Certificate of Analysis

Number: 6030-24010273-001A

Artesia Laboratory
200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

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

Jan. 25, 2024

Field:	PERMIAN_RESOURCES	Sampled By:	JE
Station Name:	Iridium Satellite Train Check (FMP)	Sample Of:	Gas Spot
Station Number:	17561C	Sample Date:	01/24/2024 13:05
Station Location:	OP-L2150-ST001	Sample Conditions:	89 psig, @ 74 °F Ambient: 63 °F
Sample Point:	Meter	Effective Date:	01/24/2024 13:05
Formation:	NEW_MEXICO	Flow Rate:	8837 MSCFD
County:		Method:	GPA-2261M
Well Name:	CTB	Cylinder No:	5030-02361
Type of Sample: :	Spot-Cylinder	Instrument:	70104251 (Inficon GC-MicroFusion)
Heat Trace Used:	N/A	Last Inst. Cal.:	01/22/2024 0:00 AM
Sampling Method: :	Fill and Purge	Analyzed:	01/25/2024 12:11:03 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	1.7490	1.7862	2.2511	
Carbon Dioxide	2.6147	2.6703	5.2870	
Methane	72.3123	73.8488	53.2991	
Ethane	11.6481	11.8956	16.0920	3.175
Propane	5.9808	6.1079	12.1169	1.680
Iso-Butane	0.6953	0.7101	1.8568	0.232
n-Butane	1.6937	1.7297	4.5229	0.544
Iso-Pentane	0.3618	0.3695	1.1994	0.135
n-Pentane	0.3931	0.4015	1.3032	0.145
Hexanes	0.2230	0.2277	0.8828	0.093
Heptanes	0.1767	0.1805	0.8137	0.083
Octanes	0.0645	0.0659	0.3387	0.034
Nonanes Plus	0.0062	0.0063	0.0364	0.004
	97.9192	100.0000	100.0000	6.125

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	22.23	128.26
Compressibility Factor	0.9962	
Relative Density Real Gas	0.7701	4.4283
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1246.6	6974.4
Water Sat. Gas Base BTU	1225.3	6852.4
Ideal, Gross HV - Dry at 14.65 psia	1241.9	6974.4
Ideal, Gross HV - Wet	1220.1	6852.4

Comments: H2S Field Content 0 ppm
FMP/LSE NMNM38464, WO#4001560848

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: NC 28 Iridium Sat

Flare Date: 07/22/2024

Duration of Event: 1 Hours 40 Minutes

MCF Flared: 873

Start Time: 01:35 AM

End Time: 03:10 AM

Cause: Emergency Flare > Third Party Downstream Activity > Enterprise Central Station > Electrical Issues

Method of Flared Gas Measurement: Gas Flare Meter

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 compressor station operator, which impacted Oxy's ability to send gas to them. This interruption, restriction, or complete shut-in of the gas pipeline by a third-party pipeline compression station operator is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, 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. In this case, Enterprise central station, a third party owned and operated downstream facility, had a sudden and unexpected ESD due to electrical issues affecting their units, which in turn shut them down, which then prompted high line pressure to occur, which then caused the field to pressure up automatically and trigger flaring to occur at the NC 28 Iridium Satellite facility. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning. The duration and volume of this flaring event is a combination of a couple flaring instances within a 24-hour period.

