/3/17903 Functionality Traming on 1/26/2017 35 Clear s st Camera N/A No Repair Required N/A N/A N/A NIA

Received IN Camera Operations &

000020453327 LOAN FERGUSON 12-1984-16W 111 - II FERGUSON 12-1981-16W 14-B- 3501323502 6/16/1713-37 6/16/17 1337 Functionality Training 00 1/26/2017 95 Clear 6 M Camera N/A No Repair Required N/A N/A N/A N/A

Received IN Camera Operations &

00002049626 LDAR GAME TRAK 35 PAD 1 GAME TRAIL 35 -14N -8W 116 3501724945 7/31/17 8:28 7/32/179616 Functionality Ironing on 1/26/2017 76 Overcast 2 M Camera N/A No Repair Required N/A N/A N/A N/A

Receved IR Camera Operations &

000020427395 WAR SANDY DANCER 3 PAD 1 CANDY DANCER 3-1316404 114- 3501724918 1/30/177:41 3/30/178:10 4 unrtionality Inning on 1/26/2017 49 Overcast 10 1111 Camera N/A No Repair Required N/A N/A NfA N/A

Received IN Camera Operations &

030720466619 LOAN GEIS_STANGL PAD 1 STANGE 2 -15N -9W 111- 3507325430 GEIS 1-15119W 144-3507329402 7/31/17 9:11 7/31/179:51 Funrtionality Training on 1./26/2017 BO

Overcast 7 IR Camel. N/A No Repair Required N/A N/A N/A N/A

Received IR Camera Operations &

000020425089 LDAR GORDON 1-354 WELLPAD GORDON 1-3514- 3501724239 4/25/1715:31 4/25/1716:37 Functionality Training on 1/26/2017 78 Overcast 10 IR Careers N/A No Repair Requiral N/A N/A N/A N/A

Recaved IR Camara Operations 8,

013020425090 1069 41514559 14-1458-9W Ill PAD HANSEN 14-1414-9W 14-3901724979 5/1/17903 5/1/179:43 Functionality Training on 1/26/2017 59 dear 11 RI Carnes. NiA No Repair Required N/A N/A N/A N/A

Received IR Camera Operation, &

000020429408 LDAR 1.6900.0 16 9-1544-9W 110 HAROLD 16_9 -15N -9W 1113- 3507325361 4/23/179-26 4/25/179616 Functionality Training on 1/26/2017 66 Partly Cloudy 17 IR Camera N/A No Repair Required N/A N/A N/A N/A

Recened IR Camera Operations &

000020425091 MAR HERMAN 3 34 PAD 1 HERMAN C13 34-155-11W (HI- 3501724923 3/30/17 14:36 3/34/1711:16 FunctIonalig Danko 00 1/26/2017 61 Partly Cloudy 8 IR Camera N/A No Repair Required N/A N/A N/A N/A

4406505 26-1399W DI- 3501724799, HOBSON 26-13419W 24-

3501724796, 1408506 26 13N .9W 314- 3501724797,140610N 26-13N Received IR Camera Operations &

000320425092 WAR 1105505 26 PAD 1 9W 416 3501724798 5/8)1710.01 5/9/17 10:45 Functionality Tra,ning on 1/26/2017 66 Overcast 13 IR Camera N/A No Repair Required N/A 5/4 N/A N/A

1/011505 21139-904 611- 3501724000,11013SM 26-1313-9W 741-

3501724801, HOBSON 26 -13N -9W 816 3501724802, HOBSON 26-136 Received IR Camera Operations &

000020425093 WAR HOBSON 26 PAD 2 9W 916 3501724803 5/11/17 9:213 5/11/178:58 Functionaity 1 ramIng on 1/26/2017 73 Partly Cloudy 1 IR Camera N/A No Repair RaHdred N/A N/A N/A N/A

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000020442884 LDAR HORSEFLY 24_13 P1401 HORSEFLY 24_13-19610W DIX- 3501123692 5/22/1750:58 5/32/171158 Functionality Training 00 1/26/2017 ss Overcast 7 IR Camera N/A No Rand Rrtwired N/A 11,9 N/A N/A

Received IR Camera Operations &

000020438834 LDAR IRON MASK 36_25 PAD 1 IRON MASK 36_25-1458-111W 1440- 3501724930 6/1/17 12:12 6/1/3712-31 Functionality Trailing on 1/26/2017 86 Monty Cloudy 4 IR Camera N/A No Repair Required N/A N/A N/A N/A

Received IR Camera Operations &

001020425094 LIAR JERRY1.01 27-1911194 1H JERRY LEE 27-199-16W 111- 3504323445 4/17/171207 4/17/17 12:47 FunctionaIty Training on 1/26/2017 67 Overr.ast 16 Ill Camera N/A No Repair Required N/A N/A N/A N/A

Received IX Camera Operations &

00:020429407 1048 JONES 30 PAD 1 JONES 30-1911-14W 1/1- 3504323481 5/3/179:11 5/8/17931 Functiooakty Training on 1/26/2017 73 Clear 11 IR Camera N/A No Repair Required N/A N/A N/A N/A

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000220425095 WAR JUDITH ANN 1H-2 WEL1PAD JUDITH ANN 1/1-2- 3504333414 923/17 12:45 5/23/1713:25 Functionality Training on 1/26/2017 62 Mostly Cloudy 13 IR Cornea N/A No Repair Required N/A N/A N/A N/A

Receried lit Camera Operattons &

000320427397 SOAR KILICKETY KLACK 32 P1101 KERMIT KLACK 32-165-7W IN- 3507325359 4/27/1711:39 4/27/1711:90 Functionality Training on 1/26/2017 64 Overcast 9 It Camera No Repair Required N/A N/A N/A N/A

Received IN Camera Operations & _N/A

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00:020438836 11366 511060933 PADS KUDRON 33-15167W 111- 3507325379 5/24/176:46 5/24/17826 Functionality Training on 1/26/2017 62 Clear 13 IR Camera N/A No Repair Required N/A N/A N/A N/A

Rneived IR Camera Operations &

030020453326 LOAN 10649461 24 P401 LEMARR 24-225-20W 116 3515323587 6/16/171342 6/16/17 12:22 Functionakty Training on 1/26/2017 90 PankCloudy s M Camera N/A No Repair Required N/A N/A N/A N/A

LEMKE 25-1300-9W 244-3503724780. LEMKE 25-136-9W 311- Received IR Camera Operations &

00:020425096 1063 LEMKE 25 P602 3501724785, LIMES 25 -33N -9W46- 3501724783 4/18/17 14:37 4/191715:17 FunctionaSty Training on 1/26/2017 81 Par* Cloudy 12 IR Corner. N/A No Repair Required N/A N/A N/A N/A

LEMKE 25 -13N -9W 611- 3501724784, LEMKE 25 -13N -9W 511- Received IX Camera Operations & Seal

00:0204273911 LIAR LEMKE 25 P1103 3501724787 5/10/177146 5/10/173:20 Functionality 'Training on 1/26/2017 72 Overcast 7 *Carnera N/A Repaired During Initial Tank Thk4 H atches 1 Replacement 5/10/2017

LIMES 25.13N -9W 11H- 3501724809, LEMKE 25 13N -9W 9H • Received IR Camera Operabons &

CO:020127400 LIAR LEMKE 25 PADS 3501724807 LEMKE 25-13N.9W 1014- 3501724308 11 , 171129 , 17 8 45 Furictiona Train on 26 017 72 Overust S M Caine. N/A No it air Rem/rod A A N/A NIA

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NSPS 0000a Annual Report

Devon Energy

933 West Sheridan Avenue

Oklahoma City, OK 72107

Reporting Period: NAPS 0000. September 113. 2015 -August 2, 2017

Oklahoma

Tablet- LDAR Survey Data

COUNT COMPONENT(S) SUCESSE. JI

LATITUDE LONGITUDE AMBIENT MAXIMUM MONITORING WAN FUGITIVES REPAIR REPAIR DATE

SURVEY ID INSPECTION TYPE FACILITY MAME WEU. UST i RAD S3) INA° 33) START DATE FINISH DATE PERFORMED BY TRAINING/EXPERIENCE TEMPERATURE SKY CONDMON WIND SPEED INSTRUMENT USED DEVIATION SURVEY OUTCOME COMPONENT DETECTED ' METHOD'

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'There were no fugitive emissions components that were not repaired as required In §60.3197RIndurwa We Nowt*, nano&

There were no difficult or unsafe -to -monitor fugitive emissions components monitored during the reporting period.

'There were no fugitive emissions components placed on delayed repair during the reporting period.

There were no fugitive emissions components that could not be repaired during the Initial fugitive emissions finding.

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NSPS 0000 and 0000a Annual Report

Devon Energy

333 West Sheridan Avenue

Oklahoma City, OK 73102

Reporting Period: NSPS 0000 October 15, 2016 -October 14.2017 and NSPS 0000a September 18, 2015 -August 2, 2017

Oklahoma

Table 3- Pneumatic Pumps

STATE 0000/

0000a FACILITY NAME LATITUDE LONGITUDE

(NAD 83) (NAD 83) CONDITION MET BY PNEUMATIC PUMP: EMISSION REDUCTION

%

(If less than 95%) DEVIATIONS

OK 0000a HOBSON 26 -13N -9W 2H, 311, 411 & SH Emissions are routed to a control device or process N/A N/A

OK 0000a APRES VOUS 24_13 -14N -7W 111 Emissions are routed to a control device or process N/A N/A

OK 0000a PRIMA 10_03-14N4W IHX Emissions are routed to a control device or process N/A N/A

OK 0000a ALMA 1 AND 2 Emissions are routed tea control device or process N/A N/A

OK 0000a ALMA 3 AND 4 Emissions are routed toe control device or process N/A N/A

OK 0000a ALMA 5 Emissions are routed to a control device or process N/A N/A

OK 0000a BAKER 9_16-15N-IW 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a BAKER 9_16-15N-IW 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a BERNHARDT 8_5 -15N -9W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a BLAND 29_32 13N -8W 1HX - 41 -IX Emissions are routed to a control device or process N/A N/A

OK

OK 0000a

0000a BLAND 29_32 13N -8W 1HX - 4HX

BLAND 29_32 -13N -8W 1-4HX Emissions are routed to a control device or process

Emissions are routed to a control device or process N/A N/A

N/A N/A

OK 0000a BLAND 29 -13N -8W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a BLAND 29 -13N -8W 6H 7H & 8H Emissions are routed to a control device or process N/A N/A

OK 0000a BLAND 29 -13N -8W 9H 10H & 11H Emissions are routed to a control device or process N/A N/A

OK 0000a BLUE OX 31_30 -16N -10W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a BOOMER 31 2AH Emissions are routed to a control device or process N/A N/A

OK 0000a BRECKENRIDGE 27 -20N -17W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a CHAMPAGNE 28 -15N -7W 1H Emissions are routed to a control device or process

N/A N/A

OK

OK 0000a

0000a CHICKEN YARD 32 -15N -7W 1H

CHISHOLM TRAIL 19_18 -16N -9W 1HX Emissions are routed to a control device or process

Emissions are routed to a control device or process N/A N/A

N/A N/A

OK 0000a COOKSHACK 4 -16N -7W IH Emissions are routed to a control device or process N/A N/A

OK 0000a COWAN 15_10 -15N -11W 1HX Emissions are routed to a control device or process N/A N/A

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OK 0000a

0000a DAUGHTEY 2 AND 3

DAUGHTEY 4, 5 AND 6 Emissions are routed toe control device or process

Emissions are routed to a control device or process N/A N/A

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0000a DAUGHTEY 7 RAND 9

DEBBIE 32_29 -12N -8W MX Emissions are routed toe control device or process N/A N/A

Emissions are routed to a control device or process N/A N/A

OK 0000a DEBBIE 32_29 -12N -8W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a DICKSON 16 -15N -10W 111 Emissions are routed to a control device or process N/A N/A

OK 0000a DIVIDE CLARK 28_21 -14N -6W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a FAITH MARIE 1_36-17-12 11-13 Emissions are routed to a control device or process N/A N/A

OK 0000a FERGUSON 12-19N-I6W IHR Emissions are routed to a control device or process N/A N/A

OK 0000a FLEENOR 86 9_4 -15N -10W 11-I3 Emissions are routed to a control device or process N/A N/A

OK 0000a GAME TRAIL 35-14N4W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a GANDY DANCER 3 -13N -8W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a GORDON 23 AND 4 Emissions are routed to a control device or process N/A N/A

OK 0000a GORDON 5 6 AND 7 Emissions are routed to a control device or process N/A N/A

OK 0000a GORDON BAND 9 Emissions are routed to a control device or process N/A N/A

OK 0000a HAROLD 16_9 -15N -9W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a HERMAN 03_34 -15N -8W 1HX Emissions are routed to a control device or process

N/A N/A

OK 0000a HOBSON 26 -13N -9W 2H, 3H, 411 & SH Emissions are routed to a control device or process N/A N/A

OK 0000a HOBSON 26 -13N -9W 6H, 7H, 811 & 9H Emissions are routed to a control device or process N/A N/A

OK 0000a HORSEFLY 24_13 -15N -10W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a IRON MASK 36_25 -14N -8W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a JERRY LEE 27 -19N -16W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a JONES 30 -19N -14W 1H Emissions are routed to a control device or process N/A N/A

NSPS 0000 and 0000a Annual Report

Devon Energy

333 West Sheridan Avenue

Oklahoma Cty, OK 73102

Reporting Period: NSPS 0000 October 15, 2016 -October 19, 2017 and NSPS 0000a September 18, 2015 -August 2,2017

Oklahoma

Table 3- Pneumatic Pumps

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STATE 0000/

0000a FACILITY NAME LATITUDE

(NAD 83) LONGITUDE

(NAD 83) CONDMON MET BY PNEUMATIC PUMP: EMISSION REDUCTION

%

(If less than 95%) DEVIATIONS

OK 0000a JORDAN 10_15 -14N -9W 1HX Emissions arerouted to a control device or process ,

N/A N/A

OK 0000a JUDITH ANN 111-2 1 Emissions are routed to a control device or process N/A N/A

OK 0000a KUCICITY KLACK 32 -16N -7W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a KUDRON 33 -15N -7W 111 Emissions are routed to a control device or process N/A N/A

OK 0000s KUDRON 33 -15N -7W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a LEMARR 24 -22N -20W 111 Emissions are routed to a control device or process N/A N/A

OK 0000a LEMKE 25 -13N -9W 741 AND 8H Emissions are routed to a control device or process N/A N/A

OK 0000a LEMKE 25 -13N -9W 91-1, 1041 AND 1111 Emissions are routed to a control device or process N/A N/A

OK 0000a LEMKE 28 -13N -9W 2h1, 341, AND 411 Emissions are routed to a control device or process N/A N/A

OK 0000a LEMKE 28 -13N -9W SH AND 6H Emissions are routed to a control device or process N/A N/A

OK 0000a LEONA TRUST 1 -15N -10W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a LINNIA 21 -19N -16W Emissions are routed to a control device or process N/A N/A

OK 0000a LOUTHAN 2 -20N -17W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a MARMOT 19_18 -16N -10W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a ML 6 -14N -9W 114 Emissions are routed to a control device or process N/A N/A

OK 0000a MOSASAURUS 4 -16N -9W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a NORTH WOODS 26-4AH 1 Emissions are routed to a control device or process N/A N/A

OK 0000a OLD RICKYS RIDGE 1HX 1 Emissions are routed to a control device or process N/A N/A

OK 0000a OLLIE 14 -13N -7W 111 Emissions are routed to a control device or process N/A N/A

OK 0000a OTTO 1H 1 Emissions are routed to a control device or process N/A N/A

OK 0000a PICKAROON 114A/1 1 Emissions are routed to a control device or process N/A NjA

OK 0000a PONY EXPRESS 27 111 1 Emissions are routed to a control device or process N/A N/A

OK 0000a PRESERVE 27 -16N -8W 1H Emissions are routed to a control device or process N/A N/A

OK 0000s PRIMA 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a PRIVOTT 17_20 -16N -9W 1FIX Emissions are routed toe control device or process N/A _ N/A

OK 0000a PUMP HOUSE 32 lAH PUMP HOUSE 32-1H, 324AH, 32-

211 WELLPAD 2 Emissions are routed to a control device or process N/A N/A

OK 0000a PUMP HOUSE 32 IAN PUMP HOUSE 32-1H, 32-1AH, 32-

2/1 WELLPAD 3 Emissions are routed tea control device or process N/A N/A

OK 0000a PUMP HOUSE 32_29 -16N -9W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a R GORDON 2H R GORDON 2, 3, 4, -36H & R GORDON

CTB 1 Emissions are routed to a control device or process N/A N/A

OK 0000a R GORDON SH R GORDON CTB 0 Emissions are routed to a control device or process N/A N/A

OK 0000a R GORDON 811 R GORDON Cf8 0 Emissions are routed to a control device or process N/A N/A

_ OK 0000a RAMSHORN 1102 4AH 1 Emissions are routed toe control device or process N/A N/A

OK 0000a RED SQUARE 16 -14N -9W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a REDWOOD 21 -15N -11W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a RICKER 2 AND 3 Emissions are routed to a control device or process N/A N/A

OK 0000a RICKER 4 AND 8 Emissions are routed to a control device or process N/A N/A

OK 0000a RICKER 5 6 AND 7 Emissions are routed to a control device or process N/A N/A

OK 0000a RICKY'S RIDGE 12_16-1541-8W 1HX Emissions are routed toe control device or process N/A N/A

OK 0000a SANDER 36 -21N -18W 1HR Emissions are routed to a control device or process N/A N/A

OK 0000a SCOTT 24_13 -16N -10W 111X Emissions are routed toe control device or process N/A N/A

OK 0000a SEQUOIA 11_2 -15N -12W 1HX Emissions are routed to a control device or process N/A N/A

OK 00130a SEQUOIA 11_2 -15N -12W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a SEQUOIA 11_2 -15N -12W 1HX Emissions are routed to a control device or process N/A N/A

NSPS 0000 and 0000a Annual Report

Devon Energy

333 West Sheridan Avenue

Oklahoma City, OK 73102

Reporting Period: NSPS 0000 October 15, 2016 -October 14, 2017 and NSPS 0000a September 18, 2015.August 2,2017

Oklahoma

Table 3- Pneumatic Pumps

STATE 0000/

0000a FACILITY NAME LATITUDE

(NAD 83) LONGITUDE

(NAD 83) CONDITION MET BY PNEUMATIC PUMP: EMISSION REDUCTION

%

(If less than 95%) DEVIATIONS

, i.:000a SHANGRI-LA 25_24 -15N -8W 1HX Emissions are routed to a control device or process N/A N/A

OK 0000a SIDEWINDER 33 -17N -10W 111 Emissions are routed to a control device or process N/A N/A

OK 0000a SIDNEY 27-1611-10W 1H Emissions are routed to a control device or process N/A N/A

OK 0000a SIMBA 12 -14N -8W Emissions are routed to a control device or process N/A N/A

OK 0000a SONOYTA 23_26 3H Emissions are routed to a control device or process N/A N/A

OK 0000a STANGL 2 -15N -9W 1H GEIS 1 -15N -9W 111 Emissions are routed to a control device or process N/A N/A

OK 0000. STANGL 2 -15N -9W DI GEIS 1 -15N -9W 111 Emissions are routed toe control device or process N/A N/A

OK 0000. SUN UP 29 -14N -6W 111 Emissions are routed to a control device or process N/A N/A

OK 0000. TED 30 -13N -8W 21-1 311 411 & 511 Emissions are routed to a control device or process N/A N/A

OK 0000a TED 30 -13N -8W 611 7H 8H & 9H Emissions are routed to a control device or process N/A N/A

OK ,

0000. THE SLOT 14-13N-BW 111 Emissions are routed to a control device or process N/A N/A

OK _

0000a THOMPSON 211THOMPSON 2,3,4 - 33H BATTERY 1 Emissions are routed to a control device or process N/A N/A

OK 0000a THOMPSON SH THOMPSON 5,6,7 - 33H BATTERY 1 Emissions are routed to a control device or process N/A N/A

OK 0000. THREE SISTERS 31-1AH 1 Emissions are routed to a control device or process N/A N/A

OK 0000. TRINITY 33 -16N -11W 1H Emissions are routed toe control device or process NIA N/A

OK 0000a VIERSEN 21 -17N -11W 111 Emissions are routed toe control device or process N/A N/A

OK 0000. VIRGINIA LEE 1H 1 Emissions are routed to a control device or process N/A N/A

OK 0000a WHISKEY JACK 2314 1H 1 Emissions are routed to a control device or process N/A N/A

OK 0000a WIDGES 28-1611-7W Emissions are routed to a control device or process N/A N/A

OK 0000a YONDER 05 4A11 1 Emissions are routed to a control device or process N/A N/A

OK 0000. YOST 2 -15N -10W 1H Emissions are routed to a control device or process N/A N/A

NSPS 0000 and 0000a Annual Report

Devon Energy

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Oklahoma City, OK 73102

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Oklahoma

Table 4 - Storage Vessels

0000/ LATITUDE LONGITUDE REMOVED FROM DATE SERVICE DEVIATIONS

STATE 0000a FACIUTY MAME (MAD 113) WAD 83) CONTROL TYPE ' SERVICE REMOVAL DATE RESUMED SERVICE RESUMED (method 22's, AVOs, flare downtime)

Loss of combustor pilot 192 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 BEARD 34-13-9 1H Combustor

, N/A N/A N/A N/A Inspections were documented L) kzil Loss of combustor pilot 24 hours is)

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 BROOKS 3-14H BATTERY Combustor N/A N/A N/A N/A Inspections were documented

_

Lou of combustor pilot 48 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 DAUGHETY 1-31H Combustor N/A N/A N/A N/A Inspections were documented

Loss of combustor pilot 312 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 DEE JAMESON 1-24H Combustor N/A N/A N/A N/A inspections were documented

Loss of combustor pilot 24 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 GOURLEY 1-1611 Combustor N/A N/A N/A N/A inspections were documented

-

Loss of combustor pilot 24 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 LORETTA 1-2811 Combustor N/A N/A N/A N/A Inspections were documented

Loss of combustor pilot 96 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 IVINS I -31H Combustor N/A N/A N/A N/A Inspections were documented

Loss of combustor pilot 120 hours

Continuous Pilot Flame Visual Inspections were conducted but no Method 22

OK 0000 MCCRAY 9-26H Combustor N/A N/A N/A N/A Inspections were documented

Loss of combustor pilot 72 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 KOERNER TRUST 1-12H Combustor N/A N/A N/A N/A Inspections were documented

Continuous Pilot Flame

OK 0000 UNDY 1-34H Combustor N/A N/A N/A N/A N/A

Continuous Pilot Flame

OK 0000 RUNNING WOMAN 1-1914 Combustor N/A N/A N/A N/A N/A

Continuous Pilot Flame

OK 0000 RENBARGER 1-3011 Combustor N/A N/A N/A N/A N/A

Loss of combustor pilot 168 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 WALKER 1-34 Combustor N/A N/A N/A N/A inspections were documented

Loss of combustor pilot 168 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 MYWAY 1H-26 Combustor N/A N/A N/A N/A inspections were documented

Loss of combustor pilot 24 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 COLUMBINE 15-4AH Combustor N/A N/A N/A N/A Inspections were documented

Continuous Pilot Flame

OK 0000 DEALERS CHOICE 024AH Combustor N/A N/A N/A N/A N/A

Loss of combustor pilot 24 hours

Continuous Pilot flame Visual inspections were conducted but no Method 22

OK 0000 HORNSILVER 0334-4H Combustor

Continuous Pilot Flame N/A N/A N/A N/A Inspections were documented

OK 0000 SHOWBOAT 1003 -IAN Combustor N/A N/A N/A N/A N/A

Loss of combustor pilot 120 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 SKIPPER 1510-3AH Combustor N/A N/A N/A N/A Inspections were documented

NSPS 0000 and 0000a Annual Report

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333 West Sheridan Avenue

Oklahoma City, OK 73102

Reporting Period. NSPS 0000 October 15, 2016 -October 14, 2017 and NSPS 0000a September 18, 2015 -August 2,2017

Oklahoma

Table 4 -Storage Vessels

0000/ LATITUDE LONGITUDE REMOVED FROM DATE SERVICE DEVIATIONS

STATE 0000. FACILITY NAME MAD 83) (NAD 83)

. CONTROL ripe SERVICE REMOVAL DATE RESUMED SERVICE RESUMED (method 22's, AVOs, flare downtime)

Continuous Pilot Flame ,

OK 0000 SUNDOWN 12-4AH Combustor N/A N/A N/A N/A N/A

Loss of combustor plot 96 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 BREWER 1-35H Combustor N/A N/A N/A N/A inspections were documented

-

Loss of combustor pilot 48 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 DOUGHETY BROS 1-18H Combustor N/A N/A N/A N/A inspections were documented

Continuous Pilot Fbme

OK 0000 MCCRAY 6-26H Combustor N/A N/A N/A N/A N/A

-

Loss of combustor pilot 168 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 MCCRAY 7-26H Combustor N/A N/A N/A N/A Inspections were docurmmted

Loss of combustor pilot 24 hours

Continuous Pilot Flame Visual Inspections were conducted but no Method 22

OK 0000 CLOUD NINE 3328-4H Combustor N/A N/A N/A N/A Inspections were documented

Lou of combustor pilot 24 hours

Continuous Pilot Fbme Visual inspections were conducted but no Method 22

OK 0000 CAROL JEAN 17-12-8 IN Combustor N/A N/A N/A -I N/A inspections were documented

Continuous Pilot Fbme

OK 0000 rmrADE 2314-1H Combustor N/A N/A N/A N/A N/A

Loss of combustor pilot 168 hours

Continuous Pilot Fbme Visual inspections were conducted but no Method 22

OK 0000 FARO 17-1H Combustor N/A N/A N/A N/A inspections were documented

Loss of combustor pilot 360 hours

Continuous Pilot Fbme Visual inspections were conducted but no Method 22

OK 0000 MINNIE HA HA 12-4AH Combustor N/A N/A N/A N/A inspections were documented

Loss of combustor pilot 192 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 NORTHSTAR 0706-1H Combustor N/A N/A N/A N/A inspections were documented

Loss of combustor pilot 24 hours

Continuous Pilot Fbme Visual inspections were conducted but no Method 22

OK 0000 OLIVE LEE 1H-22 Combustor N/A N/A N/A N/A inspections wire documented

- _

Loss of combustor pilot 144 hours

Continuous Pilot Fbme Visual inspections were conducted but no Method 22

OK 0000 SKIPPER 1510-4AH Combustor N/A N/A N/A N/A inspections were documented

Loss of combustor pilot 240 hours

Continuous Pilot Flame Visual inspections were conducted but no Method 22

OK 0000 SKIPPER 1510-4H Combustor N/A N/A N/A N/A inspections were documented

Loss of combustor pilot 48 hours

Continuous Pilot Flame Visual Inspections were conducted but no Method 22

OK 0000 WHISTLE PIG 10-4AH Combustor N/A N/A N/A N/A inspections were documented

Loss of combustor pilot 144 hours

Continuous Pilot Fume Visual Inspections were conducted but no Method 22

OK 0000 WILDCARD 2215-114 Combustor N/A N/A N/A N/A Inspections were documented

Continuous Pilot Flame

OK 0000 ZINGER 31-1HR Combustor N/A N/A N/A N/A N/A

The control device meets the requirements specified at 40 CFR 460.5410a (h)(2) and (3)

devon

Appendix B: New Mexico Environmental Department

devon

October 19, 2017

New Mexico Environment Department

Air Quality Bureau

Compliance and Enforcement Section

525 Camino de los Marquez, Ste. 1

Santa Fe, New Mexico 87505

Dear Mr. Terrill: Devon Energy Corporation

333 West Sheridan Avenue

Oklahoma City, OK 73102 405 235 3611 Phone

www.devonenergy.com

As required by the Code of Federal Regulations Title 40 §60.5360 (NSPS 0000a), Devon Energy is

submitting the annual compliance report. The attached NSPS 0000a report is for the following

timeframe: September 18, 2015 - August 2, 2017.

Devon is including the following information:

• Table 1- LDAR Survey Data

• Table 2 - Hydraulically Fractured Well Flowback Data

• Table 3 - Storage Vessels

• Table 4 - Reciprocating Compressors

Devon did not have NSPS 0000a applicable Pneumatic Controller, Centrifugal Compressor or Pneumatic

Pump affected facilities during the reporting period. Therefore, tables for these equipment types are not

provided.

In accordance with Title 40 §60.5360a I, itCy Mas-rle- Kyle Massie

Manager of Operations Manager (Responsible Offi6ial) certify based on information and belief formed

after reasonable inquiry, the statements and information in the attached NSPS 0000 document are

true, accurate, and complete.

Sincerely,

Massie

perations Manager

(405) 552-8034

NSPS 0000. Annual Report

Devon Energy

333 West Sheridan Avenue

Oklahoma City, OK 7 3102

Reporting Period: NSPS 00003 September 18, 2015 -August 2,2017

New Mexico

Table 1 - LDAR Sunray Data

COUNT COMPONENT(S)

IMMIX tonenum AMBIENT MAXIMUM MONITORING WITH FUGITIVES REPAIR SUCESSFUL

SURVEY ID INSPECTION TYPE FACILITY NAME WELL UST (NADU) (MOEN START DM FIN/SH DATE PERFORMED BY TRAINING/EXPERIENCE TEMPERATURE SKY CONDITION WIND SPEED INSTRUMENT USED DEVIATION SURVEY OUTCOME COMPONENT DETECTED '' ' METHOD' REPAIR DATE

ARENA ROJA FED UNIT 143- 3002543206, ARENA ROA FED MOT 1 --,

- 3002542671, ARENA ROSA FED UNIT 163- 3002542672, ARENA Received IR Camera Operations &

000020429183 WAR ARENA ROA FED UNIT (TB 1 ROM FED UNIT 173

- 30025432074/11/17

BELGIAN 15 FED 20- 3001543627, BELGIAN 15 FED COM 111 - 0) (" 8:46 4/11/179100 Functionality Training on 3/21/2017 57 Overcast 5 IR Cwnera N/A No Repair Required N/A N/A N/A NM

3001543187, SHIRE 22 FED SH • 300153124U, SHIRE 22 FED 40 -

3001543641, SHIRE 22 EEO 30 • 30015K1231.1, SHIRE 22 FED 211 -

3001514123V, SHIRE 22 FED 114- 3001543222, LUSITANO 27-34 F 1 7. Received IA Camera Operations 8

CO20204291/4 LDAR BELGIAN SHIRE CTB 10- 300156123a 4r20/17 1123 4/20/17 1153 Functionality Training on 3/21/2017 73 Clear 12 IR Camera N/A Repair Required N/A N/A N/A N/A

BELEM 2 STATE 20 - 3031542895,1E110Q 2 STATE 53- Received IS Camera Operations 8 - ,No

0030204291115 LOAR 011100208

_ 3001542896. smock 2 STATE 6H • 3201542897 5/22/17 12:00 5/22/17 1220 Functionality Training on 3/21/2017 73 Clear 6 19 1,...,. N/A No Repair Required N/A N/A N/A N/A

1(11002 STATE 23 - 3031541895,1E1100 2 STATE 59- Received IS Camera Operations 8

000020466051 WAR 6E1E002 C18 3001542896, BELL013 2 STATE 6H - 3001542897 0/2/178,80 3/2/17 8:55 Functionality Training on 3/11/2017 73 Clear 3 IR Camera N/A No Repair Required N/A N/A WA NA

BIG SINKS DRAW 25 FED COM 40 - 3001543551, BIG 11052 0913W 2

FED COM 30 - 3001541940, BIG SINKS DRAW 25 FED COM 211 • Recelved IF Camera Operations &

000020429227 LDAR BIG SINKS DRAW 2S FED COM BATTERY 3001542520, BIG SINKS DRAW 25 FED COM Ill- 3001541548

BURTON FLAT DEEP UNIT 620 - 3001542629, BURTON FLAT DEEP 6/1/17 II:50 3/1/179:30 Functionality Training on 3/21/2017 78 Clear 8 IR Camera N/A No Repair Required N/A N/A N/A N/A

UNIT 9031 - 30015F123M, BURTON FLAT DEEP UNIT 6111 -

3001543136. BURTON FLAT DEEP UNIT 9331- 30015E1230, BURTON

FIAT DEER UNIT 57H - 3031540829, BURTON FLAT DEEP UNIT SIB- Received tit Camera Operations &

000020429188 113311 BURTON FLAT DEEP UNIT 61 62(75 3001540502 5/9/17 9,46 5/9/17 9:16 Functionality Training 00 3/21/2017 70 Overcast S IR Emmen N/A No Repair Requeed N/A N/A N/A N/A

CERE 10 STATE 714- 3001542709, CERF 10 STATE 96 - 3031542710, Received Ill Camera Operations &

00:020429189 LDAR CEDAR 11 SOUTHWEST RE CEDAR 11 STATE 20 -3001542737, CEDAR 11 STATE 1H -3001542 4/12/1710190 4/12/17 1130 Functionality Training on 3/21/2017 66 Overust 3 It Carnera WA No Repair Required N/A N/A N/A WA

CHINCOTEAGUE 32 STATE COM DI - 3002542217. CHINCOTEAGUE

STATE COM 30- 3002542216, CHINCOTEAGUE 32 STATE COM 214 -

3002542263, CHINCOTEAGUE 32 STATE COM DI - 3002542215,

CHINCOTEAGUE 32 STATE COM SH - 3002542264, CHINCOTEAGUE 3 Received IS Camera Operations &

000020429190 WAR CHINCOTEAGUE 32 CTB STATE COM 60 - 300254221 5/3/17 11:54 5/3/17 1224 Functionality Trainkis on 3/21/2017 72 Clear 10 IR Camera N/A No Repair Required N/A N/A N/A N/A

Received IR Camera Operations &

000020429191 WAR COTTON DRAW 32 SWD FACILITY COTTON DRAW 32 STATE SWD 2 -3002541524

4/12/17 1146 4/12/17 12:16 Functionality Treining on 3/21/2017 60 Overcast 12 IR Camera N/A No Repen Required N/A N/A N/A N/A

