

**EOG Resources, Clarks Creek Central Facility Evaluation (FCE)
On-Site Clean Air Act (CAA) Inspections**

Inspection Date: August 19, 2021

Inspection Report Date: October 19, 2021

EPA Representatives: Alexis North & Mike Stovern

Company Representatives: None

Inspection Report Prepared By: Alexis North

Inspection Report Reviewed By: Scott Patefield
Patefield, Scott Digitally signed by Patefield, Scott
Date: 2021.10.19 15:32:38 -06'00'

Last CAA Inspection: None

Applicable Rules: CAA Title V Operating Permitting (Part 71 operating permit)
V-TAT-000820-2018.00 (issued 1/22/2020)
40 C.F.R. Part 60, Subpart JJJJ—Standards of Performance for
Stationary Spark Ignition Internal Combustion Engines (NSPS
JJJJ)
40 C.F.R. Part 60, Subpart OOOOa—Standards of Performance for
Crude Oil and Natural Gas Facilities for Which Construction,
Modification or Reconstruction Commenced After September 18,
2015- (NSPS OOOOa)
40 C.F.R. Part 63, Subpart HH—National Emission Standards for
Hazardous Air Pollutants from Oil and Natural Gas Production
Facilities (MACT HH)
40 C.F.R. Part 63, Subpart ZZZZ—National Emission Standards
for Hazardous Air Pollutants from Oil and Natural Gas Production
Facilities (MACT ZZZZ)

CAA Permit History:

EPA issued the initial Part 71 operating permit on January 22, 2020. Permit Number: V-TAT-000820-2018.00.

- Tribal Minor NSR Part 1 registration submitted 4/25/2017.
- Tribal Minor NSR Part 2 registration submitted 8/11/2017.
- Title V initial application submitted 7/27/2018 including 1x 1340 Caterpillar G3516 engine, dehy for fuel gas only, 18 oil storage tanks plus 6 water storage tanks, VRUs and two flares for tank emissions. NOx 41.5, VOC 129.2, CO 144.5, HAP 6.8 tons per year each.
- Multiple Part 1 and Part updates submitted after Title V application.
- Most recent Part 2 registration update 12/10/2019- NOx 100.59, VOC 188.7, CO 192.99 with six (6) engines (4 of 6 use NSPS JJJJ emission limitations in PTE calculation).

General Source Information

Parent Company Name: EOG Resources, Incorporated (EOG)
Facility Name: Clarks Creek Central Facility (Clarks Creek)
Facility Location: 47.9059, -102.7554
EPA Region: 8
County, State: McKenzie County, North Dakota
Reservation & Tribe: Fort Berthold Indian Reservation & MHA Nation
Responsible Official: Matthew Oliver
SIC Code: 1311
ICIS Air ID: AIR 080000003805300180

Areas of Concern

- Title V permit does not currently align with operations. EOG must update their Title V permit to reflect current operations (including but not limited to: engine serial #JFE01145, Cimmaron enclosed combustor for dehy, 34 storage tanks on site versus 24, increased PTE from Title V application).
- Emissions with IR camera from enclosed combustor at dehy unit.
- Emissions with IR holding together from air assisted flare controlling tank emissions.

Compliance Assistance

Recommend updating Title V permit to reflect onsite operations ASAP.

Recommend investigating fan speeds for air assisted flare showing emissions.

Recommend investigating emissions from Cimmaron enclosed combustor at dehy unit.

Onsite Inspection Details

Arrived onsite at 9:30 am 8/19/2021 and knocked on the door of the main office. Alerted Eric in the office that we were onsite for a Title V inspection and we would be using an IR camera to scan tanks and dehy and would stay out of the engine building. Made notes of storage tank and flare counts, closely looked at dehy piping and counted strokes from the glycol pump (5 strokes in 30 seconds). The dehy is controlled using a Cimmaron (serial 5604315). EPA detected emissions out of the top of the Cimmaron even though pilot light was lit (MOV_2727).

No emissions were detected from any of the three storage tank groups (6 tanks on eastern edge as you pull onsite, 24 tanks on s/w corner and 4 tanks on n/w corner nearest Targa facility), all associated flares appeared to be lit with a pilot light and operating. The air assisted flare on the n/w corner nearest Targa facility had emissions holding together (MOV_2726).

Departed facility at 10:00 am.

