



**Volumetrics US Inc.**  
3001 N Cameron St, Victoria, TX-77901  
Phone: 361-827-4024

**Company:** OXY USA INC  
**Field/Location :** NMSW  
**Station Name :** FEDERAL 1-1  
**Station Number :** 2300150020  
**Sample Date:** 3/2/21 8:01 AM  
**Analysis Date:** 3/23/21 1:43 PM  
**Instrument:** VARIAN CP 490 GC  
**Calibration/Verification Date:** 3/23/2021  
**Heat Trace used:** YES

**Work Order** 4000230136  
**Sampled by:** VOLUMETRICS/JA  
**Sample Type :** SPOT-CYLINDER  
**Sample Temperature (F):** 50  
**Sample Pressure (PSIG):** 60  
**Flow rate (MCF/Day):** 30.8  
**Ambient Temperature (F):** 41  
**Sampling method:** FILL & EMPTY  
**Cylinder Number:** 1095

#### NATURAL GAS ANALYSIS: GPA 2261

Components	Un-Normalized Mol%	Normalized Mol%	GPM 14.650	GPM 14.730	GPM 15.025
Hydrogen Sulfide	0.0000	0.0000			
Nitrogen	5.6205	5.7973			
Methane	63.0422	65.0250			
Carbon Dioxide	0.0798	0.0823			
Ethane	14.1343	14.5789	3.893	3.915	3.993
Propane	9.8799	10.1907	2.804	2.819	2.875
Isobutane	0.9613	0.9915	0.324	0.326	0.332
N-butane	2.0318	2.0957	0.660	0.663	0.677
Isopentane	0.3760	0.3878	0.142	0.142	0.145
N-Pentane	0.3170	0.3270	0.118	0.119	0.121
Hexanes Plus	0.5078	0.5238	0.228	0.230	0.234
<b>Total</b>	<b>96.9506</b>	<b>100.0000</b>			

Hexanes plus split (60%-30%-10%)

Physical Properties (Calculated)	14.650 psia	14.730 psia	15.025 psia
Total GPM Ethane+	8.169	8.214	8.378
Total GPM Iso-Pentane+	0.488	0.491	0.501
Compressibility (Z)	0.9957	0.9957	0.9956
Specific Gravity ( Air=1 ) @ 60 °F	0.8238	0.8239	0.8239
Molecular Weight	23.767	23.767	23.767
<b>Gross Heating Value</b>	<b>14.650 psia</b>	<b>14.730 psia</b>	<b>15.025 psia</b>
Dry, Real (BTU/Ft <sup>3</sup> )	1328.8	1336.1	1363.0
Wet, Real (BTU/Ft <sup>3</sup> )	1305.7	1312.9	1339.3
Dry, Ideal (BTU/Ft <sup>3</sup> )	1323.1	1330.3	1357.0
Wet, Ideal (BTU/Ft <sup>3</sup> )	1300.1	1307.2	1333.4

Temperature base 60 °F

**Comment:** FIELD H2S = 0 PPM

**Verified by**

Mostaq Ahammad  
Petroleum Chemist

**Approved by**

*Deann Friend*

Deann Friend  
Laboratory Manager

**UPSET EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** Federal 1-1 CTB**Date:** 08/18/2021**Duration of event:** 24 Hours**MCF Flared:** 2241**Start Time:** 12:00 AM**End Time:** 11:59 PM**Cause:** Downstream Activity > DCP > Scheduled Supersystem Maintenance**Method of Flared Gas Measurement:** Gas Flare Meter 68873**Well API Associated with Facility:** 30-015-26843 Federal 1 #004

**Comments:** This upset event was not caused by any wells associated with the facility. This emissions event was caused by a third-party pipeline operator's downstream activity, which is beyond the owner/operator's control.

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

This emissions event was caused by a third-party pipeline operator's downstream facility maintenance activity, which is beyond Oxy's control to prevent or control from happening. This complete shut-in of the gas pipeline by third-party pipeline operator, DCP, is downstream of Oxy's custody transfer point. Oxy was notified in advance on or around August 10, 2021, by DCP personnel, by written correspondence, that an immediate required maintenance of their supersystem was scheduled to be performed on or around an estimated date of August 18, 2021, which would affect DCP's ability to process volumes within their supersystem, which in turn affects Oxy's upstream facility and its ability to send its gas to DCP. During DCP's supersystem immediate maintenance period, estimated to last only 48 hours, DCP would be unable to take gas from its operators.

This event is part of a four (4) day flaring occurrence due to DCP's supersystem maintenance period occurring from August 17, 2021 to August 21, 2021. DCP began their supersystem maintenance procedures a day earlier than previously notified, occurring on August 17, 2021 as DCP needed to depressurize their system and requested that Oxy shut in production/wells. DCP's pipeline, due to their depressurization needs, subsequently shut in the gas pipeline to Oxy, which affected Oxy's upstream facility operations. DCP did not call for gas or open the pipeline to take gas from Oxy until August 21, 2021. DCP's supersystem maintenance activity lasted more than the initial 48 hours they indicated to Oxy. Oxy flared continuously during DCP's complete and total shut-in of their pipeline to Oxy while they conducted downstream maintenance activities.

The Federal 1-1 CTB flare is a gas gathering flare system for multiple tank batteries across Oxy's defined Lost Tank area. Oxy made every effort to shut in as much of production/wells as possible, yet it was absolutely critical to Oxy's operational safety and start up procedures to allow some production to occur at this facility, as it was necessary to maintain a minimal amount of gas flow to restart the facility's compression equipment, specifically the gas lift compressors, across the Lost Tank area, when DCP was ready and able to start taking gas. The minimal amount of gas flow allowed to be produced and flare was done out of necessity to protect personnel and equipment as a safeguard against potential issues that could occur when restarting production across the Lost Tank area.