COTTON DRAW UNIT 2720 - 3001543724, COTTON DRAW UNIT 227 Received IS Camera Operations 81 _

000020429194 LDAR COTTON DRAW UNIT 11 BS CTB 3001542932 4/20/1710:21 4/20(171011 Functionality Training on 3/21/2017 72 Clew 14 3Com.,. N/A No Repair Required N/A N/A NIA N/A

COTTON DRAW UNIT 2420 - 3001543274, COTTON DRAW UNIT 24

3001543599, COTTON DRAW 11137 241H -3001543220, COTTON

DRAW UND 2400 • 3001543215. corm DRAW UNIT 2240 •

3001543102, COTTON DRAW UNIT 22311- 3001:43275, COTTON Received IS Camera Operations 8

000020029192 (DAR COTTON DRAW UNIT 1•12 BONE SPRING CTB DRAW UNIT 239H - 3001543270, COT

COTTON DRAW UW227814- 3001543923, COTTON DRAW UNIT 2770 5/0/1710:59 5/3/17 11:29 Functionality Training on 3/21/2017 70 Clear 6 FR Cwnera N/A No Repel Required N/A N/A N/A N/A

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3001543741, COTTON DRAW UNIT 2590-3001543739. COTTON Received IS Camera Operations 8

000020429229 11/35 COTTON DRAW UNIT 13-11 CTB DRAW UNIT 1790 - 3001543738 5/11/1712:20 5/11/1713100 Funtoonality Training on 3/210017 77 Clear 9 Iti Camera N/A No Repair Required N/A N/A WA N/A

COTTON DRAW UNIT 27811 - 3001543923, COTTON DRAW UNIT 277H

3001543741, COTTON DRAW UNIT 2550 - 3001543739, COTTON Reeetied IR Camera Operations &

000020429230 WAR COTTON DRAW UNIT 13-18 CTB DRAW UNIT 1790

- 3001543738 5/11/175220 5/11/1733:00 Functionality Training on 3121/2017 76 Clear 9 IR Caine. N/A No Repair Required N/A N/A N/A N/A

COTTON DRAW UNIT 7440 • 3001542331, COO TON DRAW UNIT 21414

3001541537, COTTON DRAW UNIT 2130 - 3001541869. COTTON

DRAW UNIT 2079 - 3001542073, COTTON DRAW UNIT 29011 -

;001543245, COTTON DRAW UNIT 2920 • 3001543261, COTTON Received IS Camera Operations &

000020429199 LDAR COTTON DFIAW13311 167370 DRAW UNIT 20414

- 3001541818, COT 3/30/171401 3/30(1714131 Functionality Training on 3/21/2017 67 Clew 10 IT Camara N/A No Repair RequWed N/A N/A N/A N/A

COTTON DRAW UNIT 1670 - 3001541395, COTTON DRAW UNIT (1611 Received IS Camera Operations 8

000020429195 LDAR COTTON DRAW UNIT 182 CTB 31301537926, COTTON DRAW UNIT 1820 - 3001542849 4/11/2710:17 4/12/17 10:57 Functionality Training on 3/21/2017 62 Overcast 16 IS Camera IDA No Repair Required N/A WA N/A N/A

COTTON DRAW UNIT 21214 • 3001542892, COTTON DRAW UNIT 5180 Received IS Camera Operations 8

1300010429196 LDAR corroN DRAW UPITT 26-35 BONE SPRING C7B 3001531336 4/13/1710-02 4/13/1710112 Functionality Training on 3/21/2017 5 / Overcast 14 IR Camera N/A No Repair Required N/A N/A N/A N/A

Recelved IR Camera Operations &

000020429231 LOAR COTTON DRAW UNIT 27814_P[PILOTI COTTON DRAW UNIT 2711/4_P(PILOT) - 3201943513 5/11/17 1220 1/13/1713110 Funrtionallty TralnIng on 3/21/2017 80 Clear 9 IS Camera N/A No Repair Required N/A N/A N/A N/A

COTTON DRAW UNIT 25111 • 3002542590, COTTON DRAW UNIT 25044 Received IS camera OPwAtions &

00020429197 LOAR COTTON DRAW UNIT 105 1002542589, COTTON DRAW UNIT 2520 -3002542619 5/3/17 9:49 5/3/1710119 Functionality Training 00 3/71/2011 65 Clear 8 IS Camera N/A No Repair Required N/A. N/A N/A N/A

Received IS Camera Operation, &

DX020479198 LOAR COTTON DRAW UNIT 84 OWES COTTON DRAW UNIT 34 SWD- 3001529728 4/12/17 9:12 4/12/17 9:42 Functionality Training on 3/21/2017 57 Overcast 13 FR Camera N/A No Repair Required N/A N/A N/A N/A

EMERALD PWU 20-80 • 3001540513, EMERALD PWU 20-411 - ._

3031540037, EMERALD PWU 20 10H - 3001543322, EMERALD PWU

20-34- 3001539365, EMERALD PM) 20 1111 - 3001543371,

EMERALD PWU 2062H -3001543372, EMERALD PWU 20 6611- Received IS Camera Operations L

000020429200 LDAR EMERALD PWU 20 CB 1 3001543362, EMERALD PWU 207H - 3001540 4/10/178102 4/741178:32 Functionality Training on 3/21/2017 68 Clear o IR Emirate N/A No Repair Required WA N/A N/A N/A

EMERALD P001.12080

- 3001540513, EMERALD PWU 20-4/4 -

3001540337, EMERALD P00320 101.1 -0051543322, EMERALD MU

20-3H - 3C01539365, EMERALD MU 20 1111- 3001343371,

EMERALD PWU 206214 - 3001543372, EMERALD PWU 20 660 - Rererved M Camera Operatwns & Check tank

000320429232 IDAR EMERALD PWU 20 C75 I 3001543382, EMERALD PWU 2070- 3031540 4/28/17 8112 4/28/17 822 Functionality Training 00 3/21/7017 62 Clear 16 IS Camera N/A No Repair Required Body/Shell 1 gasket N/A

EMERALD PWU 20-80 -3001540513. EMERALD PWU 204/4 - _

3001540037, EMERALD PWU 20 104-31021543312, EMERALD PM)

20-3H - 3001539365, EMERALD PWU 20 1111- 3001543371,

EMERALD PWU 20 621-1- 3001543372, EMERALD PI911/70664 - Received IS Camera Operations &

000020429233 LDAR EMERALD PWU 20 CDS 1 3001543382, EMERALD PWU 2070 - 3001540 4/28/170-02 4/28/17 8:32 Functionality Tffaining on 3/21/2017 86 Clear 20 IR Carnefa N/A No Repair Required N/A N/A N/A N/A

SEAWOLF 12-1 FEDERAL 10 - 3032542775, FIGHTING OKRA 18 Received IS Carnets Operations &

_

000020429201 WAR FIGHTING OKRA 18 CT& 1 FEDERAL COM 13' 3202340382 4/13/17 1400 4/23/1711:00 Function/key Trainankt OR 3/21/2017 62 Overcast 12 IR Camera N/A No Repair Required N/A N/A N/A N/A

Received IR Clown Operations & _

000020429234 LOAR FIGHTING OKRA 18 CTB 3 FIGHTING OKRA 18-19 FED 7114 - 3002542973 5/9/1714:24 1/9/1714:54 Functionality Training on 3/21/2017 82 Clear 12 IR Corners N/A No Re ii Required NM N/A N/A WA

GAUCHO 21 FED 2111. 3002540626, GAUCHO 21 FEDERAL 1 -

3002534266, GAUCHO 21 FEDERAL 90 - 3002542137, GAUCHO 21 Received IR Camera Operations &

000320429203 IDAR GAUCHO 21 FED BATTERY FEDERAL 3H - 3002542136 4/19/1711,83 4/19/1711133 Functionality Training on 3/21/2017 69 Clear 12 IR Camera N/A No Repair Required N/A 14/A N/A N/A

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NIPS 0000 and 0030a Annual Report

Devon Mewl

333 West Sheridan Avenue

Oklahoma City, OK 73102

Reporting Period: NSPS 0000a September 10, 2015.August 2,2017

New Mexico

Table 3 - Ito !age Vessels

STATE 0000/

00001 MOUT(NAME IATITUDIE

. .LONIRTUDE

INA'S SN

. (NADU) CONTROL TYPE ' REMOVE12

FROM

SERVICE REMOVAL

DATE RESUMED

SERVICE OATESERVICIE

RESUMED DEVIATIONS

(method zys, AVOkflana -downtime) NUM BER OF

TANRS SOCK PIE

TPV VOC PTE

(per tank) POST CONTROL

VOC RATE

Iper tank) Comments

NM

NM

NM 00000

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00000 Chiszoteague 32 COB

COO 13-10 COB

Fighting Okra IIICT8 3 Glare

Flare

Flare NiA

WA

N/A Ts/A

N/A 'NA

N/A N/A Records hdicate It,,, downtime of 720 hours 7 MAO 92.85 1.79

WA Records Ad ice. Rant downtime of 24 hours 4 223.20 55.80 1.17

N/A WA N/A Flare monitoring records unavailable 3864 hours 4 164.16 41.04 au

NM 0000a

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Th, control device menthe reamvernents COU 29.30 CM

Ice Dancer &I Fed Con, 214

Vao Deo DM COI

specified .0 40 CM +60.5410•(h1(2) a Flare

Combustor

Flare N/A

N/A N/A

N/A N/A

N/A N/A

WA Records irdicate Tare downtime of 170 hours

AVO and Method 22 inspection records unavailable 4 831.88 207.97 0.24

N/A N/A N/A N/A Acquked on 7/13/2017

WA N/A PT/A WA Records indkate flare downtime of 372 hours 2 21002 105.01 2.14

NSPS 0000 and 0000a Annual Report

Devon Energy

333 West Sheridan Avenue

Oklahoma City, OK 73102

Reporting Period: NSPS 0000a September 18, 2015 -August 2, 2017

New Mexico

Table 4

- Reciprocating Compressors

(Cumulative hours or months of operation for whichever is later)

STATE 0000/00

00a FACILITY NAME COMPRESSOR

EPN LATITUDE

(NAD 83) LONGITUDE

(NAD 83) DEVIATIONS

i.e lack of controls CUMULATIVE TIME SINCE INITIAL

STARTUP (HRS) CUMULATIVE TIME SINCE

10/15/2012 CUMULATIVE TIME SINCE THE LAST ROD

PACKING REPLACEMENT

NM 0000a Nighthawk Compressor Station Unit 806097 b 9 N/A 14664 N/A N/A

NM 0000a Scissortail Compressor Station Unit 806494 N/A 13440 N/A N/A

NM 0000a Scissortail Compressor Station Unit 806509 N/A 13440 N/A N/A

devon

Appendix C: Texas Commission on Environmental Quality

devon

October 31, 2017

TCEQ, APIRT, MC 161

P.O. Box 13087

Austin, TX 78711-3087

Dear Sir or Madam: Devon Energy Corporation

333 West Sheridan Avenue

Oklahoma City, OK 73102 405 235 3611 Phone

www.devonenergy.com

As required by the Code of Federal Regulations Title 40 §60.5360 (NSPS 0000), Devon Energy is

submitting the annual compliance reports. The attached NSPS 0000 reports are for the following

timeframe: October 15, 2016 - October 14, 2017.

In addition, Devon Energy is also submitting the annual compliance reports required by the Code of

Federal Regulations Title 40 §60.5360a (NSPS 0000a). The attached NSPS 0000a reports are for the

following timeframe: September 18, 2015 - August 2, 2017.

Devon respectfully requests to align the reporting date for all future reports required by both of these

NSPS and submit concurrently on October 31.

The facilities subject to the NSPS reporting requirements do not share a common Devon Responsible

official. Therefore, the reports have been broken into three appendices, each signed by their respective

Responsible Official as outlined below:

• Appendix A: North Texas

• Appendix B: Southern

• Appendix C: Midland

devon

Appendix A: North Texas

Devon is including the following information:

• Table 1 - LDAR Survey Data

• Table 2 - Hydraulically Fractured Well Flowback Data

• Table 3 - Pneumatic Pumps

• Table 4 - Storage Vessels

• Table 5 - Reciprocating Compressors

Devon did not have NSPS 0000 and/or NSPS 0000a applicable Pneumatic Controller or Centrifugal

Compressor affected facilities during these reporting periods. Therefore, tables for these equipment

types are not provided.

In accordance with Title 40 §60.5360 and §60.530a I, John

Ewing Manager of Production Engineering (ResponsibliOfficial) certify kiged on information and belief

formed after reasonable inquiry, the statements and Aformation in the attached NSPS 0000 document

are true, accurate, and complete.

Sincerely,

John Ewing

Manager Production Engineering

(940) 394-2151

NIPS 0000a Annual Report

Devon Enerp

313 West Sheridan Avenue

OblalsOlna City, OK 73102

Reporting Period: NIPS 0000. September 18, 2015 -August 2,7017

TexaS

Table 1 -1040 Survey Data

COUNT COMPONENT15)

SURVEY ID INSPECTION TVPE FAOUTY NAME WED. UST LATTTUDE

(501831 LONGITUDE

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WIND SPEED MONITORING

INSTRUMENT USED DEVIATION SURVEY OUTCOME COMPONENT WITH FUGMVES

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METHOD' SUCESSFUL

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Reteived IA Cam me Operations &

000020425946 LDAR AB GLASS UNIT 1H WEUPAD GLASS, A. 8. 111 -4249737378

_ , (3/30/17 7.33 3/30/17 3:03 Tunctionality Training on 2/23/2017 08 Clear 2 IR Camera N/A No Repair 8040944 N/A N/A N/A N/A Received IR Camera Operations & Replaced high 000020425947 LIAR HAT UP VIC 4 WILLPAD AAT - UP VIC 4 - 4212130731 4 1710:35 40 1711:05 Functional Trainin on? 23 2017 /5 Overcast $ IR Camera N/A .Repaired Later AetUatee 1 po regulator 4/21/7017 Received IR Camera Operations 8$ 000020435212 ICIAR-RE AAT UP VIC 4 WEUPAD AAT - UP VICO - 4212130731 4/21/17 10:35 4/21/1713105 Functionality Training on 2/23/2017 75 OWneast s IR Camera N/A No Repair Required N/A N/A N/A N/A Reamed MCamera Operations & 000020425948 WAR ADAM! GE 1 WELLPAD ADAM!, G. E. 1 - 4249734707 3/29/17 13:07 3/29/171337 Functionality Training on 2/23/2017 72 Clew 3 IR Carnet. N/A No Repair Required N/A N/A N/A N/A AVONDALE HEIGHTS UNITS- 4243930425, AVONDALE HEIGHTS UNIT Received IR Carnera Operations & 000020425949 LDAR AVONDALE HEIGHTS 9 PAD 68 - 424393E486 4/3/17 13:22 4/3/17 13:52 Functionality Training on 2/23/2017 72 Clear 1 IR Carrera N/A No Repair Required N/A WA N/A N/A AVONDALE HEIGHTS UNITS- 4243930961, AVONDALE HEIGHTS UNIT 4 - 4243930962, AVONDALE HEIGHTS UNIT 3 - 4243930063, AVONDALE HEIGHTS UNIT 1341- 4243933691, AVONDALE HEIGHTS Received IR Camera Operations & Equipment 000320425950 LDAR AVONDALE HEIGHTS UN 3 UNIT 11H - 4243932357 4/6/1113i25 4/4/1713:55 Functionality Training on 2/23/2017 68 Mostly Cloudy 5 IR Camera N/A Repaired During India' Pneumatu Devices 1 Replacement 4/4/2017 Replaced snap BANNER 4 - 4212131905, BANNER 158 - 4212133269, BANNER 129 - Received IR Cancer. Operations & and regulator, all 000030425951 LDAR BANNER 4 WELL PAD 4212133268 4/21/17 12:52 4/21/172.00 Functionality Training on 2(23/2017 71 Caercast s IR Camera N/A Repaired later Attune, 1 filed. 4/25/2017 BANNER 4 - 4212131305, BANNER 150-4212133269, BANNER 329- Received IR Camera Operations & Equipment 000020025951 WAR BANNER 4 WELL PAD 4212133263 4/23/1712:52 6/21/172:00 Functionality Training on 2/23/2017 73 CNercast II IN Carrera N/A Repaired During Initial Pneumatic Devices 1 Replacement 4/21/2017 BANNER 4 - 421213130S, BANNER 1510 - 4212135269, BANNER 1261-Re8e10e:110 Camera Operations & Equipment 000020425951 LDAR BANNER 4 WELL PAD 4212133268 4/21/1732:52 4/21/172:00 Functionality Training on 2/23/2017 78 Overcast a IN Camera N/A Repaired Dunne Initial Waves 1 Replacement 4/21/2017 BANNER 4 - 4212131305, BANNER 1514 - 4212133269, BANNER 1214 - Received IR Camera Operations & 000020035213 LOARME BANNER 4 WILL PAD 4212133268 4/25/1711:13 4/25/17 8143 Functionality Training on 2/23/2017 65 On., 6 IR Camera N/A No Repair Required N/A N/A N/A N/A BENBROOK UNIT APED 911 - 4243935143, BENBROOK UNIT A FED 811 - 4243935142, BENBROOK UNIT A FED 74 - 4243935141, BEN80001 UNIT A FED 601 - 4243935140, BENBROOK UNIT A FED SH - 4243935139, 8E588001 UNIT APED 411 - 4243935138,13E1463001 Received IR Camera Operations I 0=0459297 LDAR BENBROOK WELL PAD UNIT A FED 314 - 42439351 6/29/17909 6(29/171000 Functionality 'training on 2/23/2017 81 Partly Cloudy 6 IR Camera N/A Repaired Later Addator 1 Replace PRY 7/11/2017 11E889008 UNII A FED 9H - 4243935143, 6111811000 UNIT A FED IIH - 4243935142, BENBROOK UNIT A FED 711• 4243935141, BE MIROOK UNIT A FED 69 - 4243935140, 8ENBROOK UNIT A FED 511 - 4243935139, BENBROOK UNIT A FED 4H -4243935110,80888006 ReceNed ER Camera Operations & 000020459297 WAR SENBROOK WELL PAD UNIT APED 39 • 42439351 6/29/17909 6/29/17 1000 Functionality Training 00 2/73/2517 111 Partly Cloudy 6 IR Camera NIA Repaged Later ACillefll 1 Replace PRI/ 7/12/2017 8E8EI8008 UNIT A FED 99 - 4243935143, BENBROOK UNIT A FED1311 - 4243335142, BENBROOK UNIT APED 79 - 4243935141, BENBROOK UNIT A FED 69 - 4243935140,81988004 UNIT A FED 59 - 4243935139, BENBROOK UNIT APED 49 • 4243935138, BE NBROOIL RfteNed IR Carne,. Operations & 003020459297 1043 BFNBROOK WELL PAD UNIT A FED 39 '42439351 BENBROOK UNIT APED 910 - 4243935143, BENBR1301(UNIT A f 10 89 - 6/29/17900 6/29/171009 F unctionailly Training on 2/23/2017 81 Partly Cloudy 6 IR Camera N/A Repaired Later Actuator 1 Replace PRO 7/12/2017

4243935142, BENBROOK UNIT A FED 79 - 4243935141, BENBROOK

UNIT A FED 611- 4243935140, IIENBROOK UNIT A FED 514 -

4243935199, BEN80001 UNIT A FED 49 - 4243935138. BENBROOK Received IR Camera Operations &

0000204 '.,979 I _DAR BENBROOK WELL PAD UNIT', FED 39 - 42439351

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Functionality Training on 2/23/2017 81 Partly Cloudy 6 IR Camera WA No Repair Required N/A N/A N/A N/A

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000020,616a / I DAR -RE 1319116001 WELL PAD IMIT A FED 39 - 42439351 7/13/17809 7/12/171009 Functionality Training on 2/23/2017 01 Overcast 6 IN Camera N/A No Repair Required N/A N/A N/A NM

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4243935139, BENBROOK UNIT A FED 41-1 -4243435330,801468001 Rereared IR Camera Operations &

003020461661 LDAR- RE FICNBROOK WELL PAD UNIT A FED 3H

- 42439351 7/17/179:39 7/17/171806 1 unctionaNy Training Oa 2/23/7017 81 Clear 6 IR Camera N/A No Repair Required N/A N/A N/A N/A

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000320425953 LDAR BENNETT WILLIAM 4 WELLPAD BENNETT, WILLIAM 4 - 4249734556 4/3/171406 4/3/17 1438 Functionality Training on 2/23/2017 74 Clear 1 IR Corner. N/A No Rena.- Required /0/A N/A N/A N/A

BENNETT. WILLIAM 2314- 4249736805, BENNETT, WILLIAM 0- Received 111 Camera Operations &

000020425954 WAR BENNETT WILLIAM 8 PAD 4249735069, BENNETT, VOLIIAM 209 - 4249736606 4/6/17 14:21 4/6/17 14:51 Functionality Training on 2/23/2017 79 Clear 1 IR Camera N/A No Repair Required N/A N/A N/A N/A

Received IR Camera Operations 8,

000020425955 LDAR WORE ANN 110 WEL1PAD MORK, ANN 19 -4229139811 5/1/17 13:92 9/1/1714100 Functionality Training on 2/23(2017 73 Clear 3 IR Carnem N/A No Repair Required N/A Pi/A N/A N/A

KAMM EST GU Cl- 4243930328, 51481E7 EST GU C 39 -

4243930345, &AMU EST GU C 614 - 4212133260, IltAKIE9 E51 GU C 900.14-04 18 Camera Operations &

=20151122 WAR BLAKLEY (51 61) Cl PAD 79- 4243932870 6/14/17 14:23 6/16/1714:52 Functionality Training on 2/23/2017 89 Overcast 6 IR Camera N/A Na Repair Required N/A N/A N/A WA

8042, W.0.269 - 4243933845, BOAZ, W. CT 259 - 0243933843, Received IR Camere Operations & Equipment

CO9020425956 WAR 8062W Oil WEIL PAD BOAZ, W. O. 11 - 4243930284 4/3/17 936 4/3/17 10:03 Functionakty Training on 2/23/2017 62 Clear 3 IR Camera N/A Repaired Dtreng initial Pressure Relief Valve 1 Replacement 4/3f2017

Received IR Carnera Operations &

000020425958 LCIAR BOOTH 1 V AIR WELLPAD 1300111, A V. A 19 - 4249736969 3/29/171134 3/29/371209 Functionality Training on 2/23/2017 70 Gm, 7 IR Camera N/A No Repair Required N/A N/A N/A N/A

8e060e4111 Camem Operation. &

030020425960 LDAR CLABORN V M ION WELLPAD CIABORN, V. M. 10 -4249736780 6/23/179:15 6/23/17 9:45 Functionakty Training on 2/23/2017 82 Clear 3 IS Camera N/A No Repair Required N/A N/A N/A N/A

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0000204266/1 LDAR CLARK MATT GU B 79 PAD CLARK, MATT 7 -4249736359, CLARK, MATT GUI IN-4249736561 4/11/1713:40 4/13/1714:10 Functionality Training on 2/23/2017 72 Partly Cloudy 5 IR Camera N/A No Repair Required N/A N/A N/A N/A

Received IR Camera Operations &

000020426682 LDAR CLOUGH ADELE GU 211 WEUPAD CLOUGH, ADELE GU 2 15 - 4249734177 4/5/179:56 4/3/171009 Functionality Training on 2/23/2017 59 Clear 7 IR Care. 9/A No Repair Required N/A N/A N/A N/A

Received IR Camera Operations &

000020426683 LOAN CLOUGH MICHAEL 3 WELLPAD CLOUGH, MICHAEL 3' 4249734283 4/5/3713101 4/5/17 1110 FunctionaNy Training on 2/23/2017 so Clear 11 IR Camera N/A No Repair Required N/A N/A WA N/A

COLE TRUSTS 576A 109 - 4212132344, COLE TRUSTS 578A 7- Received IR Carrera Operalicins &

000020445088 WAR COLE TRUSTS 576 Al PAD 4212131540 5/31/17 10:48 5/3111711:16 Functionality Training on 2/23/2017 64 Overcast 1 IR Camera N/A No Repair Required N/A N/A N/A N/A

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Received IR Camera Operations 8. Equipment

000020426684 WAR COX 14 GUAM WELLPAD COX, I. R. 4 - 4249736046 6/22/17 11:25 8/22/1711:59 Funcbonality Training on 2/23/3017 as ow.,....t 1 IR Camem N/A Repaired During Initial Pneumatic Devices 1 Replacement 6/22/2017

CURRIE, FLORENCE 3 - 4249733818, CURRIE, FLORENCE 7. Diaphragm

000320426485 LDAR CURRIE FLORENCE 3 PAD 4249735247, CURRN, FLORENCE 8 - 4249735741, CURRIE, FLORENCE

9 - 4249735743 3/00/1714:09 3/2511704:68 Received IR Camera Operations &

Functionality Training on 2/23/2017 75 Clear 3 IR Camera N/A Repaired Later Gmliet I leaking on

separator 9. 4/19/2017

CURNE, FLORENCE 3 - 4249733818, CURRIE, FLORENCE 7 -

4249735247, CURRIE, FLORENCE 0- 4249735741, CURRIE, FLORENCE Received IR Came. Operations &

000020430877 EOM -RE CURRIE FLORENCE 3 PAD 9 - 4249735743 4/19/17 14:43 4/19/17 15:13 Functionality Training on 2/23/2017 76 Overcast S IR Camera N/A No Repair Required N/A NIA N/A WA

8, 2015 -August 2, 2017

Table 1- LDAII Survey Data 4 , " da Q

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Devon Energy

333 West Shell:Ian Avenue

Oklahoma City, OK 73102

Reporting Period: NSPS 0000 October 15, 2016 -October 14,2017 and NSPS 0000a September 18, 2015 -August 2, 2017

Texas

Table 3 - Pnuematic Pumps

STATE 0000/

0000a FACILITY NAME LATITUDE

(NAD 83) LONGITUDE

(NAD 831 CONDITION MET BY PNEUMATIC PUMP: EMISSION REDUCTION %

(if less than 95%) 1

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DEVIATIONS

TX 0000a AHMET UYSALER 3H PAD (b) (9) No control device or process is available on site N/A N/A TX TX 0000a 0000a CARLOCK ALLEN PAD ALLEN HOMER WELL PAD No control device or process is available on site No control device or process is available on site N/A N/A N/A N/A TX TX 0000a 0000a ALLISTON R M 6H PAD WOODY ANNA 5 WELLPAD No control device or process is available on site N/A N/A No control device or process Is available on site N/A N/A TX 0000a ARMSTRONG JAMES 1H PAD - No control device or process is available on site N/A N/A TX 0000a BAILEY RANG -1 B PAD Emissions are routed to a control device or process N/A N/A Tx 0000a REDING SOUTH 1.H PAD Emissions are routed to a control device or process N/A N/A TX 0000a BENNETT DONALD 311 WELL PAD No control device or process is available on site N/A N/A Tx 0000a BENNETT DONALD 1H WELL PAD No control device or process is available on site N/A N/A TX 0000a HICKEY BILLY 111 PAD No control device or process is available on site N/A N/A TX 0000a BLALOCK BOB GU 7 PAD No control device or process is available on site N/A N/A TX 0000a BLALOCK BOB GU 9 PAD No control device or process is available on site N/A N/A TX 0000a BOLES VERDIA 2H PAD No control device or process is available on site N/A N/A TX 0000a BONDS RANCH E 4 PAD No control device or

process Is available on site N/A N/A TX 0000a BONDS RANCH F 1 PAD No control device or process is available on site N/A N/A TX 0000a BRITE 111 No control device or process Is available on site N/A N/A TX 0000a BROWN J B GU 111 No control device or process Is available on site N/A N/A TX 0000a BURGESS JACK SH PAD No control device or process is available on site N/A N/A TX 0000a CASTLE 2H No control device or process is available on site N/A N/A TX 0000a TINDALL CATHY ANN 4H PAD No control device or process is available on site N/A N/A TX 0000a PITTS CHRLES 13H PAD No control device or process is available on site N/A N/A TX 0000a CHR LUC DRAW 4-7 PAD No control device or process is available on site N/A N/A TX 0000a CRSTNES L D N 1H PAD No control device or process is available on site N/A N/A TX 0000a CIRCLE R PARTNERSHIP 13H No control device or process Is available on site N/A N/A TX 0000a CIRCLE R PTNRSHIP 411 PAD No control device or process is available on site N/A N/A TX 0000a CIRCLER PARTNERSHIP 3H PAD No control device or process is available on site N/A N/A TX 0000a COOMER UNIT WELL PAD No control device or process is available on site N/A N/A TX 0000a CRABTREE GARY GU 3H No control device or process is available on site N/A N/A TX 0000a C2AJKOWSKI BRUNO 711 PAD No control device or process is available on site N/A N/A TX 0000a GRAHAM RANCH 5 0 CO2 No control device or process is available on site N/A N/A TX 0000a DCTC 6 DCCO 1 PAD No control device or process is available on site N/A N/A TX 0000a DICKENSON T L A3H No control device or process is available on sit* N/A N/A TX 0000a M L EARP B 311 PAD No control device or process is available on site N/A N/A TX 0000a EDITH BETTS (SA) 4H No control device or process is available on site N/A N/A TX 0000a ELROD JAMES 111 No control device or process is available on site N/A N/A TX 0000a ERICKSON LENA 111 No control device or process is available on site N/A N/A TX 0000a HOWARD WILLIAM 1H No control device or process is available on site N/A N/A TX 0000a PINCHER CALVIN PAD No control device or process is available on site N/A N/A TX 0000a BLUE G R (DEEP) GU 1H No control device or process is available on site N/A N/A TX 0000a GATLIN UNIT 1H No control device or process is available on site N/A N/A Tx 0000a WEBER GUNHILD DEEP 111 No control device or process is available on site N/A N/A TX 0000a HAGLER 1H No control device or process is available on site N/A N/A TX 0000a HALL BRENDA 1H No control device or process Is available on site N/A N/A TX 0000a HATTER AL 2H No control device or process is available on site N/A N/A TX 0000a HENCKEN FACILITY No control device or process is available on site N/A N/A TX 0000a HILL TOP RNCH 111 PAD No control device or process is available on site N/A N/A TX 0000a HOWARD WILLIAM PAD No control device or process is available on site N/A N/A

STATE 0000/

0000. FACILITY NAME LATITUDE LONGITUDE

(NAD 83) (NAD 83) CONDITION MET BY PNEUMATIC PUMP: EMISSION REDUCTION %

(If less than 95%) DEVIATIONS

TX 0000a HUD° C-GARRETT C PAD No control device or process is available on site N/A N/A

Tx 0000a JEWELL S A 1H No control device or process is available on site N/A N/A

TX 0000a WHITEHORN JOHN PAD No control device or process is available on site N/A N/A

Tx 0000a JOHNSON W D 829 PAD No control device or process is available on site N/A N/A

TX 0000. JOHNSON LOTTIE16PAD No control device or process is available on site N/A N/A

TX 0000. JOHNSON KENNETH TH No control device or process is available on site N/A N/A

Tx 0000a KNG-GTRY-RVES 1H PAD No control device or process is available on site N/A N/A

TX 0000a KING SISTER IA PAD No control device or process Is available on site N/A N/A

Tx 0000. LAU 3 No control device or process is available on site N/A N/A

TX 0000a LBR FAMILY PRTNR 7H PAD No control device or process is available on site N/A N/A

TX 0000a ERICKSON LENA 1H No control device or process is available on site N/A N/A

TX 0000. LESTER TO AW SH PAD Emissions are routed to a control device or process. N/A N/A

TX 0000. LIGHTFOOT DONALD Di No control device or process is available on site N/A N/A

TX 0000. LITTLE PLACE 1H PAD No control device or process is available on site N/A N/A

TX 0000. LOFFLAND T W ESTATE 1/4 No control device or process is available on site N/A N/A

TX 0000a LUMBERMEN B1OH PAD No control device or process is available on site N/A N/A

TX 0000. MARIE T TRUST PAD No control device or process is available on site N/A N/A

TX 0000a MARTHA MUZYKA 1H PAD No control device or process is available on site N/A N/A

TX 0000a MCKELVEY 2 WELL PAD No control device or process is available on site N/A N/A

TX 0000. MELTON DIKE PAD No control device or process is available on site N/A N/A

TX 0000. MENCHACA NICHOLAS 1H No control device or process is available on site N/A N/A

TX 0000. MURRIN BEAR CREEK 1H PAD No control device or process is available on site N/A N/A

TX 0000. NAUGLE GU SA 2H PAD No control device or process is available on site N/A N/A

TX 0000. NOWLIN BILLIE 21I PAD No control device or process Is available on site N/A N/A

TX 0000. OLIVER A UN 15H PAD No control device or process is available on site N/A N/A

TX 0000. PENT ARNOLD BATTERY No control device Of process is available on site N/A N/A

Tx 0000. PETCO FAMILY 1H PAD No control device or process is available on site N/A N/A

TX 0000. PORTER ET AL WELLPAD No control device Of 1310Cess is available on site N/A N/A

TX 0000e PRATHER 1H WELL PAD No control device or process is available on site N/A N/A

TX 0000. PROSPECT CO 3H PAD No control device or process is available on site N/A N/A

TX 0000. RIVE ENTERPRISES 2H PAD No control device or process is available on site N/A N/A

TX 0000. ROBiNSON OTIS1H No control device or process is available on site N/A N/A

TX 0000a SANSONE GLENNA ill PAD Emissions are routed to a control device or process N/A N/A

TX 0000. SEWELL RANCH INC B4 PAD No control device or process Is available on site N/A N/A

TX 0000. SHRN MCCAFFITY 2HPAD No control device or process is available on site N/A N/A

TX 0000. SHRN MCCAFFITY 8HPAD No control device or process is available on site N/A N/A

TX 0000a SOUTHERN BAPTIST 1H No control device or process is available on site N/A N/A

