



Certificate of Analysis

Number: 6030-24040534-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Chandler Montgomery
Occidental Petroleum
1502 W Commerce Dr.
Carlsbad, NM 88220

Apr. 29, 2024

Field: PERMIAN_RESOURCES
Station Name: Mesa Verde CTB Check 2 (FMP)
Station Number: 15500D
Station Location: OP-L2109-BT001
Sample Point: Meter
Property ID: FMP/LSE NMNM055953
Formation: NEW_MEXICO
County:
Well Name: CTB
Type of Sample: : Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: : Fill and Purge

Sampled By: JE
Sample Of: FS Separator Gas Spot
Sample Date: 04/18/2024 10:20
Sample Conditions: 84 psig, @ 76 °F Ambient: 75 °F
Effective Date: 04/18/2024 10:20
Flow Rate: 46210 MSCFD
Method: GPA-2261M
Cylinder No: 9999-005157
Instrument: 70104251 (Inficon GC-MicroFusion)
Last Inst. Cal.: 04/22/2024 0:00 AM
Analyzed: 04/25/2024 07:17:05 by EBH
Sampling Company: : OXY

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia
Hydrogen Sulfide	0.0000	0.0000	0.0000	
Nitrogen	1.6661	1.6670	2.0766	
Carbon Dioxide	3.8369	3.8389	7.5130	
Methane	73.8729	73.9124	52.7288	
Ethane	10.8777	10.8835	14.5528	2.905
Propane	5.6687	5.6717	11.1216	1.560
Iso-Butane	0.7402	0.7406	1.9142	0.242
n-Butane	1.7965	1.7975	4.6459	0.566
Iso-Pentane	0.4287	0.4289	1.3761	0.157
n-Pentane	0.4689	0.4692	1.5054	0.170
Hexanes	0.2789	0.2790	1.0692	0.115
Heptanes	0.1860	0.1861	0.8292	0.086
Octanes	0.0752	0.0752	0.3820	0.038
Nonanes Plus	0.0500	0.0500	0.2852	0.028
	99.9467	100.0000	100.0000	5.867

Calculated Physical Properties

Calculated Molecular Weight	Total	C9+
	22.49	128.26
Compressibility Factor	0.9962	
Relative Density Real Gas	0.7791	4.4283

GPA 2172 Calculation:

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

Real Gas Dry BTU	1233.1	6974.4
Water Sat. Gas Base BTU	1212.0	6852.4
Ideal, Gross HV - Dry at 14.65 psia	1228.4	6974.4
Ideal, Gross HV - Wet	1206.9	6852.4

Comments: H2S Field Content 0 ppm
WO# N/A

Hydrocarbon Laboratory Manager

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

UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Mesa Verde 18 CTB**Vent Date:** 05/14/2024**Duration of Event:** 24 Hours**MCF Vented:** 74**Start Time:** 12:00 AM**End Time:** 11:59 PM**Cause:** Underground Pipeline > Venting Leak > Corrosion**Method of Vented Gas Measurement:** Allocation

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

This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. In this case, this sudden and unexpected vent release was caught during a flyover on May 12th, 2024. The results of that flyover were submitted to Oxy personnel for review on May 14th, 2024. An Oxy emissions technician physically verified the vent leak on May 15th, 2024. It was determined that this venting leak event was caused by a sudden and unexpected malfunction of the injection line which developed a pin sized hole due to corrosion. This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. Once the venting leak was identified, it was isolated, repaired and tested to ensure no further venting occurred. This event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible.

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 rather than vent during an unforeseen and unavoidable emergency or malfunction, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of venting or flaring. In this case, this sudden and unexpected vent release was caught during a flyover on May 12th, 2024. The results of that flyover were submitted to Oxy personnel for review on May 14th, 2024. An Oxy emissions technician physically verified the vent leak on May 15th, 2024, via a FLIR camera. It was determined that this venting leak event was caused by a sudden and unexpected malfunction of the injection line which developed a pin sized hole due to corrosion. Once the venting leak was identified, it was isolated, repaired and tested to ensure no further venting occurred. This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. Once the venting leak was identified by the emission technician, a production technician shut the well in, isolated the piping and blew down the line, until additional field personnel can repair the hole in the line. The emissions tech assisted with ensuring the leak was stopped and verified such by using the FLIR camera. This event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible.

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

Oxy is limited in its corrective actions to eliminate the cause and potential reoccurrence of a vent leak from an injection line caused by corrosion, as these type of vent leaks can be sudden, reasonably unforeseeable, and unexpected which can occur without warning or advance notice. Oxy is unable to determine when and if a gas pipeline in remote field areas will have underground leaks yet OXY makes every effort to identify, isolate and halt such emissions when possible during these types of circumstances. The limited actions that Oxy can do in these types of circumstances is to resolve the issues, should they occur, in a timely manner and continue with its area flyover surveying as part of its overall positive operation and maintenance programs.

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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

DEFINITIONS

Action 348934

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 348934
	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 348934

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	348934
	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	Unavailable.
Incident Facility	[fAPP2126659618] MESA VERDE 18 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	Yes
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	Underground Pipeline > Venting Leak > Corrosion

Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	74
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	4
Oxygen (02) 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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (02) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 348934

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 348934
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/14/2024
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other Other (Specify) Natural Gas Vented Released: 74 Mcf Recovered: 0 Mcf Lost: 74 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Allocation of Calculated Estimates
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	<p>This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. In this case, this sudden and unexpected vent release was caught during a flyover on May 12th, 2024. The results of that flyover were submitted to Oxy personnel for review on May 14th, 2024. An Oxy emissions technician physically verified the vent leak on May 15th, 2024. It was determined that this venting leak event was caused by a sudden and unexpected malfunction of the injection line which developed a pin sized hole due to corrosion. This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. Once the venting leak was identified, it was isolated, repaired and tested to ensure no further venting occurred. This event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible.</p>
	<p>It is OXY's policy to route all stranded gas to a flare rather than vent during an unforeseen and unavoidable emergency or malfunction, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of venting or flaring. In this case, this sudden and unexpected vent release was caught during a flyover on May 12th, 2024. The results of that flyover were submitted to Oxy personnel for review on May 14th, 2024. An Oxy emissions technician</p>

Steps taken to limit the duration and magnitude of vent or flare	physically verified the vent leak on May 15th, 2024, via a FLIR camera. It was determined that this venting leak event was caused by a sudden and unexpected malfunction of the injection line which developed a pin sized hole due to corrosion. Once the venting leak was identified, it was isolated, repaired and tested to ensure no further venting occurred. This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. Once the venting leak was identified by the emission technician, a production technician shut the well in, isolated the piping and blew down the line, until additional field personnel can repair the hole in the line. The emissions tech assisted with ensuring the leak was stopped and verified such by using the FLIR camera. This event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible.
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ACKNOWLEDGMENTS

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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: 348934
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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.	5/29/2024