

Field:

Station Name:

Certificate of Analysis

Number: 6030-20110087-001A

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

Nov. 17, 2020

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

NMSW Sampled By: Jesus Escobedo
Corral Compressor Station 2 South
N/A Sample Date: Jesus Escobedo
Sample Of: Gas Spot
11/11/2020 01:09

Station Number: N/A Sample Date: 11/11/2020 01:09
Sample Point: N/A Sample Conditions: 1265 psig Ambient: 49 °F

Meter Number:Effective Date:11/11/2020 01:09County:EddyMethod:GPA 2286Type of Sample:Spot-CylinderCylinder No:1111-001162

Heat Trace Used: N/A Instrument: 6030_GC2 (Agilent GC-7890B)

Sampling Method: Fill and Purge Last Inst. Cal.: 08/25/2020 8:12 AM

Sampling Company: OXY

Analyzed: 11/17/2020 12:40:16 by PGS

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.000	0.000		GPM TOTAL C2+	6.390
Nitrogen	1.332	1.320	1.675		GPM TOTAL C3+	3.359
Methane	76.899	76.201	55.381		GPM TOTAL iC5+	0.805
Carbon Dioxide	0.171	0.169	0.337			
Ethane	11.459	11.355	15.468	3.031		
Propane	5.781	5.728	11.443	1.575		
Iso-butane	0.846	0.838	2.207	0.274		
n-Butane	2.259	2.238	5.893	0.705		
Iso-pentane	0.642	0.636	2.079	0.232		
n-Pentane	0.766	0.759	2.481	0.275		
Hexanes Plus	0.763	0.756	3.036	0.298		
	100.918	100.000	100.000	6.390		
Calculated Physical Properties		To	otal	C6+		
Relative Density Rea	Relative Density Real Gas		649	3.0584		
Calculated Molecular	Calculated Molecular Weight		.07	88.58		
Compressibility Factor	Compressibility Factor		960			
GPA 2172 Calculati	GPA 2172 Calculation:					
Calculated Gross BTU per ft ³ @ 14.65 psia & 60°F						
Real Gas Dry BTU		1;	308	4763		
Water Sat. Gas Base BTU		12	285	4680		
Ideal, Gross HV - Dry at 14.65 psia		130	2.9	4763.5		
Ideal, Gross HV - Wet		128	0.1	0.000		
Net BTU Dry Gas - real gas		1.	188			
Net BTU Wet Gas - r	Net BTU Wet Gas - real gas		167			
O						

Comments: H2S Field Content 0 ppm

Hydrocarbon Laboratory Manager

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality

assurance, unless otherwise stated.

Quality Assurance:



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Station Number: N/A Sample Point: N/A Meter Number:

County: Eddy

Type of Sample: Spot-Cylinder

Heat Trace Used: N/A

Sampling Method: Fill and Purge

Nov. 17, 2020

Sampled By: Jesus Escobedo Sample Of: Gas Spot

Sample Oi. Gas Spot Sample Date: 11/11/2020 01:09

Sample Conditions: 1265 psig Method: GPA 2286 Cylinder No: 1111-001162

Analyzed: 11/17/2020 13:21:28 by PGS

Sampling Company: OXY

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia			
Hydrogen Sulfide	NIL	NIL		GPM TOTAL C2+	6.390	
Nitrogen	1.320	1.675		GPM TOTAL C3+	3.359	
Methane	76.201	55.381		GPM TOTAL iC5+	0.805	
Carbon Dioxide	0.169	0.337				
Ethane	11.355	15.468	3.031			
Propane	5.728	11.443	1.575			
Iso-Butane	0.838	2.207	0.274			
n-Butane	2.238	5.893	0.705			
Iso-Pentane	0.636	2.079	0.232			
n-Pentane	0.759	2.481	0.275			
Hexanes	0.374	1.443	0.152			
Heptanes Plus	0.382	1.593	0.146			
	100.000	100.000	6.390			
Calculated Physica	al Properties	i	Total	C7+		
Relative Density Real Gas		0.7649	3.1738			
Calculated Molecula	ır Weight		22.07	91.92		
Compressibility Factor			0.9960			
GPA 2172 Calculat	ion:					
Calculated Gross E	BTU per ft ³ @	2 14.65 psi	a & 60°F			
Real Gas Dry BTU		1308	4850			
Water Sat. Gas Base BTU		1285	4766			
Ideal, Gross HV - Dr	•	sia	1302.9	4850.4		
Ideal, Gross HV - Wet			1280.1	NIL		
Comments: H2S F	ield Content	0 ppm				