TX 0000. TALLY E C 11H No control device or process is available on site N/A N/A

TX 0000. TANNAHILL CLIFTON 9H No control device or process is available on site N/A N/A

TX 0000. TAYLORNORMAN PAD SA No control device or process is available on site N/A N/A

TX 0000. TAYLORTAYLOR A PAD No control device or process is available on site N/A N/A

Tx 0000. THATO-IER MATTIE GU6 PAD No control device Of process Is available on site N/A N/A

TX 0000. GUTHRIE THOMAS 3H No control device or process is available on site N/A N/A

TX 0000. GUTHRIE THOMAS 1H No control device or process Is available on site N/A N/A

TX 0000a GUTHRIE THOMAS 1H No control device or process is available on site N/A N/A

TX 0000. TODD SOUTH 6 No control device or process is available on site N/A N/A

TX 0000. TRULOVEWHITEHEAD SA 1H PAD No control device or process is available on site N/A N/A

TX 0000. CLABORN V M 9H PAD Emissions are routed to a control device or process N/A N/A

TX 0000. VANN CATTLE YARDS B2 PAD No control device or process Is available on site N/A N/A

TX 0000. VANN CATTLE YDS C1H No control device or process is available on site N/A N/A

TX 0000. VEALE RANCH 26H PAD No control device or process Is available on site N/A N/A

TX 0000. VISTA MANUFACTURING 1 No control device or process is available on site N/A N/A

TX 0000. WAGGONER MARIE C13H No control device or process Is available on site N/A N/A

TX 0000a WALLS WOODY WELL PAD No control device or process is available on site N/A N/A

TX 0000. WEBB BARNETT 1H PAD No control device or process is available on site N/A N/A

TX 0000. WEST BOB 1H No control device or process is available on site N/A N/A

STATE 0000/

0000a FACILITY NAME LATITUDE LONGITUDE

I NAD 83) (NAD 83) CONDITION MET BY PNEUMATIC PUMP: EMISSION REDUCTION %

(It less than 95%) DEVIATIONS

TX 0000a WHITEHEADMCKINNEY (SA) 1H PAD I No control device or process is available on site N/A N/A

TX 0000a WYATT W H 214 No control device or process is available on site N/A N/A

TX 0000a YOUNG JEAN 4 WELLPAD No control device or process is available on site N/A N/A

TX 0000a BLAKLEY VILLA EST Al PAD No control device or process is available on site N/A N/A

TX 0000a BONTKE TRUST UNIT 1H No control device or process is available on site N/A N/A

TX 0000a LAPRELLE 611 WELL PAD No control device or process is available on site N/A N/A

TX 0000s LAPRELLE 611 WELL PAD No control device or process is available on site N/A N/A

TX 0000a DEAN JACK R 111 No control device or process is available on site N/A N/A

TX 0000a HOLLINGSWORTH KATHRYN 3 No control device or process is available on site N/A N/A

TX 0000a DEAN B 1H No control device or process is available on site N/A N/A

TX 0000a CARTER FAMILY TRUST PAD No control device or process is available on site N/A N/A

TX 0000a LITTLE PLACE 5H No control device or process is available on site N/A N/A

TX 0000a KING SISTERS 2H No control device or process is available on site N/A N/A

TX 0000a BURGESSELLIS SA 1H PAD No control device or process is available on site N/A N/A

TX 0000a WEBBBARNETT 811 PAD No control device or process is available on site N/A N/A

TX 0000a SWELL RNC INC 2 PAD No control device or process is available on site N/A N/A

TX 0000a WOODY ANNA 8 No control device or process is available on site N/A N/A

TX 0000a TALLY PAVE S BATTERY No control device or process Is available on site N/A N/A

TX 0000a KING SISTERS 14H PAD No control device or process is available on site N/A _ N/A

TX 0000a NICKELSON CRY 214 PAD No control device or process is available on site N/A N/A

TX 0000a DUNN HOBBY ESTATE 8H No control device or process is available on site N/A N/A

TX 0000a WEIL LYNNE 6 No control device or process is available on site N/A N/A

TX 0000a LUMBERMEN A 1H PAD No control device or process is available on site N/A N/A

TX 0000a LOOPER R W GU 1H No control device or process is available on site N/A N/A

TX 0000a ALLEN HOMER WELL PAD No control device or process is available on site N/A N/A

TX 0000a AVONDALE HGHTS UN 3 PAD No control device or process is available on site N/A N/A

TX 0000a BRIDGES W B DEEP GU 1H PAD No control device or process is available on site N/A N/A

TX 0000a DICKENSON IL A3H No control device or process Is available on site N/A N/A

TX 0000a NORMAN J E C10 PAD No control device or process is available on site N/A N/A

TX 0000a HARDEMAN CI 14 OCCO2 No control device or process is available on site N/A N/A

TX 0000a LOGAN H H 4 WCCO 4 No control device or process Is available on site N/A N/A

TX 0000a PETTY T. F. GU PAD No control device or process is available on site N/A N/A

TX 0000a ACOLA SAM 4 No control device or process Is available on site N/A N/A

TX 0000a FOX ZINA GAS UNIT 2 7H No control device or process is available on site N/A N/A

TX 0000a HILL TOP RCH A3H PAD No control device or process is available on site N/A N/A

TX 0000a DERTING B G 5 No control device or process Is available on site N/A N/A

TX 0000a JOHNSON W D B30H PAD No control device or process is available on site N/A N/A

TX 0000a MCGEE MIS GU PAD No control device or process Is available on site N/A N/A

TX 0000a HAGLER ALVIN 3H PAD No control device or process is available on site N/A N/A

TX 0000a FOX JEFF FOX ZINA 114 No control device or process Is available on site N/A N/A

TX 0000a DANIELS 1 K FAMILY GU 2H No control device or process is available on site N/A N/A

TX 0000a GAGE COKE L D 1 No control device or process is available on site N/A N/A

TX 0000a HUGHES 0 J GU A 1H No control device or process is available on site N/A N/A

TX 0000a CZAJKOWSKI BRUNO 3H PAD No control device or process is available on site N/A N/A

TX 0000a GRAHAM RANCH 7H DCCO 2 No control device or process Is available on site N/A N/A

TX 0000a KING SISTER WELL PAD No control device or process is available on site N/A N/A

TX 0000a FOX JEFF -FOX ZINA SA 411 No control device or process Is available on site N/A N/A

TX 0000a MILLER B1 BATTERY No control device or process is available on site N/A N/A

TX 0000a KEE BOBBIE B WELLPAD No control device or process is available on site N/A N/A

TX 0000a STONER FAMILY PRTNRS PAD No control device or process is available on site N/A N/A

TX 0000a BOLES VERDIA 2H PAD No control device or process is available on site N/A N/A

TX 0000a MAYFIELD WELL PAD No control device or process is available on site N/A N/A

TX 0000a LBR FAMILY PARTNERSHIP 8F1 No control device or process is available on site N/A N/A

TX 0000a KENNON ALFRED 3H No control device or process Is available on site N/A N/A

TX 0000a MCCARVER .1 L 1H No control device or process is available on site N/A N/A

TX 0000a FRAZIER RICKY 714 PAD No control device or process Is available on site N/A N/A

STATE 0000/

0000a FACILITY NAME LATITUDE LONGITUDE

(NAD 810 (NAD 83) CONDITION MET BY PNEUMATIC PUMP: EMISSION REDUCTION %

(If less than 95%) DEVIATIONS

TX 0000a RANEY UNIT 1H No control device or process is available on site 1

N/A N/A

TX 0000a WEST & WEST WELL PAD No control device or process Is available on site N/A N/A

TX 0000a WEST & WEST WELL PAD control device or process is available on site N/A N/A

TX 0000a THOMAS HATTIE B SH .No

control device or process is available on site N/A N/A

TX 0000a MCGEE THELMA 3H ,No

No control device or process is available on site N/A N/A

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STATE 00004 COMMON PAD NAME FAOUTY NAME 51543 Ill/S 0-0/5102 0546 SERVICE REMOVAL DAll RESUNNO OMANI 2ri. AV06,11a la daunt...1 TANKS 000- PEE174 N., WIN VOGRATA

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eas 5/17/16 0/1/17 LOU 0140NONStoe ANA 710 liNers N/A N/A 54/A N/A MERLE T. WAGGONER CAW) TH

Flume., te. ,

MERLE T. WAGGONEA lAW) 3H 1

MERLE T. WAGGONER (*MAN

IN 0000 MERLE T. wAGDoNER(AW1 01 Continuous PIM

11/A N/A WA Loss of combintoi pilot 945.1hours N/A N/A N/A WA MERU T. WAGGONER lAW)5H

Flame Cannons

MEM T. WAGGONER (AW) 64

SWINGER souni 211

IN 0000 13E011.010 500114 111 Continuous RIM

N/A N/A N/A Lost 01 onnbustot pilot 175.5 bows N/A WA N/A N/A 500111010 10411K 311

Slooneentribentu

CLARK CARTER 15A)114

TX 0000 Of II IONNSON 2N BEN 10111560112/1 Continuous PIM

42/A N/A WA Lots RI combutost plot 63 hours WA N/A N/A N/A

Rome Conshustm

0105101 201

Continuous PROT

WA N/A N/A toss d combustor Mlot 243 hews WA N/A N/A WA RUSSET im

name Combustor

13055EY IN

TX 0000 RUSSET 27I

NOSEY 511

Continuous Pitin

N/A N/A WA Lets ol ombustor pilst2i2.$ hours N/A 14/11 N/A WA SUSSEX 611

Flame Cannata

PUSSEV 74

TX 0000 01 Mu(Gu 1 Cil WIVE GUI COM11100L6 P1104

N/A N/A WA i.x,i al combustor plot 140 boon WA N/A N/A N/A

Flame Consbeitot

C1111601119.5 LUCKS' DRAWN

TX 0000 CIIRISTINE'S LUCKY CRIAW AWN Continuous Plot

N/A WA VW Lois ol combustor plat 136.1boure WA N/A N/A INA

CHRISTINE'S LUCKY DRAW? name Combustor

ix 0000 GATE3EDWARD5 NT GAIES-HAVARCG TH Contnuout Pea

WA WA N/A LOU .0 combustor pRot 6.6 Mon WA NIA N/A N/A

Flame Combustor

TX 0000 II CARTER WELL PAO 1E OATEN OA) 621 Conditions. Plot

N/A WA N/A Loss of tonibutlin Riot 1E4 500200 WA WA N/A N/A

num Corishertor

IN 0000 MARINA NEM 6N MIATHA REEVES 6H Contiounis PIM

N/A WA N/A 1.1.11 of combustor plot 5.8 hours N/A 14/A N/A N/A

Woe Conbunot

IN 0000 LIME RANCH MI PAD WALE RANCH 4111 Cons/owns Plot

NIA N/A N/A Lon el cornbutost plot 133.6 hours WA N/A N/A N/A

nano Contuttos

TR 0000 WALE RANCH ICH PAD VEALE RANCH SRI Winnow P&L

N/A WA WA Loss ol connustor plot 127.1 Naos WA N/A N/A N/A

lanse Conti/Num

TX 0000 VASTERN LSRE 111 WESTERN LAKE IN Contiouout PAW

WA WA N/A toss oi combustot pilot 6.1 hours N/A N/A N/A N/A

none Combintot

WESTERN (AKE GU A 114

TX 0000 WESIIRIN LAO GU A IN C00110104114144

N/A N/A N/A Lon of coollustor 6.1101 731 hours N/A N/A N/A N/A NISTERN LAIN GU A 211

FIST.. Combustor

WESTERN LAKE GU A 371

NSPS 0000 and 0000a Annual Report

Devon Energy

333 West Sheridan Avenue

Oklahoma City, OK 73102

Reporting Period: NSPS 0000 October 15, 2016 -October 14, 2017 and NSPS 0000a September 18, 2015 -August 2, 2017

Texas

Table 5 - Reciprocating Compressors

(Cumulative hours or months of operation for whichever is later)

STATE 0000/0000a FACILITY NAME LATITUDE

(NAD 83) LONGITUDE

(NAD 83) CUMULATIVE TIME SINCE INITIAL

STARTUP (HRS) CUMULATIVE TIME SINCE

10/15/2012 CUMULATIVE TIME SINCE THE LAST

ROD PACKING REPLACEMENT DEVIATIONS REMOVAL DATE

TX 0000a FRAZIER JAMES 4 DC04 8,760 N/A

TX 0000a TALLY FAYE S BATTERY 13,944 N/A

TX 0000a CZAJKOWSKI BRUNO 3H PAD 8,376 -- N/A --

TX 0000a MILLER B1 BATTERY 5,304 N/A 4/1/2017

TX 0000a LAU 3 5,520 N/A

TX 0000a PENT ARNOLD BATTERY 1,608 N/A 4/18/2017

TX 0000a SEWELL RANCH INC B4 PAD 2,832 -- N/A

/

Appendix B: Southern

Devon is including the following information:

- Table 6 - LDAR Survey Data
- Table 7 - Hydraulically Fractured Well Flowback Data
- Table 8- Pneumatic Pumps

Devon did not have NSPS 0000 and/or NSPS 0000a applicable Pneumatic Controller, Centrifugal

Compressor, Reciprocating Compressor or Storage Tank affected facilities during these reporting periods.

Therefore, tables for these equipment types are not provided.

In accordance with Title 40 §60.530a I, 56"1 4C4,12'i Scott Lackey

Manager of Production Engineering (Responsible Official) certify based on information and belief formed

after reasonable inquiry, the statements and information in the attached NSPS 0000 document are

true, accurate, and complete.

Sincerely,

Scott Lackey

Manager Production Engineering

(405) 552-5036

845115 00004 Annual Repurt

Demn Energy

333 West Sheridan Avenue

Oldahorna 019, 08 73102

Reporting Period: NSPS 0000a september IX 2013 August 7,2017

00000

Tells 0-1088 survey Data

COUNT COMPONENT(S)

LATITUDE LONGITUDE MAXIMUM MONITORING WITH FUGITIVES REPAIR SUCESSFUL REPAIR

SURVEY ID INSPECTION TYPE FACUITY NAME WELL UST (88D13(INAD IL% START DAW FINISH OATE PERECHUNIDIN TRAINING/EXPERIENCE ANNUM TEMPERATURE SKY CONDITION WIND SPEED INSTRUMENT USED DE ii.r.TION SURVEY OUTCOME COMPONENT DETECTED'' METHOD' DATE'

CANTU A 581• 4212333852, HARTMAN A 39 -4212033880, CANTU A -..

28 -4212303878. HARTMAN A 29 • 4212933881, CANTU A 314. Received IR Camara Operations & Equipment

016010426609 SOAR CANTU A PAD 3 4212333878 CANTU A 411-4212333679 3/28/17 8:48 3/28/17 9:24 FunctionaftyTrairing on 2/23/2017 lb Partly Cioody 6 IR Camera PA/A Repaired During Initial Valves 4 Replacement 3/28/2017

CANTU A 611- 4212333854, CANTU A 711 - 4212333885, CANTU A 1361 .

4212333887, CANTU A 914-4212333888. HARTMAN A 59 . Remind IR Carrera OperathNis & EquiPmem

006020426610 (DAR CANTU A PAD4 4212333886, HARTMAN A 71.1 -4212303889 3/29/178:11 3/29/179146 Functionality Training. 2/23/2017 74 Partly Cloudy 7 IR Camera WA Repeired During Inhlal 8a11291 Replacement 3/28/2017

CANTU C EN - 4212333655, CANTU C 711 - 4212333256, CANTU C191 - Received IR Comm Operations & Equipment

000020426611 WAR CANTU A PAD 5 4212393857, CANTU C914 -4212333860 3/29/179:48 3/29/1710:20 Functionality Training on 2/23/2017 65 Overact 2 IR farmer. N/A Repaired During lnilial Valves 1 Replacement 3/29/2017

HYATT A 9H • 4212334242, HYATT A 11M -42123%240, HYATT A 10H - Received IN Camera Operations & Equipment

00=0421482 LIAR CANTOR PAD 2 4212334241, CANTU 8118 -4212334239, CANTU B 101-421233423B 3/6/17 1345 3/6/17 1435 Functionality Training., 2/23/2017 85 Partly Cloudy 14 48Camera 14/A Repaired During Initial Valves 1 Replacement 3/6/2017

CLARK 4384-4212333982. CLARK A 1211- 4212333985, CLARK ABM- Received IR Camera

Operations & EquIprrent

000O2042148/ WAR CLARK A P402 4212333981, ClARK A 119 - 4212333954, CLARK A 10H - 4212333983 3/8/17 9:33 3/8/17 10:12 Functionality Training. 2/23/2017 64 Overact 6 IR Camera N/A Repaired During Initial Valves 2 ReWmement 3/8/2017

CLARK A 7H .4212333979, CLARK A 6N i 4212333978, CLARK A 564 - Received M Camera Operation, & ..

Seal

000320421483 LOAA CLARK A P803 4212339977, CLARK A411 -4212333976 1/8/1711139 3/9/1712:97 Furctionality Training on 2/23/201/ 72 Overcast 2 IR Camera N/A Repaired During Initial conneGors 1 Replacement 3/11/2017

Tighten & Adjust

CLARK 6214- 4212134041, CLARK II - CLARK A SA 1H .4212334032. flang43,

OUVER C 211.4212334042, 01.19E8 C 311 - 4212334043, OLIVER C 49 - Received IN Camera Operations & minima., And

C00320421485 LDAR CLARK 13 PAD 3 4212334044,01.1VER C 564 - 4212334015, COVER 0 91 - 4212334040 1/8/1710:17 3/8/17 11:12 Functionality Training on 2/23/2017 64 O vercast 7 IR Camera N/A Repaired During initial Connectors2 equipment 3/8/2017

CLARK 8 211 -4212334041, CLARK 8- CLARK A SA 1H - 4212334033,

OLIVER C 2/1 - 4212334042, OUVER C 314- 42123)4043. OLIVER CON - Received 18 Camera Operations & Seal

00=0421485 WAR CLARK B PAD 3 4212334044, OLIVER C 561 -4212334045, OLIVER 0314 - 4212934040 1/0/1710:17 3/8/17 11,12 Functionnlity Training on 2/23/2017 64 Overcast 7 IR Camera N/A Repaired Owing Initial valves 1 ReMecement 3/8/2017

CLARK 820 -421233404/, CLARK 13 - CLARK A SA 111- 4212334033,

OUVER C21-1 -4212334042. OUVER CUR - 4212334043, OLIVER C 4H • Received IR Camera Operations & Equipment

C00320421465 11238CLARK B PAD 3 4212334044, OLIVER C 01-I. 4212334045,04141ER D 2/4 - 42173%040 3/8/1720117 3/8/17 1112 Functionality Training on 2/23/2012 64 Circrcast 7 IA Camera N/A Relieved Owing Initial V, l. 2 Replacement 3/8/7017

CLARK C644 -4212333993, CLARK C SH - 4212333992, CLARK C 38- Received IR Camera Operations 8 Equipment

0000213121497 LOAN CLARK C PAD 3 4212333990, CLARK C4H -4212333991 3/9/179,47 3/9/171037 Functionality Training on 2/23/2017 74 Overcast 7 IR Camera N/A RepaWed During Initial 0310e81 Replacement 3/9/2017

Tighwen & Adjust

flanges,

COVER 0 4H -4212334001, DOVER D 39 -4212334CW/, OLIVER 0 561- Received IR Camels Operations & connectors and

C0002%21499 LDAR CLARK C PAD 4 4212334002 3/9/171040 3/9/17 11:17 Functionally Training on 2/23/2017 2 6 IR Carrera N/A Reuaired During Initial Valves 1 mluipment 3/9/2017

OLIVER 0 414-4212334001, 01.18E8 D PI - 4212330200, OLIVER 0544- Received IN Camera Operations & -

DRAPment

C00320421499 WAR CLARK C PAD 4 4212394CO2 3/9/1710.40 3/9/1711:17 f unctionality Training on 2W3/2017 72 N e -cast 6 IR Carrera N/A Repaired During initial Valves 2 P4placernent 3/9/2027

0880500 A gel -4212334031, GWOSOZ A 811 -4212334034, GW0502

A 7H -4212334035, GWOSDZ A 6H - 4212334029, 6W051)0 A 5/4 •

4212334027, GW0302 A 101.4212334275. GW0502 A 129 - Received PR Camera Operations & lquiPment

CC=042660S LDAR GW0502 A PAD 2 4212334273 3/27/1721:25 3/27/17 955 Functionakty Training on 2/23/2017 Part ly Cloudy 4 IN Carrera Repaired During Initial Valves 1 Replacement 3/27/2017

RATES 8 -GWOSD2 A SA 19 -4212334023, GWOSOZ A 214 - ,,_//A

4212334[08, RATES 8 - GEFFERT A SA 1H -4212334170 GW0902 A Received 114 Camera Operations 1 Equipment

C00020426606 LOAR GWOSOZ A PAD 4 3H - 4212334CQ5,05905DZ A 49 -4212334026 27 1710142 7 1711139 4 urctionaaty Training on 2/23/2017 78 Partly Cloudy 9 IR Carrera N/A Repaired During initial Vaive: Replacement 3/27/2017

GWOSOZ A 119 • 4212334143, GWOSOZ A 1011- 4212334142,

09403132 A - MIGURA A SA 18-4212334150, MIGURA A 10H- Received IN Camera Operations & Equipment

M00700E404 LDAR 0W0302 A PAD 5 4212334148 3/27/17701 3/27/178:22 Functionality Training on 2/23/2017 69 Clear 1 IR Camera N/A Repaired During Initel 41. 1209 I Replacement 3/27/20/7

Tighten &Adjust

HARTMAN A 129 . 4212333695, HARTMAN A 3361• 4712333E96. &ens.,

HANTIAAN A 961 -4212333291, HARTMAN A 118-4212333890. Received OR Carrera Operations & connectori and

2*C0020426613 LDAR HARTMAN A PAD 2 HARTMAN A 1.011 -4212333893 3/29/177138 3/28/178.01 Functionality Training on 2/23/2017 71 Mostly Cloudy 6 IR Camera NA Repaired During Ial Conn ectors I equipment 3/28/2017

HARTMAN A 129 - 4212333895, HARTMAN A 1311 -4212331896,

HARTMAN A 911 - 4212333891, HARTMAN A 12H-4212333894, Received OR Camera Operations & Equipment

=020426613 LDAR HARTMAN A P432 HARTMAN A 10H -4212333893 3/28/17 7:34 3/28/179:08 Fianctionalay Training on 2/23/2017 72 Mostly Cloudy 6 IR Camera N/A Repaired During Initial Valves1 Replacement 3/28/2017

HYATT A 8H -4212334037, HYATT A 7H -4212334013, HYATT A WI -

4212334012, HYAll A 4H -421233234S, HYATT A 911 •4212332942, Reselved IR Camera Operations & Equipment

000020421487 LDAR HYATT A PAD 12 BATTERY HYATT A 2M-4212332466, HYATT A 91-4212932325 3/9/17 12,55 3/9/2713:31 Functionality Training on 2/23/2017 85 Partly Cloudy 11 IR Camera N/A Repaired During Initial Valves 3 Replacement 3/9/2017

Tighten & Adjust

INC% A 10H • 4212333818,1E810M A 94 . 4212333741, 8804 8381 - flanges,

4212333830 IFIROM 8 LW • 4212333873.188064 8 714 . 4212333822, Received IR Camera Operations & connectors and

020070426614 MAR IBRWA A PAD 3 IBROM A 9H - 4212333827 3/27/1712143 3/27/171352 Functionality Training on 2/23/2017 83 Partly Cloudy 12 IR Camera N/A Repaired During Intel Connyctors 1 equipment 3/27/2017

IBROM A 109 - 4212333828 1RROM A ITH - 4212333741. !BROM 6 94 -

4212333830,19MM 13 8H-4212333823, IBROM El 79 - 4212333922, Received IR Camera Operations & Equipment

030020426614 LDAR IBROM A PAD 3 113140451 A 911 • 4212333827 9/27/171243 1/27/1713:92 FunakmaliN Training on 2/23/2017 10 Pertly Cloudy 12 Ill Camera N/A Repaired During Initial Valves 2 Replacement 3/27/2017

WROSI 8 69 OPRNIBROM 13 - 42123%237, FISHER C5H OPRN !BROM Received IR Camera Operations &

003020426612 1DAR IBROM B PAD 1 8-4212334236.1114408 C 6H OPRN 1BROM 13 - 4212334235 3/27/1712t01 3/27/1712132 FunOtionakty Training On 2/23/2017 82 Partly Cloudy 8 IN Camera N/A No Repair Required N/A N/A

KRAUSE *481-I - 4212334123, KRAUSE A 103. - 4212334127. KRAUSE A

91I• 4212334126, KRAUSE A • KRAUSE CIA 311•4212334131, KRAUSE Received IR Camera Operations &

=020421489 LOAN KRAUSE A PAD 4 A- KRAUSE C SA48 - 4212334133 3/7/179125 3/7/179125 Functionality Training on 2/23/2017 73 Overcast A IR Camera N/A No Repair Require.] N/A N/A N/A

KRAUSE ei 1911- 4212334174, KRAUSE 828 -4232032771, KRAUSE 11 _

311 - 4212332825, KRAUSE 848 -4217132928. KRAUSE 8 5E-

4212332827, KRAUSE 8 61.1 -4212332829, KRAUSE B 714 - 4212332828

KRAUSE B 2111 • 4212334032, KRAUSE El 1214 - 4212334179. KRAUSE 13 Received IR Wilma Operations & Equipment

M0020421490 LOAR KRAUSE B PAD 2 119 -4212 3/7/1712138 3/7/2713107 Functionaky Training on 2/23/2017 79 Mostly Cloudy 5 IN Cement 11/A Repaired During Initial Valves 1 Replmement

KRAUSE B 1411- 4213334175. STRENIC A 104-42123341414. STROM A

1144 • 4212334145, STRENK A 12111•4212334146, STRENK A 149 •

4212334147, STROM A SH - 4212334102, STRIENK A 8H - 4212334103, Received IR Camera Operations &

0=20421491 WAR KRAUSE B PAD 4 STRENK A 7H - 4212334104, WRENS(ASH -4212334105 3/7/1713:13 3/7/17 13:42 Functionality Training on 2/23/2017 78 Mostly Clou dy 7 IR Camera NIA No Re ale Re• Wier' TVA N/A N/A

KRAUSE A 12H - 4222334009,08403K A 1361- 4212134100, KRAUSE A

1444 - 4212334101, KRAUSE C214 -4212334004, KRAUSE C3H •

4212334093, KRAUSE C 9H .4212334000084310 C 1064 -

4212334397, KRAUSE COIN -4212334096, KRAUSE C 1214 • Received 611Camera Operations & Equipment

W00204214113 (DAR KRAUSE C PAD 263 4212334056, KRAUSE 0 SA5 .4212334110 3/7/1719118 3/7/17 1155 Functionalty Training on 2/23/2017 /6 (7vercast 5 Camera IR N/A Repaired Ouring initial Valves 3 Replacement 3/7/2017

MIGURA ASH -4212304140 141GURA A 611 • 4212334141, M1GURA A Rewlved IR Cameo. Operations & Equipment

DC0020426E08 SOAR MIGURA A PAO -4212334138 MIGJRA A 91 -4712334139 7 78:26 3 27 17 9:03 Functisnall Traini on 17 72 Clear 7 IR Carnma N/A R wed 0.41 In9ial Valve Re • I/moment 72017

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NSPS 0000 and 00003 Annual Report

Devon Energy

333 West Sheridan Avenue

Oklahoma City, OK 73102

Reporting Period: NSPS 0000 October IS, 2016 -October 14, 2017 and NSPS 0000a September 18, 7015 -August 2, 2017

Texas

Table 7- Hydraulically Fractured Well Flowback Data

STATE 0000/

0000a WELL NAME US WELL ID LATITUDE LONGITUDE

INS ONSET OF FLOWBACK DATE/TIME DIRECTED TO

SEPARATOR DATE/TIME

RETURNING TO INITIAL

FLOWBACK STAGE DATE/TIME FLOWBACK EQUIPMENT

DISCONNECTED/STARTUP OF

PRODUCTION DURATION OF

FLOWBACK (hrs) DURATION OF

RECOVERY TO

FLOWUNE (hrs) DISPOSITION OF

RECOVERY DURATION OF

COMBUSTION (hrs) DURATION OF

VENTING (hrs) REASON FOR

VENTING WILDCAT OR

DEUNEATION WELL DEVIATIONS

(i.e lack of flowback controls)

TX 0000. ARNDT A 101-1 4212334135 I

,

'4 9/15/1610:00 9/15/16 10:00 N/A 10/10/16 6:00 596.00 596.00 Sales0 0 N/A N/A N/A

N/A TX 0000a ARNDT A 115

ARNDT A 13H

ARNDT A 9H 4212334136

4212334137I

4212334134 11/30/1610:00

11/30/1610:00

9/15/1610:00 11/30/1611:00 N/A 12/12/16 600 284.00 283.00 Sales 0 0 N/A N/A

IX 0000a 11/30/1611:00 N/A 12/12/166:00

10/4/1616:00

-- 284.00 2133.00 Sales 0 0

0 N/A

N/A N/A

N/A N/A

N/A 7X 0000a 9/15/1610:00 N/A 462.00 462.00 Sales 0

TX 0000a CANTU A 251 4212333876 11/10/15 10:00 11/10/15 13:00 N/A 11/18/15 0:00 182.00 179.00 Sales 0 0 N/A N/A N/A

TX 0000. CANTU A 3H 4212333878 11/10/15 10:00 11/10/1513:00 N/A 11/18/1.5 0:00 182.00 179.00 Sales 0 0 N/A N/A N/A

TX 0000a CANTU A 4H 4212333879 11/10/1510:00

11/10/15 10:00 11/10/1513:00

11/10/15 /3:00 N/A

N/A 11/18/150:00

11/29/15 17:00 182.00

463.00 179.00

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N/A N/A

N/A TX 0000a CANTU ASH 4212333882

7X 0000a CANTU A 651 4212333884 11/23/15 15:00

11/23/1512:00 11/23/1517:00

11/23/1513:00 N/A

N/A 12/7/15 0:00

17/7/150:00 201.00

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TX 0000a CANTU A 7H 4212333885 N/A

13 0000a CANTU A 8H 4212333887 11/23/1512:00 11/23/1513:00 N/A 1212/150:00 204.00 203.00 Sales 0 0 N/A N/A N/A

TX 0000a CANTU A 9H 4212333888

4212334238 11/23/15 9:00

12/12/1613:00 11/23/15 16:00

12/12/161.5:00 N/A

N/A 12/2/15 0:00

12/19/169:00 207.00

--.

