



Certificate of Analysis

Number: 6030-21120103-001A

Artesia Laboratory

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

Dec. 13, 2021

Field:	Cal Mon	Sampled By:	Scott Beasley
Station Name:	Cal Mon 35-2 CTB Check	Sample Of:	Gas Spot
Station Number:	17120C	Sample Date:	12/09/2021 12:36
Station Location:	CTB	Sample Conditions:	104.4 psig, @ 74.4 °F Ambient: 72 °F
Sample Point:	Meter	Effective Date:	12/09/2021 12:36
Formation:	Monthly	Method:	GPA-2261M
County:	Eddy	Cylinder No:	1111-002286
Type of Sample:	Spot-Cylinder	Instrument:	70142339 (Inficon GC-MicroFusion)
Heat Trace Used:	No	Last Inst. Cal.:	12/13/2021 0:00 AM
Sampling Method:	Fill and Purge	Analyzed:	12/13/2021 15:42:10 by ERG
Sampling Company:	SPL		

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia
Hydrogen Sulfide	NIL	NIL	NIL	
Nitrogen	1.709	1.72472	2.174	
Carbon Dioxide	1.918	1.93502	3.831	
Methane	73.954	74.62592	53.860	
Ethane	11.486	11.59012	15.678	3.094
Propane	5.817	5.87024	11.645	1.614
Iso-Butane	0.769	0.77548	2.028	0.253
n-Butane	1.909	1.92604	5.036	0.606
Iso-Pentane	0.429	0.43269	1.404	0.158
n-Pentane	0.477	0.48103	1.561	0.174
Hexanes	0.290	0.29233	1.133	0.120
Heptanes	0.225	0.22704	1.023	0.105
Octanes	0.096	0.09717	0.499	0.050
Nonanes Plus	0.022	0.02220	0.128	0.012
	99.101	100.00000	100.000	6.186

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	22.23	128.26
Compressibility Factor	0.9961	
Relative Density Real Gas	0.7702	4.4283

GPA 2172 Calculation:

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

Real Gas Dry BTU	1266.2	6974.4
Water Sat. Gas Base BTU	1244.5	6852.4
Ideal, Gross HV - Dry at 14.65 psia	1261.2	6974.4
Ideal, Gross HV - Wet	1239.2	6852.4

Comments: H₂S Field Content 0 ppm
Mcf/day 14231

Hydrocarbon 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:** Cal Mon 35 Federal 2 CTB**Flare Date:** 02/12/2022**Duration of event:** 58 Minutes**MCF Flared:** 153**Start Time:** 02:42 PM**End Time:** 03:40 PM**Cause:** Downstream Activity Issue > Enterprise > Facility Emergency Shutdown**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:

The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-in of a gas pipeline by a third-party pipeline operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production techs must assess and determine cause of flaring at its upstream facility. In this case, third-party pipeline operator, Enterprise, had an emergency shutdown of their downstream Sand Dunes North Corridor station facility, which was, caused by a high slop tank level, which then triggered their ESD alarm, prompting the immediate shutdown their facility. This sudden and unexpected Enterprise facility shutdown greatly impacted the gas flow from Oxy's upstream facility when Enterprise's ESD valve immediately closed when triggered by the high slop tank level alarm. This ESD of Enterprise's facility caused a flaring event at Oxy's upstream facility as Oxy was unable to push its gas to Enterprise's sales gas service pipeline. Until Enterprise's facility was back up and returned to normal working operation and was able to handle the volume of gas sent to them, Oxy was forced to route stranded gas to a flare, as it was not able to push all its gas into Enterprise's gas pipeline. Upon immediate flaring at Oxy's facility, Oxy personnel immediately contacted Enterprise to determine cause. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service system pipeline, the ESD system or valve, and/or issues with their downstream facility. Oxy personnel had to contact Enterprise directly when flaring started at its upstream facility to determine cause, as all Oxy's facility equipment were operating as designed prior to the flaring event occurring.

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, 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 flaring. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this case, third-party pipeline operator, Enterprise, had an emergency shutdown of their downstream Sand Dunes North Corridor station facility, which was, caused by a high slop tank level, which then triggered their ESD alarm, prompting the immediate shutdown their facility. This sudden and unexpected Enterprise facility shutdown greatly impacted the gas flow from Oxy's upstream facility when Enterprise's ESD valve immediately closed when triggered by the high slop tank level alarm. This ESD of Enterprise's facility caused a flaring event at Oxy's upstream facility as Oxy was unable to push its gas to Enterprise's sales gas service pipeline. Until Enterprise's facility was back up and returned to normal working operation and was able to handle the volume of gas sent to them, Oxy was forced to route stranded gas to a flare, as it was not able to push all its gas into Enterprise's gas pipeline. Upon immediate flaring at Oxy's facility, Oxy personnel immediately contacted Enterprise to determine cause. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service system pipeline, the ESD system or valve, and/or issues with their downstream facility. Oxy personnel had to contact Enterprise directly when flaring started at its upstream facility to determine cause, as all Oxy's facility equipment were operating as designed prior to the flaring event occurring. Oxy personnel were informed by Enterprise personnel that an Enterprise mechanic was enroute to open their ESD valve and bring their Sand Dunes North Corridor Station back online to resume normal working operations. Once Enterprise downstream facility resumed normal working operations and began gas sales pipeline service once again, did flaring cease.