EPA sent a follow up email with questions for EOG on September 7, 2021 and EOG responded on September 30, 2021. That email exchange is included in the appendix to this report. While several questions were asked/answered, I'd like to summarize the production throughput and flaring in the body of the report. Essentially, this facility has very high oil production and gas sales and very low (1.1%) gas flaring, see below:

Dates of Production	Oil Produced (bbl)	Gas Sold (MSCF)	Gas Flared (MSCF)
June 2021	67,983	402,274	291
All of 2020	1,441,602	4,776,814	53,456

EOG contact Mathew Oliver, during a call from EPA to EOG on Thursday September 2, 2021, stated the flow of produced natural gas and storage tank emissions to the flares is measured with flow meters. Thus, the gas flared amounts listed above and, in the tables attached in the appendices, are measured not calculated.

EOG Clarks Creek currently has 24 wells feeding production to this site with 7 additional wells potentially getting drilled in the future, no pending dates for those as of now.

Potential to Emit (PTE)

Table below is from the 12/10/19 updated Part 2 registration PTE summary:

Emission Point	Equipment Description	NO _x		CO		VOC	
		lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
FUG-1	Fugitive Equipment Leaks	--	--	--	--	5.56	24.37
FL-1	Oil Tanks to Flare	--	--	--	--	3.23	14.15
FL-1	Produced Water Tanks to Flare	--	--	--	--	0.16	0.72
FL-1	Tank Flare Combustion Emissions	3.07	13.46	6.13	26.86	--	--
L-1	Uncaptured Oil Loading Emissions to Atmosphere	--	--	--	--	1.61	22.78
L-2	Water Loading Emissions to Atmosphere	--	--	--	--	0.00	0.02
FL-2	Emergency Flare	6.04	26.46	12.06	52.83	13.65	59.80
FL-1	20 MMscfd Sales Gas Dehydrator	--	--	--	--	6.27	27.47
FL-1	1.0 MMscfd Fuel Gas Dehy	--	--	--	--	0.20	0.87
ENG-1	1875 hp Caterpillar G3606 A4	4.13	18.11	8.27	36.21	2.89	12.67
ENG-2	1875 hp Caterpillar G3606 A4	4.13	18.11	8.27	36.21	2.89	12.67
ENG-3	1875 hp Caterpillar G3606 A4	1.00	4.38	2.00	8.76	0.70	3.07
ENG-4	1340 hp Caterpillar G3516 TA LE	1.00	4.38	2.00	8.76	0.70	3.07
ENG-5	1340 hp Caterpillar G3516 TA LE	1.00	4.38	2.00	8.76	0.70	3.07
ENG-6	1340 hp Caterpillar G3516 TA LE	1.00	4.38	2.00	8.76	0.70	3.07
HTR-1	2.5 MMBtu/hr Group Treater	0.36	1.58	0.30	1.33	0.02	0.09
HTR-2	2 MMBtu/hr Heater Treater	0.29	1.26	0.24	1.06	0.02	0.07
HTR-3	2 MMBtu/hr Heater Treater	0.29	1.26	0.24	1.06	0.02	0.07
HTR-4	0.5 MMBtu/hr Line Heater	0.07	0.32	0.06	0.27	0.00	0.02
HTR-5	1 MMBtu/hr TEG Reboiler	0.14	0.63	0.12	0.53	0.01	0.03
HTR-6	1 MMBtu/hr Line Heater	0.14	0.63	0.12	0.53	0.01	0.03
HTR-7	1 MMBtu/hr GPU Heater	0.14	0.63	0.12	0.53	0.01	0.03
HTR-8	1 MMBtu/hr GPU Heater	0.14	0.63	0.12	0.53	0.01	0.03
TOTALS		22.97	100.59	44.06	192.99	39.37	188.17

Cropped out for ease of read: SO₂ = 0.22 tpy, PM = 3.52, Formaldehyde = 6.15 tpy and total HAPs 10.11 tpy making this a minor MACT source.

Table below is from the 7/27/2018 Title V application, Table 3 Emissions Summary:

CONTROLLED EMISSIONS

SOURCE	VOC	HAP	NO _x	CO	H ₂ S	SO ₂	CO ₂ e
	(TPY)						(MT/yr)
Oil Tank Flash Gas ^e	1.99	0.18	--	--	0.00	--	
Oil Tank Working and Breathing ^e	0.02	0.00	--	--	0.00	--	
Water Tanks	0.01	0.00	--	--	0.00	--	
Engineered Flare	101.64	5.79	18.31	99.61	0.00	0.00	
Treater Burner	0.06	0.02	1.16	0.97	0.00	0.00	
RICE Engine	10.99	N/A	21.98	43.96	--	--	
Truck Loading ^d	0.00	0.00	--	--	--	--	
Fugitive	13.58	0.36	--	--	--	--	
Glycol Dehydrator	0.87	0.43					
Totals (No Gas Pipeline)^b	129.16	6.77	41.45	144.54	0.00	0.00	401,433.45
Totals (With Gas Pipeline)^c	27.51	0.55	23.14	44.93	0.00	0.00	2,938.11