164.00 200.00 Sales 0

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N/A N/A

N/A N/A

N/A TX 0000. CANTU B 10H 162.00 Sales

TX 0000a CANTU B 11H 4212334239

4212333855

42123.33856

4212333857 12/12/1616:00

9/24/1.59:00

9/24/159:00

9/24/159:00 12/12/1617:00

9/24/15 18:00

9/24/15 18:00

9/24/15 18 00 N/A

N/A

N/A

N/A 12/19/16 9:00

10/1/15 16:00

10/1/15 16:00

10/1/15 16:00 161.00

175.00 160.00

166.00 Sales

Sales 0

0

0 0

0

0

D N/A

N/A

N/A

N/A N/A N/A

N/A

N/A

N/A TX 0000a CANTU C 651

CANTU C 7H N/A

N/A TX 0000a 175.00

175.00 166.00 Sales

TX 0000. CANTU C 851 166.00 Sales 0 N/A

TX 0000a CANTU C951 4212133860

4212333983 9/24/1510:00

1.7/18/1514:00 9/2411518:00

17/18/1517:00 N/A

N/A 10/3/15 18:00

12/26/359:00 224.00

187.00 216.00

188.00 Sales 0

o 0

0 N/A N/A

N/A N/A

N/A TX 0000a CLARK A 1051 Sales N/A

TX 0000. CLARK A 11H 4212333984 12/18/15 1500 12/18/151700 N/A 17/26/159:00 1E16.00 184.00 Sales 0 0 N/A N/A N/A

TX 00000 CLARK A 1211 4212333985 17/U/1514:00 17/18/1517:00 N/A 12/26/159:00 187.00 184.00 Sales o o N/A N/A N/A

TX 0000a CLARK A 4H

CLARK A 5H 4212333976

4212333977

4212333978

4212333979

4212333981

4212333982 12/15/15 9:00

12/15/15 9:00

12/15/15900

17/15/1S900

17/18/151300

12/18/151400 12/15/15 11:00

17/15/1511:00

12/15/1511:00

12/15/15 1100

17/18/151600

12/18/1517:00 N/A

N/A

N/A

N/A

N/A

N/A 12/22/15 13:00

12/22/15 1300

12/22/15 13:00

12/22/1513:00

12/76/15900

12/26/159:00 172.00

172.00 170.00

170.00 Sales

Sales 0

0

0 0

0

o

D

0

0 N/A

N/A

N/A N/A N/A

N/A

N/A

-

N/A

N/A

N/A TX 00003 N/A

N/A TX 0000. CLARK A 6H 172.00

172.00

188.00

187.00 170.00

170.00

185.00

184.00 Sales

TX 0000a CLARK A 7H Sales

Sales

Sales 0

0

o N/A

N/A N/A

N/A

N/A ix 00009 CLARK A 8H

TX 0000. CLARK A 9H N/A

TX 0000a CLARK B . CLARK A SA 1H 4212334033

4212334041 1/8/1610:00

1/8/16 1000 1/8/1612:00

1/8/1612:00 N/A

N/A 1/16/1618:00

1/16/1618:00 200.00

200.00 198.00

198.00 Sales

Sales 0

0 0

0 N/A

N/A N/A

N/A N/A

N/A TX 0000a CLARK B 2H

TX 0000. CLARK C 3H 4212333990 2/29/1612:00

l/29/161200 1/29/1612:00

1/29/1612:00 N/A

N/A 2/3/1618.00

2/3/161800 126.00

126.00 126.00

126.00 Sales

Sales 0

0 0

0 N/A

N/A N/A

N/A N/A

N/A TX 0000a CLARK C 4H 4212333991

TX 0000e CLARK C SH 4212332992 1/29/1612-00

1/29/1612:00 1/20/16171111

1/29/16 12:00 N/A 2/3/16 1 e -nn

2/3/161800 126011

126.00 130110

126.00 Sole c

Sales n

0 n

0 N/A

N/A N/A

N/A N/A

N/A TX 0000a CLARK C 651 4212333993 N/A

TX 0000a ClARK C 7H

CIARK C 88 4212334021

4212334022 2/15/1611:00

2/15/1611:00 2/15/1612:00

2/15/1612:00 N/A

N/A 2/18/1616:00

2/18/1616:00 77.00

77.00 76.00

76.00 Sales

SalesA o

0 o

0 N/A

N N/A

N/n. N/A

WA TX 0000a

1X 0000a FISHER C SH 4212.3342_36 3/20/179:00 1/26/1710:00 N/A 1/26/170:00 135.00 134.00 Sales 0 0

- N/A N/A N/A

TX 0000a FISHER C 651 4212334235 1/23/177:00 1/28/170:00 N/A 1/23/170:00 41.00 .72.00 Sales o 0 N/A N/A N/A

TX 0000. GWOSOZ A

- MIGURA A SA 1H 4212334150 1/12/1715:00 1/17/1716:00 N/A 3/3/1712:00 1197.00 1196.00 Sales 0 0 N/A N/A N/A

TX 0000a GWOSDZ A 10H 4212334142

4212334143 1/12/1715:00

1/12/1715:00 1/12/1715:00 N/A

N/A 2/28/1718:00

3/1/176:00 1131.00

1143.00 1131.00

1142.00 Sales

Sales 0

0 0

0 N/A

N/A N/A

N/A N/A

N/A TX 0000. GWOSDZ A 1211 1/17/1716.00

TX 0000. GWOSDZ A 12H 4212334273 1/12/1710:00 1/1211712:00 N/A 3/6/1712:00 1274.00 1272.00 Sales o 0 N/A N/A N/A

TX 0000a GWOSDZ A 13H 4212334274

4212334275

4212334028 1/12/1710:00

1/12/17 1E00

1/5/1718:00 5/12/1714:00

1/12/17 1100

1/5/17 19:00 N/A

N/A

,.. N/A 3(5/1716:00

3/6/17 32:00

1/15/170:00 1254.00

1273.00

222.00 1250.00 Sales

Sales

Sales 0

0

o 0

0 N/A

N/A N/A

N/A N/A

N/A

N/A TX 0000. GWOSDZ A 1451 1273.00

221.00 TX 0000a GWOSDZ A 2H 0 N/A N/A

TX 0000a GWOSDZ A 3H 4212334025 1/5/1715:00 1/5/17 16:00 N/A 1/16/17 17:00 266.00 265.00 Sales 0 0 N/A N/A N/A

TX 0000. GWO5D2 A 4H 4212334026

4212334027 1/12/1717:00

1/12/17 11:00 1/12/3717:00

1/17/1712:00 N/A

N/A 2/9/176:00

2/28/1716:00 661.00

1133.00 661.00

1132.00 Sales

Sales 0

0 0 N/A N/A N/A

N/A TX 0000. GWOSDZ A SH 0 N/A N/A

TX 0000. GWOSDZ A 6H 4212334029 1/12/17 11:00

1/17/1711:00

1/12/1711:00

1/12/1711:00 1/12/17 12:00

1/12/17 12:00

1/12/1720:00

1/12/17 13:00 N/A

N/A

N/A

N/A 3/5/17 16:00

3/6/17 12:00

3/6/1712:00

3/6/1712:00 1253.00

1273.00

1273.00

1273.00 1252.00

1272.00

1264.00 Sales

Sales

Sales

Sales 0

0

0

o 0

0

0

o N/A N/A

N/A

N/A

N/A N/A

N/A

N/A

N/A TX 00003 GWOSDZ A 751

GWOSDZ A 8H 4212334035

4212334034

4212334031 N/A

N/A

N/A TX 0000a

TX 0000a GWOSDZ A 951 1271.00

TX 0000a H SISTERS A 411 4212334276 7/12/170:00 7/12/170:00 N/A 7/24/17 17:00 300.00 300.00 Sales 0 0 N/A N/A N/A

TX 0000. H SISTERS ASH 4212334289 7/12/17000 7/17/170:00 N/A 7/24/17 12:00 300.00 300.00 Sales o 0 N/A N/A N/A

TX 0000. H SISTERS A 6H 4212334278

4212334277 7/121170:00 7/12/170:00

7/17/170:00 N/A

N/A 7/24/1712:00

7/24/1712:00 300.00

300.00 300.00

300.00 Sales 0 0 N/A N/A N/A

N/A TX 0000a H SISTERS A 7H 7/12/170:00 Sales 0 o N/A N/A

TX 00000 H SISTERS A 851 4212334287 7/121170:00

7/12/170:00 7/12/170:00

7/12/170:00 N/A

N/A 7/24/1712:00

8/18/17 6:00 300.00

894.00 300.00

894.00 Sales

Sales 0

0 0 N/A N/A

N/A N/A

N/A TX 0000a H SISTERS B 10H 4212334284 o N/A

'IX 0000a II SISTERS B 11H 4212334286 7/12/170:00 7/12/170:00 N/A 8/4/1716:00 568.00 568.00 Sales 0 0 N/A N/A N/A

TX 0000. H SISTERS B 12H 4212334288 7/17/170:00 7/12/170:00 N/A 8/4/1716:00 568.00 568.00 Sales 0 0 N/A N/A N/A

TX 0000. H SISTERS B 4H 4212334279 7/12/170:00 7/12/170:00 N/A 8/4/1716:00 568.00 568.00 Sales 0 0 N/A N/A N/A

TX 0000a H SISTERS B SH 4212334281

4212334282

4212334280 7/12/170:00

7/12/170:00

7/17/170:00 7/12/170:00

7/12/170:00

7/12/170:00 N/A

N/A

N/A 8/4/17 16:00

8/4/1716:00

8/4/1716:00 568.00

568.00

568.00 568.00

5613.00

568.00 Sales

Sales

Sales o 0

0

0 N/A N/A

N/A

N/A N/A

N/A

N/A TX 0000a H SISTERS 6 644 o N/A

N/A TX 0000. H SISTERS 13 7H 0

1X 0000. H SISTERS B SH 4212334283

4212334285 7/12/170:00

7/12/170:00 7/17/170:00

7/12/170:00 N/A

N/A 8/4/1716:00

8/18/17 6:00 568.00

894.00 561100

894.00 Sales

Sales 0

o 0

o N/A

N/A N/A

N/A N/A

N/A TX 0000a H SISTERS 0911

TX 0000. HARTMAN A 10H 4212333893 17/7/1510:00 17/7/1512:00 N/A 1/3/1612:00 770.00 768.00 Sales 0 0 N/A N/A N/A

TX 0000a HARTMAN A 11H 4212333894

4212333895 12/2/1511:00

12/7/1511:00

12/2/15 13:00

11/10/15 10:00

11/10/15 10:00 12/2/1513:00

12/7/1513:00

17/2/1514:00

11/10/15 13:00

11/10/15 13:00 N/A

N/A

N/A

N/A

N/A 12/14/15 1200

12/14/1512:00

1/0/1612:03

11/18/15 0:00

11/18/150:00 289.00

289.00

767.00

182.00

182.00 287.00

287.00

766.00

179.00

179.00 Sales

Sales

Sales

Sales

Sales o

0

o

0

0 o

o

0

0

0 N/A

N/A

N/A N/A

N/A

N/A

N/A

N/A N/A

TX 0000. HARTMAN A 12H N/A

N/A

N/A

N/A TX 0000a HARTMAN A 13H 4212333896

4212333881 TX 0000a HARTMAN A 251 N/A

N/A TX 0000. HARTMAN A 3H 4212333880

TX 0000a HARTMAN ASH 4212333886 11/23/15 12:00 11/23/15 13:00 N/A 12/13/1517:00 485.00 484.00 Sales 0 0 N/A N/A N/A

TX 0000. HARTMAN A 751 4212333880 11/23/15 11:00 11/23/15 12:00 N/A 12/13/15 17:00 486.00 485.00 Sales o 0 N/A N/A N/A

TX 0000a HARTMAN A 911 4212333891

4212334241

4212334240 12/2/15 10:00

12/12/16 15:00

12/12/1616:00 12/2/15 12:00

12/12/1616:00

12/12/1617:00 N/A

N/A

N/A 1/3/16 12:00

12/19/16 9:00 770.00

162.00 768.00

161.00 Sales

Sales

Sales 0

0

0 0 N/A

N/A

N/A N/A

N/A

N/A N/A

N/A

N/A TX 0000a HYATT A 1051 o

0 TX 0000. HYATT A 1151 12/19/16 9:00 161.00 160.00

NSPS 0000 and 00003 Annual Report

Devon Energy

333 West Sheridan Avenue

Oklahoma City, OK 73102

Reporting Period: NSPS 0000 October 15, 2016 -October 14,2017 and NSPS 0000a September 18, 2015 -August 2,2017

Texas

Table 7- Hydraulically Fractured Well Flowback Data 3,7

STATE 0000/

00004 WELLNAME US WELL ID LATITUDE LONGITUDE

(NAD 83 MAD 83 ONSET OF FLOWBACK DATE/TIME DIRECTED TO

SEPARATOR DATE/TIME

RETURNING TO INITIAL

FlOWBACK STAGE DATE/TIME FLOWBACK EQUIPMENT

DISCONNECTED/STARTUP OF

PRODUCTION DURATION OF

FLOWBACK (hrs) DURATION OF

RECOVERY TO

FLOWUNE (hrs) DISPOSMON OF

RECOVERY DURATION OF

,

COMBUSTION Bed DURATION OF

VENTING DIM REASON FOR

VENTING WILDCAT OR

DEUNEATION WELL DEVIATIONS

Ile ladt of flovAmck controls)

,

TX 0000a HYATT A 6H 4212334012

4212334013 11/7/16 10:00

11/7/16 10:00 11/7/16 10:00 N/A

N/A 11/11/16 16:00 102.00 102.00 Sales0 0 N/A N/A N/A

.

.. TX 0000a HYATT A 7H 11/7/16 10:00 11/11/16 16:00 102.00 102.00 Sales0 0 N/A N/A N/A

TX 00003 HYATT A BH 4212334037 11/7/1611:00

12/12/161S:00 11/7/16 11:00

12/12/1616:00 N/A

- 11/11/16 16:00 101.00 101.00 Sales 0 0 N/A N/A N/A

TX 0000a HYATT A 9H 4212334242 N/A 12/19/169:00 162.00 161.00 Sales0 0 N/A N/A N/A

TX 00001 IBROM A 1011 4212333828

4212333741 9/22/15 12:00

9/22/15 12:00

9/22/15 12:00

1/20/17 9:00 9/22/15 12:00

9/22/15 13:00

9/22/15 13:00 N/A 9/28/1510:00 142.00 142.00 Sales 0 .

0 N/A N/A N/A

TX 0000a IBROM A 8H N/A

N/A 9/28/15 10:00 142.00 141.00 Sales 0 0 N/A N/A N/A

TX 0000a !BROM A 911 4212333827

4212334237 9/28/15 1900 142.00 141.00 Sales0 0 N/A N/A N/A

TX 0000a !BROM B 611 1/20/1713:00 N/A 1/25/17 0:00 111.03 107.00 Sales0 o N/A N/A N/A

.

TX 0000a !BROM B 7H 4212333822

4212333823 9/22/15 12:00

9/22/15 12:00 9/22/15 13:00 N/A 9/28/15 10:00 142.00 141.00 Saleso o N/A N/A N/A

Tx 0000a !BROM a 8H 9/22/15 13:00 N/A 9/28/15 10:00 142.00 141.00 Sales0 o N/A N/A N/A

TX 0000a !BROM 8 911 4212333810

4212334110 9/22/15 12:00

9/20/169:00

11/16/1615:00

11/16/1615:00

10/17/16 14:00

10/17/1614:00

9/20/169:00

6/27/16 14:00 9/22/15 12:011

9/20/16 9:00 N/A

N/A

N/A

N/A

N/A 9/28/1510.00 142.00 142.00 Sales 0 0 N/A N/A N/A

TX 0000a KRAUSE A - KRAUSE C SH 511 10/14/16 9:00 576.00 576.00 Sales 0 0 N/A N/A N/A

TX 0000a KRAUSE A - KRAUSE C SA IH 4212334132 11/16/1617:00

11/18/1617:00

10/17/1615:00

10/17/1625:00 12/6/166:00

- 471.00 469.00 Sales0 -

0 N/A N/A N/A

.

TX 0000a KRAUSE A

- KRAUSE C SA 2H 4212334130 12/6/166:00

- 471.00 469.00 Sales 0 0 N/A N/A - N/A

TX 0000a KRAUSE A- KRAUSE C SA 311 4212334131 11/S/16 14:00 456.00 455.00 Sales 0 0 N/A N/A N/A

TX 0000a KRAUSE A

- KRAUSE C SA 4H 4212334133 N/A 1115/1614:00

- 456.00 455.00 Sales0 0 N/A N/A N/A

IX 0000a KRAUSE A 1211 4212334099

4212334100 9/20/169:00 N/A 10/14/169:00 576.00 576.00 Sales0 0 N/A N/A N/A

TX 00001 KRAUSE A 13H 6/27/1615:00 N/A

N/A

N/A

N/A

N/A 7/4/160:00 154.00 153.00 Sales o 0 N/A N/A N/A

TX 0000a KRAUSE A 1411 4212334101

4212334172 3/8/16 14:00

12/5/1614:00

1215/1614:00

12/5/16 14:00

12/5/16 12:00 3/8/1615:00

12/5/1615:00 7/1/1616:00 2762.00 2761.00 Sales 0 0 N/A N/A N/A

TX 0000a KRAUSE B UN 12/11/1614:00

12/10/1614:00 - 144.00

_ 120.00 143.00

119.00 Sales

Sales 0

0 0

o N/A

N/A N/A

N/A N/A

N/A TX 00003 KRAUSE B I2H

KRAUSE B I3H 4212334173

4212334174 12/1/1615.00

TX 0000a 12/5/16 15:00 12/10/1614:00

12/13/1614:00 120.00

194.00 119.00

193.00 Sales

Sales 0

0 0

0 N/A

N/A N/A

N/A N/A

N/A TX 0000a KRAUSE B 14H 4212334175 12/5/1613:00 N/A

TX

TX 0000a

0000a KRAUSE B 811

KRAUSE C 10H 4212334032 12/5/16 14:00

6/27/1614:00

6/21/1612:00

8/21/1612:00

6/21/1612:00

3/8/1614:00 12/5/16 15:00

6/27/1615:00

8/21/1612:00

6/21/16 13:00 N/A

N/A

N/A

N/A

N/A

N/A 6/16/17 16:00

7/4/160:00

7/4/160:00 4634.00

154.00

300.00 4633.00 Sales 0 o N/A N/A N/A

4212334097

4212334096

4212334095

4212334094

4212334093 153.00 Sales0 o N/A N/A N/A

TX 0000a KRAUSE C IIH 300.00 Sales 0 o N/A N/A N/A

TX 0000a KRAUSE C 1211 7/1/160:60 228.00 227.00 Sales0 o N/A N/A N/A

TX 00003 KRAUSE C 2H 6/21/1613:00 7/1/160:00

7/9/160:00 228.00

2938.00 227.00

2937.00 Sales0

Saleso o

o N/A

N/A N/A

N/A N/A

N/A TX 0000a KRAUSE C 3H 3/8/1615:00

TX 00004 KRAUSE C 9H 4212334098

4212334148

421/3341.15 9/20J169:00

1/12/1715:00

1/3/17 11.00

1/5/17 11:00

1/8/16 10:00

1/8/16 1000

1/8/1610:00

1/8/1610:00 9/20/169:00

1/12/17 16:00

1/5/17 12.00

1/5/17 12:00

1/8/16 12:00

1/8/1612:00 N/A

N/A

N/A

N/A

N/A

N/A 10/14/169:00 576.00 576.00 Sales 0 o N/A N/A N/A

TX 0000a MIGURA A 1011 2/14/17 12:00 789.00 788.00 Sales 0 0 N/A N/A N/A

TX 0000a M1GURA A 7H 2/9/17 3:00 832.00 832.00 Sales0 o N/A N/A N/A

TX 0000a MIGURA ASH 4212334139 2/9/17 3:00 832.00 831.00 Sales0 0 N/A N/A N/A

TX 0000a OUVER C 211 4212334042 1/16/1618:00

1/16/1618:00 200.00 198.00 Sales0 0 N/A N/A N/A

TX 0000a OUVER C 311 4212334E143

4212334044

4212334045 200.00 198.00 Sales0 o N/A N/A N/A

TX 00003 OUVER C 4H

OLIVER C 5H 1/8/1612:60

1/8/16 12:00 N/A 1/16/1618:60

1/16/1618:60 200.00 198.00 Sales 0 0 N/A N/A N/A

TX 0000a N/A 200.00 198.00 Sales 0 0 N/A N/A N/A

TX 00005 OLIVER D 2H 4212334040

4212334000 1/8/1610:00

1/12/16 11:00 1/8/1612:00

1/12/1611:04) N/A 1/16/1618.00 200.00 198.00 Sales0 o N/A N/A N/A

TX 0000a OLIVER 0311 N/A 1/18/16 15:00 148.00 148.00 Sales 0 0 N/A N/A N/A

TX

TX 0000a

0000a OLIVER D 411

OLIVER D 511

OLIVER D 7H 4212334001

4212334002

4212334017 1/12/1611:00

1/12/1611:00

2/15/16 11:00 1/32/1511:00

1/12/1611:00 N/A 1/18/1615:00 148.00 148.00 Sales0 0 N/A N/A N/A

N/A

N/A 1/18/1615:00

2/18/16 16:00 148.00

77.00 148.00 Sales 9 0 N/A N/A N/A

TX 0000a 2/15/1612:00 76.00 Sales 0 0 N/A N/A N/A

TX 0000a OLIVER DISH

OLIVER D-HANSEN B SA 111

RAVES 8- GEFFERT A SA IH 4212334020

4212334036

4212334170

4212334023

4212334014 2/15/1611:00

2/15/16 11:00

1/4/17 16:00

1/5/17 15:00

12/1/1515:00 2/15/1612:00 N/A 2/18/1616:00

2/18/1616:00

1/15/17 0:00 77.00

7790

248.00 76.00

76.00

248.00 Sales

Sales

Salts 0

0

0 o

o

0 N/A

N/A

N/A N/A

N/A

N/A N/A

N/A

N/A TX 00001 2/15/16 12:00

1/4/17 16:00

1/5/1716:00

12/1/15 16:00 N/A

TX 0000a N/A

TX 00005 RATES 6- GWOSD2 A 56 111 N/A 1/15/17 0:00 225.00 224.00 Sales 0 0 N/A N/A N/A

TX 00003 RATES 82K

_ N/A 12/9/15 10:00 187.00 186.00 Sales 0 0 N/A N/A N/A

TX 00003 RATES B 3H 4212334015

4212334016 12/5/1650:00

12/5/1610:00 12/5/16 17:00

12/5/1612:00 N/A 12/221166:00 404.00 397.00 Sales 0 0 N/A N/A N/A

TX 0000a RATES B 4H N/A 12/12/16 13:00 171.00 169.00 Sales 0 0 N/A N/A N/A

TX 0000a RATES B SH 4212334038 12/5/1610:00

1/10/1712:00

1/10/17 12:00

1/10/17 12:00 12/5/1611:00

1/10/1712:00 N/A 12/22/163:00 401.00 400.00 Sales 0 0 N/A N/A N/A

TX 0000a STEEN A 1011 4212334248 N/A

N/A 1/17/17 15:00 171.00 171.00 Sales0 o N/A N/A N/A

TX 0000a STEEN ASH 4212334243 1/10/1712:00

1/10/1712:00 2/22/179:00 1029.00 1029.00 Sales 0 0 N/A N/A N/A

TX 0000a STEEN A 68 4212334244 N/A 1/28/17 10:00 430_00 430.00 Sales 0 0 N/A N/A N/A

TX 00005 STEEN A 7H 4212334245

4212334246

4212334247 1/10/17 12:00

1/10/17 12:00

1/16/1712:00

12/5/1612:00

12/5/1612:00

12/5/1612:00

12/5/1612:00

11/16/1615:00 1/10/17 12:00 N/A 1/28/17 10:00 430.00 430.00 Sales 0 0 N/A N/A N/A

TX 0000a STEEN ASH 1110/1712:00

1/10/1712:00

12/5/1612:00 N/A 1/17/17 15:00 171.00 17190 Sales0 0 N/A N/A N/A

TX 0000a STEEN A 911 N/A 1/17/17 15:00 171.00 171.00 Sales 0 0 N/A N/A N/A

TX 0000a STRENK A 10H 4212334144

4212334145

4212334146

4212334147

4212334128 N/A 12/11/160:00 132.00 132.00 Sales 0 o N/A N/A N/A

TX 00003 STRENK A 1111 12/5/16 11:00

12/5/1614:00

12/5/16 13:00

11/16/1617:00

- N/Ts

- FT/A 12/33/1614:60 194.00 193.00 Sales 0 o N A N/A N/A

TX 0000a STRENK A 12H 12/13/1614:00

22/11/16 15:00 194.00

147.00 192.00

146.00 Saleso

Sales 0 0

o N/A

N/A N/A

N/A N/A

N/A TX 0000a STRENK A 1411 N/A

TX 0000a STRENK A 211 N/A 12/6/266:00 471.00 469.00 Sales0 o N/A N/A N/A

TX 0000a STRENK A 4H 4212334129 11/16/1615:00

12/5/16 11:00

12/5/1611:00

12/5/1611:00

12/5/1611:00 11/16/1617:00

12/5/1612:00

12/5/1612:00

12/5/1612:00

12/5/1612:00 N/A 12/6/167:00 472.00 470.00 Sales 0 o N/A N/A N/A

TX 0000a STRENK ASH 4212334102 N/A

N/A

N/A 12/12/16 12:00 169.00 168.00 Sales0 o N/A N/A N/A

TX 0000a STRENK ASH 4212334103

4212334104

4212334105 12/12/16 12:00 169.00 168.00 Sales 0 0 N/A N/A N/A

TX 0000a STRENK A 7H 12/26/1616:60

12/1.3/1614:00 509.00 508.00 Sales 0 0 N/A N/A N/A

TX 0000a STRENK ASK N/A 195.00 194.00 Sales 0 o N/A N/A N/A

TX 0000a WAGNER B 1111 4212333923

4212333924

4212333919

4212333069 12/8/15 9:00

12/8/159:00

12/8/15 9:00

11/13/15 13:00

12/4/15 11:00

12/4/15 11:00

12/4/15 11:00

12/4/15 11:00 12/8/15 11:00

12/8/15 11:00 N/A

- 12/29/15 13:00 508.00 506.00 Sales0 0 N/A N/A N/A

TX 0000a WAGNER El 1211 N/A 12/29/15 13:00 508.00 506.00 Sales 0 o N/A N/A N/A

TX 0000a WAGNER El 2ii 12/8/1511:00

- N/A 12/29/1513:00 508.00 506.00 Sales 0 o N/A N/A N/A

TX 0000a WAGNER 8 311 11/13/15 14:00

12/4/151100

12/4/15 11:00

12/4/15 11:00

12/4/1111:00 N/A 11/16/15 9:00 68.00 67.00 Sales 0 o N/A N/A N/A

TX 0000a WAGNER B 6H

WAGNER 8 7H 4212333926

4212333921

4212333928

4212333925 N/A

N/A 12/14/1514:00 243.00 243.00 Sales 0 0 N/A N/A N/A

TX 0000a 12/14/15 14:00 243.00 243.00 Sales 0 0 N/A N/A N/A

TX 00004 WAGNER 6 811 N/A 12/14/1514:00 243_00 243.00 Sales 0 0 N/A N/A 19/A

TX 0000a WAGNER B 9H N/A

- 12/14/1514:00 243.00 243.00 Sales 0 0 N/A N/A N/A

TX 0000a WARREN A 10H 4212333931

4212333936 10/13/15 13:00

10/13/15 13:00 10/13/15 14:00

10/13/15 14:00 N/A 10/20/15 6:00 161.00 160.00 Sales 0 0 N/A N/A N/A

TX 0000a WARREN A 111.1 N/A 10/20/15 6:00 161.00 160.00 Sales 0 0 N/A N/A 19/A

NIPS 0000 and 0000a Annual Report

Devon Energy

333 West Sheridan Avenue

Oklahoma City, OK 73102

Reporting Period: MPS 0000 October 15, 2016 -October 14, 2017 and NSPS 0000a September 18, 2015 -August 2, 2017

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Table 3- Hydraulically Fractured Well Flowback Data

STATE 0000/

00002 WELL NAME LATITUDE

US WELL ID LONGITUDE

• • • , ONSET OF FLOWBACK DATE/TIME DIRECTED TO

SEPARATOR DATE/TIME

RETURNING TO INITIAL

FLOWBACK STAGE DATE/TIME FLOWBACK EQUIPMENT

DISCONNECTED/STARTUP OF

PRODUCTION DURATION OF

FLOWBACK (in) DURATION OF

RECOVERY TO

FLOWUNE (hr) DISPOSITION OF

RECOVERY DURATION Of

COMBUSTION (hN) DURATION OF

VENTING (bra) REASON FOR

VENTING WILDCAT OR

DELINEATION WELL DEVIATIONS

(Le lock of Imbed(controls)

TX 0000a WARREN A 12H 4212333937

4212333957

4212333956 (b (51

4212333932

4212333933

4212333934

4212333935

4212333929

4212333930

4212333866

4212333867

4212333862 10/ 3/15 13:00 10/13/15 14:00 N/A 10/20/15 6:00 161.00 160.00 Sales 0 0 N/A N/A N/A

TX 0000a WARREN A 2H 9/24/15 16:00

9/24/15 16:00 9/24/15 16:00

9/24/1516:00 N/A

N/A 10/1115 14:00

10/1/15 14:00 166.00

166.00 166.00

166.00 Saks 0 0 N/A N/A N/A

TX 0000a WARREN A 3H Sales 0 0 N/A N/A N/A

TX 0000. WARREN A 4H 10/21/159:00 10/21/1513:00

10/21/15 1300

10/21/15 13:00

10/21/15 13:00

10/13/15 14:00

10/13/15 14:00

9/24/15 16:00

9/24/15 16:00

9/22/1515:00 N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A 10/27/150:00

10/27/15 0:00

10/27/15 0:00 135.00

134.00

135.00 131.00 Sales 0 0 N/A N/A N/A

TX 0000a WARREN A 511

WARREN A 611 10/21/15 10:00 131.00

131.00 Sales

Sales 0

0 0

0 N/A

N/A N/A N/A

N/A TX 0000. 10/21/15 9:00

10/21/15 9:00

10/13/15 13.00

10/13/15 13:00

9/24/15 16:00

9(24/1516:00

9/22/15 1500 N/A

TX 0000a WARREN A 711 10/27/15 0:00

10/20/15 6:00 135.03 131.00 Saks 0 0 N/A N/A N/A

'TX 0000a WARREN A 8H 161.00 160.00 Saks 0 0 N/A N/A N/A

'TX 0000. WARREN A 9H 10/20/15 6:00 161.00 160.00 Sales 0 0 N/A N/A N/A

TX 0000a WARREN B 2H 10/1/15 14:00

10/1/15 14:00

9/29/157:00 166.00

166.00

160.00 166.00 Saks o 0 N/A N/A N/A

TX 0000. WARREN 8 3H 166.00 Saks o o N/A N/A N/A

TX 0000. WARREN 651-I 160.00 Saks o 0 N/A N/A N/A

TX 0000. WARREN 8 611 4212333863 9/22/1515:00 9/22/15 15:00 N/A 9/29/15 7:00 160.00 160.00 Sales 0 0 N/A N/A N/A

TX 0000. WARREN B 711 4212333864

4212333865 I9/22/15 4212334260 4212334261 4212334262 I 4212334263 4212334264 9/22/15 15:00 1500 1/31/17 15:00 1/31/1715:00 1/31/17 15:00 1/31/17 15:00 1/31/1715:00 9/22/15 15:00 9/22/15 15:00 1/31/1716:00 1/3 1716:00 1715:00 1/31/17 20:00 1/31/1715:00 N/A N/A N/A N/A N A N/A N/A 9/29/157:00 9/29/157:00 160.00 160.00 Saks o 0 A N A N A 'TX 0000a WARREN 8 814 160.00 73.00 73.00 160.00 72.00 72.00 Saks Sales 0 0 0 0 N/ N/ N/A N/A N/A N/A TX 0000. WEIKEL A 2H 2/3/1716:00 2/3 1716:00 17EFEIEMMMIIICIMIIIIMIEE=I TX 0000. VVEIKEL A 3H Sales 0 0 NA N/A N/A TX 0000. WEIKEL A 4H 0 iin: TX 0000a WEIKEL A Sli 2/3/1716:00 73.00 6800 Sales o o N/A N/A N/A TX 0000a WEIKEL A 614 2/3/1716:00 73.00 73.00 Sales 0 0 N/A N/A N/A TX 0000. WEIKEL A 711 4212334265 1/31/17 15:00 1/31/17 15:00 N/A 2/3/17 16:00 73.00 73.00 Sales 0 0 N/A N/A N/A TX 0000a WEIKEL A 814 4212334266 4212334269 4212334268 4212334267 4212334270 4212334030 1/31/17 15:00 1/31/1715:00 1/31/17 15:00 1/31/17 15:00 1/31/17 15:00 2/15/1611:00 1/31/17 15:00 1/31/17 15.00 1/31/1715:00 1/31/17 15 00 1/31/17 15:00 2/15/1612:00 N/A N/A N/A N/A N/A N/A 2/3/17 1600 2/3/17 16:00 2/3/1716:00 2/3/17 16:00 2/3/17 16:00 2/18/16 16 00 73.00 73.00 73.00 73.00 Sales Sales 0 0 WA N/A N/A TX 0000. WWEIFODlil 0 0 N/A N/A N/A TX 0000. WW8F0D 2H 73.00 73.00 73.00 73.00 73.00 73.00 Sales 0 0 N/A N/A N/A TX 0000.

VVW8F0D 3H Sales 0 0 N/A N/A N/A TX 0000. WW8F0D SA 1.11 Sales 0 0 N/A N/A N/A IX 0000a ZGABAY A 7H 77.00 76.00 Sales 0 0 N/A N/A N/A

MPS 0000 and 0000a Annual Report

Devor Energy

333 West S(eridan Avenue

Oklahoma City, OK 73102

Reporting Period: NSPS 0000 October 15,2016 -October 14, 2017 and NSPS 0000a September 18, 2015 August 1,2017

Tem

Table 8- Pnuematic Pumps

STATE 0000/

0000a FACILITY NAME LATITUDE

(NAD 83) LONGITUDE

(NAD 83) CONDITION MET BY PNEUMATIC PUMP: EMISSION REDUCTION

%

(If less than 95%) DEVIATIONS

TX 0000a Ibrom A Pad 3 Emissions are routed to a control device or process. N/A N/A

TX 0000a Warren B Pad 1 (I LI

L I (b) Emissions are routed to a control device or process. N/A N/A TX 0000a Warren B Pad 2 Emissions are routed to a control device or process. N/A N/A TX 0000a Warren Al;131_ Emissions are routed to a control device or process. N/A N/A TX 0000a Cantu A Pad 5 Emissions are routed to a control device or process. Emissions are routed to a control device or process. N/A N/A TX 0000a Warren A Pad 3 N/A N/A TX 0000a Warren A Pad 2 Cantu A Pad 3 Emissions are routed to a control device or process. N/A N/A TX 0000a Emissions are routed to a control device or process. N/A N/A TX 0000a Cantu A Pad 4 Emissions are routed to a control device or process. N/A N/A TX 0000a Hartman A Pad 2 Wagner B Pad 3 Reyes B Pad 2 Emissions are routed toe control device or process. N/A N/A TX 0000a Emissions are routed toe control device or process. N/A N/A TX 0000a Emissions are routed toe control device or process. N/A N/A TX 0000a Clark A Pad 3 Emissions are routed toe control device or process. N/A N/A Tx 0000a Clark A Pad 2 Emissions are routed toe control device or process. N/A N/A TX 0000a Wagner B Pad 2 Emissions are routed to a control device or process. N/A N/A Tx 0000a Clark B Pad 3 Emissions are routed to a control device or process. N/A N/A TX 0000a Clark C Pad 3 Emissions are routed to a control device or process. N/A N/A TX ' 0000a Clark C Pad 4 Emissions are routed toe control device or process. N/A N/A Tx 0000a Oliver D Pad 2 Emissions are routed toe control device or process. N/A N/A TX 0000a Krause C Pad 2/3 Emissions are routed to a control device or process. N/A N/A TX 0000a Gwosdz A Pad 2 Emissions are routed toe control device or process. N/A N/A TX 0000a Weikel A Pad 2 Emissions are routed to a control devise or process. N/A N/A TX 0000a Migura A Pad 3 Emissions are routed to a control device or process. N/A N/A TX 0000a Strenk A Pad 2 Emissions are routed to a control device or process. N/A N/A TX 0000a Kruase A Pad 4 Emissions are routed toe control device or process. N/A N/A TX 0000a Kruase B Pad 4 Emissions are routed to a control device or process. N/A N/A TX 0000a Kruase B Pad 2 Emissions are routed to a control device or process. N/A N/A TX 0000a Hyatt A Pad 1E Emissions are routed to a control device or process. N/A N/A TX 0000a Cantu B Pad 2 Emissions are routed toe control device or process. N/A N/A TX 0000a Ibrom B Pad 1 Emissions are routed to a control device or process. N/A N/A TX 0000a Gwosdz A Pad 5 Emissions are routed to a control device or process. N/A N/A TX 0000a Gwosdz A Pad 4 Emissions are routed toe control device or process. N/A N/A TX 0000a Steen A Pad 3 Emissions are routed to a control device or process. N/A N/A TX 0000a Wagner A Pad 4E Emissions are routed to a control device or process. N/A N/A TX 0000a H Sisters A Pad 2 Emissions are routed to a control device or process. N/A _ N/A

t.

devon

Appendix C: Midland

Devon is including the following information:

• Table 9 - LDAR Survey Data

• Table 10- Hydraulically Fractured Well Flowback Data

• Table 11 - Storage Tanks

Devon did not have NSPS 0000 and/or NSPS 0000a applicable Pneumatic Controller, Pneumatic Pump,

Centrifugal Compressor or Reciprocating Compressor affected facilities during these reporting periods.