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 an Enterprise gas flow pipeline restriction or shut in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening or reoccurring. Enterprise's downstream facility issues will re-occur from time to time, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise downstream facility and/or its facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts or cuts off Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the Enterprise gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible during these circumstances. The limited actions that Oxy can do in this circumstance is to shut in multiple high GOR wells and engage in secondary third-party operator offload alternative routes, when possible, to minimize flaring volumes during this third-party pipeline operator downstream activity restriction and/or shut in.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
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 84534

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 84534
	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: • 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 84534

QUESTIONS

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	Action Number: 84534
	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	[fAPP2126664875] CALMON 35-2 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 > Downstream Activity Issue > Enterprise > Facility Emergency Shutdown

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	75
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	2
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 84534

QUESTIONS (continued)

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

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/12/2022
Time vent or flare was discovered or commenced	02:42 PM
Time vent or flare was terminated	03:40 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: 153 Mcf Recovered: 0 Mcf Lost: 153 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	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[713731] Enterprise Crude Pipeline LLC
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	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-in of a gas pipeline by a third-party pipeline operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production techs must assess and determine cause of flaring at its upstream facility. In this case, third-party pipeline operator, Enterprise, had an emergency shutdown of their downstream Sand Dunes North Corridor station facility, which was, caused by a high slop tank level, which then triggered their ESD alarm, prompting the immediate shutdown their facility. This sudden and unexpected Enterprise facility shutdown greatly impacted the gas flow from Oxy's upstream facility when Enterprise's ESD valve immediately closed when triggered by the high slop tank level alarm. This ESD of Enterprise's facility caused a flaring event at Oxy's upstream facility as Oxy was unable to push its gas to Enterprise's sales gas service pipeline. Until Enterprise 's facility was back up and returned to normal working operation and was able to handle the volume of gas sent to them, Oxy was forced to route stranded gas to a flare, as it was not able to push all its gas into Enterprise's gas pipeline.
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, 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 flaring. In this case, third-party pipeline operator, Enterprise, had an emergency shutdown of their downstream Sand Dunes North Corridor station facility, which was, caused by a high slop tank level, which then triggered their ESD alarm, prompting the immediate shutdown their facility. This sudden and unexpected Enterprise facility shutdown greatly impacted the gas flow from Oxy's upstream facility when Enterprise's ESD valve immediately closed when triggered by the high slop tank level alarm. This ESD of Enterprise's facility caused a flaring event at Oxy's upstream facility as Oxy was unable to push its gas to Enterprise's sales gas service pipeline. Until Enterprise 's facility was back up and returned to normal working operation and was able to handle the volume of gas sent to them, Oxy was forced to route stranded gas to a flare, as it was not able to push all its gas into Enterprise's gas pipeline. Upon immediate flaring at Oxy's facility, Oxy personnel immediately contacted Enterprise to determine cause. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service system pipeline, the ESD system or valve, and/or issues with their downstream facility. Oxy personnel had to contact Enterprise directly when flaring started at its upstream facility to determine cause, as all Oxy's facility equipment were operating as designed prior to the flaring event occurring. Oxy personnel were informed by Enterprise personnel that an Enterprise mechanic was enroute to open their ESD valve and bring their Sand Dunes North Corridor Station back online to resume normal working operations.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in its corrective actions to eliminate the cause and potential reoccurrence of an Enterprise gas flow pipeline restriction or shut in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening or reoccurring. Enterprise 's downstream facility issues will re-occur from time to time, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise downstream facility and/or its facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts or cuts off Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the Enterprise gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible during these circumstances. The limited actions that Oxy can do in this circumstance is to shut in multiple high GOR wells and engage in secondary third-party operator offload alternative routes, when possible, to minimize flaring volumes during this third-party pipeline operator downstream activity restriction and/or shut in.

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ACKNOWLEDGMENTS

Action 84534

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	Action Number: 84534
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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.
☒	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.
☒	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.
☒	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.
☒	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

Action 84534

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	Action Number: 84534
	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.	2/27/2022