Notes:

^aUncombusted GHG

^bNo Gas Pipeline - gas produced from treater will be sent to engineered flare

^cWith Gas Pipeline - gas produced from treater will be sent to the gas pipeline

^dThese emissions assume the sales oil pipeline is in place.

^eThese emissions account for 95% VRU capture with flare backup.

Table below is from the 7/27/2018 Title V application, Table 4 HAP Emissions Summary:

CONTROLLED HAP EMISSION SUMMARY

SOURCE	POTENTIAL TO EMIT (TPY)					
	BENZENE	TOLUENE	ETHYLBENZENE	XYLENE	2,2,4 TMP	N-HEXANE
Oil Tanks	0.01	0.02	0.00	0.00	0.01	0.13
Water Tanks	0.00	0.00	0.00	0.00	0.00	0.00
Engineered Flare	0.18	0.39	0.08	0.08	0.21	2.74
Heater Treater	0.00	0.00	0.00	0.00	0.00	0.02
RICE Engine	0.00	0.00	0.00	0.00	0.00	0.00
Truck Loading	0.00	0.00	0.00	0.00	0.00	0.00
Glycol Dehydrator	0.04	0.23	0.12	0.01	0.00	0.02
Total	0.25	0.71	0.12	0.14	0.28	3.05

Notes:

^aNo Gas Pipeline - gas produced from treater will be sent to engineered flare

^bWith Gas Pipeline - gas produced from treater will be sent to the gas pipeline

CAA Title V Operating Permit V-TAT-000820-2018.00 (issued 1/22/2020)

Section I. Facility Information and Emission Unit Identification B. Facility Emission Points

Table 2: Emissions Units and Emission Generating Activities (with inspection notes added)

Unit I.D.	Description	Control Equipment	Inspection Comments Added
DEHY-2	TEG Dehydration Unit, 20.0 MMscfd Installed: August 1, 2018	FL1	Dehy was operating, reboiler hooked up to enclosed combustor not listed here. Some emissions from enclosed combustor (MOV_2727).
HTR-3	TEG Glycol Reboiler Heater on DEHY-2, 0.6 MMBtu/hr	None (IEU)	
ENG-1	Caterpillar G3516LE, 10.12 MMBtu/hr*, 1340 hp*, 4SLB* Natural Gas-fired Compressor Engine powering an Ariel JGE/4 reciprocating compressor ¹ : Serial Number: WPW00277 Installed: August 11, 2017 Manufactured: June 27, 2006 Ariel Reciprocating Compressor Serial Number: F-13180	None	Listed as gap engine, did not physically verify if this was operating as did not want to enter compressor housing. Noted 3 engines running.
ENG-2	Caterpillar G3606 A4 TALE, 14.07 MMBtu/hr*, 1875 hp, 4SLB Natural Gas-fired Compressor Engine powering an Ariel JGD4 reciprocating compressor: Serial Number: JFE00926 Installed: August 1, 2018 Manufactured: February 13, 2018 Ariel Reciprocating Compressor Serial Number: F-55773	Oxidation Catalyst	Received passing performance tests reports on 10/25/2019 and 10/27/2020. Noted three engines running.
ENG-3	Caterpillar G3606 A4 TALE, 14.07 MMBtu/hr*, 1875 hp, 4SLB Natural Gas Engine powering an Ariel JGD4 reciprocating compressor: Serial Number: JFE01058 Installed: August 1, 2018 Manufactured: June 14, 2018 Ariel Reciprocating Compressor Serial Number: F-56960	Oxidation Catalyst	Received passing performance tests reports on 10/25/2019 and 10/27/2020. Noted three engines running.

¹ The reciprocating compressors have emissions due to fugitive emissions from the rod packing. An emissions unit ID was not provided by the operator solely for the reciprocating compressors and instead will be listed together as emissions units ENG-1, ENG-2 or ENG-3.