Therefore, tables for these equipment types are not provided.

In accordance with Title 40 §60.5360 and §60.530a I, Hat55.(e.,. Kyle

Massie Manager of Operations Manager (Responsible Official) certify based on information and belief

formed after reasonable inquiry, the statements and information in the attached NSPS 0000 document

are true, accurate, and complete.

Sincerely,

Massie

Operations Manager

(405) 552-8034

N5PS 0000e Annual Res:fon

Devon Energy

333 West Sheridan Avenue

OkWhore. Chty, OK 73102

Reporting Period: NIPS 00006 Sepamber 18, 20ls-Augue 2,2017

Tam

Table 9-SOAR Survey Data

SURVEY ID INSPECITON TYPE FACILITY NAME WELL UST I

iLATITUDE

1i RADON) LONGITUDE

(540113) START OATE FINISH DATE PERFORMED BY TR4IMN6/E1I0ERIENCf AMOIENTTIMPERATURE SKY CONDMON I

MAXIMUM WIND MONITORING

SPEED INSTRUMENT USED DEVIATION SURVEY OUTCOME COMPONENT r

COUNT COMPONENTIS1WIT11

FUGMVES DETECTED ''' REPAIR ME11400 ' SUCESSF tit

REPAIR DATE Continent,

Or

MUNSON TRUST 9 TH • 4230132230, BRUNSON TRUST 9050 1:01) (9,.._, Received IN Camera Operatians& I Divested on 003020.129137 SOAR BRUNSON TRUST 9 [TB 4210132713 a,' 11/11 :um, 4,,1/It 11-16 7 unctidnall Train, on 3/21/2017 SR Overcast ; i It, I-omn ra Nin Isn Recalrlinputed NrA N!A N/A N/A 011/01/2017 RSCHBURG UNIT 20- 4231931066, SCHWALM SONOMA STATE 120 Received IA Carrera Operations& OS0020,129216 LDAR RICHBURG UNIT 2I3

BATTERY 10- 4231193S1111 L,77/1, In in Functionnity Training on 3/21/2012 61I Overcoat 9 Iii r -a me ra NIA ri,i Renoir Renoraci N/A NIA N/A N/A There were no futpum emissions minponents that were not repaired as required In 160.539701 during the repeating penal. There were no difficult or umarefo•monitor fugitive emission mrnponents monitored dirrIng the tepOrting AMPS There were no fugitive emissions components plated on delayed relate dreg the repenting perind, There were no lugStive emissions components that could not be repaired during TINe iNtlal NO*o enesPont finding

NIPS 0000 sod 3000a 6,porl

Dora /saws

SD Waft S.M. hveneso

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STAII 0000a MILIME La WM I a. (('00 10/ 10.000/ 0700700007.00400 00000010? crlmt PRODUCII. ninnuat117001._ 190W07110 07M 1¢020107 00401.1511011 Inn) 0.017144 (000/ 0I0090101 01PU1001100 WO! DA Put al Osatootemana. C0•111.11104

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',UN., t_90 b 100117 100 VS , ,,,,, ,,,,,t; .._ L.11/9 , 001 al 110,111. 411,, NA SA Voselia roads Is, nds.teal Initts.1110er PEC.d• anarallabls .....0.1 fro avid/ 00017001..7.W1 IL Abasteimad In 40010001...7,, One. gnewp0 ( ) (

11 COW. WM" Inut .000110 0/10/11910 0114017000 7.,,,, 1/7.1/00000 4.01410 01/ 00 r.q..•/.., 417.e0 000 II/4 N. 07404.4 ke PIK.sto

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NSPS 0000 and 0000a Annual Report

Devon Energy

333 West Sheridan Avenue

Oklahoma City, OK 73102

Reporting Period: NSPS 0000 October 15,2016 -October 10, 2017 and NSPS 0000a September 18, 2015 -August 2,2017

Texas

Table 11- S:orage Vessels

STATE 0000/

0000a FACILITY NAME LATITUDE

(NAD 83) LONGITUDE

(NAD 83) CONTROL TYPE ' REMOVED

FROM

SERVICE REMOVAL

DATE RESUMED

SERVICE DATE SERVICE

RESUMED DEVIATIONS

Comments

TX 0000 WULFJEN BATTERY B Combustor N/A N/A N/A N/A N/A Sold prior to October 1$, 2016

TX 0000 UNIVERSITY 47-23 BAT A Combustor N/A N/A N/A N/A N/A Sold prior to October 15, 2016

TX 0000 HARRIS RANCH BB 2-8 Battery A Combustor N/A N/A N/A N/A N/A Sold prior to October 15, 2016

Tx 0000 BK HARRIS BAT A Combustor N/A N/A N/A N/A N/A Sold prior to October 15,2016

TX 0000 CORDOBA Battery A Combustor N/A N/A N/A N/A N/A Sold prior to October 15, 2016

Tx 0000 ORELLANA BATTERY D Combustor N/A N/A N/A N/A N/A Sold prior to October 15, 2016

TX 0000 SELLERS BATTERY A Combustor N/A N/A N/A N/A N/A Sold prior to October 15, 2016

Tx 0000 UNIVERSITY 47-3 BATTERY A Combustor N/A N/A N/A N/A N/A Sold prior to October 15, 2016

1. The control device meets the requirements specified at 40 CFR §60.5410a(h)(2) and 3)

Jon KIzzee

HES Manoger

Marathon Olt Corporation

5555 Son Felipe

Houston, TX 77056

October 25, 2017

EPA Region 6

1445 Ross Avenue

Suite 1200

Dallas, TX 75202

(214) 665-6444 ' in.11

Marathon Oil

RE: Annual Report under Subpart 0000 and 0000a of the New Source Performance Standards

Dear Sir/Madam:

Marathon Oil Company (Marathon) hereby submits the annual report in accordance with:

• 40 CFR § 60.5420(b)(1) - (6) of Subpart 0000, Standards of Performance for Crude Oil and

Natural Gas Production, Transmission and Distribution for which Construction, Modification, or

Reconstruction Commenced after August 23, 2011 and on or before September 18, 2015 and

• 40 CFR § 60.5420a(b)(1) - (8) of Subpart 0000a, Standards of Performance for Crude Oil and

Natural Gas Facilities for which Construction, Modification, or Reconstruction Commenced After

September 18, 2015.

This annual report covers the compliance period beginning August 2, 2016 and ending on August 1,

2017. This report serves as the annual report for both rules and Marathon will submit only one

combined report in the future. Summarized below are the affected facilities included in this report:

NSPS 0000 NSPS 0000a Affected Facility Number of

Affected

Facilities See Details

in

_

§60.5420(b)(2) §60.5420a(b)(2) Well 174 Appendix B

§60.5420(b)(3) §60.5420a(b)(3) Centrifugal Compressor 0 --

§60.5420(b)(4) §60.5420a(b)(4) Reciprocating Compressor 129 Appendix C

§60.5420(b)(5) §60.5420a(b)(5) Controller 0 __

§60.5420(b)(6)(iv) §60.5420a(b)(6)(iv) _Pneumatic

Group 1 Storage Vessel 0 --

N/A §60.5420a(b)(7) Collection of Fugitive

Emission Components 105 Appendix

D.1 and D.2

N/A §60.5420a(b)(8) Pneumatic Pumps 0 --

Appendix A provides the certification by the Responsible Official in accordance with §60.5420(b)(1)(iv)

and §60.5420a(b)(1)(iv). As indicated in the summary table above, details of well, reciprocating

1

compressor, and collection of fugitive emission components affected facilities covered in this report are

shown in Appendices B, C, D.1 and D.2, respectively.

Wells listed in Appendix B include both Gas and Oil Well Completions as required by the rule based on

completion date. Gas well completions between August 2, 2016 and October 15, 2016 were included on

the previous 2016 NSPS Subpart 0000 report submitted by Marathon. Gas well completions after

October 15, 2016 to the end date of the NSPS Subpart 0000a reporting period of August 1,2017 are

included herein. All oil well completions from August 2, 2016 to August 1, 2017 are included in this

report.

Appendix C lists all reciprocating compressors subject to NSPS Subpart 0000 and Subpart 0000a and

seal replacements in the period from August 2, 2016 to August 1, 2017.

Appendix Di lists all affected well site collection of fugitive emission components where fugitive

emissions were observed in the period from August 2, 2016 to August 1, 2017. The number of observed

emissions by component type are listed along with the repair date of each.

Appendix D.2 lists all affected well site collection of fugitive emission components where no fugitive

emissions were observed in the period from August 2, 2016 to August 1, 2017. As such, no repair or

resurvey information is included in the appendix.

Both Appendix D.1 and D.2 lists specifically address the requirements of 40 CFR § 60.5420a(b)(7)(i-ii), (iv-

vii), and (x). The other requirements of 40 CFR § 60.5420a(b)(7) are listed below:

• § 60.5420a(b)(7)(iii) - The name of the operator performing the survey is provided in D.1 and

0.2. All operators have been trained to operate the FLIR GF series cameras at the Infrared

Training Center (ITC). The training is valid for five years and is renewed prior to expiration. In

addition to the ITC training, all operators will work under the supervision on an experienced

camera operator for a minimum of 50 hours before conducting surveys on their own.

• § 60.5420a(b)(7)(viii) -There were no fugitive emissions components that were not repaired as

required in § 60.5397a(h).

• § 60.5420a(b)(7)(ix) - Marathon has no difficult or unsafe to monitor components therefore

none were monitored.

• § 60.5420a(b)(7)(xi) - There were no components placed on delay of repair.

• § 60.5420a(b)(7)(xii) - The FLIR GF 320 was used to resurvey all components that could not be

repaired during the initial survey.

Should you have any question regarding the report, please feel free to contact Kimber Hamilton at

khamilton@marathonoil.com or (210) 877-8451.

Jon Kizzee

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Attachments: Appendix A - Certification by Responsible Official

Appendix B - Gas Well Affected Facilities

Appendix C - Reciprocating Compressor Affected Facilities

Appendix D.1 - Collection of Fugitive Emission Components Where Fugitive Emissions

Were Observed

Appendix D.2 - Collection of Fugitive Emission Components Where No Fugitive

Emissions Were Observed

Cc: TCEQ Region 13 - San Antonio, TX

TCEQ Region 14- Corpus Christi, TX

TCEQ Region 16- Laredo, TX

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Date Marathon Oil Company

NSPS Subpart 0000 and NSPS Subpart 0000a Combined Report

2017 Annual Report

Appendix A

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and

information in this report are true, accurate, and complete.

Responsible Official

Signature

Dale A. Kokoski

Regional Vice President

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8/2/164/1J1 Compliance Report

October 25, 2017 MaraMon OP EF liC

Appendix C - Reciprocating Compressor Affected FatIllties

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001 35166 11201665 West Excelsior Central Facility Eagle Ford 6.30004 Team Prior to

10AS/12 CRad 0 6 21.6 Once replacement 10/13/2015 N

CAT 35168 1E601864 West Excelsior Central Facility Eagle Ford Alamos. Tan 12/17/2012 Oud 0 7 19.7 Since replacement 12/13/2015

CAT 35166 16/00158 West Excelsior Central FaaNty Eagle Ford Atasmsa Tern FERN to

10/15/12 Oud 0 V 13.6 Since replacement 6/15/2016 N

CAT 351611 IEF01196 West Excelsior Central Facility Eagle Ford Mamma Texas 5/4/2016 Quad Oa Y 19.8 Since replacement 12/3/2015

CAT 35161 046W00170 West Excelsior Central Facility Eagle Ford Atascosa Texas 6/8/2017 Quad Oa V 1.8 Wrtiall Startup N

65(35168 36/02404 West Karnes Cmtval Fealty Eagle Ford Karnes Texas 7/17/2014 Quad 0 Y 2.0 5nm replacement 5/31/2017 N

CAT 3516B 10702515 West Karnes Central FaciRv Eagle Ford Karnes Texas 7/21/2014 12/10/2016 Wad 0 N 19,0 Initial Start* N

CAT 35169 .002536 West Karnes Central Fariity Eagle Ford Karnes Texas 7/21/2014 Quid 0 V 76 Since replamment 6/2/2017

CAT 35168 /E(02638 West Karnes Central Facility Eagle Ford Karnes Texas 8/11/2014 Coad 0 V 1.1 Since replegement 6/29/1017 N

CAT 35168 16(02653 West Karnes Central Facility Eagle Ford Karnes TeX/a 11/7/2014 Quad 0 Y 32.8 6/91.6 5126041 N

CAT 351613 16/01639 West Karnes Central Facility !Mile Ford Karnes TeXaS 12/30/2015 Quad Oa 0 19.3 Initial Startup N

CAT 3603 01700103 West Karnes Central FaoWty Eagle Ford Karnes Terms 8/17/2016 Quaid Da r 1.1.5 initial Startup N

CAT 3608 /01700118 West Karnes Central FadlIty Eagle Ford Karnes Texas 12/19/2016 Quad Oa V 7.4 Ink/4151.Mo N

CAT 351613 II701334 Wnt Sugarloaf Central Facility Eagie Ford Karnes Texas 6/27/2010 Quad 0 V 14.0 eent 6/2/2016 Since replmm 'a

CAT 351613 1E101785 West Sdgarloai Central Facility Eagle Ford Karnes Texas 3/10/2013 Quad 0 Y /1.8 Since replmemmt 8/9/2016 N

CAT 351613 1E702190 West Sugarloaf Central Facility Eagle Fcr al Karma Tn. 1/8/2014 Quad 0 6N 7.1 Since r.pl.oe.n.n112/20/2136

CAT 35168 16E01843 West Sugarloaf Central Facility ogle Ford Karnes Texas 5/8/2014 Quad 0 14.0 Since replacement 6/3/2016 N

CAT 3608 01705102 Wart Sugarloaf Central Facility Eaele Ford Karnes Texas W5/21:11,6 Quad Qa V 11.9 Initial Startup N

661 3408 304700116 West Sugarloaf Central Facility Eagle Ford Kamm Texas 2/7/2017 Quad Oa 5.8 Initial Startup N

CAT 351661 16/02656 West Sugarloaf Central Faolity agle Ford Atat<rna Texas 1123/2013 Quad 0 V 18.4 Since replacement 1/21/2016 N

CAT 3408TA 671613508.4 Wingnut Central fealty Fag', Ford Karnes Ten, Piior to

10/15/U Quad 0 0 5.0 Since recfaument 3/3/2017 N

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October 25,2017 Marathon Oil Ft 1.1.0

Appendix C - Reciprocating Cong./nor Attached Facilities

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001 35168 18003078 South Kames Central Facilely Eagle Ford Texas 4/1/2016 12304 0. V 16.0 initial Startup N

CAT 35168 1E003071 50688Karnes Central Facility Eagle Ford Marne TeXaS 5/27/2016 12404 00 V 14.2 Initial Startup N

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060 0508 1E001507 South Sugarloaf Central Facility Eagle Ford Karnes Texas Prior to

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CAT 35168 16001503 South 53001041 000061 Faolity Eagle Ford Karnes Texas Prior to

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CAT 35168 1EF01744 South Sugarloaf Central Fac2Ity agle Ford Karnes Tens 3/4/2013 QUed 0 Y 17.6 Since replacement 2/15/2016 N

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CAT 35168 18801517 South Sugarloaf Central Fe6400103agle Ford Karnes Texas 4/17/2013 Quid 0 1 21.6 Since replacement 10/15/2015 ii

CAT 35168 1E002239 South Sugarloaf Central Facility Eagle Ford Karnes Team 9/11/2013 Qua) 0 Y 10.8 Since replacement 9/11/2016 N

CAT 35168 1001193 South Sugarloaf Central Facility logI. Ford 8810., To 5/30/2014 Quid

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CAT 360804 01700142 South Sugarloaf Central Facility Eagle Ford Karnes

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CAT 351613 1E001862 Sugathorn Central 0443v Texas 1/16/2013 6/23/2017 Qued 0 N 17.5 Since raplazement 1/7/2016 N

CAT 35168 1602660 &leathern Central 80 4101(ogle Ford Karnes Texas Prior to

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CAT 35168 16001281 Suggtorn Central (4 01183 agle Ford Karnet Teem Prior to

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CAT 35108 1E001513 Sugarhorn Central Facilty Cagle Ford lier nes Texas Prior to

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Ajax DPC60 113326 Sugarhorn Central Faith', 1.gt.Ford Karnes Tevas Prior to

Quth 0 Y 19.3 Since replacement 12/23/2015 N

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CAT 3516 1E003370 Sugarisorn Central Facile/ agle Ford Karnes Tana 6/30/2017 Chigl Oe el 7.0 Since replacement 1/3/2017

CAT 35168 3E001867 Sugarloaf Station Cagle Ford Karnes Tens 12/27/2012 Quad 0 'I 1S3 So. replacament 12/8/2015 N

CAT 35168 1E000160 Sugarloaf Station €0410 Ford Karnes Texas Prior to

Quad 0 Y 2.7 Sin. replacement 5/11/2017

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CAT 35168 1E001261 Sugarloaf Station Fag, lord Karnes Texas Prior to

QUM 0 Y 24.6 Since replacement 7/13/2015 N

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CAT 35088 1381C01083 Sugarloaf Station ise, Ford Kamm Torus 5/6/2013 Clod 0 Y 15.4 Since replacement 4/20/2016 N

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CAT 35168 0E001782 Sugarloaf Station Eagle Ford Karnes Texas 1/2/2014 thed 0 V

_ 13.6 Since n.pl.o.nr.000/1S/2016 N

061 35168 1E001282 Sugarloaf Station Eagle Ford Karnes TeXaS 5/2/2014 Chad 0 V 16.1 Sinth replacement 3/28/2016 N

001 35168 4E00331 Sugarlaat Stat.^ Eagle Ford Karnes Texas 9/12/2014 Quad 0 Y 34.7 inlbal Startup N

CAT 35168 4E(04167 Sugarthaf Season Eagee Ford Kaftan Texas 12/23/2014 Quad 0 V 31.3 Initial Startup N

CAT 350E8 1831C01070 Union Central Facility Eagle Ford Gonzales Texas 5/1/2014 Ched 0 Y 28.9 Sin. raplacerneM 3/5/2015 N

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October 25,2017 Marathon Oil EF LLC

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CAT 35166 lEF01863 Loge Lott Central Facility Eag. Ford Dewitt Texas 1/30/2013 Quid 0 Y 18.5 Va. replacement 1/6/2016 N

CAT 35166 IE001647 llve Oak Central Facility Exo. Ford liy• C036 Texas 4/2/2013 Quid 7 , 16.1 Since replarximent 3/31/2016 N

CAT 35168 16E01520 Live Oak Central Facility 1451, Ford

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CAT 351611 &MUM Om Oalt Cantral Foggily Live Oak T.1120 5/13/2013 Quid 0 F 14.7 Since replacement 5/13/2016 i

£01 35168 11003152 000. 0* Central MOKPO (Ogle Ford 11. 0.6 Texas 4113/2016 Qual Oa 3 26.3 Since replacemant 5/20I2015

CAT 3406TA 6M305034 North 74 Ranch Central Faality Eagle Ford 68.800,.68.800,. Toms 7/3/2013 QU M 0 Y 12.8 Since replacemont 7A/2016 N

CAT 35168 JEF01212 North Longhorn Central Facility Eagle Ford Karnes Texas Prior to

10/15/12 T/8/2017 Quad o N 30.1 51nce replacement 1/6/2015 5

CAT 3516E1 2E002171 North longhorn Central Facility Eagle Ford Karnes Texas 0/6/2013 QuadY 0 11.9 Since replacement 8/3/2016 r.

CAT 35168 JEF01196 North Longhorn Central Facility Eagle Ford Kamm Tams 1/7/2016 Cluad Oa r 32.2 Sinca replacement 11/25/2014 N

CAT 35168 11001509 North Longhorn Central Fealty EagLe Ford Karnes Texas 7/24/2012 Quad 0 23.9 Sin. replacement 8/4/2015

CAT 35165 716E00104 North Longhorn Central Facility Eagle Ford Karnes Texas 3/3/2017

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CAT 635161 N6W00172 North Longhorn Control 0.6805 Eagle Ford Karnes Texas 6/28/2017 000.0 0. r 1.1 Initial Startup N

CAT 3516/1113 lEF02675 Roadrunner Central Facility Eagle Ford Dee Oak TOM 9/13/2014 Quad 0 Y 2.0 Since replacement 6/1/2017 N

CAT 3516168 0EF02679 Roadrunner Central Facility Eagla Ford 1.We Oak Texal 9/14/2014 Qual 0 Y 1.1 Since replacement 6/28/2017 4

£67 05168 861700344 Roadrunner Central Fuggy Eagle Ford Uve Oak Teem 3/4/2016 Quaid Oa Y 16.7 Initial Statists N

CAT 35168 866.130340 Roadruntur Cant.' FariltY Eagle Ford live Oak Tasas 5/14/2016 Quad Oa Y 14.6 Initial Starnes N

CAT 351611 18002185 San Christoyal Ranch Centro/ Faolity Eagle Ford Manes Texas 10/24/2013 Quail 0 V 9.3 Since replacement 10/24/2016 N

CAT 35168 0EF02184 San Christoyal Ranch Central Facility Eagle Ford 6011. TUN 10/24/2013 Quad 0 Y 9.4 Since reMacement 10/21/2016 N

£67 35158 1E002648 San Chrfstaval Ranch Central Facility Eagle Ford Kamm Tema 12/15/2014 Quad 0 Y 31.6 Initial Startup N

CAT 35160 11002518 San Chrfstoval Ranch Central ruin., Eagle Ford Karnes Toss 4/28/2016 Qu400a V 2.5 SInce replacement 5/17/2017 N

CAT 351613 0E002513 San Christi.' Ranch Central P.0147 Eagle Ford Karnes Texas 7/17/2014 Qum 0 Y 25 Since replacement 5/16/2017 N

CAT 35166 SEF01814 South Karnes Central Eadlity Eagle Ford Karnes Told 11/17/2015 QuadOo Y 12.8 Since reMacement 717/2016 5

£01 35105 11002109 South Karnes Central Faddy 04510 Ford Karnes Texas 2/25/2024 QUM 0 F 11 Since replacement 17,00/2016 N

CAT 351613 1E601759 South Karnes [antral Facility Eagle Ford Karnes Toms 1/17/2013 Quad 0 V 18.8 Sinre replacement 1/7/2016

CAT 35168 1E002169 South Karnes Central Facility Eagle Ford Karnes Toms 11/12/2013 auado `I SI Since replacement 10/28/2016

CAT 35168 35701342 South Kames Central Facility Eagle Ford Karnes Toms 8011/2013 Quad° V 11.5 Since replacement 8/16/2016 N

CAT 35168 11001331 South Karnes Central Faolity aide Ford Karnes Teo. Marto

10/15/12 Quad° V 24.9 Since replacement 7/5/2015 N

8/2/164/1/17 Compliance Report

October 75,2017 Marathon ON EF SLC

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s Texas 4/8/2016 (50.4 00 0 15.8 Initial Startup

CAT G3608A4 /01700122 East Karnes Central Facility Eafite Ford Karnes Texas 1/12/2017 Quad Oa V 6.7 InItial Startup

CAT 35168 2,E001518 East Longhorn Centro. Facility Eagle Ford Kansas Texas Prior to

10/15/12 Qmd o V 20.0 Since replacement 7/1/2015

CAT 35168 06001078 East Longhorn Central FacIlltY Eagle Ford 1700.0 Texas Prim to

10/15/12 Qind 0 1 333 Since replacement 10/16/2014

CAT 35163 IEF01290 East Longhorn Central Fealty Eagle Ford Keo Texas Pace to

10/15/12 Quad 0 V 21.7 virions

CAT 35168 16001193 East Longhorn Central Faolity Eagle Ford 630005 Texas 5/6f2013 Quid 0 I' 31.5 Since replacement 12/16/2014

CAT 351613 36002103 East Longhorn Cmtral Fool S1 I aTh Ford Kansas Texas 10/2/2013 Clued 0 Y 10.1 Stn,. replacement 9/30/2016

CAT 3603 01750114 East longhorn Central Faclini Eagle Ford kacerts Terms 9/23/2016 0001 04 Y 003 initial Startup

CAT 3360864 01703140 East Longhorn Central Facility Eagle Ford Karnes Texas 5/24/2017 0954 0. 8 2 7 India' Startup

CAT 35103 70101690 East Sugarloaf Central Facalty Mel. Ford Karnes Texas Prtor to

10/15/11 Qmd 0 9 236 Since replacement 8/13/2015

CAT 151611 I5001631 East Sugarloaf Central Fecilfty Eagle Ford 6.0033 Texas PCIOC 20

10/15/12 Thad 0 Y 71 7 Since replacement 10/12/2015

CAT 35168 .1E002099 East Sugarloaf Central Nally Eagle Ford Karnes TOW 9/11/2013 Cllt•d 0 1' 10.8 $ince replamment 9/102016

CAT 35166 1(001667 East Sugarloaf Central Facility Eagle Ford Karnes Texas 2/14/2013 Queti 0 V 175 Since replacement 2/16/2016

CAT 35166 05002191 East Sugarloaf Central Facli Hy Eagle Ford Kames Texas 1/13/2014 (Gad 0 Y 7.2 Since replacement 12/27/2016

£61 35160 3EF01271 East Sugarloaf centrai Facilly Eagle Ford Karnes Texas 7/13/2014 Chad 0 Y 23.0 Sinm replacement 9/3/2015

£41 3608 0175011.5 East Sugarloaf Central fa.1,ty Eagle Ford Karnes Texas 11/412016 Quad Oa r 8.9 Initial Smrtup

C67351613 .11/02517 Gape Central Facility Eagle nom Ata Tens 6/21/2014 Quad 0 Y 2.0 Since rents...110'46/1/2017

£61 35168 -

JEF02660 Guaiiiin Centro, Facility Eagle Ford Atascosa Texas 10/24/2014 Quad 0 0 33.3 initial Startup

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1090 11185 rititertret pPeplio Oenbal Facmy new Duo Armco. Temps 6/17/2013 Thad 0 0 147 Nem. replaternent 5/1102016

£61 15163 15701296 Guarino Central Focally Eagle Fred AtiSCOsa Texas 6/1/2013 Chad 0 V 250 initial Stamm

CAT 5360664 004700134 Guarino Conical Faddy Eagle Ford Mascosa Texas 6/13/2017 03rd Da0 1.5 Initial Startup

£61 35165 5002164 Hammerhead Contra, Facility Eagle Ford Gonzales Texas 11/8/2013 -

Chad 0 y 9.2 Since replacement 10/27/2019

£61 35163 5001731 Henderson Central Facility Eagle Ford 3.oeltt Texas 3/1/7013 Chad 0 Y 17.3 Since replacement 2/73/2016

£61 35183 .16101866 Hendarson Central Facility Eagle Ford Omen Texas 12/8/2015 Quid OaY 17.9 Since raplamment 2/5/2016 /my

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3/7/16-8/1/17 Compliance Report

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Appendix C - ReciprocMing Compressor Allectad Facilities

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Eagle Ford Karnes Texas 2/11/2014 Quad 0 13.6 Since replacement 8/14/2010

CAT 35168 2EF01786 Barnhart Central Facility Texas 11/306012 Chad 0 20.3 Snot replacement 11/23/2015 ri

CAT 351611 1601758 Banitmet Central Facility Texas 12/4/2012 Quad 0 20.3 Since replacement 11/24/2015 70

CAT 15166 JEF01806 Barnhart Central Facility Tax. 5/22/2013 Quad 0 v 13.5 Since replacement 6/16/2016 ll

C67351614.8 002720 Barracuda Central Facility Tn0, 11/6/2014 Qua] 0 0 0.3 Since replacement 7/21/2017 N

CAT 35101113 11302711 Barracuda Central Facility Ear& Ford Karnes Tex. 3/6/2014 Quad 0 V 1.3 Sn. replacement 6/21/2017 n

CAT 35168 14660203 Barracuda Central Facility Eagle Ford Katnes Texas 5/9/1016 Trod Da 1 14.8 Initial Marto VI

CA1351615 16F02513 Blackjack Central Facilly Eagle Ford Karnes Texas 5/29/2014 Quad 0 v 5.3 Since replacement 2/22/2017

CAT 35168 JEF02570 Blackjack Central Facility Eagle Ford Karnes Texas 5/30/2014 Quad 0 Y 5.1 Since mplacement 2/28/2017 N

CAT 351E8 JET -01845 Blackjack Central Facility Eagle Ford Karnes Taims 5/23/2013 Curd 0 Y 14.2 Since replacement 5/27/2016 N

CAT 35168 1602166 Blackjack Central Facility Eagle Ford Karr. T1.10012/10/2013 Quid 0 r 9.2 Since repiacemant 10/26/2016 N

CAT 35168 1601214 Central Excelsior Central Facility Eagle Ford Atascosa

Eagle Ford 0.0.00.0..Texas

Eagle Ford Karnes Texas Prior to

10/15/12 Cluid 0 Y 30.7

33.3 Since replacement 1/21/2015

Since replacement 10/21/2014 N

N CAT 35008 118601039 Central Exmislor Central Facility 1/16/2023 120040 y

CAT 3516603 1E102287 Central Longhorn Central Frivolity Texas 5/12/2014 Quad 0 YN 3,7

3.4 Since r.pl.rn,n64/12/2017

Since replacement 4/20/2017 N CAT 3516111.13 110002553Central Longhom Central FacIlity Eagle Ford Kansas Texas 5/12/2014 Quad 0 Y

CAT 3516ULB 1602537 Central Longhorn Central Facility Ford K,,, Eagle an Texas 5/11/2014 Quad 0 Y 3.4 Since replacement 4/19/2017 N

CAT 35161.11.11 1E002113 Cmtral longivom Central Faclity Eagle Ford Karnes Texas 5/13/2014 0640 V 3.6 Since replacement 4/13/2017 N

CAT 351601.8 64001270 Central Lonshom Central Facility Eagle Ford Kamen Taxa,

Texas 8/26/2016

5/16/2013 Qadu Oa

Quad 0 Y

V 11_2

279 Initial Startup

Sinn* replacement 11/5/2015 N

N CAT 35088 R81(01091 Challenger Central FacNty Eagle Ford Kansas

CAT 35168 1602194 Ch./langur Central Facility Eagle Ford Karnes Texas

Texas

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TY,. 2/14/2014

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9/21/2014 11/29/2016 Quad 0

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0.7 Since replacement 8/15/2016

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Initial Startup

Since repIxement 7/10/2017 N

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N CAT 35160 1602186 Challenger Central Facility Eagle Ford Kam.

CAT 35161/1.6 1602672 East Karnes Central Facility Fazio Ford Karnes

CAT 3516518 1602670 East Kames Central Facility Eagle Ford KarneS

CAT 3516ULB 1602684 Fast Kam. Central Facility Eagle Ford Karnes Texas 9/25/1014 thsul 0 V 0.7 Grice replacement 7/11/2017 n.

CAT 3516t/LIS 1602691 East games Central Facility Emile Ford Kam. T.as

Texas

16000 9/25/2014

5/13/2014

2/11/2015 Quad 0

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29.7 Since repracernent 7/13/2017

Since replacement 4/21/2017

Initial Startup N

N CA73516110 1602557 East KarnesCentrai Facility Eagle Ford II arn.

CAT 35161.0.11 1602707 East Karnes Central Facility Eagle Ford Carnes

8/2/16-8/1/17 Compliance Report

October 25, 2017

Well Name ZAESKE-ECKOLS UNIT 4H ZAESKE-ECKOLS UNIT 501H ZAESKE-ECKOLS UNIT 502H ZAESKE-ECKOLS UNIT 503H

API Well Number 4225534859 4225534864 4225534862 4215534860

Site Name ZAESKE-ECKOLS UNIT ZAESKE-ECKOLS UNIT ZAESKE-ECKOLS UNIT ZAESKE-ECKOLS UNIT

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

N N N

Y, specify. N

Flowback Beginning (date/time) 12/01/16 00:00 12/01/16 03:00 12/01/16 02:00 12/01/16 00:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA

Flowback Ending (date/time) 12/05/16 00:00 12/05/16 00:00 12/05/16 00:00 12/05/16 00:00

1

Total Duration of Flowback

97 94 95 97

(hours)

Duration Well Vented to Atmosphere

0 0 0 0 A

(hours)

8 Duration Well Routed to a Flare (hours) 0 0 1 1

D Duration Well Routed to Flowline (hours) 97 94 94 96

Specify the reason .,I

-o List the exception claimed

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Any Deviation? (Y/N) N N N N

If Y, attach records of deviation. Indicate

Attachment # here. Marathon Oil EF LLC

Appendix B -Gas Well Affected Facilities

35 of 35

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix 13 - Gas Well Affected Facilities

34 of 35

Well Name TURNBULL UNIT D 16H Turnbull Unit D 501H TURNBULL UNIT D 502H ZAESKE-ECKOLS UNIT 2H ZAESKE-ECKOLS UNIT 3H

API Well Number 4225534916 4225534915 4225534917 4225534863 4225534861

Site Name TURNBULL UNIT D TURNBULL UNIT 0 TURNBULL UNIT D ZAESKE-ECKOLS UNI I ZAESKE-ECKOLS UNIT

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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State

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Wildcat/ Delineation/ Low-pressure? (Y/N) I

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V, specify.