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

It is OXY's policy to route its 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, Enterprise central station, a third party owned and operated downstream facility, had a sudden and unexpected ESD due to electrical issues affecting their units, which in turn shut them down, which then prompted high line pressure to occur, which then caused the field to pressure up automatically and trigger flaring to occur at the NC 28 Iridium Satellite facility. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning and with the amount of gas the NC 28 Iridium Satellite facility processes, the immediate spike in field pressure did not allow Oxy to take advanced precautions to limit its emissions. As soon as flaring was triggered, field personnel engaged in Oxy's third party pipeline operation curtailment reactive stratagems and assisted with activating storage wells and began to shut-in several high GOR wells to assist with reducing field pressure so that it would stay below the flare trigger setpoints of the facility, which took some time to do. 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 is unable to take any corrective actions to eliminate the cause and potential reoccurrence of a downstream third-party owned and operated gas plant's issues, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Enterprise operations will have issues which may reoccur from time to time and may trigger a spike in the gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise's facilities have equipment issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts Oxy's ability to send gas, which then prompts Oxy to route all 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. The only actions that Oxy can take and handle that is within its control, is to continually communicate with Enterprise personnel, who operate the sales gas pipeline, when possible, during these types of circumstances.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 375149
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 375149

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 375149
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 ID (n#)	*Unavailable.*
Incident Name	*Unavailable.*
Incident Type	**Flare**
Incident Status	*Unavailable.*
Incident Facility	**[fAPP2126659962] IRIDIUM SATELLITE**
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.	

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional 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 > Third Party Downstream Activity > Enterprise > Central Station 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	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	3
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	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sufide (H2S) PPM quality requirement	0
Carbon Dioxide (C02) percentage quality requirement	0
Oxygen (02) percentage quality requirement	0

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QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 375149
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/13/2024
Time vent or flare was discovered or commenced	06:30 AM
Time vent or flare was terminated	08:37 AM
Cumulative hours during this event	2

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: 83 MCF | Recovered: 0 MCF | Lost: 83 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	
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 compressor station operator, which impacted Oxy's ability to send gas to them. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline compression station operator is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, 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. In this case, Enterprise, third party operated downstream pipeline operator, suddenly and unexpectedly had an unexpected ESD of their Central Station, which in turn caused Enterprise to suddenly and without prior notice, restrict their gas flow intake to Oxy, which in turn caused high line pressure to occur, which then triggered a flaring event to occur. All OXY operations and facility equipment were running at maximized optimization prior to the flaring event occurring. Oxy field personnel were not notified in advance of gas flow intake restrictions and/or shut-ins from Enterprise personnel prior to the flaring event occurring. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.
	It is OXY's policy to route its 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

Steps taken to limit the duration and magnitude of vent or flare	emissions as much as possible. In this case, Enterprise, third party operated downstream pipeline operator, suddenly and unexpectedly had an unexpected ESD of their Central Station, which in turn caused Enterprise to suddenly and without prior notice, restrict their gas flow intake to Oxy, which in turn caused high line pressure to occur, which then triggered a flaring event to occur. All OXY operations and facility equipment were running at maximized optimization prior to the flaring event occurring. As soon as flaring was triggered, field personnel engaged in Oxy's third party pipeline operation curtailment reactive stratagems and assisted with activating storage wells and began to shut-in several wells to assist with reducing field pressure so that it would stay below the flare trigger setpoints of the facility. If Enterprise had communicated to Oxy that a restriction of their intake/offload gas flow was going to occur because their compressor stations were having issues, which would affect Oxy's upstream operations, then Oxy would have taken immediate action to choke back several wells to avoid flaring. All OXY operations and facility equipment were running at maximized optimization prior to the flaring event occurring. 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 is unable to take any corrective actions to eliminate the cause and potential reoccurrence of a downstream third-party owned and operated gas plant's issues, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Enterprise operations will have issues which may reoccur from time to time and may trigger a spike in the gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise's facilities have equipment issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts Oxy's ability to send gas, which then prompts Oxy to route all 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. The only actions that Oxy can take and handle that is within its control, is to keep continually communicate with Enterprise personnel that proper communication is necessary in advance during these types of situations so that Oxy can adjust its operations to minimize emissions or perform workable actions so that flaring is avoided.

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ACKNOWLEDGMENTS

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	Action Number: 375149
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ACKNOWLEDGMENTS

☑	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
☑	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
☑	I hereby certify the statements in this amending 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 375149

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 375149
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
shelbyschoepf	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	9/23/2024