Unit I.D.	Description	Control Equipment	Inspection Comments Added
TNK1 TNK2 TNK3 TNK4 TNK5 TNK6 TNK7 TNK8 TNK9 TNK10 TNK11 TNK12 TNK13 TNK14 TNK15 TNK16 TNK17 TNK18	18 -- 400 bbl* Condensate/Oil Storage Tanks Serial No. 1006-953 Installed: August 11, 2017	FL2	Noted 24 tanks on s/w corner of the pad directly across from compressors attached to tall flare, no emissions with IR from tanks or flare. Additional 4 tanks on n/w corner of pad with air assisted flare. No emissions from those 4 tanks, but emissions from the air assisted flare holding together, video taken (MOV_2726).
HTR-1	Separator Heater, 2.5 MMBtu/hr	None (IEU*)	No emissions from separator with IR.
WTR TNK-1 WTR TNK-2 WTR TNK-3 WTR TNK-4 WTR TNK-5 WTR TNK-6	Six 400 bbl* Produced Water Storage Tanks	None (IEU)	Noted 6 tanks attached to air assisted flare on eastern edge of pad, no tank emissions detected with IR.
FUG-1	Fugitive emissions from component leaks	None	Saw no emissions from tops of any storage tanks.
FL1	Aereon Air Assist Flare Serial No. FS00001510 Installed: August 11, 2017	None	Not sure which flare is which, flare attached to 4 tanks on the n/w corner of the pad (closest to Targa facility) had emissions holding together.
FL2	Aereon Air Assist 60' Flare, Produced Gas Flare Serial No. FS000001534 Installed: August 11, 2017	None	
TRK-LOAD	Truck loading for condensate/oil and produced water (backup for pipeline)	None (IEU)	No unloading observed.

Section II. NSPS JJJJ

The permit lists applicability for ENG 2 and ENG 3 from Table 2 (Section II.A), however we are receiving NSPS JJJJ results for a third engine (serial JFE01145) not listed in this permit, see performance tests received by EPA below.

Unit ID	Serial #	Date Test Notice Revd	Date Test Report Revd	Test Date	Rule Applicability	Test Results
806866 (Unit 1)	JFE00926	10/5/2020	11/2/2020	10/27/2020	NSPS JJJJ	Passed
AG1006 (Unit 2)	JFE01058	10/5/2020	11/2/2020	10/27/2020	NSPS JJJJ	Passed
AG1017 (Unit 3)	JFE01145	10/5/2020	11/2/2020	10/27/2020	NSPS JJJJ	Passed
806866 (Unit 1)	JFE00926	8/5/2019	10/30/2019	10/25/2019	NSPS JJJJ	Passed
AG1006 (Unit 2)	JFE01058	8/5/2019	10/30/2019	10/24/2019	NSPS JJJJ	Passed
AG1017 (Unit 3)	JFE01145	8/5/2019	10/30/2019	10/24/2019	NSPS JJJJ	Passed

NSPS JJJJ required notice of testing, appropriate test methods and 3- one hour test runs all compliant for the listed tests.

Section III. NSPS OOOOa

Title V permit lists NSPS OOOOa applicability to reciprocating compressors Ariel JGD4 attached to engines ENG 2 and ENG 3. The NSPS OOOOa annual report dated 10/30/2018 lists two Ariel JGD4 reciprocating compressors attached to ENG 002 and ENG 003 but no source is listed, assuming it should be Clarks Creek CTB. Report just lists “1 month” for each, not sure what that means, 1 month from the last rod packing change out?

Annual Title V certification submitted on 3/24/21 lists the following rod packing timelines. The rod packing must be changed once every 36 months per 60.5385a(a)(2).

NSPS OOOOa Reciprocating Compressor Rod Packing Change Summary - § 60.5385a(a)(2)

Description	Manufacturer	Model	Serial #	Date of last Rod Packing Change (or start-up)	Months since last change, as of 12/31/2020
Compressor for ENG-2	Ariel	JGD-4	F-56960	9/6/2018	28.2
Compressor for ENG-3	Ariel	JGD-4	F-58461	9/2/2019	16.2

Title V permit also lists applicability of Clarks Creek’s fugitive emissions components requiring development of a fugitive emissions monitoring plan (per 60.5397a(b)-(c)) and semi annual survey of equipment (per 60.5397a(g)(1)) according to the fugitive emissions monitoring plan. Any repairs must be made within 30 days (per 60.5397a(h)(1)-(2)). Per EOG’s Annual Compliance Certification, leak surveys were conducted on 5/28/2020 and 12/2/2020. Two (2) leaks were discovered during the 12/2/2020 survey and both were repaired and rechecked within 30 days.