Comments: H2S Field Content 0 ppm

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County: Eddy

Type of Sample: Spot-Cylinder

Heat Trace Used: N/A

Sampling Method: Fill and Purge

Sampled By: Jesus Escobedo Sample Of: Gas Spot

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Analyzed: 11/17/2020 13:21:28 by PGS

Nov. 17, 2020

Sampling Company: OXY

Analytical Data

Components	Mol. %	Wt. %	GPM at			
			14.65 psia			
Hydrogen Sulfide	NIL	NIL		GPM TOTAL C2+	6.390	
Nitrogen	1.320	1.675				
Methane	76.201	55.381				
Carbon Dioxide	0.169	0.337				
Ethane	11.355	15.468	3.031			
Propane	5.728	11.443	1.575			
Iso-Butane	0.838	2.207	0.274			
n-Butane	2.238	5.893	0.705			
Iso-Pentane	0.636	2.079	0.232			
n-Pentane	0.759	2.481	0.275			
i-Hexanes	0.229	0.880	0.092			
n-Hexane	0.145	0.563	0.060			
Benzene	0.036	0.125	0.010			
Cyclohexane	0.091	0.348	0.031			
i-Heptanes	0.135	0.566	0.054			
n-Heptane	0.027	0.125	0.013			
Toluene	0.015	0.065	0.005			
i-Octanes	0.065	0.307	0.029			
n-Octane	0.003	0.015	0.001			
Ethylbenzene	0.001	0.002	NIL			
Xylenes	0.003	0.010	0.001			
i-Nonanes	0.005	0.025	0.002			
n-Nonane	0.001	0.003	NIL			
i-Decanes	NIL	NIL	NIL			
n-Decane	NIL	0.001	NIL			
Undecanes	NIL	0.001	NIL			
Dodecanes	NIL	NIL	NIL			
Tridecanes	NIL	NIL	NIL			
Tetradecanes Plus	NIL	NIL	NIL_			
	100.000	100.000	6.390			



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Sample Date: 11/11/2020 01:09 Sample Conditions: 1265 psig

Method: **GPA 2286** Cylinder No: 1111-001162

Analyzed: 11/17/2020 13:21:28 by PGS

Nov. 17, 2020

Sampling Company: OXY

Calculated Physical Properties Total Calculated Molecular Weight 22.073

GPA 2172 Calculation:

Calculated Gross BTU per ft3 @ 14.65 psia & 60°F Real Gas Dry BTU 1308.0 1285.2 Water Sat. Gas Base BTU Relative Density Real Gas 0.7649 Compressibility Factor 0.9960

Comments: H2S Field Content 0 ppm

Hydrocarbon Laboratory Manager

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Quality Assurance:

UPSET EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Corral 2S CS Date: 08/17/2021

Duration of event: 3 Hours 20 minutes **MCF Flared:** 347

Start Time: 06:40 PM End Time: 10:00 PM

Cause: Downstream Activity > Enterprise > ORLA Plant

Method of Flared Gas Measurement: Gas Flare Meter

Well API Associated with Facility: 30-015-44507 Corral Fly 02 01 State #021H

Comments: This upset event was not caused by any wells associated with the facility. 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 or prevented by good design, operation, and preventative maintenance practices.

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.