Flowback Beginning (date/time) 08/15/16 21:00 08/15/16 22:00 08/15/16 21:00 12/01/16 03:00 12/01/16 00:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 08/18/16 06:00 08/18/16 06:00 08/18/16 06:00 12/05/16 00:00 12/05/16 00:00

Total Duration of Flowback

(hours) 58 57 58 94 97

Duration Well Vented to Atmosphere

A 0 0 0 0 0

(hours)

B Duration Well Routed to a Flare (hours) 1 0 1 2 1

D Duration Well Routed to Flowline (hours) 57 57 57 92 96

--: Specify the reason

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-0 List the exception claimed

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Any Deviation? (YIN) N N N N N

If Y, attach records of deviation. Indicate

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8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

33 of 35

Well Name TRIAL UNIT 1H TRIAL UNIT 2H TRIAL UNIT 501H TRIAL UNIT 502H TURNBULL UNIT D 15H

API Well Number 4225534947 4225534950 4225534948 4225534949 4225534914

Site Name TRIAL UNIT -

TRIAL UNIT TRIAL UNIT TRIAL UNIT TURNBULL UNIT D

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) LAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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Wildcat/ Delineation/ Low-pressure? (Y/N) If

N N N N N

V. specify.

Flowback Beginning (date/time) 09/10/16 19:00 09/10/16 16:00 09/11/16 12:00 09/10/16 18:00 08/15/16 22:00

Flowback Reverted to Initial Stage (date/time) I NA - NA NA NA NA

Flowback Ending (date/time) 09/13/16 06:00 09/15/16 00:00 09/16/16 06:00 09/16/16 00:00 08/18/16 06:00

Total Duration of Flowback

60 105 115 127 57

(hours)

Duration Well Vented to Atmosphere

0 0 0 0 0 A

(hours)

B Duration Well Routed to a Flare (hours) 0 0 0 0 1

D Duration Well Routed to Flowline (hours) 60 105 115 127 56

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8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix 8 - Gas Well Affected Facilities

32 of 35

Well Name SALGE-KINKLER UNIT 501H SALGE-KINKLER UNIT 502H SALGE-KINKLER UNIT 503H SALGE-KINKLER UNIT 504H SALGE-KINKLER UNIT 5H

API Well Number 4225534775 4225534/77 4225534925 4225534923 4225534924

Site Name SALGE-KINKLER UNIT SALGE-KINKLER UNIT SALGE-KINKLER UNIT SALGE-KINKLER UNIT SALGE-KINKLER UNIT

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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Wildcat/ Delineation/ Low-pressure? (Y/N) If

Y, specify. N N N N N

Flowback Beginning (date/time) 10/21/16 05:00 10/21/16 06:00 10/23/16 01:00 10/22/16 23:00 10/22/16 23:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 10/25/16 00:00 10/25/16 00:00 10/26/16 18:00 10/26/16 06:00 10/26/16 18:00

Total Duration of Flowback

(hours) 92 91 90 80 92

Duration Well Vented to Atmosphere

A

(hours) 0 0 0 0 0

B Duration Well Routed to a Flare (hours) 2 2 0 0 0

D Duration Well Routed to Flowline (hours) 90 89 90 80 92

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If Y, attach records of deviation. Indicate

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8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix 8 - Gas Well Affected Facilities

31 of 35

RIPPSTEIN-GOTTHARDT UNIT

Well Name RIPPSTEIN-GOTTHARDT UNIT

RIPPSTEIN-GOTTHARDT UNIT 5H SALGE-KINKLER UNIT 3H SALGE-KINKLER UNIT 4H

SO3H 504H

API Well Number 4225534930 4225534928 4225534927 4225534776 4225534778

Site Name RIPPSTEIN-GOTTHARDT UNIT RIPPSTEIN-GOT MARDI UNIT RIPPSTEIN-GOTTHARDT UNIT SALGE-KINKLER UNIT SALGE-KINKLER UNIT

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) LAGLEVILLE (EAGLE FORD -2)

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Wildcat/ Delineation/ Low-pressure? (Y/N) If

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Y, specify.

Flowback Beginning (date/time) 09/06/16 07:00 09/06/16 08:00 09/06/16 09:00 10/21/16 04:00 10/21/16 01:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 09/09/16 18:00 09/09/16 18:00 09/09/16 18:00 10/25/16 00:00 10/25/16 00:00

Total Duration of Flowback

84 83 82 93 96

(hours)

Duration Well Vented to Atmosphere

0 0 0 0 0 A

(hours)

B Duration Well Routed to a Flare (hours) 0 0 0 2 7

D Duration Well Routed to Flowline (hours) 84 83 82 91 94

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List the exception claimed

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IV, attach records of deviation. Indicate

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8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

30 of 35

Well Name RIPPSTEIN-GOTTHARDT UNIT 211 RIPPSTEIN-GOTTHARDT UNIT 3H RIPPSTEIN-GOTTHARDT UNIT 411 RIPPSTEIN-GOTTHARDT UNIT RIPPSTEIN-GOTTHARDT UNIT

501H 50211

API Well Number 4225534812 4225534814 4225534929 4225534811 4225534813

Site Name RIPPSTEIN-GOTTHARDT UNIT RIPPSTEIN-GOTTHARDT UNIT RIPPSTEIN-GOTTHARDT UNIT

RIPPSTEIN-GOTTHARDT UNIT RIPPSTEIN-GOTTHARDT UNIT

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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Flowback Beginning (date/time) 09/06/16 11:00 09/06/16 09:00 09/06/16 07:00 09/06/16 11:00 09/06/16 09:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 09/09/16 18:00 09/09/16 18:00 09/09/16 18:00 09/09/16 18:00 09/09/16 18:00

Total Duration of Flowback

(hours) 80 82 84 80 82

Duration Well Vented to Atmosphere

A

(hours) 0 0 0 0 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 80 82 84 80 82

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If Y, attach records of deviation. Indicate

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8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

29 of 35

RANCHO GRANDE TRUST UNIT 1 RANCHO GRANDE TRUST UNIT 1 RANCHO GRANDE TRUST UNIT 1 RANCHO GRANDE TRUST UNIT 1

Well Name R MAY B 21H

4H 5H 6H

. 7H

API Well Number 4201335410 4225535012 4225535013 4225535016 4225535020

Site Name R MAY B RANCHO GRANDE TRUST UNIT: RANCHO GRANDE TRUST UNIT 1 RANCHO GRANDE TRUST UNIT! RANCHO GRANDE TRUST UNIT 1

Field EAGLEVILLE (EAGLE FORD -1) SUGARKANE (FAG) E FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD)

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Flowback Beginning (date/time) 07/30/17 20:00 02/24/17 00:00 02/23/17 23:00 02/23/17 21:00 02/23/17 21:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 08/02/17 06:00 02/28/17 00:00 02/28/17 00:00 02/28/17 00:00 02/28/17 00:00

Total Duration of Flowback

59 97 98 100 100

(hours)

Duration Well Vented to Atmosphere

0 A 0

(hours) 0 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 59 97 98 100 100

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If Y, attach records of deviation. Indicate

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8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

28 of 35

Well Name MURPHY-SINCLAIR UNIT AC 3H NITSCH UNIT B 3H NITSCH UNIT B 4H R MAY B 19H R MAY B 20H

API Well Number 4225534669 4229735866 4229735867 4201335408 4201335409

Site Name MURPHY-SINCLAIR UNIT AC NITSCH UNIT B NITSCH UNIT B R MAY B R MAY B

Field SUGARKANE (AUSTIN CHALK) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1)

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State Tx TX TX TX TX

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Flowback Beginning (date/time) 11/04/16 10:00 06/24/17 05:00 06/24/17 05:00 07/30/17 19:00 07/30/17 19:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 11/07/16 18:00 06/27/17 00:00 06/27/17 00:00 08/02/17 06:00 08/02/17 06:00

Total Duration of Flowback

(hours) 82 64 64 60 60

Duration Well Vented to Atmosphere

A

(hours) o o o o 0

B Duration Well Routed to a Flare (hours) o 0 o o 0

D Duration Well Routed to Flowline (hours) 82 64 64 60 60

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If Y, attach records of deviation. Indicate

Attachment 8 here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

27 of 35

Well Name MORGAN UNIT AC 4H MURPHY-SINCLAIR UNIT 302H MURPHY-SINCLAIR UNIT 303H MURPHY-SINCLAIR UNIT 5021-1 MURPHY-SINCLAIR UNIT 503H

API Well Number 4225534524 4225534654 4225534657 4225534653 4225534656

Site Name MORGAN UNIT AC MURPHY-SINCLAIR UNIT MURPHY-SINCLAIR UNIT MURPHY-SINCLAIR UNIT MURPHY-SINCLAIR UNIT

Field SUGARKANE (AUSTIN CHALK) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD)

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County Karnes Karnes Karnes Karnes Karnes

State TX TX IX TX TX

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Y, specify. N N N N

Flowback Beginning (date/time) 10/18/16 10:00 11/04/16 12:00 11/04/16 10:00 11/04/16 11:00 11/04/16 10:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 10/21/16 12:00 11/07/16 06:00 11/07/16 18:00 11/07/16 18:00 11/07/16 18:00

Total Duration of Flowback

75 68 82 81 82

(hours)

Duration Well Vented to Atmosphere

0 0 0 0 0 A

(hours)

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 75 68 82 81 82

Specify the reason ...iis

List the exception claimed

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Explain why the well meets the claimed

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..-- Pilot inspected hourly? (V/NI Y Y Y Y Y

Any Deviation? (Y/N) ri N N N N

If Y, attach records of deviation. Indicate

Attachment # here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil El LLC

Appendix 8 -Gas Well Affected Facilities

26 of 35

Well Name MORGAN UNIT 7H MORGAN UNIT 8H MORGAN UNIT 9H MORGAN UNIT AC 2H MORGAN UNIT AC 3H

API Well Number 4225534320 4225534321 4225534525 4225534325 4225534326

Site Name MORGAN UNIT MORGAN UNIT MORGAN UNIT MORGAN UNIT AC MORGAN UNIT AC

Field SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (AUSTIN CHALK) SUGARKANE (AUSTIN CHALK)

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County Karnes Karnes Karnes Karnes Karnes

State Tx

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

Y, specify. N N N N N

Flowback Beginning (date/time) 10/18/16 05:00 10/18/16 06:00 10/18/16 10:00 10/18/16 08:00 10/18/16 10:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 10/21/16 12:00 10/21/16 06:00 10/21/16 12:00 10/21/16 12:00 10/21/16 12:00

Total Duration of Flowback

(hours) 80 73 75 77 75

Duration Well Vented to Atmosphere

A 0 0 0 0 0

(hours)

B Duration Well Routed to a Flare (hours) 0 0 3 o 0

D Duration Well Routed to Flowline (hours) 80 73 72 77 75

.,TE:.. Specify the reason

List the exception claimed

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61 Explain why the well meets the claimed

Z exception

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'.., Pilot inspected hourly? (Y/N) Y Y Y Y Y

Any Deviation? (Y/N) N N N N N

If?, attach records of deviation. Indicate

Attachment It here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

MOCZYGEMBA POLLOK UNIT AC

Well Name MEDINA-JONAS UNIT A 4H MIDDLE MCCOWEN 190H MIDDLE MCCOWEN 90H MIDDLE MCCOWEN 9111

1H

API Well Number 4225535107 4231136611 4231136617 4231136613 4225535065

Site Name MEDINA-JONAS UNIT A MIDDLE MCCOWEN UNIT MIDDLE MCCOWEN UNIT MIDDLE MCCOWEN UNIT MOCZYGEMBA POLI OK UNIT AC

Field EAGLEVILLE (EAGLE FORD -2) EAGLE VILLE (EAGLE FORD -1) EAGLE VILLE (EAGLE FORD -1) EAGLE VILLE (EAGLE FORD -1) SUGARKANE (AUSTIN CHALK)

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o Address or Directions

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State TX TX TX lx TX

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

N N N

V. specify. N N

Flowback Beginning (date/time) 03/21/17 03:00 12/27/16 07:00 12/27/16 09:00 12/27/16 16:00 12/29/16 07:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 03/24/17 21:00 01/01/17 00:00 01/01/17 00:00 01/01/17 00:00 01/01/17 00:00

Total Duration of Flowback

91 95 102 96 66

(hours)

Duration Well Vented to Atmosphere

0 0 0 A 0

(hours) 0

B Duration Well Routed to a Flare (hours) 5 2 2 2 0

D Duration Well Routed to Flowline (hours) 86 93 100 94 66

...,..E: Specify the reason

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-0 List the exception claimed

t: Explain why the well meets the claimed

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..- Pilot inspected hourly? (Y/N) Y Y Y Y V

Any Deviation? (Y/N) N N N N N

If Y, attach records of deviation. Indicate

Attachment It here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

24 of 35

Well Name MAY B UNIT 26H MAY B UNIT 27H MAY B UNIT AC 24H MEDINA-JONAS UNIT A 2H MEDINA-JONAS UNIT A 3H

API Well Number 4225535133 4225535132 4225535136 4225534444 4225534446

Site Name MAY B UNIT MAY B UNIT MAY B UNIT MEDINA-JONAS UNIT A MEDINA-JONAS UNIT A

Field SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (AUSTIN CHALK) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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Wildcat/ Delineation/ Low-pressure? (Y/N) I

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Y, specify.

Flowback Beginning (date/time) 07/21/17 19:00 07/21/17 21:00 07/21/17 19:00 03/21/17 02:00 03/21/17 02:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 07/25/17 00:00 07/25/17 00:00 07/25/17 00:00 03/24/17 21:00 03/24/17 21:00

Total Duration of Flowback

(hours) 78 76 78 92 92

Duration Well Vented to Atmosphere

A 0 0 0 0 0

(hours)

B Duration Well Routed to a Flare (hours) 0 0 0 5 6

D Duration Well Routed to Flowline (hours) 78 76 78 87 86

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t Explain why the well meets the claimed

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Any Deviation? (Y/N) N N N N N

If Y, attach records of deviation. Indicate

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8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

23 of 35

Well Name KIMBLE-GILLEY UNIT 502H KIMBLE-GILLEY UNIT 503H KIMBLE-GILLEY UNIT 504H MAY B UNIT 23H MAY B UNIT 24H

API Well Number 4225535105 4225535103 4225535101 4225535135 4225535134

Site Name KIMBLE-GILLEY UNIT KIMBLE-GILLEY UNIT KIMBLE-GILLEY UNIT MAY B UNIT MAY B UNIT

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD)

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Wildcat/ Delineation/ Low-pressure? (Y/N) If

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Y, specify. N N

Flowback Beginning (date/time) 05/10/17 22:00 05/11/17 01:00 05/11/17 01:00 07/21/17 19:00 07/21/17 19:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 05/14/17 00:00 05/14/17 00:00 05/14/17 00:00 07/25/17 00:00 07/25/17 00:00

Total Duration of Flowback

75 72 72 78 77

(hours)

Duration Well Vented to Atmosphere

0 0 0 A 0

(hours) 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 75 72 72 18 77

,..,:i. Specify the reason

List the exception claimed

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.., Explain why the well meets the claimed

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Any Deviation? (Y/N) N N N N N

If Y, attach records of deviation. Indicate

Attachment # here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

22 of 35

Well Name KARNES CITY SE UNIT 6H KARNES CITY SW UNIT SH KARNES CITY SW UNIT 6H KIMBLE-GILLEY UNIT 2H KIMBLE-GILLEY UNIT 3H

API Well Number 4225535147 4225535152 4225535153 4225535104 4225535102

Site Name KARNES CITY SE UNIT KARNES CITY SW UNIT KARNES CITY SW UNIT KIMBLE-GILLEY UNIT KIM8LE-GILLEY UNIT

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

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Y, specify. N N N N

Flowback Beginning (date/time) 06/06/17 01:00 05/29/17 22:00 05/29/17 19:00 05/10/17 22:00 05/11/17 00:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 06/09/17 06:00 06/02/17 18:00 06/02/17 18:00 05/14/17 00:00 05/14/17 00:00

Total Duration of Flowback

78

(hours) 93 96 75 73

Duration Well Vented to Atmosphere

A 0

(hours) 0 0 0 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 78 93 96 75 73

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1-_ Pilot inspected hourly? (Y/N) Y r y r y

Any Deviation? (YIN) N N N N N

If Y. attach records of deviation. Indicate

Attachment # here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

21 of 35

Well Name KARNES CITY NW UNIT 502H KARNES CITY NW UNIT 503H KARNES CITY SE UNIT 311 KARNES CITY SE UNIT 41-I KARNES CITY SE UNIT SH

API Well Number 4225535227 4225535229 4225534748 4225534779 4225534780

Site Name KARNES CITY NW UNIT KARNES CITY NW UNIT KARNES CITY SE UNIT KARNES CITY SE UNIT KARNES CITY SE UNIT

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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2 Address or Directions

County Kames Karnes Karnes Karnes Karnes

State Tx TX TX TX TX

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

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Flowback Beginning (date/time) 06/12/17 10:00 06/12/17 10:00 06/05/17 23:00 06/05/17 23:00 06/06/17 01:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 06/16/17 00:00 06/16/17 00:00 06/09/17 06:00 06/09/17 06:00 06/09/17 06:00

Total Duration of Flowback

87 87 80 80 78

(hours)

Duration Well Vented to Atmosphere

, 0 0 0 A

(hours) 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 8/ 87 80 80 78

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w Explain why the well meets the claimed

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Any Deviation? (Y/N) N N N N N

If V. attach records of deviation. Indicate 1

Attachment # here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

20 of 35

Well Name GUAJILLO WEST 56H GUAJILLO WEST 58H KARNES CITY NW UNIT 2H KARNES CITY NW UNIT 3H KARNES CITY NW UNIT 501H

API Well Number 4201335466 4201335462 4225535226 4225535228 4225535225

Site Name GUAJILLO WES1 GUAJILLO WEST KARNES CITY NW UNIT KARNES CITY NW UNIT KARNES CITY NW UNIT

Field EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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3 Address or Directions

County Atascosa Atascosa Karnes Karnes Karnes

State TX TX TX rx TX

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (YIN) If

Y, specify. N N N

Flowback Beginning (date/time) 07/27/17 04:00 07/27/17 05:00 06/12/17 11:00 06/12/17 13:00 06/12/17 11:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 07/30/17 18:00 07/30/17 18:00 06/16/17 00:00 06/16/17 00:00 06/16/17 00:00

Total Duration of Flowback

(hours) 87 86 86 84 86

Duration Well Vented to Atmosphere

A

(hours) 0 0 0 0 o

B Duration Well Routed to a Flare (hours) 0 0 0 0 o

D Duration Well Routed to Flowline (hours) 87 86 86 84 86

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Explain why the well meets the claimed

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Any Deviation? (Y/N) N N N N N

If Y, attach records of deviation. Indicate

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8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix 8 - Gas Well Affected Facilities

19 of 35

Well Name GUAIILLO UNIT 7 SOUTH 4H GUAIILLO UNIT 7 SOUTH 5H GUAJILLO WEST 34H GUMMI.° WEST 36H GU/knit° WEST 38H

API Well Number 4201335377 4201335378 4201335465 4201335464 4201335463

Site Name GUAJILLO UNIT 7 SOUTH GUAJILLO UNIT 7 SOUTH GUAJILLO WEST GUAJILLO WEST GUAJILLO WEST

Field EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1)

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State TX TX TX TX TX

Latitude 9)

Longitude))

Wildcat/ Delineation/ Low-pressure? (Y/N) If

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V. specify. N N

Flowback Beginning (date/time) 07/01/17 04:00 07/01/17 03:00 07/27/17 04:00 07/27/17 04:00 07/27/17 05:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 07/05/17 18:00 07/05/17 18:00 07/30/17 18:00 07/30/17 18:00 07/30/17 18:00

Total Duration of Flowback

111 112 .-:/ 87 86

(hours)

Duration Well Vented to Atmosphere

0 0 0 0 A 0

(hours)

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 111 112 87 87 86

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Any Deviation? (Y/N) ,

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If Y, attach records of deviation. Indicate

Attachment 8 here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix 13 - Gas Well Affected Facilities

18 of 35

Well Name GUAJILLO UNIT 16 SOUTH 3H GUAJILLO UNIT 16 SOUTH 4H GUAJILLO UNIT 7 SOUTH 1H GUAJILLO UNIT 7 SOUTH 2H GUAJILLO UNIT 7 SOUTH 3H

API Well Number 4201335381 4201335384 4201335374 4201335376 4201335375

Site Name GUAJILLO UNIT 16 SOUTH GUAJILLO UNIT 16 SOUTH GUAJILLO UNIT GUAJILLO UNIT 7 SOUTH GUAJILLO UNIT 7 SOUTH

Field EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1)

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o Address or Directions

County Atascosa Atascosa Atascosa Atascosa Atascosa

State TX TX TX TX P.

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

N N N N N

Y, specify.

Flowback Beginning (date/time) 01/19/17 10:00 01/19/17 05:00 07/01/17 03:00 07/01/17 04:00 07/01/17 03:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 01/22/17 06:00 01/22/17 06:00 07/05/17 18:00 07/05/17 18:00 07/05/17 18:00

Total Duration of Flowback

69 74 112 111 112

(hours)

Duration Well Vented to Atmosphere

A

(hours) 0 0 0 0 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 69 74 112 111 112

Specify the reason .....i.

-0 List the exception claimed

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ai Explain why the well meets the claimed

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Any Deviation? (Y/N) N N N N N

If Y, attach records of deviation. Indicate

Attachment II here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

17 of 35

Well Name GUAJILLO UNIT 12 NORTH 2H GUAJILLO UNIT 12 NORTH 3H GUAJILLO UNIT 12 NORTH 411 GUAJILLO UNIT 16 SOUTH 1H GUAJILLO UNIT 16 SOUTH 2H

API Well Number 4229/35854 4229735855 4229735856 4201335382 4201335383

Site Name GUAJILLO UNIT 12 NORTH GUAJILLO UNIT 12 NORTH GUAJILLO UNIT 12 NORTH GUAJILLO UNIT 16 SOUTH GUAJILLO UNIT 16 SOUTH

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE VORD-2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1)

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_. Address or Directions

County Live Oak Live Oak Live Oak Atascosa Atascosa

State TX TX TX TX TX

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (YIN) If

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V. specify. N N N N

Flowback Beginning (date/time) 03/27/17 01:00 03/27/17 04:00 03/27/17 03:00 01/19/17 02:00 01/19/17 03:00

Flowback Reverted to Initial Stage (date/time) I NA NA NA NA NA

Flowback Ending (date/time) 03/30/17 18:00 03/30/17 18:00 03/30/17 18:00 01/22/17 06:00 01/22/17 06:00

Total Duration of Flowback

90 87 88 77 76

(hours)

Duration Well Vented to Atmosphere

0 0 0 A 0

(hours) 0

B Duration Well Routed to a Flare (hours) 1 1 1 0 0

D Duration Well Routed to Flowline (hours) 89 86 87 77 76

-- Specify the reason

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Any Deviation? (Y/N) N N N N N

If V. attach records of deviation. Indicate

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Well Name GUABLLO UNIT 11 NORTH 2H GUAJILLO UNIT 11 NORTH 311 GUAJILLO UNIT 11 NORTH 411 GUAJILLO UNIT 11 NORTH 5H GUAJILLO UNIT 12 NORTH 1H

API Well Number 4229735843 4229735844 4229735845 4229735846 4229735853

Site Name GUAJILLO UNIT 11 NORTH GUAJILLO UNIT 11 NORTH GUAJILLO UNIT 11 NORTH GUAJILLO UNIT 11 NORTH GUAJILLO UNIT 12 NORTH

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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County Live Oak Live Oak Live Oak Live Oak Live Oak

State

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Wildcat/ Delineation/ Low-pressure? (YIN) If

V. specify. N N N N N

Flowback Beginning (date/time) 11/10/16 11:00 ...-

11/10/16 11:00 11/10/16 11:00 11/10/16 13:00 03/27/17 01:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 11/15/16 00:00 11/15/16 00:00 11/15/16 00:00 11/15/16 0000 03/30/17 18:00

Total Duration of Flowback

(hours) 110 110 110 108 90

Duration Well Vented to Atmosphere

A

(hours) 0 0 0 0 0

B Duration Well Routed to a Flare (hours) 1 1 1 1 1

D Duration Well Routed to Flowline (hours) 109 109 109 107 89

....i. Specify the reason

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If Y, attach records of deviation. Indicate

Attachment # here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

15 of 35

Well Name GUAJILLO UNIT 10 NORTH 1H GUAJILLO UNIT 10 NORTH 2H GUAJILLO UNIT 10 NORTH 3H GUAJILLO UNIT 10 NORTH 4H GUAJILLO UNIT 11 NORTH 1H

API Well Number 4229735847 4229735848 4229735849 4229735850 4229735842

Site Name GUAJILLO UNIT 10 NORTH GUAJILLO UNIT 10 NORTH GUAJILLO UNIT 10 NORTH GUAJILLO UNIT 10 NORTH GUAJR10 UNIT 11 NORI I I

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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Wildcat! Delineation/ Low-pressure? (Y/N) If

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Flowback Beginning (date/time) 11/05/16 10:00 11/05/16 09:00 11/05/16 10:00 11/05/16 10:00 11/10/16 11:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 11/09/16 00:00 11/09/16 00:00 11/09/16 00:00 11/09/16 00:00 11/15/16 00:00

Total Duration of Flowback

88 89 88 88 110

(hours)

Duration Well Vented to Atmosphere

A 0

(hours) 0 0 0 o

B Duration Well Routed to a Flare (hours) 0 1 o o 1

D Duration Well Routed to Flowline (hours) 88 88 88 88 109

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If Y, attach records of deviation. Indicate 1-1 Attachment 8 here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EL LLC

Appendix B - Gas Well Affected Facilities

14 of 35

Well Name GILLEY UNIT 4H GILLEY UNIT 50314 GILLEY UNIT 504H GILLEY UNIT 505H GILLEY UNIT 5H

API Well Number 4225535093 4225535095 4225535091 4225535090 4225535092

Site Name GILLEY UNIT GILLEY UNIT GILLEY UNIT GILLEY UNIT GILLEY UNIT

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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State TX TX TX TX iv.

Latitude

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Wildcat! Delineation/ Low-pressure? (Y/N) If

Y, specify. N N N N N

Flowback Beginning (date/time) 03/05/17 04:00 03/05/17 05:00 03/07/17 04:00 03/07/17 04:00 03/07/17 03:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 03/08/17 18:00 03/08/17 18:00 03/10/17 18:00 03/10/17 18:00 03/10/17 18:00

Total Duration of Flowback

(hours) 87 86 87 87 88

Duration Well Vented to Atmosphere

A 0 0 0 0 0

(hours)

B Duration Well Routed to a Flare (hours) 0 0 1 1 1

D Duration Well Routed to Flowline (hours) 87 86 86 86 87

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t: Pilot inspected hourly? (Y/N) Y Y Y Y Y

Any Deviation? (Y/N) N N N -

N N

If Y, attach records of deviation. Indicate

Attachment ft here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil El LLC

Appendix 13 - Gas Well Affected Facilities

13 of 35

Well Name FREE UNIT 6H FREE UNIT 7H FREE UNIT 8H FREE UNIT 911 GILLEY UNIT 3H

API Well Number 4229735868 4229735869 4229735870 4229735871 4225535094

Site Name FREE UNIT FREE UNIT FREE UNIT FREE UNIT GILLEY UNIT

Field SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) EAGLEVILLE (EAGLE FORD -2)

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0 Address or Directions

County Live Oak Live Oak Live Oak Live aik Karris

State TX TX TX TX TX

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

N N N N N

V. specify.

Flowback Beginning (date/time) 06/24/17 10:00 06/24/17 10:00 06/24/17 11:00 06/24/17 11:00 03/05/17 06:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 06/27/17 00:00 06/27/17 06:00 06/27/17 06:00 06/27/17 06:00 03/08/17 18:00

Total Duration of Flowback

59 65 64 64 85

(hours)

Duration Well Vented to Atmosphere

A 0 0 0 0 0

(hours)

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 59 55 64 64 85

Specifye cihe theerpetaisoonn :7(''

-o t exception Listclaimed

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4.1 Explain why the well meets the claimed

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= Pilot inspected hourly? (Y/N) Y Y Y Y V

Any Deviation? (Y/N) N N N N N

If Y, attach records of deviation. Indicate

Attachment # here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

12 of 35

Well Name FRANKE UNIT 50211 FRANKE UNIT 503H FRANKE UNIT 8H FRANKE UNIT 911 FRANKE UNIT AC 7H

API Well Number 4225534898 4225534899 4225534902 4225534900 4225534897

Site Name FRANKE UNIT FRANKE UNIT FRANKE UNIT FRANKE UNIT FRANKE UNIT AC

Field SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (AUSTIN CHALK)

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o Address or Directions

County Karnes Karnes Karnes Karnes Karnes

State IX TX TX TX

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

N

Y, specify. N N N N

Flowback Beginning (date/time) 01/24/17 03:00 01/24/17 03:00 01/24/17 02:00 01/24/17 04:00 01/24/17 00:00

Flowback Reverted to Initial Stage (date/time) _

NA NA NA NA NA

Flowback Ending (date/time) 01/28/17 00:00 01/28/17 00:00 01/28/17 00:00 01/28/17 00:00 01/28/17 00:00

Total Duration of Flowback

94

(hours) 94 95 9 -3 97

Duration Well Vented to Atmosphere

A 0

(hours) 0 0 0 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 94 94 95 93 97

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:$1.. Specify the reason

List the exception claimed

t. Explain why the well meets the claimed

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_ Pilot inspected hourly? (Y/N) Y Y Y Y Y

Any Deviation? (Y/N) N N N N N

If Y, attach records of deviation. Indicate

Attachment # here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

11 of 35

Well Name DIRECT ASSETS UNIT AC 7H FRANKE MAY UNIT A 4H FRANKE MAY UNIT ASH FRANKE MAY UNIT A 6H FRANKE UNIT 501H

API Well Number 4225534773 4225534364 4225534365 4225534367 4225534896

Site Name DIRECT ASSETS UNIT AC FRANKE MAY UNIT A FRANKE MAY UNII A FRANKE MAY UNIT A FRANKE UNIT

Field SUGARKANE (AUSTIN CHALK) EAGLEVILLE (EAGLE FORD -2) FAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) SUGARKANE (EAGLE FORD)

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_i Address or Directions

Karnes Karnes Karnes Karnes Karnes County

State -rx TX TX IX

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

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Y, specify.

Flowback Beginning (date/time) 02/13/17 16:00 02/05/17 05:00 02/05/17 02:00 02/04/17 23:00 01/24/17 01:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 02/16/17 06:00 02/08/17 15:00 02/08/17 15:00 02/08/17 15:00 01/28/17 00:00

Total Duration of Flowback

63 83 86 89 96

(hours)

Duration Well Vented to Atmosphere

0 0 A

(hours) 0 0 0

B Duration Well Routed to a Flare (hours) 2 1 1 1 0

D Duration Well Routed to Flowline (hours) 61 82 85 88 96

.-,.^ Specify the reason

-a

-o List the exception claimed

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a, Explain why the well meets the claimed

Z exception

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Any Deviation? (Y/NI N N N N N

If Y, attach records of deviation. Indicate

Attachment 8 here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

10 of 35

Well Name DIRECT ASSETS UNIT 501H DIRECT ASSETS UNIT 503H DIRECT ASSETS UNIT 7H DIRECT ASSETS UNIT 8H DIRECT ASSETS UNIT 9H

API Well Number 4225534772 .

4225534774 4225534730 4225534731 4225534733

Site Name DIRECT ASSETS UNIT DIRECT ASSETS UNIT DIRECT ASSETS UNIT DIRECT ASSETS UNIT DIRECT ASSETS UNIT

Field SUGARKANE (AUSTIN CHALK) SUGARKANE (AUSTIN CHALK) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD)

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-i Address or Directions

County Karnes Karnes Karnes Karnes Karnes

State Tx TX Tx TX TX

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

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V. specify. N N N N

Flowback Beginning (date/time) 02/13/17 13:00 02/13/17 10:00 02/13/17 16:00 02/13/17 13:00 02/13/17 16:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 02/16/17 18:00 02/16/17 18:00 02/16/17 18:00 02/16/17 18:00 02/16/17 18:00

Total Duration of Flowback

78

(hours) 81 75 78 75

Duration Well Vented to Atmosphere

A 0

(hours) 0 0 o o

B Duration Well Routed to a Flare (hours) 2 3 2 2 2

D Duration Well Routed to Flowline (hours) /6 78 73 76 73

Specify the reason ....t

List the exception claimed

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t_- Pilot inspected hourly? (Y/N) Y Y Y Y V

Any Deviation? (Y/N) N N N N N

If Y, attach records of deviation. Indicate

Attachment 8 here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

9 of 35

Well Name DAVILA UNIT 6H DAVILA UNIT 7H DAVILA UNIT AC 25H DAVILA UNIT AC 2H DAVILA UNIT AC 4H

API Well Number 4225534954 4225534956 4225534837 4225534840 4225534953

Cite NAMP DAVILA UNIT DAVILA UNIT DAVILA UNIT AC DAVILA UNIT AC DAVILA UNIT AC

Field SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (AUSTIN CHALK) SUGARKANE (AUSTIN CHALK) SUGARKANE (AUSTIN CHALK)

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County Karnes Karnes Karnes Karnes Karnes

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Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

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V. specify.

Flowback Beginning (date/time) 12/29/16 01:00 12/29/16 04:00 12/22/16 10:00 12/22/16 15:00 12/29/16 03:00 AM

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 12/31/16 06:00 01/01/17 00:00 12/25/16 09:00 12/25/16 09:00 12/31/16 06:00 AM

Total Duration of Flowback

54 69 72 67 52

(hours)

Duration Well Vented to Atmosphere

0 0 A

(hours) 0 0 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 54 69 72 67 52

Specify the reason az.

