



Certificate of Analysis

Number: 6030-25020454-001A

Artesia Laboratory

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

Field: PERMIAN_RESOURCES
 Station Name: Arkenstone 31 Fed Com 172H GL
 Station Number: 176821
 Station Location: OP-L222-WELLS-WPI-0000012
 Sample Point: Well
 Property ID: FMP/LSE N/A
 Formation: NEW_MEXICO
 County: Eddy, NM
 Well Name: Gas Lift
 Type of Sample: Spot-Cylinder
 Sampling Company: SPL - OXY
 Heat Trace Used: N/A
 Sampling Method: Purge and Fill
 Last Inst. Cal.: 02/24/2025 08:26:35
 Analyzed: 02/25/2025 11:26:30 by CDW

Report Date: 02/25/2025
 Sampled By: Adrian Guzman
 Sample Of: Gas
 Sample Type: Spot
 Sample Conditions: 1166 psig, @ 108 °F Ambient: 65 °F
 Sample Date: 02/17/2025 13:35
 Received Date: 02/20/2025
 Login Date: 02/20/2025
 Effective Date: 02/01/2025
 Flow Rate: 1800 MSCFD
 Sampling Method:
 Heating Method:
 Method: GPA-2261M
 Cylinder No: 1111-002451
 Instrument: 70142339 (Inficon GC-MicroFusion)

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.0000	0.0000	0.0000		GPM TOTAL C2+	6.397
Nitrogen	1.5815	1.5712	2.0144		GPM TOTAL C3+	3.148
Methane	76.2871	75.7918	55.6460		GPM TOTAL iC5+	0.619
Carbon Dioxide	0.1456	0.1447	0.2914			
Ethane	12.2514	12.1718	16.7500	3.249		
Propane	5.8862	5.8480	11.8017	1.608		
Iso-butane	0.9068	0.9009	2.3964	0.294		
n-Butane	2.0044	1.9914	5.2971	0.627		
Iso-pentane	0.4760	0.4729	1.5615	0.173		
n-Pentane	0.5028	0.4995	1.6493	0.181		
Hexanes Plus	0.6118	0.6078	2.5922	0.265		
	100.6536	100.0000	100.0000	6.397		

Calculated Physical Properties

Relative Density Real Gas	Total	C6+
Calculated Molecular Weight	0.7571	3.2176
Compressibility Factor	21.85	93.19
	0.9961	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1293	5113
Water Sat. Gas Base BTU	1271	5024
Ideal, Gross HV - Dry at 14.65 psia	1288.4	5113.2
Ideal, Gross HV - Wet	1265.8	5023.7
Net BTU Dry Gas - real gas	1174	
Net BTU Wet Gas - real gas	1154	

Comments: H2S Field Content: 0 ppm

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

**UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM****Well Id#** 30-015-47318**Operator:** OXY USA, Inc.**Facility:** Arkenstone 31 Federal # 172H**Vent Date:** 05/03/2025**Duration of Event:** 1 Hour**MCF Vented:** 95**Start Time:** 12:00 PM**End Time:** 01:00 PM**Cause:** Arkenstone 31 Federal # 172H > Flow Line A > Flow Line Rupture**Method of Vented Gas Measurement:** Allocated Calculation

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. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this instance, Arkenstone 31 Federal # 172H had a flow line rupture on flow line A on a right a-way going towards the Precious CTB. The flow line is an existing flex steel line which had a compromised integrity due to a defect in its bend, which in turn, caused the flow line to rub against another line and create a wear spot in the line. The flow line ultimately ruptured, leading to the release of fluid and gas into the atmosphere. The flow line did not reach its maximum allowable working pressure. It was rated for the pressures at which it was operated before the rupture and subsequent venting occurred. All the flow lines were functioning as designed and operating normally prior to the unexpected malfunction. This equipment malfunction was spotted during production tech's daily rounds of the area. This venting event is out of OXY's control to prevent it from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently.