Section IV. MACT HH

Title V applicability section for MACT HH lists the 20 MMscfd TEG dehy controlled by “FL-1”. Permit Table 2 lists FL-1 as an Aereon Air Assist flare. Onsite, EPA observed the only dehy controlled by a Cimarron flare (with emissions observed via FLIR). Based on the Title V permit at Section IV.A Applicability requiring compliance with major source HAP provisions in 63.765 and the annual

compliance certification, it's clear EOG complies with MACT HH by controlling the process vent to reduce Benzene emissions below .9 megagrams per year § 63.765((b)(2). Using the IR camera, the closed vent system showed no detectable emissions, thus in compliance with § 63.771(c).

EOG reported Benzene emissions at 0.2258 tons per year in their 2020 Annual Title V Compliance Certification received 3/24/2021.

The Cimarron model CEI-160 enclosed combustor is listed on the “Performance Testing for Combustion Control Devices Manufacturer’ Performance Test NSPS OOOO/OOOOa and MACT HH/HHH” list of approved control devices ([link](#)) and thus does not require testing. However, EPA observed slight emissions from device while onsite.

Because the actual average emissions of benzene from the dehy unit are less than 0.90 megagram per year, this unit is exempt from monitoring and reporting per MACT HH, 63.764(e)(1)(ii). However, EOG noted this unit is part of the IR inspections performed in compliance with NSPS OOOOa.

Section V. MACT ZZZZ

Title V indicates compliance with MACT ZZZZ if through compliance with NSPS JJJJ per Section V.C. No further evaluation required.

Section VII. General Provisions

EOG paid their 2020 fees in 2021 on time. Not going to pick on 2019 fees in 2020 due to COVID since their 2020 fees made it on time in 2021.

Title V Annual Emissions & Fees per Air Program Tracking

Year	Rec'd	NOx	VOC	Formaldehyde	Fees Paid
2020	3/30/2021	75	91.4	5.4	\$10,014.67
2019	4/27/2020	39.2	190.2	4.4	\$12,821.45
2018 (initial app)	7/30/2018	40.3	129.1	2.2	\$11,083.70

Appendix A: IR MOVIE LOG

Date	File	Name	Comment	
8/19/2021	MOV_	2726	EOG Clark's Creek site vid and inefficient air assist flare	
8/19/2021	MOV	2727	EOG Clark's Creek emissions out of dehy ECD	
8/19/2021	MOV	2728	EOG Clark's Creek inlet piping dehy ECD & emissions from ECD	
8/19/2021	MOV_	2729	EOG Clark's Creek intermittent pilot flame from dehy ECD	
8/19/2021	MOV_	2730	EOG Clark's Creek reboiler still vent valve open	

Files MOV_2726 and MOV_2727 were sent to EOG, upon request during September 2, 2021 phone call, via GoAnywhere file sharing service on September 7, 2021.

APPENDIX B: Email exchange between EPA and EOP post inspection

From: [Mathew Oliver](#)
To: [North, Alexis](#)
Subject: RE: Follow Up Clarks Creek CTB Inspection Questions
Date: Thursday, September 30, 2021 2:19:35 PM
Attachments: [image001.png](#)
7. Production Summary June 2021.xlsx
8. Production Summary_CY2020.xlsx
9. Well List with API, NDIC, Status.xlsx

Alex,

Here are the my responses to the inspection follow up questions. Please let me know if anything doesn't make sense or you need additional information.

1. Yes, EOG is in the process of preparing and will submit a TV permit amendment to reflect current operations. I anticipate submitting the amendment sometime in October.
2. No, the gap engine (SN WPW00277) is no longer onsite.
3. The glycol circulation pump for the dehydration unit is a Kimray, model 45020 PV.
4. Yes, the dehy throughput in the annual cert of 724,000 scf/h (17.376 MMscf/d) appears to be correct. The unit is rated for up to 20 MMscf/d. I will get an updated throughput for calendar year 2021 for our next annual certification.
5. The Cimmaron enclosed combustor is a [model CEI-1-60](#).
6. We have not been conducting visual inspections per 63.773(c) or submitting annual reports per 63.775(e). It is my understanding that the dehydration unit meets the exemption criteria of 63.764(e)(1)(ii), actual average emissions of benzene less than 0.90 megagram (1.0 ton) per year, as determined per 63.772(b)(2). The facility is an area source of HAPs. However, we do inspect the dehy unit closed vent system with an OGI camera during semi-annual leak inspections required by NSPS OOOOa.
7. In June 2021, a total of 291 MCF of high-pressure gas was flared. See attachment "7. Production Summary_June 2021.xlsx".
8. Summary of 2020 Production, Sales and Flaring (gross). Approximately 1.1% (53,456 MCF) of total gas production was flared. See attachment "8. Production Summary_CY2020.xlsx".

