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

Certificate of Analysis

Number: 6030-20110087-001A

Nov. 17, 2020

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

Field:	NMSW	Sampled By:	Jesus Escobedo
Station Name:	Corral Compressor Station 2 South	Sample Of:	Gas Spot
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 01:09
County:	Eddy	Method:	GPA 2286
Type of Sample:	Spot-Cylinder	Cylinder 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	Total	C6+
Relative Density Real Gas	0.7649	3.0584
Calculated Molecular Weight	22.07	88.58
Compressibility Factor	0.9960	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1308	4763
Water Sat. Gas Base BTU	1285	4680
Ideal, Gross HV - Dry at 14.65 psia	1302.9	4763.5
Ideal, Gross HV - Wet	1280.1	0.000
Net BTU Dry Gas - real gas	1188	
Net BTU Wet Gas - real gas	1167	

Comments: H2S Field Content 0 ppm

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

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Sample Point:	N/A	Sample Conditions:	1265 psig
Meter Number:		Method:	GPA 2286
County:	Eddy	Cylinder No:	1111-001162
Type of Sample:	Spot-Cylinder	Analyzed:	11/17/2020 13:21:28 by PGS
Heat Trace Used:	N/A	Sampling Company:	OXY
Sampling Method:	Fill and Purge		

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 Physical Properties	Total	C7+
Relative Density Real Gas	0.7649	3.1738
Calculated Molecular Weight	22.07	91.92
Compressibility Factor	0.9960	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1308	4850
Water Sat. Gas Base BTU	1285	4766
Ideal, Gross HV - Dry at 14.65 psia	1302.9	4850.4
Ideal, Gross HV - Wet	1280.1	NIL

Comments: H2S Field Content 0 ppm

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Meter Number:		Method:	GPA 2286
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Type of Sample:	Spot-Cylinder	Analyzed:	11/17/2020 13:21:28 by PGS
Heat Trace Used:	N/A	Sampling Company:	OXY
Sampling Method:	Fill and Purge		

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia
Hydrogen Sulfide	NIL	NIL	
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

GPM TOTAL C2+ 6.390

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Meter Number:		Method:	GPA 2286
County:	Eddy	Cylinder No:	1111-001162
Type of Sample:	Spot-Cylinder	Analyzed:	11/17/2020 13:21:28 by PGS
Heat Trace Used:	N/A	Sampling Company:	OXY
Sampling Method:	Fill and Purge		

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
Water Sat. Gas Base BTU	1285.2
Relative Density Real Gas	0.7649
Compressibility Factor	0.9960

Comments: H2S Field Content 0 ppm

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

UPSET EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Corral 2S CS **Date:** 09/07/2021

Duration of event: 2 Hours 30 minutes **MCF Flared:** 2513

Start Time: 07:30 AM **End Time:** 10:00 AM

Cause: Downstream Activity > Enterprise > Enterprise Gas Pipeline Shut In > ESD valve

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 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.

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

Oxy personnel are in the field 24/7 and can physically see when its facility is flaring. which in turn, is communicated to additional Oxy field personnel to resolve. It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, increased pipeline pressure sensor alarms, etc., field production technician personnel 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 technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause.

In this case, it was determined that a high pipeline pressure spike in Enterprise's gas system pipeline, prompted its pipeline ESD valve to close, which restricted Oxy's ability to send its gas into the Enterprise gas system pipeline, therefore, causing Oxy to send its gas to flare. Until Enterprise was able to resolve their downstream activity issues regarding the high pipeline pressure and its ESD valve closure, Oxy reluctantly routed its gas to flare until Enterprise resumed normal working service and Oxy was able to begin sending gas again. No advance warning was provided to Oxy personnel from Enterprise personnel regarding issues with their gas system pipeline.

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, as the part of the overall process or steps to take to limit duration and magnitude of flaring. 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 increased spike in Enterprise's pipeline 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 the closure of Enterprise's pipeline ESD valve, which was triggered by the high pipeline pressure spike.

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 the spike in the pipeline pressure. In addition, Oxy production techs noticed that the Enterprise pipeline ESD valve was closed, and again contacted Enterprise personnel to inform them a technician needed to be sent to reset their pipeline ESD valve so that it would be open and Oxy could be able to send it gas to Enterprise's downstream facility. Flaring ceased when Enterprise was able to bring their gas pipeline pressure down and their technician re-opened their pipeline ESD valve so that Oxy's sales gas could get into their gas system pipeline.

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, constraint or shut-in, due to high pipeline pressure spikes in their gas system pipeline, 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 and equipment issues will re-occur from time to time and may trigger a spike in their gas pipeline pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise's downstream facilities and/or equipment has 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 allows no other option but for Oxy to route all its stranded gas not pushed into the Enterprise gas system 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 communicate frequently with Enterprise personnel during these types of situations and continually monitor the Enterprise gas pipeline pressure in order to make necessary adjustments to Oxy's own compression equipment, when warranted, until Enterprise's gas system pipeline is returned to normal working service.

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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

QUESTIONS

Action 50719

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 50719
	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	**[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 venting and/or flaring event	**Yes, major 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 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 > Enterprise Gas Pipeline Shut In > ESD valve

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	09/07/2021
Time venting and/or flaring was discovered or commenced	07:30 AM
Time venting and/or flaring was terminated	10:00 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: 2,513 Mcf | Recovered: 0 Mcf | Lost: 2,513 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
Was notification of downstream activity received by you or your operator	No
Downstream OGRID that should have notified you or your operator	[287533] ENTERPRISE CRUDE PIPELINE LLC
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	See Justification Form > In this case, it was determined that a high pipeline pressure spike in Enterprise's gas system pipeline, prompted its pipeline ESD valve to close, which restricted Oxy's ability to send its gas into the Enterprise gas system pipeline, therefore, causing Oxy to send its gas to flare. Until Enterprise was able to resolve their downstream activity issues regarding the high pipeline pressure and its ESD valve closure, Oxy reluctantly routed its gas to flare until Enterprise resumed normal working service and Oxy was able to begin sending gas again. No advance warning or notice was provided to Oxy personnel from Enterprise personnel regarding downstream activity issues with their gas system pipeline.
Steps taken to limit the duration and magnitude of venting and/or flaring	See Justification Form >It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. 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 increased spike in Enterprise's pipeline 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 the closure of Enterprise's pipeline ESD valve, which was triggered by the high pipeline pressure spike.
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, constraint or shut-in, due to high pipeline pressure spikes in their gas system pipeline, 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 and equipment issues will re-occur from time to time and may trigger a spike in their gas pipeline pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise's downstream facilities and/or equipment has 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 allows no other option but for Oxy to route all its stranded gas not pushed into the Enterprise gas system 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 communicate frequently with Enterprise personnel during these types of situations and continually monitor the Enterprise gas pipeline pressure in order to make necessary adjustments to Oxy's own compression equipment, when warranted, until Enterprise's gas system pipeline is returned to normal working service.

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CONDITIONS

Action 50719

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 50719
	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.	9/21/2021