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

In this instance, Arkenstone 31 Federal # 172H had a flow line rupture on flow line A on a right a-way going towards the Precious CTB. The flow line is an existing flex steel line which had a compromised integrity due to a defect in its bend, which in turn, caused the flow line to rub against another line and create a wear spot in the line. The flow line ultimately ruptured, leading to the release of fluid and gas into the atmosphere. The flow line did not reach its maximum allowable working pressure. It was rated for the pressures at which it was operated before the rupture and subsequent venting occurred. As soon as venting was recognized as occurring, the production tech contacted the field's Rover and Surface Lead to inform them of the issue. The venting was stopped once repairs were made and tested to ensure venting was no longer occurring. While venting is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and continued safety of our operations. This event is out of OXY's control yet 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 has limited options for corrective actions to address the causes and potential recurrence of flowline equipment malfunctions. Faulty flow lines that have bends and curves in them are marked and are in the process of being removed and replaced. The production technicians on site are conducting routine inspections, monitoring the flow lines and the activity of the operational lines. Flowback personnel monitor the flow line pressure and flow line temperature. This flow line has a sacrificial valve on it and its cut back 50% to help alleviate high temperature. Facility equipment, regardless of type, can experience sudden and unforeseeable alarms, whether false or true, which may lead to unexpected malfunctions and subsequently trigger venting events. Oxy continually strives to maintain and operate all its equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

DEFINITIONS

Action 464915

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464915
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 464915

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464915
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	[30-015-47318] ARKENSTONE 31 FEDERAL #172H
Incident Facility	Unavailable.

Determination of Reporting Requirements <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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.
<i>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.</i>	
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 within 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	Arkenstone 31 Federal # 172H > Flow Line A > Flow Line Rupture

Representative Compositional Analysis of Vented or Flared Natural Gas <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	76
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 464915

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464915
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/03/2025
Time vent or flare was discovered or commenced	12:00 PM
Time vent or flare was terminated	01:00 PM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other Other (Specify) Natural Gas Vented Released: 95 Mcf Recovered: 0 Mcf Lost: 95 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Allocated Calculation
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. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this instance, Arkenstone 31 Federal # 172H had a flow line rupture on flow line A on a right a-way going towards the Precious CTB. The flow line is an existing flex steel line which had a compromised integrity due to a defect in its bend, which in turn, caused the flow line to rub against another line and create a wear spot in the line. The flow line ultimately ruptured, leading to the release of fluid and gas into the atmosphere. The flow line did not reach its maximum allowable working pressure. It was rated for the pressures at which it was operated before the rupture and subsequent venting occurred. All the flow lines were functioning as designed and operating normally prior to the unexpected malfunction. This equipment malfunction was spotted during production tech's daily rounds of the area. This venting event is out of OXY's control to prevent it from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently.</p> <p>In this instance, Arkenstone 31 Federal # 172H had a flow line rupture on flow line A on a right a-way going towards the Precious CTB. The flow line is an existing flex steel line which had a compromised integrity due to a defect in its bend, which in turn, caused the flow line to</p>

Steps taken to limit the duration and magnitude of vent or flare	rub against another line and create a wear spot in the line. The flow line ultimately ruptured, leading to the release of fluid and gas into the atmosphere. The flow line did not reach its maximum allowable working pressure. It was rated for the pressures at which it was operated before the rupture and subsequent venting occurred. As soon as venting was recognized as occurring, the production tech contacted the field's Rover and Surface Lead to inform them of the issue. The venting was stopped once repairs were made and tested to ensure venting was no longer occurring. While venting is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and continued safety of our operations. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy has limited options for corrective actions to address the causes and potential recurrence of flowline equipment malfunctions. Faulty flow lines that have bends and curves in them are marked and are in the process of being removed and replaced. The production technicians on site are conducting routine inspections, monitoring the flow lines and the activity of the operational lines. Flowback personnel monitor the flow line pressure and flow line temperature. This flow line has a sacrificial valve on it and its cut back 50% to help alleviate high temperature. Facility equipment, regardless of type, can experience sudden and unforeseeable alarms, whether false or true, which may lead to unexpected malfunctions and subsequently trigger venting events. Oxy continually strives to maintain and operate all its equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/contact-us>

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

ACKNOWLEDGMENTS

Action 464915

ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464915
	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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 464915

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 464915
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
shelbyschoepf	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.	5/19/2025