In this case, this sudden and unexpected flaring event occurred due to third party pipeline operator, Enterprise, whose associating mid-stream plant, ORLA, were having equipment issues, which kept causing high line pressure spikes in their pipeline, which greatly impacted the gas flow from Oxy's upstream facility to Enterprise's gas pipeline and triggered a flaring event at Oxy's upstream facility. This interruption, restriction or complete shut-in of the gas pipeline by Enterprise 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. This event is out of OXY's control yet, 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:

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.

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. In this case, the spike in line pressure forced Oxy's upstream facility to route all its stranded gas to a flare, as it was not able to push all its gas into Enterprises' gas pipeline due to the restrictions of gas flow placed on the pipeline, caused by their downstream associating plant, ORLA. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, due to malfunction and/or high-pressure alarms, production techs are promptly notified, and are instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. Oxy production techs, immediately upon receiving high pressure line alarms, arrived at the facility and began inspecting the equipment and contacting Enterprise personnel to determine cause of high line pressure. Oxy production techs monitored the line pressure and stayed on location until flaring ceased and operations returned to normal. Each of the compressor units were working as designed and operated normally prior to the sudden and without warning malfunction which occurred that were beyond Oxy's control to foresee, avoid or prevent from happening.

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

Oxy cannot take any 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, prevent from happening or reoccurring. Enterprise's downstream facilities and associated facilities issues will reoccur from time to time and may trigger a spike in their gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise has downstream activity 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 of 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 during these types of situations.

<u>District I</u> 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

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**

QUESTIONS

Action 45969

QUESTIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	45969
	Action Type:
	[C-129] Venting and/or Flaring (C-129)
OLIESTIONS	

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	[30-015-44507] CORRAL FLY 02 01 STATE #021H			
Incident Facility	Not answered.			

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 or is this venting and/or flaring caused by an emergency or malfunction	Yes				
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No				
Is this considered a submission for a notification of a major venting and/or flaring	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 v	renting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.				
Was there or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes				
Did this venting and/or flaring 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 venting and/or flaring 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 > Enterprise > ORLA Plant

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	1			
Hydrogen Sulfide (H2S) PPM, rounded up	0			
Carbon Dioxide (C02) percentage, if greater than one percent	0			
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.			

Date(s) and Time(s)		
Date venting and/or flaring was discovered or commenced	08/17/2021	
Time venting and/or flaring was discovered or commenced	06:40 PM	
Time venting and/or flaring was terminated	10:00 PM	
Cumulative hours during this event	3	

Measured or Estimated Volume of Vented or Flared Natural Gas		
red.		
re		

Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 347 Mcf Recovered: 0 Mcf Lost: 347 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 or is this venting and/or flaring a result of downstream activity	Yes	
Date notified of downstream activity requiring this venting and/or flaring	08/17/2021	
Time notified of downstream activity requiring this venting and/or flaring	06:45 PM	

Steps and Actions to Prevent Waste			
For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True		
Please explain reason for why this event was beyond your operator's control	See Justification Form > 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.		
Steps taken to limit the duration and magnitude of venting and/or flaring	See Justification Form > 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. In this case, the spike in line pressure forced Oxy's upstream facility to route all its stranded gas to a flare, as it was not able to push all its gas into Enterprises' gas pipeline due to the restrictions of gas flow placed on the pipeline, caused by their downstream associating plant, ORLA. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, due to malfunction and/or high-pressure alarms, production techs are promptly notified, and are instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. Oxy production techs, immediately upon receiving high pressure line alarms, arrived at the facility and began inspecting the equipment and contacting Enterprise personnel to determine cause of high line pressure. Oxy production techs monitored the line pressure and stayed on location until flaring ceased and operations returned to normal. Each of the compressor units were working as designed and operated normally prior to the sudden and without warning malfunction which occurred that were beyond Oxy's control to foresee, avoid or prevent from happening.		
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	See Justification Form > Oxy cannot take any 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, prevent from happening or reoccurring. Enterprise's downstream facilities and associated facilities issues will reoccur from time to time and may trigger a spike in their gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise has downstream activity 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 of 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 during these types of situations.		

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CONDITIONS

Action 45969

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Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	45969
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
marialuna	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.	9/1/2021