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

This emissions event was caused by a third-party pipeline operator's downstream facility maintenance activity, which is beyond Oxy's control to prevent or control from happening. This complete shut-in of the gas pipeline by third-party pipeline operator, DCP, is downstream of Oxy's custody transfer point. Oxy was notified in advance on or around August 10, 2021, by DCP personnel, by written correspondence, that an immediate required maintenance was scheduled to be performed on or around an estimated date of August 18, 2021, which would affect DCP's ability to process volumes within their supersystem, which in turn affects Oxy's upstream facility and its ability to send its gas to DCP. During DCP's supersystem immediate maintenance period, estimated to last only 48 hours, DCP would be unable to take gas from its operators. DCP's supersystem maintenance activity lasted more than the initial 48 hours they indicated to Oxy.

The steps taken to limit duration and magnitude of flaring during DCP's supersystem maintenance period occurring from August 17, 2021 to August 21, 2021 was to shut in as much of production/wells as much as possible. The Federal 1-1 CTB flare is a gas gathering flare system for multiple tank batteries across Oxy's Lost Tank area. Oxy made every effort to shut in as much of production/wells as possible, yet it was absolutely critical to Oxy's operation practices to allow some production to occur, as it was necessary to maintain a minimal amount of gas flow to restart the facility's compression equipment, specifically the gas lift compressors, across the Lost Tank area, when DCP was ready and able to start taking gas. The minimal amount of gas flow allowed to be produced and flare was done out necessity to protect personnel and equipment as a safeguard against potential issues that could occur when restarting production across the Lost Tank area. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible.

In addition, Oxy production techs and essential personnel maintained constant communication with DCP personnel, during this flaring period, to prepare for the re-opening of DCP's pipeline and their gas services to recommence. During this time, Oxy production techs also continually monitored the flare during this flaring period.

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

Oxy is unable to take any corrective actions to eliminate this cause and potential reoccurrence of this circumstance of flaring as this emissions event was caused by a third-party pipeline operator's downstream facility maintenance activity, which is beyond Oxy's control to avoid, prevent or control from happening. This complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point. While this event was out of Oxy's control to avoid or prevent from happening, Oxy made every effort to minimize emissions while DCP was having downstream maintenance activity issues.

**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**

QUESTIONS

Action 46301

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 46301
	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	[30-015-26843] FEDERAL 1 #004
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 additional guidance.

Was or is this venting and/or flaring caused by an emergency or malfunction	No
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a notification of a major venting and/or flaring	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 > DCP > Scheduled Supersystem Maintenance

**Representative Compositional Analysis of Vented or Flared Natural Gas**

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	65
Nitrogen (N2) percentage, if greater than one percent	6
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
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.

**Date(s) and Time(s)**

Date venting and/or flaring was discovered or commenced	08/18/2021
Time venting and/or flaring was discovered or commenced	12:00 AM
Time venting and/or flaring was terminated	11:59 PM
Cumulative hours during this event	24

**Measured or Estimated Volume of Vented or Flared Natural Gas**

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: Other   Other (Specify)   Natural Gas Flared   Released: 2,241 Mcf   Recovered: 0 Mcf   Lost: 2,241 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	08/10/2021
Time notified of downstream activity requiring this venting and/or flaring	07:38 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 > This event is part of a four (4) day flaring occurrence due to DCP's supersystem maintenance period occurring from August 17, 2021 to August 21, 2021. DCP began their supersystem maintenance procedures a day earlier than previously notified, occurring on August 17, 2021 as DCP needed to depressurize their system and requested that Oxy shut in production/wells. DCP's pipeline, due to their depressurization needs, subsequently shut in the gas pipeline to Oxy, which affected Oxy's upstream facility operations. DCP did not call for gas or open the pipeline to take gas from Oxy until August 21, 2021. DCP's supersystem maintenance activity lasted more than the initial 48 hours they indicated to Oxy. Oxy flared continuously during DCP's complete and total shut-in of their pipeline to Oxy while they conducted downstream maintenance activities.
Steps taken to limit the duration and magnitude of venting and/or flaring	See Justification Form > The steps taken to limit duration and magnitude of flaring during DCP's supersystem maintenance period occurring from August 17, 2021 to August 21, 2021 was to shut in as much of production/wells as much as possible. The Federal 1-1 CTB flare is a gas gathering flare system for multiple tank batteries across Oxy's Lost Tank area. Oxy made every effort to shut in as much of production/wells as possible, yet it was absolutely critical to Oxy's operation practices to allow some production to occur, as it was necessary to maintain a minimal amount of gas flow to restart the facility's compression equipment, specifically the gas lift compressors, across the Lost Tank area, when DCP was ready and able to start taking gas. The minimal amount of gas flow allowed to be produced and flare was done out necessity to protect personnel and equipment as a safeguard against potential issues that could occur when restarting production across the Lost Tank area. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	See Justification Form > Oxy is unable to take any corrective actions to eliminate this cause and potential reoccurrence of this circumstance of flaring as this emissions event was caused by a third-party pipeline operator's downstream facility maintenance activity, which is beyond Oxy's control to avoid, prevent or control from happening. This complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point. While this event was out of Oxy's control to avoid or prevent from happening, Oxy made every effort to minimize emissions while DCP was having downstream maintenance activity issues.

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CONDITIONS  
  
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	Action Number: 46301
	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.	9/2/2021