



Certificate of Analysis

Number: 6030-20070033-006A

Artesia Laboratory

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

July 08, 2020

Field: Cypress
 Station Name: Cypress 33-1 Check
 Station Number: 65802
 Station Location: OXY
 Sample Point: Downstream
 Formation: Semi Annual
 County: Eddy
 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: 06/29/2020 12:40
 Sample Conditions: 58 psia, @ 90 °F Ambient: 82 °F
 Effective Date: 06/29/2020 12:40
 Method: GPA-2261M
 Cylinder No: 1111-002351
 Instrument: 70104251 (Inficon Gas Chromatograph-MFusion)
 Last Inst. Cal.: 07/06/2020 0:00 AM
 Analyzed: 07/08/2020 14:30:21 by PS

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	1.869	1.879	2.282		GPM TOTAL C2+	7.184
Methane	72.156	72.550	50.458		GPM TOTAL C3+	3.915
Carbon Dioxide	0.639	0.642	1.225		GPM TOTAL iC5+	0.918
Ethane	12.176	12.242	15.958	3.269		
Propane	6.906	6.944	13.275	1.910		
Iso-butane	0.965	0.970	2.444	0.317		
n-Butane	2.433	2.446	6.163	0.770		
Iso-pentane	0.620	0.623	1.949	0.228		
n-Pentane	0.696	0.700	2.190	0.253		
Hexanes Plus	0.999	1.004	4.056	0.437		
	99.459	100.000	100.000	7.184		

Calculated Physical Properties

Relative Density Real Gas	Total	C6+
	0.7996	3.2176
Calculated Molecular Weight	23.07	93.19
Compressibility Factor	0.9957	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1342	5113
Water Sat. Gas Base BTU	1319	5024
Ideal, Gross HV - Dry at 14.65 psia	1335.7	5113.2
Ideal, Gross HV - Wet	1312.3	5023.7
Net BTU Dry Gas - real gas	1220	
Net BTU Wet Gas - real gas	1199	

Comments: H₂S Field Content 0 ppm
 Mcf/day 1221.118

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:** Cypress 33-1 Battery**Vent Date:** 01/02/2022**Duration of event:** 4 Hour 30 Minutes**MCF Flared:** 95**Start Time:** 06:30 AM**End Time:** 11:00 AM**Cause:** Downstream Activity Issue > Enterprise > Extreme Freezing Weather > Compression Equipment Issues**Method of Flared Gas Measurement:** Gas Vent Meter

Comments: This upset event was not caused by any wells associated with the facility. 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.

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

In this case, the restriction/shut in of the Enterprise sales gas service pipeline system impacted Oxy's upstream facility's ability to send gas as Enterprise's downstream facility compression equipment was unable to handle the gas loads sent to them because of the extreme freezing weather affecting their equipment. Until Enterprise's techs were able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy and thusly, the gas began to vent. To minimize emissions, Oxy production techs began to shut in their wells until Enterprise was back to normal working service and they were able to handle the volume of sales gas sent to them. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility. Oxy vented minimal emissions as Oxy production tech worked swiftly and diligently to shut in the wells, during extreme freezing weather conditions. It was noted during communication with Enterprise personnel during this event, that Enterprise had multiple issues across the New Mexico area because of the extreme freezing weather conditions.

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

The steps take to limit the duration and magnitude of venting during this event was for Oxy production techs to begin to shut in the wells until Enterprise was back to normal working service and they were able to handle the volume of sales gas sent to them. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility because of the extreme freezing weather conditions. Oxy vented minimal emissions as Oxy production techs worked swiftly and diligently to shut in the wells, during extreme freezing weather conditions.

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 vent. 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 its wells in a swift and diligent manner while keeping constant communication with Enterprise personnel.

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District II
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District III
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District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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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 73027

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 73027
	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 73027

QUESTIONS

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	Action Number: 73027
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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	[fAPP2126639502] CYPRESS 33-1 BATTERY

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	Vent > Downstream Activity Issue > Enterprise > Extreme Freezing Weather > Compression Equipment Issues

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	0
Carbon Dioxide (CO2) percentage, if greater than one percent	1
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 73027

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/02/2022
Time vent or flare was discovered or commenced	06:30 AM
Time vent or flare was terminated	11:00 AM
Cumulative hours during this event	4

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: 95 Mcf Recovered: 0 Mcf Lost: 95 Mcf
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Vent Gas 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	In this case, the restriction/shut in of the Enterprise sales gas service pipeline system impacted Oxy's upstream facility's ability to send gas as Enterprise's downstream facility compression equipment was unable to handle the gas loads sent to them because of the extreme freezing weather affecting their equipment. Until Enterprise's techs were able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy and thusly, the gas began to vent. To minimize emissions, Oxy production techs began to shut in their wells until Enterprise was back to normal working service and they were able to handle the volume of sales gas sent to them. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility. Oxy vented minimal emissions as Oxy production tech worked swiftly and diligently to shut in the wells, during extreme freezing weather conditions. It was noted during communication with Enterprise personnel during this event, that Enterprise had multiple issues across the New Mexico area because of the extreme freezing weather conditions.
Steps taken to limit the duration and magnitude of vent or flare	The steps take to limit the duration and magnitude of venting during this event was for Oxy production techs to begin to shut in the wells until Enterprise was back to normal working service and they were able to handle the volume of sales gas sent to them. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding issues with their sales gas service pipeline system or issues with their downstream facility because of the extreme freezing weather conditions. Oxy vented minimal emissions as Oxy production techs worked swiftly and diligently to shut in the wells, during extreme freezing weather conditions.
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 vent. 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 its wells in a swift and diligent manner while keeping constant communication with Enterprise personnel.

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ACKNOWLEDGMENTS

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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 73027

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	Action Number: 73027
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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.	1/17/2022