Total Oil Production [bbl/yr]	1,441,602
Avg. Daily Oil Prod [bbl/d]	3,939
Total Gas Prod [MCF/yr]	4,938,423
Avg. Daily Gas Prod [MCF/d]	13,493
Total Gas Sales [MCF/yr]	4,776,814
Total Gas Flared [MCF/yr]	53,456

9. Your well listing is complete, however several of the wells are permitted but have not yet been drilled. See attachment "9. Well list with API, NDIC, Status.xlsx". The wells with "Pre-Spud" status are not on our current drilling schedule, so I'm not sure when or if they will actually be drilled.

I have shared the IR Camera videos you provided with the operations team. They will be keeping an eye on the settings for the combustor and air assisted flare to minimize unburned VOC emissions.

Thanks,

Mathew Oliver, P.E.

Environmental Manager
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Denver, CO 80202
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Cell: (713) 702-4364



From: North, Alexis <North.Alexis@epa.gov>
Sent: Tuesday, September 7, 2021 7:40 AM
To: Mathew Oliver <Mathew_Oliver@eogresources.com>
Subject: Follow Up Clarks Creek CTB Inspection Questions

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mathew,

Can you please answer the following questions based on my inspection at the Clarks Creek CTB (Title V # V-TAT-000820-2018.00) on 8/19/2021:

1. Is EOG planning to submit a T5 amendment that reflects current operations (for example addition of engine serial #JFE01145, Cimmaron enclosed combustor for dehy, 34 storage tanks on site versus 24, increased PTE)
2. Is gap engine WPW00277 still onsite?
3. What is the make/model of the kimray pump recirculating the glycol on the dehy?
4. GLYCalc run submitted with 2020 annual cert has 724,000 scf throughput wet gas, is that accurate?
5. What's the Cimmaron make/model controlling the dehy?
6. Are you doing annual HH visual inspections per 63.773(c)? Are you subject too "periodic" (annual) reports per 63.775(e)?
7. How much high pressure gas went to the flare(s) in June 2021 in MSCFs please?
8. What was your 2020 total production? Oil in bbls, gas flared in MCF, gas sold in MCF?
9. Are these all the wells feeding the facility? Am I missing anything?

NDIC ID Well Sites Organized by Pads

Feeding Clarks Creek CTB

20886	32793	34380	36409
20887	32794	34381	36410
20888	32795	34677	36411
20890	32796	34678	36412
20891	32797	34679	36413
20892	32798	34680	36414

32799	37356	36415
32800		36416
33050		
34448		

Per our conversation 8/26/2021, I'm sending two IR videos taken at Clarks Creek. Since they are larger files, I'll be sending them via GoAnywhere in a separate email so watch for that.

Thanks for this, I'm not looking for a tight turnaround. If this takes you a couple of weeks to gather, that works for me.

Have a great week,

Alex

Alexis North, Environmental Scientist
Enforcement and Compliance Assurance Division
EPA Region 8
1595 Wynkoop Street (8ENF-AT)
Denver, CO 80202-1129
Phone: 303-312-7005
Email: north.alexis@epa.gov

7. Production Summary June 2021.xlsx

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7. Produc...

North, Alexis

File

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Data

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Acrobat

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Enable Editing

J33

	A	B	C	D	E	F	G	H	I	J
1	Selected Item	Date	Oil Prod	Oil Sales	Gas Prod	Gas Sales	Water Prod	Gas Flare		
2	Multi selection	6/1/2021	2,377	2,130	13,709	13,540	3,084	0		
3	Multi selection	6/2/2021	1,964	1,879	12,920	12,666	2,475	115.21		
4	Multi selection	6/3/2021	2,220	2,359	13,747	13,578	3,119	0		
5	Multi selection	6/4/2021	2,182	2,167	13,057	12,888	2,901	0		
6	Multi selection	6/5/2021	2,126	2,029	13,121	12,923	2,864	28.73		
7	Multi selection	6/6/2021	2,162	2,126	13,615	13,446	3,180	0		
8	Multi selection	6/7/2021	2,350	2,359	13,650	13,481	3,379	0		
9	Multi selection	6/8/2021	2,401	2,256	13,449	13,147	3,396	133.75		
10	Multi selection	6/9/2021	1,916	1,757	12,639	12,478	2,668	0		
11	Multi selection	6/10/2021	2,241	2,322	15,981	15,820	2,492	0		
12	Multi selection	6/11/2021	2,080	1,904	12,226	12,047	2,167	13.04		
13	Multi selection	6/12/2021	2,364	2,429	13,639	13,470	3,267	0		
14	Multi selection	6/13/2021	2,328	2,261	13,448	13,279	3,175	0		
15	Multi selection	6/14/2021	2,402	2,474	13,995	13,826	3,198	0		
16	Multi selection	6/15/2021	2,391	2,670	13,806	13,637	3,351	0		
17	Multi selection	6/16/2021	2,389	2,496	13,794	13,625	3,291	0		
18	Multi selection	6/17/2021	2,419	2,482	13,937	13,768	3,271	0		
19	Multi selection	6/18/2021	2,429	2,316	13,998	13,829	3,260	0		
20	Multi selection	6/19/2021	2,394	2,071	13,996	13,827	3,511	0		
21	Multi selection	6/20/2021	2,475	2,192	14,034	13,865	3,143	0		
22	Multi selection	6/21/2021	2,333	2,701	12,947	12,778	3,244	0		
23	Multi selection	6/22/2021	2,379	2,295	13,213	13,044	3,108	0		
24	Multi selection	6/23/2021	1,861	2,049	13,360	13,209	2,527	0		
25	Multi selection	6/24/2021	2,321	2,432	13,898	13,729	3,176	0		
26	Multi selection	6/25/2021	2,265	2,041	13,601	13,432	3,140	0		
27	Multi selection	6/26/2021	2,314	1,246	13,655	13,486	3,049	0		
28	Multi selection	6/27/2021	2,282	220	13,575	13,406	3,093	0		
29	Multi selection	6/28/2021	2,206	2,265	13,525	13,355	3,010	0		
30	Multi selection	6/29/2021	2,211	1,679	13,524	13,355	3,091	0		
31	Multi selection	6/30/2021	2,201	1,708	13,529	13,360	3,063	0		
32										
33		Total	67,983	63,315	407,588	402,294	91,693	291		
34		Average	2,266	2,111	13,586	13,410	3,056	10		
35										
36										

Production Data

Sheet1

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8. Production Summary_CY2020.xlsx

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J33

	A	B	C	D	E	F	G	H	I	J
1	Selected Item	Date	Oil Prod	Oil Sales	Gas Prod	Gas Sales	Water Prod	Gas Flare		
2	Multi selection	6/1/2021	2,377	2,130	13,709	13,540	3,084	0		
3	Multi selection	6/2/2021	1,964	1,879	12,920	12,666	2,475	115.21		
4	Multi selection	6/3/2021	2,220	2,359	13,747	13,578	3,119	0		
5	Multi selection	6/4/2021	2,182	2,167	13,057	12,888	2,901	0		
6	Multi selection	6/5/2021	2,126	2,029	13,121	12,923	2,864	28.73		
7	Multi selection	6/6/2021	2,162	2,126	13,615	13,446	3,180	0		
8	Multi selection	6/7/2021	2,350	2,359	13,650	13,481	3,379	0		
9	Multi selection	6/8/2021	2,401	2,256	13,449	13,147	3,396	133.75		
10	Multi selection	6/9/2021	1,916	1,757	12,639	12,478	2,668	0		
11	Multi selection	6/10/2021	2,241	2,322	15,981	15,820	2,492	0		
12	Multi selection	6/11/2021	2,080	1,904	12,226	12,047	2,167	13.04		
13	Multi selection	6/12/2021	2,364	2,429	13,639	13,470	3,267	0		
14	Multi selection	6/13/2021	2,328	2,261	13,448	13,279	3,175	0		
15	Multi selection	6/14/2021	2,402	2,474	13,995	13,826	3,198	0		
16	Multi selection	6/15/2021	2,391	2,670	13,806	13,637	3,351	0		
17	Multi selection	6/16/2021	2,389	2,496	13,794	13,625	3,291	0		
18	Multi selection	6/17/2021	2,419	2,482	13,937	13,768	3,271	0		
19	Multi selection	6/18/2021	2,429	2,316	13,998	13,829	3,260	0		
20	Multi selection	6/19/2021	2,394	2,071	13,996	13,827	3,511	0		
21	Multi selection	6/20/2021	2,475	2,192	14,034	13,865	3,143	0		
22	Multi selection	6/21/2021	2,333	2,701	12,947	12,778	3,244	0		
23	Multi selection	6/22/2021	2,379	2,295	13,213	13,044	3,108	0		
24	Multi selection	6/23/2021	1,861	2,049	13,360	13,209	2,527	0		
25	Multi selection	6/24/2021	2,321	2,432	13,898	13,729	3,176	0		
26	Multi selection	6/25/2021	2,265	2,041	13,601	13,432	3,140	0		
27	Multi selection	6/26/2021	2,314	1,246	13,655	13,486	3,049	0		
28	Multi selection	6/27/2021	2,282	220	13,575	13,406	3,093	0		
29	Multi selection	6/28/2021	2,206	2,265	13,525	13,355	3,010	0		
30	Multi selection	6/29/2021	2,211	1,679	13,524	13,355	3,091	0		
31	Multi selection	6/30/2021	2,201	1,708	13,529	13,360	3,063	0		
32										
33		Total	67,983	63,315	407,588	402,294	91,693	291		
34		Average	2,266	2,111	13,586	13,410	3,056	10		
35										
36										

Production Data Sheet1

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Cimmaron Model CEI-1-30.jpg

Photos - Cimarron Model CEI-1-60.jpg

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Model: CEI-1-60

- EPA certified: Yes (8/12/2014)
- Max Flow Rate: 57.6 MSCFD
- Min Flow Rate: 12.0 MSCFD
- Max Heat Release: 6.1 MMBtu/hr
- Inlet Pressure Range: 1 to 16 oz/in2
- Pilot fuel required: 5-7 psig
- Pilot fuel consumption: 14-17 SCFH
- Stack Temperature: 500-1200 Deg F
- Turndown ratio: 4.8 : 1
- VOC destruction efficiency: Minimum DRE is 95%
- Dimensions: 60" square base x 161" high
- Brand: Cimarron

9. Well List with API, NDIC, Status.xlsx

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D30 Pre-Spud								
	A	B	C	D	E	F	G	H
1	Well Name	API Number	NDIC File No.	Status				
2	Clarks Creek 101-1819H	33-053-03612	20886	Producing				
3	Clarks Creek 13-1806H	33-053-03613	20887	Producing				
4	Clarks Creek 14-1819H	33-053-03614	20888	Producing				
5	Clarks Creek 11-0706H	33-053-03615	20890	Producing				
6	Clarks Creek 12-0719H	33-053-03616	20891	Producing				
7	Clarks Creek 16-0706H	33-053-03617	20892	Producing				
8	CLARKS CREEK 75-0719H	33-053-07660	32793	Pre-Spud				
9	Clarks Creek 74-0719H	33-053-07661	32794	Producing				
10	Clarks Creek 110-0719H	33-053-07662	32795	Producing				
11	Clarks Creek 73-0719H	33-053-07663	32796	Producing				
12	Clarks Creek 72-0706H	33-053-07664	32797	Producing				
13	Clarks Creek 107-0706H	33-053-07665	32798	Producing				
14	Clarks Creek 24-0706H	33-053-07666	32799	Producing				
15	Clarks Creek 155-0706H	33-053-07667	32800	Producing				
16	Clarks Creek 75-0719HX	33-053-07809	33050	Producing				
17	Clarks Creek 151-0720H	33-053-08343	34380	Producing				
18	CLARKS CREEK 67-0719H	33-053-08344	34381	Pre-Spud				
19	Clarks Creek 108-0706H	33-053-08359	34448	Producing				
20	CLARKS CREEK 65-07H	33-053-08455	34677	Pre-Spud				
21	Clarks Creek 63-07H	33-053-08456	34678	Producing				
22	CLARKS CREEK 66-0706H	33-053-08457	34679	Pre-Spud				
23	CLARKS CREEK 64-0705H	33-053-08458	34680	Pre-Spud				
24	Clarks Creek 65-07HX	33-053-09348	37356	Producing				
25	CLARKS CREEK 44-0701H	33-053-09054	36409	Pre-Spud				
26	Clarks Creek 45-0705H	33-053-09055	36410	Producing				
27	Clarks Creek 46-0706H	33-053-09056	36411	Producing				
28	Clarks Creek 47-0706H	33-053-09057	36412	Producing				
29	Clarks Creek 106-0724H	33-053-09058	36413	Producing				
30	CLARKS CREEK 17-0719H	33-053-09059	36414	Pre-Spud				
31	Clarks Creek 18-0719H	33-053-09060	36415	Producing				
32	Clarks Creek 105-0719H	33-053-09061	36416	Producing				
33								
34								
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