

Certificate of Analysis

Number: 6030-21060266-003A

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

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

June 28, 2021

Field: Sand Dunes Sampled By: Javier Lazo Station Name: Sand Dunes CTB Train 3 Production Sample Of: Gas Spot Station Number: 17009P Sample Date: 06/24/2021 12:27

Station Location: СТВ Sample Conditions: 90 psia, @ 105 °F Ambient: 100 °F 06/24/2021 12:27 Sample Point: Meter Effective Date:

GPA-2261M Formation: Monthly Method: County: Eddy Cylinder No: 1111-002295 Type of Sample: : Spot-Cylinder Instrument:

70104124 (Inficon GC-MicroFusion)

Heat Trace Used: N/A Last Inst. Cal.: 05/18/2021 0:00 AM

Sampling Method: : Fill and Purge Analyzed: 06/25/2021 13:45:45 by KNF Sampling Company: : SPL

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	NIL	NIL	NIL		
Nitrogen	1.770	1.78383	2.131		
Carbon Dioxide	1.321	1.33170	2.500		
Methane	72.953	73.52731	50.313		
Ethane	11.168	11.25608	14.436	3.007	
Propane	6.184	6.23236	11.722	1.715	
Iso-Butane	0.769	0.77545	1.922	0.253	
n-Butane	1.954	1.96948	4.882	0.620	
Iso-Pentane	0.551	0.55564	1.710	0.203	
n-Pentane	0.641	0.64574	1.987	0.234	
Hexanes	0.546	0.55030	2.023	0.226	
Heptanes	0.675	0.68001	2.906	0.313	
Octanes	0.527	0.53084	2.586	0.272	
Nonanes Plus	0.160	0.16126	0.882	0.091	
	99.219	100.00000	100.000	6.934	
Calculated Physical P	roperties	Total		C9+	
Calculated Molecular W	/eight	23.45	5	128.26	
Compressibility Factor		0.9955	5		
Relative Density Real G	Bas	0.8129)	4.4283	
GPA 2172 Calculation					
Calculated Gross BTU	J per ft³ @ 14.65 ps	sia & 60°F			
Real Gas Dry BTU		1346.1		6974.4	
Water Sat. Gas Base B	TU	1323.2) -	6852.4	
Ideal, Gross HV - Dry a	t 14.65 psia	1340.1		6974.4	
Ideal, Gross HV - Wet		1316.6	6	6852.4	
Comments: H2S Field	d Content 0 ppm				

Mcf/day 3116

Data reviewed by: Eric Ramirez, Analyst

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

assurance, unless otherwise stated.

EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Sand Dunes SC CTB

Start Date: 06/20/2021 **End Date:** 06/20/2021

Cause: Third Party Malfunction

Duration of event: 5 minutes MCF Volume Flared: 90

Method of Flared Gas Measurement: Flare Meter

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 or prevented by good design, operation, and preventative maintenance practices. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, due to malfunction and/or 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.

In this case, the flaring event occurred when 2 compressor stations belonging to a third party gas gatherer, Enterprise, went down due to a malfunction with their compressor units. Oxy immediately reached out to Enterprise to better understand the shutin. The shutin from the third party gas gatherer occurred due to Enterprise Unit #3 at the Central Station malfunctioning due to mechanical issues and Enterprise Unit #1 at the South Station malfunctioning due to a coolant leak. A similar incident at the same Enterprise units also happened the day before (6/20/2021). Once the third party gas gatherer was able to restore service, Oxy immediately resumed gas sales to the third party system. During the event, OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to minimize emissions as much as possible.

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

Oxy resumed gas sales to the third-party system as soon as it came back online. During the shutin OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to minimize emissions as much as possible.

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

The 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.

Operator:

<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 42363

QUESTIONS

OGRID:

OXY USA INC		16696	
P.O. Box 4294	A	Action Number:	
Houston, TX 772104294	_	42363	
	<i>f</i>	Action Type: [C-129] Venting and/or Flaring (C-129)	
		[0-129] Venturing arrayor Frianting (0-129)	
QUESTIONS			
Prerequisites			
Any messages presented in this section, will prevent submission of this application. Please resol	ve these issues before continuing with t	he rest of the questions.	
Incident Well	[30-015-44526] NIMITZ MDP1	12 FEDERAL COM #001H	
Incident Facility	Not answered.	Not answered.	
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answer			
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 fla	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	ng venting and/or flaring that is or may be	e 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	c 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 due to third p	party malfunction	
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	1		
Oxygen (02) percentage, if greater than one percent	0		
If you are venting and/or flaring because of Pipeline Specification, please provide the required s	necifications for each gas		
Methane (CH4) percentage quality requirement	Not answered.		
Nitrogen (N2) percentage quality requirement	Not answered		

Date(s) and Time(s)			
Date venting and/or flaring was discovered or commenced	06/20/2021		
Time venting and/or flaring was discovered or commenced	12:00 AM		
Time venting and/or flaring was terminated	12:05 AM		
Cumulative hours during this event	0		

Not answered.

Not answered.

Not answered.

Measured or Estimated Volume of Vented or Flared Natural Gas		
Natural Gas Vented (Mcf) Details	Not answered.	

Hydrogen Sufide (H2S) PPM quality requirement

Oxygen (02) percentage quality requirement

Carbon Dioxide (C02) percentage quality requirement

Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 90 Mcf Recovered: 0 Mcf Lost: 90 Mcf]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	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	Not answered.	
Date notified of downstream activity requiring this venting and/or flaring	Not answered.	
Time notified of downstream activity requiring this venting and/or flaring	Not answered.	

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	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. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, due to malfunction and/or 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. In this case, the flaring event occurred when 2 compressor stations belonging to a third party gas gatherer, Enterprise, went down due to a malfunction with their compressor units. Oxy immediately reached out to Enterprise to better understand the shutin. The shutin from the third party gas gatherer occurred due to Enterprise Unit #3 at the Central Station malfunctioning due to mechanical issues and Enterprise Unit #1 at the South Station malfunctioning due to a coolant leak. A similar incident at the same Enterprise units also happened the day before (6/20/2021). Once the third party gas gatherer was able to restore service, Oxy immediately resumed gas sales to the third party system. During the event, OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to minimize emissions as much as possible.		
Steps taken to limit the duration and magnitude of venting and/or flaring	Oxy resumed gas sales to the third-party system as soon as it came back online. During the shutin OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to minimize emissions as much as possible.		
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	The 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.		

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

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**

CONDITIONS

Action 42363

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	42363
	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.	8/16/2021