



Certificate of Analysis

Number: 6030-21090237-002A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Chandler Montgomery
Occidental Petroleum
1502 W Commerce Dr.
Carlsbad, NM 88220

Oct. 01, 2021

Field: Turkey
Station Name: Turkey Track CTB Check A
Station Number: 14670A
Station Location: CTB
Sample Point: Meter
Formation: Monthly
County: Eddy, NM
Type of Sample: : Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: : Fill and Purge
Sampling Company: : SPL

Sampled By: Michael Mirabal
Sample Of: Gas Spot
Sample Date: 09/24/2021 01:28
Sample Conditions: 72 psia, @ 89 °F Ambient: 85 °F
Effective Date: 09/24/2021 01:28
Method: GPA-2261M
Cylinder No: 5030-04971
Instrument: 6030_GC2 (Agilent GC-7890B)
Last Inst. Cal.: 09/13/2021 15:05 PM
Analyzed: 09/29/2021 11:37:10 by KNF

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.000	0.000		GPM TOTAL C2+	6.181
Nitrogen	2.077	2.055	2.631		GPM TOTAL C3+	3.073
Methane	77.029	76.211	55.875		GPM TOTAL iC5+	0.815
Carbon Dioxide	0.226	0.224	0.451			
Ethane	11.768	11.643	16.000	3.108		
Propane	5.465	5.407	10.896	1.487		
Iso-butane	0.729	0.721	1.915	0.236		
n-Butane	1.719	1.701	4.518	0.535		
Iso-pentane	0.497	0.492	1.622	0.180		
n-Pentane	0.517	0.512	1.688	0.185		
Hexanes Plus	1.045	1.034	4.404	0.450		
	101.072	100.000	100.000	6.181		

Calculated Physical Properties

Relative Density Real Gas	Total	C6+
	0.7581	3.2176
Calculated Molecular Weight	21.88	93.19
Compressibility Factor	0.9961	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.65 psia & 60°F

Real Gas Dry BTU	1285	5113
Water Sat. Gas Base BTU	1263	5024
Ideal, Gross HV - Dry at 14.65 psia	1280.0	5113.2
Ideal, Gross HV - Wet	1257.6	5023.7
Net BTU Dry Gas - real gas	1167	
Net BTU Wet Gas - real gas	1147	

Comments: H2S Field Content 2.5 ppm
Mcf/day 186.55

Data reviewed by: Krystle Fitzwater, Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Turkey Track CTB**Flare Date:** 04/05/2022**Duration of event:** 45 minutes**MCF Flared:** 357**Start Time:** 05:00 PM**End Time:** 05:45 PM**Cause:** Multiple Compressor Malfunctions > Detonation**Method of Flared Gas Measurement:** Gas Flare Meter**Comments:** This upset event was not caused by any wells associated with the facility.

1. Reason why this event was beyond Operator's control:

In this case, USA sales gas compressor unit 1 and NGSG sales gas compressor units # 3 & 4 automatically shut down at the same time due to compressor malfunctions caused by cylinder detonation. A detonation compressor malfunction can be caused by any number of things, such as fuel quality change, temperature changes, psi changes, oil issues, plugs and valves failing, etc., yet as it pertains to this event, there were no alarms on the compressor CAT panel, to indicate why a detonation malfunction occurred, given that the units underwent a comprehensive preventative maintenance workup not too long ago and such work was performed by the compression owner, USA Compression. Detonation is an internal compressor malfunction and notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. With the multiple gas compressors down, there was no gas takeaway, and thus field psi increased until set psi levels were reached which triggered flaring, as a safety measure for operations, facility equipment, and personnel. All gas compressor units were working as designed and operated normally prior to the sudden and without warning detonation malfunctions of these gas compressor units. This incident was completely out of OXY's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently during this event.

2. Steps Taken to limit duration and magnitude of venting or flaring:

It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown alarms, increased sensor pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause.

In this case, USA sales gas compressor unit 1 and NGS sales gas compressor units # 3 & 4 automatically shut down at the same time due to compressor malfunctions caused by cylinder detonation. A detonation compressor malfunction can be caused by any number of things, such as fuel quality change, temperature changes, psi changes, oil issues, plugs and valves failing, etc., yet as it pertains to this event, there were no alarms on the compressor CAT panel, to indicate why a detonation malfunction occurred, given that the units underwent a comprehensive preventative maintenance workup not too long ago and such work was performed by the compression owner, USA Compression. An Oxy production tech was not on-site when the compressor malfunctions occurred, but did receive the compressor malfunction alarms and quickly arrived to the facility and immediately began to inspect the gas compressor units to determine cause of the malfunctions. Finding no other cause, except for detonation malfunctions off the CAT panel, the production tech was able to clear the malfunction alarms and restart the gas compressor units. Shortly thereafter, once the gas compressor reached its optimized working operation and speed, did flaring cease. The production tech stayed on-site for a short period of time in order to monitor the sales gas compressor units. No further incidents occurred. OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently to resolve the issues.

3. Corrective Actions taken to eliminate the cause and reoccurrence of venting or flaring:

Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to keep continue with its compression equipment preventative maintenance program for this facility and its compression equipment.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 100408

DEFINITIONS

Operator: OXY USA WTP LIMITED PARTNERSHIP P.O. Box 4294 Houston, TX 772104294	OGRID: 192463
	Action Number: 100408
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: <ul style="list-style-type: none">• this application's operator, hereinafter "this operator";• venting and/or flaring, hereinafter "vent or flare";• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";• the statements in (and/or attached to) this, hereinafter "the statements in this";• and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 100408

QUESTIONS

Operator: OXY USA WTP LIMITED PARTNERSHIP P.O. Box 4294 Houston, TX 772104294	OGRID: 192463
	Action Number: 100408
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**Prerequisites**

Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.

Incident Well	Not answered.
Incident Facility	[fAPP2126265645] TURKEY TRACK CTB

Determination of Reporting Requirements

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

Was this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.

An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.

Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved

Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare > Multiple Compressor Malfunctions > Detonation

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	76
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	2
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0

If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.

Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 100408

QUESTIONS (continued)

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	Action Number: 100408
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/05/2022
Time vent or flare was discovered or commenced	05:00 PM
Time vent or flare was terminated	05:45 PM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 357 Mcf Recovered: 0 Mcf Lost: 357 Mcf]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Gas Flare Meter
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	In this case, USA sales gas compressor unit 1 and NGSG sales gas compressor units # 3 & 4 automatically shut down at the same time due to compressor malfunctions caused by cylinder detonation. A detonation compressor malfunction can be caused by any number of things, such as fuel quality change, temperature changes, psi changes, oil issues, plugs and valves failing, etc., yet as it pertains to this event, there were no alarms on the compressor CAT panel, to indicate why a detonation malfunction occurred, given that the units underwent a comprehensive preventative maintenance workup not too long ago and such work was performed by the compression owner, USA Compression. Detonation is an internal compressor malfunction and notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. With the multiple gas compressors down, there was no gas takeaway, and thus field psi increased until set psi levels were reached which triggered flaring, as a safety measure for operations, facility equipment, and personnel. All gas compressor units were working as designed and operated normally prior to the sudden and without warning detonation malfunctions of these gas compressor units. This incident was completely out of OXY's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently during this event.
Steps taken to limit the duration and magnitude of vent or flare	It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown alarms, increased sensor pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, USA sales gas compressor unit 1 and NGSG sales gas compressor units # 3 & 4 automatically shut down at the same time due to compressor malfunctions caused by cylinder detonation. A detonation compressor malfunction can be caused by any number of things, such as fuel quality change, temperature changes, psi changes, oil issues, plugs and valves failing, etc., yet as it pertains to this event, there were no alarms on the compressor CAT panel, to indicate why a detonation malfunction occurred, given that the units underwent a comprehensive preventative maintenance workup not too long ago and such work was performed by the compression owner, USA Compression. An Oxy production tech was not on-site when the compressor malfunctions occurred, but did receive the compressor malfunction alarms and quickly arrived to the facility and immediately began to inspect the gas compressor units to determine cause of the malfunctions. Finding no other cause, except for detonation malfunctions off the CAT panel, the production tech was able to clear the malfunction alarms and restart the gas compressor units.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to keep continue with its compression equipment preventative maintenance program for this facility and its compression equipment.

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ACKNOWLEDGMENTS

Action 100408

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Operator: OXY USA WTP LIMITED PARTNERSHIP P.O. Box 4294 Houston, TX 772104294	OGRID:
	192463
	Action Number:
	100408
Action Type:	
[C-129] Venting and/or Flaring (C-129)	

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
<input checked="" type="checkbox"/>	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
<input checked="" type="checkbox"/>	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
<input checked="" type="checkbox"/>	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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	Action Number: 100408
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
marialuna2	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	4/20/2022