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tExplain why the well meets the claimed

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- Pilot inspected hourly? (Y/N) Y 7 Y r r

Any Deviation? (Y/N) N N N N N

If Y, attach records of deviation. Indicate

Attachment 8 here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

8 of 35

Well Name DAVILA UNIT 4H DAVILA UNIT 50111 DAVILA UNIT 503H DAVILA UNIT 505H DAVILA UNIT SH

API Well Number 4225534841 4225534838 4225534951 4225534955 4225534952

Site Name DAVILA UNIT DAVILA UNIT DAVILA UNIT DAVILA UNIT DAVILA UNIT

Field SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD)

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Wildcat/ Delineation/ Low-pressure? (Y/N) If

Y, specify. N N N

Flowback Beginning (date/time) 12/22/16 11:00 12/22/16 09:00 12/29/16 06:00 12/29/16 05:00 12/29/16 01:00

Flowback Reverted to Initial Stage (date/time) NA NA NA --

NA NA

Flowback Ending (date/time) 12/25/16 09:00 12/25/16 09:00 12/31/16 06:00 01/01/17 00:00 01/01/17 00:00

Total Duration of Flowback

71

(hours) 73 49 68 72

Duration Well Vented to Atmosphere

A 0

(hours) 0 0 0 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) /1 73 49 68 72

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Explain why the well meets the daimed

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Any Deviation? (Y/N) N N N N N

If Y, attach records of deviation. Indicate

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8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

701 35

Well Name DAVILA GRAHAM UNIT 503H DAVILA GRAHAM UNIT SH DAVILA GRAHAM UNIT AC 4H DAVILA GRAHAM UNIT AC 6H DAVILA UNIT 3H

API Well Number 4225534890 4225534891 4225534888 4225534892 4225534839

Site Name DAVII A GRAHAM t INIT DAVII A GRAHAM UNIT DAVILA GRAHAM UNIT AC DAVILA GRAHAM UNIT AC DAVILA UNIT

Field SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (AUSTIN CHALK) SUGARKANE (AUSTIN CHAl K) SUGARKANE (EAGLE FORD)

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Flowback Beginning (date/time) 04/30/17 22:00 04/30/17 22:00 04/30/17 22:00 04/30/17 22:00 12/22/16 07:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 05/04/17 18:00 05/04/17 18:00 05/04/17 18:00 05/04/17 18:00 12/25/16 09:00

Total Duration of Flowback

93 93 93 93 75

(hours)

Duration Well Vented to Atmosphere

0 0 0 0 A

(hours) 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 93 93 93 93 75

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If Y, attach records of deviation. Indicate

Attachment # here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

6 of 35

Well Name CULBERSON-PATTESON UNIT 2H CULBERSON-PATTESON UNIT CULBERSON-PATTESON UNIT

DAVILA GRAHAM UNIT 3H DAVILA GRAHAM UNIT 4H

501H 502H

API Well Number 4225534876 4225534877 4725534853 422553488/ 4225534889

Site Name CULBERSON-HUGHES UNIT CULBERSON-HUGHES UNIT CULBERSON-HUGHES UNIT DAVILA GRAHAM UNIT DAVILA GRAHAM UNIT

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD)

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County Karnes Karnes Karnes Karnes Karnes

State TX TX TX TX TX

Latitude 0) (

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Wildcat/ Delineation/ Low-pressure? (Y/N) If '

N

Y, specify. N N N N

Flowback Beginning (date/time) 03/14/17 13:00 03/14/17 14:00 03/14/17 14:00 04/30/17 22:00 04/30/17 22:00

Flowback Reverted to Initial Stage (date/time) _

NA NA NA NA NA

Flowback Ending (date/time) 03/17/17 18:00 03/17/17 18:00 03/17/17 18:00 05/04/17 18:00 05/04/17 18:00

Total Duration of Flowback

78

(hours) II 77 93 93

Duration Well Vented to Atmosphere

A 0

(hours) 0 0 0 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 78 77 77 93 93

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Any Deviation? (Y/N) N N N N N

If V. attach records of deviation. Indicate

Attachment # here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

Sot 35

Well Name CHILDRENS-WESTON UNIT 151-1 CHILDRENS-WESTON UNIT 5041- CULBERSON-HUGHES UNIT 2H CULBERSON-HUGHES UNIT 3H CULBERSON-HUGHES UNIT 4H

API Well Number 4225534847 4225534848 4225535124 4225535125 4225535126

Site Name CHILDRENS WESTON UNI I CHILDRENS WESTON UNIT CULBERSON-HUGHES UNIT CULBERSON-HUGHES UNIT CULBERSON-HUGHES UNIT

Field SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2)

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0 Address or Directions

County Karnes Karnes Karnes Karnes Karnes

State TX IX TX TX TX

Latitude b)

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

V. specify. N N N N N

Flowback Beginning (date/time) 02/13/17 10:00 02/13/17 10:00 04/15/17 12:00 04/15/17 12:00 04/15/17 12:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 02/16/17 15:00 02/16/17 15:00 04/18/17 06:00 04/18/17 06:00 04/18/17 06:00

Total Duration of Flowback

78 78 67 67 67

(hours)

Duration Well Vented to Atmosphere

0 0 0 0 A

(hours) 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 78 78 67 67 67

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List the exception claimed

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Any Deviation? (Y/N) N N N N N

If V. attach records of deviation. Indicate

Attachment 8 here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

4 of 35

Well Name CHAPMAN ROTHE UNIT 511 CHAPMAN ROTHE UNIT 6H CHAPMAN ROTHE UNIT 7H CHILDRENS WESTON UNIT 503H CHILDRENS-WESTON UNIT 11H

API Well Number 4201335419 4201335420 4201335421 4225534850 4225534849

Site Name CHAPMAN ROTHE UNIT CHAPMAN ROTHE UNIT CHAPMAN ROTHE UNIT CHILDRENS WESTON UNIT CHILDRENS WESTON UNIT

Field EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD)

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...; Address or Directions

County Atascosa Atascosa Atascosa Karnes Karnes

State TX TX Tx

.

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

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Y, specify. TI N N N

Flowback Beginning (date/time) 05/05/17 05:00 05/05/17 05:00 05/05/17 05:00 02/13/17 11:00 02/13/17 11:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 05/08/17 18:00 05/08/17 18:00 05/08/17 18:00 02/16/17 15:00 02/16/17 15:00

Total Duration of Flowback

86

(hours) 86 86 77 77

Duration Well Vented to Atmosphere

A 0

(hours) 0 0 0 0

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 86 86 86 77 77

Specify the reason ...t

- List the exception claimed

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Any Deviation? (Y/N) N N N N N

If V. attach records of deviation. Indicate

Attachment It here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

3 of 35

Well Name BRYSCH-JONAS UNIT 504H BRYSCH-JONAS UNIT 505H BRYSCH-JONAS UNIT SH CHAPMAN ROTHE UNIT 2H CHAPMAN ROTHE UNIT 3H

API Well Number 4225534997 4225534998 4225534995 4201335411 4201335412

Site Name BRYSCH-JONAS UNIT BRYSCH-JONAS UNIT BRYSCH-JONAS UNIT CHAPMAN ROTHE UNIT CHAPMAN ROTHE UNIT

Field EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -2) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1)

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_i Address or Directions

County Karnes Karnes Karnes Atascosa

_ Atascosa

State TX TX TX TX TX

Latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

N N N N N

Y, specify.

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Flowback Beginning (date/time) 12/08/16 01:00 12/08/16 01:00 12/08/16 00:00 05/06/17 21:00 05/06/17 21:00

,

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 12/12/16 00:00 12/12/16 00:00 12/12/16 00:00 05/10/17 00:00

05/10/17 00:00

Total Duration of Flowback

96 96 97 76 76

(hours)

,

Duration Well Vented to Atmosphere

0 0 A

(hours) 0 0 0

.

B Duration Well Routed to a Flare (hours) 0 0 0 0 0

D Duration Well Routed to Flowline (hours) 96 96 97 76 76

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....eit Specify the reason

-o List the exception claimed .

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.... Explain why the well meets the claimed

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Any Deviation? (Y/N) N N N N. , N

If Y, attach records of deviation. Indicate

Attachment 8 here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

2 of 35

Well Name BARNHART 33H BARNHART 34H BARNHART 35H BARNHART 36H BRYSCH-JONAS UNIT 4H

API Well Number 4217733620 4217733621 4217733619 4217733618 4225534996

Site Name BARNHART BARNHART BARNHART BARNHART BRYSCH-JONAS UNIT

Field EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -1) EAGLEVILLE (EAGLE FORD -2)

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..., Address or Directions

County Gonzales Gonzales Gonzales Gonzales Karnes

State I.

Latitude

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Wildcat/ Delineation/ Low-pressure? (Y/N) If

N N N N N

V. specify.

Flowback Beginning (date/time) 02/18717 14:00 02/18/17 12:00 02/18/17 12:00 02/18/17 15:00 12/08/16 01:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 02/21/17 15:00 02/21/17 15:00 02/21/17 15:00 02/21/17 15:00 12/12/16 00:00

Total Duration of Flowback

74 76 76 73 96

(hours)

Duration Well Vented to Atmosphere

A

(hours) 0 0 0 0 0

B Duration Well Routed to a Flare (hours) 1 1 1 1 0

D Duration Well Routed to Flowline (hours) 73 75 75 72 96

Specify the reason ...,-..

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-0 List the exception claimed

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Any Deviation? (Y/N) N N N N N

If Y, attach records of deviation. Indicate

Attachment 8 here.

8/2/16-8/1/17 Compliance Report

October 25, 2017 Marathon Oil EF LLC

Appendix B - Gas Well Affected Facilities

Well Name BAILEY-RETZLOFF UNIT 4H BAILEY-RETZLOFF UNIT SH BAILEY-RETZLOFF UNIT 6H BAILEY-RETZLOFF UNIT 7H BAILEY-RETZLOFF UNIT AC 3H

API Well Number 4225535130 4225535129 4225535128 4225535127 4225535131

Site Name BAILEY-RETZLOFF UNIT RAil FY-RFT7I OFF UNIT BAILEY-RETZLOFF UNIT BAILEY-RETZLOFF UNIT BAILEY-RETZLOEE UNIT AC

Field SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (EAGLE FORD) SUGARKANE (AUSTIN CHALK)

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0 Address or Directions

County Karnes Karnes Karnes Karnes Karnes

State TX TX -rx TX TX

latitude

Longitude

Wildcat/ Delineation/ Low-pressure? (Y/N) If

V. specify. N N N N N

Flowback Beginning (date/time) 04/08/17 04:00 04/08/17 05:00 04/08/17 05:00 04/08/17 08:00 04/08/17 05:00

Flowback Reverted to Initial Stage (date/time) NA NA NA NA NA

Flowback Ending (date/time) 04/11/17 18:00 04/11/17 18:00 04/11/17 18:00 04/11/17 18:00 04/11/17 18:00

Total Duration of Flowback

87 86 86 83 86

(hours)

A Duration Well Vented to Atmosphere

o o o o 0

(hours)

B Duration Well Routed to a Flare (hours) 0 o o o 0

D Duration Well Routed to Flowline (hours) 87 86 86 83 86

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: -_- Pilot inspected hourly? (Y/N) N r r r r

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If V. attach records of deviation. Indicate

Attachment 8 here.

PetroQuest

EN,Roy,L,

March 27, 2018

U.S. EPA, Region 6

Compliance Assurance & Enforcement Division

Air Enforcement Br

1445 Ross Avenue, Suite 1200

Dallas, TX 75202-2733

R6WellComoletionQena.gov

RE: 40 CFR 60, Subpart 0000a - Annual Report

Reporting Period: 1/1/2017 through 12/31/2017

PetroQuest Energy, L.L.0

CN602981805

On behalf of PetroQuest Energy, L.L.0 (PetroQuest), and in accordance with 40 CFR

60.5420a, please find enclosed the corresponding report for the affected sources located in

Texas for the referenced owner/operator. This report covers the time period of 1/1/2017

through 12/31/2017.

If you have any questions or require additional information, please do not hesitate to contact

Nicholas Fitzmorris with HLP Engineering at 337-839-1075. All written correspondence

should be directed to: PetroQuest Energy, L.L.C, P.O. Box 51205, Lafayette, LA 70505, Attn:

Joe Fa!gout. Thank -you in advance for your assistance with this matter.

Sincerely,

PETROQUEST ENERGY, L.L.C.

Enclosures

40 CFR 60- SUBPART 0000a; ANNUAL REPORT

Reporting Period: 1/1/2017 to 12/31/2017

Generotinforrootion

Company Name: PetroQuest Energy, L.L.C.

Mulling Adds

Street: P.O. Box 51205

City: Lafayette

State: LA Zip Code: 70505

Responsibie OffIcWri

Name: Terry Broussard

Email: tbroussard@petroque5t.com Title:

Phone: Sr. Production Engineer

337-232-7028

Report Preporer

Name: Nicholas Fitzmorris

Email: nfitzmorris@hlpengineering.com Title:

Phone: Project Manager

337-839-1075

Veiled Facilities Maiden in this 'Wort?

Wells YES

Centrifugal Compressors NO

Reciprocating Compressors NO

Continuous Bleed Pneumatic Controllers NO

Storage Vessels NO

Pneumatic Pumps NO

Collection of Fugitive Emissions Components at a Well Site YES

Collection of Fugitive Emissions Components at a Compressor Station NO

Certification

I hereby certify that, based on information and belief formed after reasonable inquiry, the statements and Information in this document

are true, accurate, and complete.

Terry Broussard

Name of Responsible offidal

Signature of Respoiblible Official Sr. Production Engineer

Title

sfr-Vi

Date Signed

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SABLE

PERMIAN RESOURCES LLC

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Winona Henry, P.E., Regional Director

TCEQ Region 8 - San Angelo

622 S Oakes; Suite K

San Angelo TX 76903-7035 October 26, 2017

RE: Sable Permian Resources, LLC - Customer No: CN 604664235; 0000a Annual Reporting

Dear Ms. Henry:

Please find the attached records of compliance for the reporting period August 2, 2016 through August 1,

2017 for non -low pressure, non -delineation, and non -wildcat well affected facility requirements

[§60.5375a(a)(1) through (4)], and fugitive emissions components affected facility requirements

[§60.5420a(b)(7)].

If you have any questions related to this submittal please contact Mitch Masterson at (713) 579-8077 or

rnmasterson@sableres.com

I certify that I am a company official and based on information and belief formed after reasonable inquiry,

the statements and information in the document are true, accurate, and complete.

Sincerely,

Qop,

Craig Landry

Vice President Operations

CC: U.S. Environmental Protection Agency Region 6

Regional Administrator

1445 Ross Ave, Dallas, TX 75202

Enc: 0000a spreadsheets

700 MILANI ST, SUITE 3100 • HOUSTON, TX 77002 • [713) 579-8000

SABLE Flowback Report §60.5375a

October 2017

Date Well Shut In Time Well Shut In Duration of

Records of deviations Date of Each Time of Each and Flowback and Flowback Recovery in Hours •

Facility

where well completion Date of Onset of Time of Onset of Date of Each Time of Each

Occurrence of Occurrence of Equipment Equipment

Duration of (Not Required for

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Record No. •

operations with hydraulic Flowback Following Flowback Following Attempt to Direct Attempt to Direct

Returning to the Returning to the Permanently Permanently

Flowback In Hours • Wells Complying Recovery • Combustion in Hours

in Hours • in lieu of Capture or

(Select from United States Well fracturing were not Well Completion ID • Well Location • Hydraulic Fracturirg

• Hydraulic Fractudng

• Flowback to a

Separator • Flowback to a

Separator • Initial Flowback Initial Flowback Disconnected or the Disconnected or the

(§60.5420a(b)(2)(i) with (§60.5420a(b)(2)(1) •

(§60.5420a(b)(2)(i) Combustion •

dropdown Number" performed in compliance (§60.5420a(b)(2)(i) and (§60.5420a(b)(2)(i) and or Refracturing or Refracturing

Stage • Stage • Startup of Startup of

and §60.5375a(f)) and (§60.5420a(b)(2)(i)

and (§60.5420a(b)(2)(i)

list- may (§60.5420a(b)(1)(10) with the requirements §60.5420a(c)(1)(i)) §60.5420a(c)(1)011)(A)-(B)) (§60.5420a(b)(2)(1) (§60.5420a(b)(2)(i) (§60.5420a(b)(2)(0 (§60.5420a(b)(2)(i)

(560.5420a(b)(2)(i) (560.5420a(b)(2)(i) Production • Production •

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need to specified In § 60.5375a. • and

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1 WellId

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4 42-383-3959600

5 42-383-3959500

6 42-383-3962500

7 42-383-39626.00

8 42-383-39628-00

9 42-383-39511-00

10 42-383-39522-00

11 42-383-39489-00

12 42-383-39632-00

13 42-383-3963300

14 42-383-39674.00

15 42-383-38278-00

16 42-383-39811-00

17 42-383-39592-00 Deviation Desc

e.g.: On October 12, 2016, a

separator was not onsite

for the first 3 hours of the

flowback period.

None

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e.g.: Completion ABC

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University 10 RE 0606HS

Woods RE 1 218 12HA

University 10 RE 0632HE

University 10 RE 0620 HD

University IRE 104 33HK

University Unit 1 RE 104 32H

University Unit 1 RE 104 31H

University Unit 1 RE 104 38H

University Unit 1 RE 104 37H

Rocker B 20-21 30 HE

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University 11 RE 1007 HA

Chico West 2-1 107HA

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Cope 107-108 21H5 AffWeilLat AffiNellLong

e.g.: 34.12345 latitude,

-101.12345 longitude

,J) AftOnsetDate

e.g.: 10/16/16

9/16/16

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9/19/19

9/16/16

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7/31/17

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7/31/17

7/31/17

7/30/17

9/30/16

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10/31/16

8/10/17

3/8/17

5/10/17

2/8/17 AffOnsetTime

e.g.: 10 a.m.

11:10

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14:35

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e.g.: 10/16/16

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12:15 None None 9/18/16

14:35 None None 9/19/16

8:00 None None 8/23/17

8:00 None None 8/23/17

16:00 None None 8/23/17

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1021 None None 9/30/16

18:15 None None 11/2/16

18:15 None None 11/1/16

7:05 None None 8/22/17

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e.g.: 5 ecoveryHrs

e.g.: 5 ecoveryuesc

e.g.: Used as onsite

fuel e.g. 5 e.g.: 5 e.g: No onsite

storage or

combustion unit was

available at the time

of completion.

36:50 36:50 Sales 0 0 NA

118:40 118:40 Sales 0 0 NA

27:25 27:25 Sales 0 0 NA

35:45 35:45 Sales 0 0 NA

57:25 57:25 Sales 0 0 NA

544:00 544:00 Sales 0 0 NA

592:00 592:00 Sales 0 0 NA

536:00 536:00 Sales 0 0 NA

540:00 540:00 Sales 0 0 NA

568:00 568:00 Sales 0 0 NA

0:00 0:00 Sales 0 0 NA

48:45 48:45 Sales 0 0 NA

16:45 16:45 Sales 0 0 NA

256:55 256:55 Sales 0 0 NA

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Flowback Page 1

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ENVIRONMENTAL

October 27, 2017

TCEQ Region 16 (Laredo, Texas)

Attn: Mr. Arnaldo Lanese

- Air Section Manager

707 E Calton Rd, Ste 304

Laredo, TX 78041-3887 911 Regional Park Drive

Houston, Texas 77060

Tel. 281.872.9300

www.ntglobal.com

Re: 40 CFR Part 60 Subpart 0000a Annual Report - RY17

SN Operating, LLC

Dear Mr. Lanese,

In compliance with 40 CFR §60.5420a reporting requirements, SN Operating, LLC (SN Operating) is

submitting this annual report.

This report has been prepared based on information and data provided by SN Operating. If you have

any questions or need further information, please contact me at 281.872.9300 or by email at

klazo@ntglobal.com. All written correspondence should be sent to:

SN Operating, LLC

1000 Main Street, Suite 3000

Houston, Texas 77002

Attn: Ms. Leslie Reeves

Sincerely,

Kari Lazo

NTG Environmental

Attachments: 0000a Annual Report Certification Page

Fugitive Emissions Survey Data

Well Completion Data

cc: Ms. Leslie Reeves - SN Operating, LLC

EPA Region 6

Creating a Better Environment

For Oil & Gas Operations

40 CFR 60 SUBPART 0000a ANNUAL REPORT

GENERAL INFORMATION

Reporting Period: September 18, 2015 to August 1, 2017

Company Name: .,

SN Operating, LLC

Mailing Address:

Street:

City:

State: 1000 Main Street, Suite 3000

Houston County:

Texas Zip Code: 77002

TCEQ Region: 16 - Laredo

RESPONSIBLE OFFICIAL

Name: Leslie Reeves Title: 14--GALMTCal VI Kin Cla-

Email: Ireeves@sanchezog.com '

Phone: 832-742-3796

Certification Statement:

I hereby certify that, based on information and belief formed after reasonable inquiry, the

statem nts and information in this document are true, accurate, and complete.

.. 101•0121)1

Signature of Res,p le Official (late

Affected Facilities Included in Report

Fugitive Emissions Components Yes

High -bleed Pneumatic Controllors N/A

Oil and Gas Wells Yes

Pneumatic Pumps N/A

Reciprocating Compressors N/A

Storage Vessels - N/A

Fugitive Emission Component Affected Facilities

The facilities below are considered affected facilities for fugitive emission components. Therefore, fugitive emission surveys are required.

Deviations are being reported for these facilities since initial surveys were not completed by 6/3/2017.

Site Name County Latitude Longitude Facility Type

HARGIS 1H & 2H

JOHN HOLDSWORTH UNIT ZAV

NELSON UNIT A 1H & 2H

Petro Pards SH & 6H

Votaw 2H & 3H ZAVALA

ZAVALA

DIM MIT

ZAVALA

DIMMIT Well site

- Semiannual surveys required

Well site

- Semiannual surveys required

Well site - Semiannual surveys required

Well site - Semiannual surveys required

Well site

- Semiannual surveys required

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas _ Hz_ 2 New Well Completion

Oil PI El Recompletion

0 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date start Time End Time Flowback Flowline Separator Separator Comment

(mm/ddlyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

05/19-21/2016 4:00 AM 8:00 AM 52 .,

0 0 0 Initial Flowback Stage

05/21-06/8/2016 8:00 AM 1:00 PM 438 438 0 0 - Gas to Sales

06/86/2016 1:00 PM End 0 0 0 0 End of Flowback

-

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No, E33HB

I

42-479-43500 Well Type:

Gas

Oil Activity:

El New Well Completion

Lii Recompletion

, Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmidd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

05/20/2016 6:00 AM 3:00 PM 9 0 o 0 Initial Flowback Stage

05/20-06/9/2016 3:00 PM 7:00 PM 484 484 o 0 Gas to Sales

06/09/2016 7:00 PM End o o o 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43493 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E New Well Completion

Oil Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicid/vvvY) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

05/20-05/21/2016 6:00 AM 8:00 AM 26 0 0 0 . Initial Flowback Stage

05/21-06/10/2016 8:00 AM 11:00 AM. , 483 483 0 0 Gas to Sales

06/10/2016 11:00 AM 9:00 PM 0 0 0 0.Well Shut In for Maintenance

06/10-06/12/2016 9:00 PM 12:00 PM, 40 40 0 0 Gas to Sales

06/12/2016 12:00 PM End 0 0 0 0 End of Flowback

The followirg deviations occurred during this well flc.)wback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type:

Oil Gas Activity:

E New Well Completion

Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(m mid diyyvy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

02/25/2016 2:00 AM 5:00 PM 15 0 0 0 Initial Flowback Stage

02/25/2016-03/20/2016 5:00 PM 4:00 PM 575 575 0 0 Gas to Sales

03/20/2016 4:00 PM End 0 0 0 0 End of Flowback

The followilg deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43446 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas LI New Well Completion

Oil E E Recompietion

Li Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Fiowline Separator Separator Comment

(mm/ddhyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

02/26/2016 2:00 AM 10:00 AM 8 _

0 0 0 Initial Flowback Stage

02/26/2016-03/20/2016 10:00 AM 5:00 PM_ 559 559_ 0 0 Gas to Sales

03/20/2016 5:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

42-479-43445 Well Type: Activity:

Gas E New Well Completion

Oil P1 Recompletion

Fl Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicid/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

02/27/2016 12:00 AM 5:00 AM 5 0 0 0 Initial Flowback Stage

02/27/2016-03/20/2016 5:00 AM 4:00 PM 539 539 0 0 Gas to Sales

03/20/2016 4:00 PM End 0 0 0 0 End of Flowback

The followirg deviations occurred during this well fiowbock operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

42-479-43444 Well Type:

Oil LI Gas Activity:

E New Well Completion

Fl Recompletion

7 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicklivyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

02/27/2016 1:00 AM 8:00 PM 19, 0 0 0 Initial Flowback Stage

02/27/2016-03/20/2016 8:00 PM 1:00 PM 521, 521 0 0 Gas to Sales

03/20/2016 1:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil Activity:

H New Well Completion

E Recompletion

El Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmidd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

02/23-25/2016 11:00 PM 1:00 AM 26 0 0 0 Initial Flowback Stage

02/25/2016 1:00 AM 3:00 AM 2 2 0 0 Gas to Sales

02/25/2016 3:00 AM 5:00 AM, 2 0 0 0 High Line Pressure

02/25/2016-03/22/2016 5:00 AM 5:00 PM 636 636 0 0 Gas to Sales

03/22/2016 5:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43455 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E] New Well Completion

Oil Recompletion

fl Re -fracture

,

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicid/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

02/25-26/2016 5:00 AM 11:00 AM 30 0 0 0 Initial Flowback Stage

02/26/2016-03/23/2016 11:00 AM 4:00 PM 630 630 0 0 Gas to Sales

03/23/2016 4:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Pilonrillo No. E21HC

(b) k,..

42-479-43454 Well Type:

Gas

Oil Activity:

2 New Well Completion

Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicid/ywy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

02/25-26/2016 11:00 PM 8:00 AM 9 0 0 0 Initial Flowback Stage

02/26/2016-03/22/2016 8:00 AM 4:00 PM 609 609 0 0 Gas to Sales

03/22/2016 4:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation.

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil Activity:

O New Well Completion

• Recompletion

• Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

02/28/2016 3:00 AM 2:00 PM 11 0 0 0 Initial Flowback Stage

02/28/2016-03/22/2016 2:00 PM 4:00 PM, 555 555 0 0 Gas to Sales

03/22/2016 4:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowbock operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43452 Well Completion Affected Facility

Annual Report Information

Well Type:

Gas EI

Oil Activity:

jji New Well Completion

Recompletion

0 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date ' Start Time End Time Flowback Flowline Separator Separator Comment

(mmicidiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

02/28/2016 1:00 AM 8:00 AM 7 0 0 0 Initial Flowback Stage

02/28/2016-03/22/2016 8:00 AM, 4:00 PM 561 561 0 0 Gas to Sales

03/22/2016 4:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil Activity:

New Well Completion

UI Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time flowback Flowline Separator Separator Comment

(mmiddiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

07/29-08/4/2017 23:00 12:00 134 o o 0 Intital Flowback Stage

08/04/2017 12:00 14:00 7 o o 2 Gas Being Vented

08/4-30/2017 14:00 9:00, 619 619 0 0 Gas to Sales

—

08/30/2017 9:00 End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation.

Date Reason for deviation:

Location and Well Information

Cornpany:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42479-43661 Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil Activity:

E New Well Completion

El Recompletion

0 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiclayyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

07/30-08/6/2017 22:00 9:00 156 0 0 0 Initial Flowback Stage

08/6-30/201 / 9:00 9:00 576 576 0 0 Gas to Sales

08/30/2017 9:00 End 0 0 0 0 End Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

Piloncillo No. E20HE

(b) (C°

42-479-43660 Well Type:

Gas

Oil 7 Activity:

ID New Well Completion

Recompletion

n Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

07/31-08/5/2017 21:00 10:00 110 0 0 0 Initial Fowback Stage

08/05/2017 10:00 12:00 2 0 2 0 Building Pressure

08/5-30/2017 12:00 9:00 597 597 0 0 Gas to Sales

08/30/2017 9:00 End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43326 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas H New Well Completion

Oil El Recompletion

LI Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

04/07/2016 1:00 AM• 5:00 AM 4 0 0 0 Initial Flowback Stage

04/07-23/2016 5:00 AM 8:00 PM 400 400 0 0 Gas to Sales

04/23/2016 8:00 PM End 0 0 0 0 End of Flowback

The followilg deviations occurred during this well flowback operation:

Date Reason for deviation:

Well Completion Affected Facility

Annual Report Information

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43325 Well Type: Activity:

Gas 2 - New Well Completion

Oil 1=1 Recompletion

I Re -fracture

I Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mrri/dci/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

04/08/2016 3:00 AM 5:00 AM _

2 0 0 0 Initial Flowback Stage

04/08-23/2016 5:00 AM 8:00 PM 376 376 0 0 Gas to Sales

04/23/2016 8:00 PM End 0_ 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43324 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas New Well Completion

Oil Recompletion

17 Re -fracture

Liuration (at Gas iiiifation ot

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicid/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

04/08-13/2016 11:00 PM 7:00 PM 116 0 0 0 Initial Flowback Stage

04/13-29/2016 7:00 PM 7:00 AM 372 3/2 0 0 Gas to Sales

04/29/2015 7:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Well Completion Affected Facility

Annual Report Information

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43323 Well Type: Activity:

Gas L New Well Completion

Oil C.: Recompletion

L. Re -fracture

'

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/VYVV) (hh:mm) (hh:mm) (hours)

, (hours) (hours) (hours)

04/10-12/2016 12:00 AM 7:00 PM 67 0 0 0 Initial Flowback Stage

04/12-29/2016 7:00 PM 7:00 AM 397 397 o o Gas to Sales

04/29/2016 7:00 AM End o 0 o 0 End of Flowback

The followilg deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43322 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas L1 New Well Completion

Oil E LI Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicid/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

04/10-13/2016 9:00 AM 8:00 AM 80 0 0 0 Initial Flowback Stage

04/13-29/2016 8:00 AM 7:00 AM 382 382 0 0 Gas to Sales

04/29/2016 7:00 AM End 0 0 0 0 End of Flowback

The follow.ng deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil Ci Activity:

12 New Well Completion

Li Recompletion

0 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmidayyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

—

07/29-08/05/2017 13:00 12:00 167 0 0 0 Initial Flowback

—

08/05-30/2017 12:00 10:00 599 599 0 0 Gas to Sales

08/30/2017 10:00 End 0 0 0 0 End of Report

—

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil Activity:

New Well Completion

Recompletion

Re -fracture

T

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dayyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

07/29-08/05/2017 20:00 12:00. . 160 o o 0 Initial Flowback

08/05-28/2017 12:00 18:00, 559 559 0 0 Gas to Sales

08/28/2017 18:00 End 0 0 0 0 End of Report

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Gas

Oil Well Completion Affected Facility

Annual Report Information

Well Type:

0 Activity:

.E New Well Completion

Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

07/31-08/06/2017 3:00 10:00 151, 0 0 0 Initial Flow back

08/06/2017 10:00 13:00 3 3 0 0 Gas to Sales

08/06-10/2017 13:00 11:00 94 0 0 0 Return to Initial Flowback

08/10-30/2017 11:00 10:00 480 480 0 0 Gas to Sales

08/30/2017

, 10:00 End 0 0 0 0 End of Report

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43650 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas --1

2_, E New Well Completion

Oil El E Recompletion

El Re -fracture

Date

(rnmidd/YVYV) Start Time

(hh:mm) End Time

(hh:mm) Duration of

Flowback

(hours) Duration of Gas

Recovery from

Separator to

Flowline

(hours) Duration of

Combustion of

Gas from

Separator

(hours) Duration of

Venting from

Separator

(hours) Comment

08/01-7/2017 9:00 10:00 145 0 0 0 Initial Flowback

08/07-10/2017 10:00 21:00 83 83 0 0 Gas to Sales

08/10-11/2017 21:00 9:00 12 0 0 0 Return to Initial Flowback

08/11-14/2017 9:00 3:00 66 66 0 0 Gas to Sales

08/14/2017 3:00 4:00 1 0 0 0 Return to Initial Flowback

08/14-30/2017 4:00 10:00, 391 391 0 0 Gas to Sales

08/30/2017 10:00 End o o o 0 End of Report

The followmq deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43649 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas A New Well Completion

Oil E 0 Recompletion

_ Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

08/01-08/2017 21:00 15:00 162 0 0 0 Initial Flowback

08/08-30/2017 15:00 10:00 524 524 0 0 Gas to Sales

08/30/2017 10:00 End ,

0 0_ 0 0 End of Report

The folk:wing deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43648 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas New Well Completion

Oil E Recompletion

Re -fracture

Date

(mmicld/yyyy) Start Time

(hh:mm) End Time

(hh:mm) Duration of

Flowback

(hours) Duration of Gas

Recovery from

Separator to

Flowline

(hours) Duration of

Combustion of

Gas from

Separator

(hours) Duration of

Venting from

Separator

(hours) Comment

08/02-07/2017 1:00 10:00 130 0 0 0 ,Initial Flowback

08/07-24/2017 10:00 14:00 413 413 0 0 Gas to Sales

08/24/2017 14:00 16:00 2 0 0 0 Return to Initial Flowback

8/24-26/2017 16:00 8:00 40 0 0 0 Shut In Well

8/26-27/2017 8:00 8:00 24 0 0 0 Initial Flowback

8/27-30/2017 8:00 _

11:00 75 75 o 0 Gas to Sales

08/30/2017 11:00 End 0 o o 0 End of Report

The folio:Nina deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43561 Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil E Activity:

1 New Well Completion

Recompletion

1 Re -fracture

Date

(nun/cid/my) Start Time

(hh:mm) End Time

(hh:mm) Duration of

Flowback

(hours) Duration of Gas

Recovery from

Separator to

Flowline

(hours) Duration of

Combustion of I Duration of

Gas from Venting from

Separator Separator

(hours) (hours) Comment

09/26 - 09/29/2016 21:00 10:00 61 0 0 0 Initial Flowback

09/29/2016 10:00 11:30 1.5 0 0 1.5 Gas to Open Top Tank

09/29/2016 11:30 12:00 0.5 0.5 0 0 Gas to Sales

09/29/2016 12:00 13:00 1 0 0 1 Gas to Open Top Tank

09/29

- 10/16/2016 13:00 6:00 402 402 0. 0 Gas to Sales

10/16/2016 6:00 End 0 0 0 0 End of Report

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43560 Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil El Activity:

7 New Well Completion

E Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

09/27-30/2016 21:00 3:00 55 0 0 0 Initial Flowback

9/30-11/02/2016 3:00 11:00 800 800 0 0 Gas to Sales

11/02/2016 11:00 End_ 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43558 Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil 0 Activity:

E New Well Completion

LII Recompletion

0 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

09/28-29/2016 22:00 15:00 18 0 0 0 Initial Flowback

9/29-11/03/2016 15:00 11:00 836 836 0 0 Gas to Sales

11/03/2016 11:00 End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation.

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

42-479-42138 Well Type: Activity:

Gas E New Well Completion

Oil E Recompletion

E Re -fracture

Date

(mmicid/yyvv) Start Time

(hh:mm) End Time

(hh:mm) Duration of

Flowback

(hours) Duration of Gas

Recovery from

Separator to

Flowline

(hours) Duration of

Combustion of

Gas from

Separator

(hours) Duration of

Venting from

Separator

(hours) Comment

10/10-11/2015 23:00 13:00, 15 0 o 0 Initial Flowback Stage

10/11-12/2015 13:00 /:00 0 0 0 0 Well Shut In -Building Pressure

10/12/2015 7:00 9:00, 2 0 0 0 Initial Flowback Stage

10/12/2015 9:00 12:00 0 0 0 0 Well Shut In

10/12/2015 12:00 13:00 1 0 0 0 Initial Flowback Stage

10/12/2015 13:00 14:00 0 0 0 0 Well Shut In

10/12-14/2015 14:00 8:00 41 0 0 0 Initial Flowback Stage

10/14/2015 8:00 15:00 o o o o Well Shut In -Maintenance

10/14-15/2015 15:00 0:00 9 0 0 0 Initial Flowback Stage

10/15-11/08/2015 0:00 17:00 593 593. 0 0 Gas to Sales

11/08/2015 17:00 End 0 0 0 0 End of Flowback

The followina deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No. D17HY

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42 479-42132 Well Type:

Gas

Oil LI Activity:

2 New Well Completion

I I Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

10/10/2015 11:00 PM 4:00 AM 5 0 0 0 Initial Flowback Stage

10/10-28/2015 4:00 AM 4:00 PM 420 420 0 0 Gas to Sales

10/28/2015 4:00 PM 5:00 PM 0 0 0 0 Well Shut In for Maintenance

10/28-11/05/2015 5:00 PM 5:00 PM 193 193 0 0 Gas to Sales

11/05/2015 5:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-47942137 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E New Well Completion

Oil 111 Recompletion

LI Re -fracture

Date

(mm/dd/yyyy) Start Time

(hh:mm) End Time

(hh:mm) Duration of

Flowback

(hours) Duration of Gas

Recovery from

Separator to

Flowline

(hours) Duration of

Combustion of

Gas from

Separator

(hours) Duration of

Venting from

Separator

(hours) Comment

10/12/2015 2:00 AM 1:00 PM 11 0 0 0 Initial Flowback Stage

10/12/2015 1:00 PM 3:00 PM 2 0 0 2 Gas being Vented

10/12-11/02/2015 3:00 PM, 9:00 AM 501 501 0 0 Gas to Sales

11/02/2015 900 AM 11:00 AM 0 0 0 0 Well SI for Maintenance

11/02/2015 11:00 AM 12:00 PM 1 1 0 0 Gas to Sales

11/02/2015 12:00 PM 1:00 PM 0 0 0 0 Well Shut In for Maintenance

11/2-05/2015 1:00 PM 5:00 PM 77 77 0 0 Gas to Sales

11/05/2015 5:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred durrlq this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479 -42 136 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas I 7 New Well Completion

Oil Li Recompletion

0 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddAryyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

10/13/2015 12:00 AM 10:00 AM 10 0 0 0 Initial Flowback Stage

10/13-08/2015 10:00 AM 6:00 PM 632 632 0 0 Gas to Sales

11/08/2015 6:00PM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Informatior

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, [LC

16

Piloncillo No. D17HF

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42-479-41818 Well Type:

Gas

Oil Activity:

-0 New Well Completion

Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddhyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

08/16-21/2017 11:00 PM 8:00 AM 106 0 0 0 Initial Flowback Stage

,

08/21-09/07/2017 8:00 AM 7:00 AM 418 418 0 0 Gas to Sales

09/07/2017 7:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region;

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

42-479-41817 Gas

Oil Well Type:

E] Activity:

E New Well Completion

Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dayyyy) (hh:rnm) (hh:mm) (hours) (hours) (hours) (hours)

08/17

- 08/20/701/ 17:00 13:00 68 0 0 0 Initial Flowback

08/20

- 09/07/2017 13:00 18:00 438 438 0 0.Gas to Sales

09/07/2017 18:00 End o 0 o 0 End of Report

The followinc deviations occurred chring this well &whack operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

42-479-41812 Well Type: Activity:

Gas Ti New Well Completion

Oil H Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicid/VrAl) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

08/19-08/21/2017 6:00 PM 10:00 AM 40 0 0 0 . Initial Flowback Stage

08/21/2017 10:00 AM 11:00 AM 1 0 0 1 _ Gas Vented

08/21-09/09/2017 11:00 AM 7:00 AM 452 452 0 0 . Gas to Sales

09/09/2017 7:00 AM End 0_ 0 0 0 _ End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43206 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E New Well Completion

Oil El D Recompletion

0 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

09/15/2015 3:00 AM 3:00 AM 3 0 o 0 Initial Flowback Stage

09/15/2015 5:00 AM 6:00 AM 1 1 0 0 Gas to Sales

09/15/2015 6:00 AM 4:00 PM 10 0 0 10 Build Gas Pressure

09/15-10/03/2015 4:00 PM 4:00PM 432 432 0 0 Gas to Sales

10/03/2015 4:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42479-43205 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E New Well Completion

—

Oil fl Li Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/cIdivvvv) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

09/15-09/16/2015 11:00 PM 2:00 AM 3 0 0 0 Initial Flowback Stage

09/1640/15/2015 2:00 AM 11:00 AM 706 706 0 0 Gas to Sales

10/15/2015 11:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Well Completion Affected Facility

Annual Report Information

Location and Well Information

Company: I SN Operating, Li_C

TCEQ Region: I 16

Location Name I Piloncillo No. D16HC

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: I 42-479-43203 Well Type: Activity:

Gas :[7, New Well Completion

Oil [111 Recompletion

111 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

09/16/2015 2:00 AM 7:00 AM 5 0 0 0 Initial Flowback Stage

9/16-10/3/2015 7:00 AM 4:00 PM 417 417 0 0 Gas to Sales

10/03/2015 4:00 PM End 0 0_ 0 0 End of Howback

_

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43315 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E New Well Completion

Oil 0 Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(min/cid/TAM (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

09/08/2015 3:00 AM 5:00 AM 2 0 0 0 Initial Flowback Stage

9/8-22/2015 5:00 AM 11:00 AM 343 343 0 0 Gas to Sales

9/22-24/2015 11:00 AM 7;00 AM 44 0 44, 0 Full Wellstream to Sales

09/24/2015 7:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Well Completion Affected Facility

Annual Report Information

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43314 Well Type: Activity:

Gas 2 El New Well Completion

Oil LI E Recompletion

C Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicidblyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

09/7-08/2015 11:00 PM 4:00 AM 5 0 0 0 Initial Flowback Stage

9/8-21/2015 4:00 AM 12:00 AM 332 332 0 0 Gas to Sales

9/22-24/2015 12:00 AM 7:00 AM 56 56 0 0 Full Wellstream to Sales

09/24/2015 7:00 AM End 0 0 0 0 End of Flowback

The AV/owl:7g deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-41618 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas El New Well Completion

Oil 0 2 Recompletion

CI Re -fracture

Date

(mmicid/yyyy) Start Time

(hh:mm) End Time

(hh:mm) Duration of

Flowback

(hours) Duration of Gas

Recovery! from

Separator to

Flowline

(hours) Duration of

Combustion of

Gas from

Separator

(hours) Duration of

Venting from

Separator

(hours) Comment

09/02-04/2015 6:00 AM 3:00 AM 45 0 o 0 Initial Flowback Stage

09/04-09/2015 3:00 AM 10:00 AM 127 127 o 0 Gas to Sales

09/09-16/2015 10:00 AM 11:00 AM o o o 0 Well Shut -In for Maintenance

09/09-16/2015 10:00 AM 11:00 AM 165 165 0 0 Gas to Sales

09/16-21/2015 8:00 AM 10:00 AM 122 122 0 0 Full Wellstream to Sales

09/21/2015 10:00 AM _ End o o 0 0 End of Flowback

The followina deviations occurred during this well flowbnck operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43292 Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil Activity:

E New Well Completion

Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/ddAryyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

12/15/2015 5:00 AM 9:00 AM 4 0 0 0 Initial Flowback Stage

12/15/2015 9:00 AM 10:00 AM 2 0 2 0 Build Gas Pressure

12/15/2015-01/08/2016 10:00 AM 10:00 AM 575 575 0 0 Gas to Sales

01/08/2016 10:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type:

-FE

Oil Gas Activity:

New Well Completion

▪ Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmidd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

12/15/2015-01/06/2016 12:00 AM 4:00 PM 544 544 0 0 Gas to Sales

01/06-08/2016 4:00 PM 11:00 AM 43 43 0 0 Full Wellstream to Sales

01/08/2016 11:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred durng this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43290 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas [7] New Well Completion

Oil 0 Recompletion

0 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

12/14/2015 2:00 AM 6:00 AM, 4 0 0 0 Initial Flowback Stage

12/14/2015-01/04/2016 6:00 AM 6:00 AM, 504 504 0 0 Gas to Sales

01/04-08/2016 6:00 AM 10:00 AM 100 100 0 0 - Full Wellstream to Sales

01/08/2016 10:00 AM End 0 0 0 0 - End of Flowback

-

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No. D8FII-

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42-4/9-43289 Well Type:

Gas

Oil Activity:

D New Well Completion

Recompletion

ID Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

09/08/2015 3:00 AM_ 5:00 AM 2 0 0 0 Initial Flowback Stage

09/08-22/2015 5:00 AM, 12:00 PM 343 343 0 0 Gas to Sales

09/22-24/2015 12:00 PM 8.00 AM 44 44 0 0 Full Wellstream to Sales

09/24/2015 8:00 AM End 0 0 0 0 End of Flowback

The follawing deviations occurred during this well flowbock operation:

Date !Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type:

111

Oil 7 Gas Activity:

New Well Completion

LII Recompletion

7 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

12/12/2015-01/02/2016 9:00 AM 7:00 PM, 514 514, 0 0 Gas to Sales

01/02/2016 7:00 PM End 0 0 0 0 End of Flowback

The Jo/owing deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Type: Activity:

Gas New Well Completion

Oil Recompletion

E Re -fracture

Duration ot Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddhyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

12/15/2015 5:00 AM 9:00 AM 4 0 0 0 Initial Flowback Stage

12/15/2015 9:00 AM 10:00 AM 2 0 2 0 Build Gas Pressure

12/15/2015-

01/08/2016 10.00 AM 10:00 AM 575 575 0 0 Gas to Sales

01/08/2016 10:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

42-479-43288 Well Type: Activity:

Gas El New Well Completion

Oil 7 5 Recompletion

Li Re -fracture

Date

(mm/c1d/yyyy) Start Time

(hh:mm) End Time

(hh:mm) Duration of

Flowback

(hours) Duration of Gas

Recovery from

Separator to

Flowline

(hours) Duration of

Combustion of

Gas from

Separator

(hours) Duration of

Venting from

Separator

(hours) Comment

12/20-21/2015 11:00 PM 1:00 PM 14 0 0 0 Initial Flowback Stage

12/21/2015 1:00 PM ,

4:00 PM 3 3 0 0 Gas to Sales

12/21/2015 4:00 PM, 7:00 PM 3 0 0 0 Initial Flowback Stage

12/21/2015 01/05/2016 7:00 PM 1:00 PM 354 354 0 0 Gas to Sales

01/05-08/2016 1:00 PM 11:00 AM 71 71 0 0 Full Well Stream to Sales

01/08/2016 11:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowbock operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

Piloncillo No, D3HB

42-479-43287 Well Type:

Gas

Oil 7 Activity:

d New Well Completion

Li Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddhyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

12/20-21/2015 10:00 PM 11:00 PM 25 0 0 0 Initial Flowback Stage

12/21/2015-01/06/2016 11:00 PM 1:00 PM 374 374 0 0 Gas to Sales

01/06-08/2016 1:00 PM 12:00 PM 47 47 0 0 Full Wellstream to Sales

01/08/2016 12:00 PM End 0 0 0 0 End of Flowback

The followino deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43203 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E New Well Completion

Oil Recompletion

E. Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

09/16/2015 2:00 AM 7:00 AM 5 0 0 0 Initial Flowback Stage

9/16-10/3/2015 7:00 AM 4:00 PM 417 417 0 0 Gas to Sales

10/03/2015 4:00 PM End

_ End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42- 127-373 20 Well Completion Affected Facility

Annual Report Information

Well Type:

Gas 7.7

Oil Activity:

H New Well Completion

Recompletion

ri Re -fracture

I ,

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicid/ywy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

10/20-24/2016 2:00 16:00 110 0 0 0 Initial Flowback Stage

10/24/2016-11/05/2016 16:00 5;001 278 278 0 0 Gas to Sales

11/05/2016 5:00 End 0 0 0 0 End of Flowback

The fallowing deviations occurred during this well flowback operotion:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas [2_7, New Well Completion

Oil 7 Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiclayvyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

10/19-23/2016 23:00 11:00 84 0 0 0 Initial Flowback Stage

10/23/2016-11/09/2016 11:00 7:00 404 404 0 0 Gas to Sales

11/09/2016 7:00 End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil Activity:

7 New Well Completion

Recompletion

LI Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/cici/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

10/20-25/2016 4:00 8:00 124 0 0 0 Initial Flowback Stage

10/25/2016-11/01/2016 8:00 21:00 325 325 0 0 Gas to Sales

11/07/2016 21:00 End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No. B1HB

42-127-37317 Well Type:

Gas

Oil Activity:

HI New Well Completion

Li Recompletion

Li Re -fracture

Date

(mm/dd/yyyy) Start Time

(hh:mm) Duration of

End Time Flowback

(hh:mm) (hours) Duration of Gas

Recovery from

Separator to

Flowline

(hours) Duration of

Combustion of

Gas from

Separator

(hours) Duration of

Venting from

Separator

(hours) Comment

10/19/2016 7:00 16:001 9 0 o 0 Initial Flowback Stage

10/19/2016 16:00 20:001 4 o o 0 Well Shut -In

10/19-25/2016 20:00 9:00 134 0 o 0 Initial Flowback Stage

10/25-27/2016 9:00 8:00 47 47 o 0 Gas to Sales

10/27/2016 9:00 10:00 1 o o 1 Diverted to Frac Tank

10/27/2016-11/05/2016 10:00 22:001 229 229 0 0 Gas to Sales

11/05/2016 22:00 End o o o 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Cornpany:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

42-127-37286 Well Type: Activity:

Gas H New Well Completion

Oil D Eli Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(man/cid/my) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

08/24-30/2016 23:00 11:00 132_ 0 0 0 Initial Elowback Stage

08/30/2016-09/15/2016 11:00 9:00 383 383 0 0 Gas to Sales

09/15/2016 9:00 End 0 o o 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37285 Well Completion Affected Facility

Annual Report Information

Well Type:

Oil Gas Activity:

H New Well Completion

Recompletion

LI Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicid/yyyy) (hh:mm) (hh:mm} (hours) (hours) (hours) (hours)

08/25-30/2016 1:00 11:00 131 0 0 0 Initial Flowback Stage

08/30/2016-09/15/2016 11:00 9:00 382 382 0 0 Gas to Sales

09/15/2016 9:00 End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

42-127-37284 Well Type: Activity:

Gas E New Well Completion

Oil El LI Recompletion

LI Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours)

_ (hours) (hours) (hours)

08/25-30/2016 3:00 19:00 136 0 0 0 Initial Flowback Stage

08/30/2016-09/15/2016 19:00 9:00 375 375 0 0 Gas to Sales

09/15/2016 9:00 End 0 0 0 0 End of Flowback

The followirg deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Informa.

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

tion

SN Operating, LLC

16

Piloncillo No. A25HX

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42 121-37263 Well Type:

Gas

Oil Activity:

E New Well Completion

CI Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

08/03-11/2016 10:00 23:00 182 0 0 0 Initial Flowback

08/11-23/2016 23:00 15:00 304 304 0 0 Gas to Sales

08/23/2016 15:00 End 0 0 0 0 End of Flowback

The fob wing deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E Ill New Well Completion

Oil 7 L] Recompletion

LI Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/c1d/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

04/26/2017-05/13/2017 2:00 AM 8:00 AM 414 0 o 0 Initial Flowback Stage

05/13/2017 8:00 AM 2:00 PM 6 0 6 0 Build Gas Pressure

05/13/2017-06/14/2017 2:00 PM 9:00 AM 764 764 0 0 Gas to Sales

06/14/2017 9:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowbcck operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas H New Well Completion

Oil H P1 Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dclAiwy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

04/26/2017-05/17/2017 11:00 PM 5:00 PM 498, 0 0 0 Initial Flowback Stage

05/17/2017 5:00 PM 8:00 PM 3_ 0 3 0 Build Gas Pressure

05/17/2017-06/14/2017 8:00 PM 11:00 AM 663 663 0 0 Gas to Sales

06/14/2017 11:00 AM End 0 0 0 0 End of Flowback

The followirg deviations occurred Juring this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No A23HE

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42-127-37336 Well Type:

Gas

Oil Activity:

E New Well Completion

Recompletion

El Re -fracture

Duration of Gas 1 Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

04/29/2017-05/11/2017 0:00 18:00 307 o. o 0.Initial Flowback Stage

05/11/2017-06/14/2017 18:00 9:00 807 807_ 0 0.Gas to Sales

06/14/1017 9:00 End o_ oi o 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information Well Completion Affected Facility

Annual Report Information

Company: I SN Operating, LLC

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Piloncillo No. A23HE

42-127-37335 Well Type:

Oil El Gas Activity:

New Well Completion

El Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

04/30/2017-05/14/2017 2:00 11:00 346 0 0 0 Initial Flowback Stage

05/14/2017-06/14/2017 11:00 9:00 742 742 0 0 Gas to Sales

06/14/2017 9:00 End 0 0 0 0 End Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37334 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E New Well Completion

Oil Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/cid/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

05/01-13/2017 0:00 16:00 304 0 0 0 Initial Flowback Stage

05/13/2017-06/14/2017 16:00 9:00 762 762 0 0 Gas to Sales

06/14/201/ 9:00 End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No. A23HC

0 .

42-127-37333 Well Type:

Gas

Oil Activity:

Lij New Well Completion

Iii Recompletion

H Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

05/01-16/2017 6:00 17:00 371 0 o 0 Initial Flowback Stage

05/16/2017-06/14/2017 17:00 9:00 689 689 0 0 Gas to Sales

06/14/2017 9:00 End 0 0 o 0 End Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37280 Gas

Oil Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

E New Well Completion

E Recompletion

-1 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

11/16 21/2016 11:00 PM 8:00 AM 105 0 0 0 Initial Flowback Stage

11/21/2016 8:00 AM 12:00 PM 4 0 4 0 Build Gas Pressure

11/21/2016-12/09/2016 12:00 PM 6:00 PM 439 439 0 0 Gas to Sales

12/09/2016 6:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 47-127-37279 Well Completion Affected Facility

Annual Report Information

Gas

Oil Well Type:

-71 Activity:

F-1 New Well Completion

▪ Recompletion

• Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/ddArvw) (hhimm) (hh:mm) (hours) (hours) (hours) (hours)

11/16-21/2016 22:00 15:00 113 0 0 . 0 Initial Flowback

11/21/2016-12/09/2016 15:00 18:00 436, 436, 0 0 Gas to Sales

12/09/2016 18:00 End 0 0 0 0 End of Report

The following deviations occurred during this well flowbackoperction:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37278 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas '1 New Well Completion

Oil LI Recompletion

El Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

11/15-22/2016 22:00 20:00 166 0 0 0 Initial Flowback

11/22/201642/09/2016 20:00 21:00 410 410 0 0 Gas to Sales

12/09/2016 21:00 End 0 0 0 0 End of Report

The followirg deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37276 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas New Well Completion

Oil III Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/ddiyyyy) (hh:min) (hh:mm) (hours) (hours) (hours) (hours)

11/14-22/2016 22:00 11:00 181 0, 0 0 Initial Flowback

11/22/2016-12/09/2016 11:00 18:00 416 416 0

, 0 Gas to Sales

12/09/2016 18:00 End 0 0 0 0 End of Report

The followirg deviations occurred during this well flowbock operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37275 Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil Activity:

71 New Well Completion

Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dclkyvy) (hh:mm) (hh:rnm) (hours) (hours) (hours) (hours)

11/13-22/2016 23:00 14:00 207 0 0 0 Initial Flowback

,

11/22/2016-12/09/2016 14:00 21:00 416 416 0 0 Gas to Sales

12/09/2016 21:00 End 0 0 0 0 End of Report

The following deviations occurred during this well flowbock operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

Piloncillo No. A18HU

42-127-37274 Well Type: Activity:

Gas H H New Well Completion

Oil H H Recompletion

El Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicid/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

11/13-22/2016 1:00 12:00 227 0 o 0 Initial Flowback

11/22/2016 12:00 16:00 4 o o 4 Gas to Separator

11/22/2016-12/09/2016 16:00 18:00 411 411 o 0 Gas to Sales

12/09/2016 18:00 End 0 o_ o 0 End of Report

The following deviations occurred during this well flowbcok operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas TT; E New Well Completion

Oil 111 Recornpletion

El Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicld/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

12/12/2015 2:00 6:00 16 0 0 0 Initial Flowback

12/12/2015 6:00 8:00 2 0 0 2 Gas to Separator

12/12/2015-01/01/2016 8:00 6:00 467, 467 0 0 Gas to Sales

01/01/2016 6:00 End 0 0 0 0 End of Report

The followirg deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil Activity:

El New Well Completion

Ill Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

12/13/2015 1:00 7:00 6 0 0 0 Initial Flowback

12/1344/2015 7:00 21:00 14 0 0 14 Gas to Separator

12/14/2015-01/02/7016 21:00 6:00 466 466 0 0 Gas to Sales

01/02/2016 6:00 End 0 0 0 0 End of Report

The followirg deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37086 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas El New Well Completion

Oil

L

_ 7 Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddiyvyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

12/15/2015 1:00 7:00 6, 0 0 0 Initial Flowback

12/15/2015 7:00 8:00 1 0 0 1 Gas to Separator

12/15/2015-01/07/2016 8:00 9:00 554 554 0 0 Gas to Sales

01/07/2016 9:00 End 0 0 0 0 End of Report

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information Well Completion Affected Facility

Annual Report Information

Company: I SN Operating, LLC

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 16

Piloncillo No. Al2HE

42-127-37079 Well Type: Activity:

Gas 7 Ed New Well Completion

Oil-I

, 0 Recompletion

0 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicld/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

12/16/2015 0:00 9:00_ 9 0 o 0 Initial Elowback

12/16/2015 9:00, 11:00 2 o 0 2 Gas Being Vented

12/16/2015-01/07/2016 11:00 9:00 527 527, o 0 Gas to Sales

01/07/2016 9:00 End _ 0 0 0 0 End of Report

The followir.g deviations occurred during this well flowbock operation:

Date !Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37078 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas El New Well Completion

Oil 171 Li Recompletion

Li Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

12/16-17/2015 1:00 12:001 11 0, 0 0 Initial Howback

12/17/2015 12:00 14:00 2 0 0 2 Gas Being Vented

12/17/2015-01/07/2016 14:00 9:00 524 524 0 0 Gas to Sales

01/07/2016 9:00 Encll 0 0 0 O_End of Report

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-36928 Well Completion Affected Facility

Annual Report Information

Well Type:

Oil Gas Activity:

Li New Well Completion

Recompletion

El Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

11/26/2015 0:00 7:00 7 0 0 0 InititalFlowback Stage

11/26/2015-12/07/2015 7:00 13:00 271 271 0 0 Gas to Sales

12/07/1015 13:00 End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date 'Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

42-127-36927 Well Type:

Gas

Oil C Activity:

New Well Completion

111 Recompletion

ri Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(rnm/dd/YrifY) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

11/26/2015 2:00 12:00, 7 0 0 0 Initial Flowback Stage

11/26/2015-12/07/2015 12:00 13:00 264 264 0 0 Gas to Sales

12/07/2015 13:00 End 0 0 0 0 End of Flowback

The followirg deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37000 Well Completion Affected Facility

Annual Report Information

Gas

Oil Well Type: Activity:

2 New Well Completion

Recompletion

CI Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicid/ywy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

—

09/21-24/2015 23:00 13:00 63 0 0 0 Initial Flowback Stage

09/24/2015-10/09/2015 13:00 18:00 364 364 0 0 Gas to Sales

10/09/2015 18:00 End 0 0 0 0 End of Flowback

The following deviations occurred during this well fiowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No. A8HF

42-127-36995 Well Type: Activity:

Gas New Well Completion

Oil LII Recompletion

El Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

09/21-24/2015 23:00 13:00 63 0 0 0 Initial Flowback Stage

09/24/2015-10/09/2015 13:00 18:00 365 365 0 0 Gas to Sales

10/09/2015 18:00 End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-36994 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas El New Well Completion

Oil Recompletion

0 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mrrlicid/YM) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

09/22-24/2015 1:00 9:00 57 0 0 0 Initial Flowback Stage

.

09/24/2015-10/09/2015 9:00 18:00 369 0 0 0 Gas to Sales

10/09/2015 18:00 End 0 0 0 0 End Flowback

The following deviations occurred during this well flowbock operation.'

Date Reason for deviation:

Location and Well Information Well Completion Affected Facility

Annual Report Information

Company: I SN Operating, LLC

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: I 42-127-37056 16

Piloncillo No. A2HZ Well Type: Activity:

Gas H R New Well Completion

Oil Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiclayyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

10/27/2015-11/03/2015 8:00 AM 11:00 PM, 183 0 0 0 Initial Flowback Stage

11/03-17/2015 11:00 PM 10:00 AM 323 323 0 0 Gas to Sales

11/17/2015 10:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well Powback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37055 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas New Well Completion

Oil P LI Recompletion

El Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

10/27/2015-11/04/2015 4:00, 7:00 196_ 0 0 0 Initial Flowback Stage

11/04-17/2015 7:00 9:00 314 314 0 0 Gas to Sales

11/17/2015 9:00_ End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37060 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas El New Well Completion

Oil fl Recompletion

7 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicidjyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

10/25-30/2015 2:00, 18:00 138 0 0 0 Initial Flowback Stage

10/30/2015-11/12/2015 18:00 12:00 305 305 0 0 Gas to Sales

11/12/2015 12:00 End_ 0 0 0 0 End Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No, A1HY

(b) (9)

42-127-37059 Well Type:

Gas

Oil Activity:

II New Well Completion

Recompletion

EI Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddhyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

10/24-30/2015 23:00 11:00 133 0 0 0 Initial Flowback Stage

10/30/2015-11/12/2015 11:00 12:00 313 313 0 0 Gas to Sales

11/12/2015 12:00 End 0 0 0 0 End of Flowback

The followip,g deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-127-37058 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E New Well Completion

Oil 0 Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicld/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

10/23-29/2015 21:00 1:00 125 0 0 0 Initial Flowback Stage

10/29/2015-11/12/2015 1:00 12:00 347 347 0 0 Gas to Sales

11/12/2015 12:00 End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No. E35HZ

42-479-43567 Well Type:

Gas

Oil Activity:

0, New Well Completion

LI Recompletion

LI Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

03/8-14/2017 11:00 PM 9:00 AM 130 0 0 0 Initial Flowback Stage

03/14-4/17/2017 9:00 AM 6:00 AM 814 814 0 0 Gas to Sales

04/17/2017 6:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43566 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas p New Well Completion

Oil E Recompletion

E Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

03/8-13/2017 9:00 PM 9:00 PM 121 0 0 0 Initial Ilowback Stage

03/13-4/17/2017 10:00 PM 6:00 AM 825 825 0 0 Gas to Sales

04/17/2017 6:00 AM End End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Conipany:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43565 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E New Well Completion

Oil Recompletion

Li Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

03/8-12/2017 _.

12:00 AM 4:00 PM 112 0 o 0 Initial Flowback Stage

03/12-04/17/2017 4:00 PM 7:00 AM 856 856 o 0 Gas to Sales

04/17/2017 7:00 AM End End of Flowback

The fulicwing deviations occurred during this well fiowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43563 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E New Well Completion

Oil Recompletion

0 Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/vyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

03/6-12/2017 12:00 AM 2:00 PM 158 0 0 0 Initial Flowback Stage

03/12-04/17/2017 2:00 PM 6:00 AM 857 857 0 0 Gas to Sales

04/17/2017 6:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43567 Well Completion Affected Facility

Annual Report Information

Well Type:

Gas

Oil i Activity:

'71 New Well Completion

E Recompletion

Li Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hturnm) (hh:mm) (hours) (hours) (hours) (hours)

03/8-14/2017 11:00 PM 9:00 AM 130 0 0 0 Initial Flowback Stage

03/14-4/17/2017 9:00 AM 6:00 AM 814 814 0 0 Gas to Sales

04/17/2017 6:00 AM End End of Flowback

The fallowing deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No. E35HY

42-479-43566 Well Type:

Gas

Oil Activity:

New Well Completion

Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

r 1

03/8-13/2017 9:00 PM 9:00 PM 121 0 0 0 Initial Flowback Stage

03/13-4/17/2017 10:00 PM 6:00 AM 825 825 0 0 Gas to Sales

04/17/2017 6:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43564 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas2 Ej_P New Well Completion

Oil D Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmiddiyyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

3/7-11/2017 12:00 AM 12:00 PM 108 0 o 0 Initial Flowback Stage

3/11-4/17/2017 12:00 PM 6:00 AM 883 883 0 0 Gas to Sales

4/17/2017 6:00 AM End o 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No. E34HZ

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I

42-479-43577 Well Type:

Gas

Oil Activity:

Li New Well Completion

(.2 Recompletion

L Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

03/5-11/2017 10:00 PM 4:00 PM 138 0 0 0 Initial Flowback Stage

03/11/-23/2017 4:00 PM 6:00 PM 290, 290 0 0 Gas to Sales

03/23/2017 6:00 PM 7:00 PM 1 0 1 0 Well Shut In for Maintenance

03/23-04/17/2017 7:00 PM 6:00 AM 588 588 0 0 Gas to Sales

04/17/2017 6:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred curing this well flowbock operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43576 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas New Well Completion

Oil Recompletion

El Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/vyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

03/7-11/2017 6:00 AM 12:00 PM 103 0 0 0 _ Initial Flowback Stage

3/11-4/21/2017 2:00 PM 6:00 AM 977 977 0 0 Gas to Sales

04/21/2017 6:00 AM End 0 0 0

_ O_End of Flowback

The following deviations occurred during this well flowbock operation:

Date !Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No. E34HX

I

42-479-43570 Well Type:

Gas

Oil Activity:

II] New Well Completion

Recompletion

Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mm/dd/yyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

03/8-11/2017 2:00 PM 7:00 PM 77 0 0 0 Initial Flowback Stage

03/11-04/17/2017 7:00 PM 6:00 AM 876 876 0 0 Gas to Sales

04/17/2017 6:00 AM End 0 0 0 0 End of Flowback

The following deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No. E34HW

)) (9)

42-479-43571 Well Type:

Gas R.

Oil Activity:

I] New Well Completion

Recompletion

fl Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmicidkyyy) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

03/9-12/2017 9:00 P1'11 12:00 AM 63 o o 0 Initial Flowback Stage

03/12-04/19/2017 12:00 PM 2:00 AM 903 903 0 0 Gas to Sales

04/19/2017 2:00 AM End o o o 0 End of Flowback

The following deviations occurred curing this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: Well Completion Affected Facility

Annual Report Information

SN Operating, LLC

16

Piloncillo No. E34HV

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I

42-479-43569 Well Type:

Gas 2

Oil Activity:

E New Well Completion

Li Recompletion

Li Re -fracture

Duration of Gas Duration of

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmidd/VYYY) (hh:mm) (hh:mm) (hours) (hours) (hours) (hours)

03/9-12/2017 10:00 PM 9:00 AM 60 0 0 0 Initial Flowback Stage

03/12-04/19/2017 9:00 AM 2:00 AM 981 981 0 0 Gas to Sales

04/19/2017 2:00 AM End 0_ , 0 0 0 End of Flowback

The followirg deviations occurred during this well flowback operation:

Date Reason for deviation:

Location and Well Information

Company:

TCEQ Region:

Location Name

Latitude in NAD 83:

Longitude in NAD 83:

API Well Number: 42-479-43502 Well Completion Affected Facility

Annual Report Information

Well Type: Activity:

Gas E New Well Completion

Oil Recompletion

7 Re -fracture

Uuration at ()as li-JU ration cot

Recovery from Combustion of Duration of

Duration of Separator to Gas from Venting from

Date Start Time End Time Flowback Flowline Separator Separator Comment

(mmidayyyy) (hh:mm) (hh:mm) (hours)

_ (hours) (hours) (hours)

05/18-21/2016 3:00 AM 12:00 PM 81 0 0 0 initial Flowback Stage

05/21-06/6/2016 12:00 PM 4:00 PM 389 389, 0 0 Gas to Sales

06/06/2016 4:00 PM End 0 0 0 0 End of Flowback

The following deviations occurred ddring this well flowback operation:

Date IReason for deviation: