



Leaders in Petroleum Analytical Services

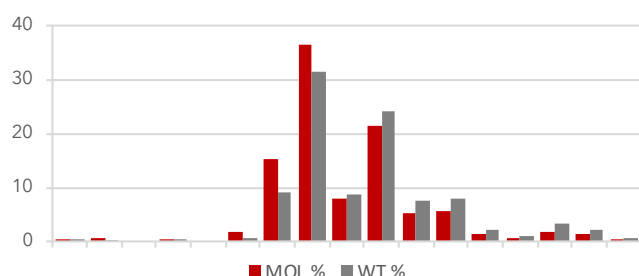
Lubbock | TX | 806-797-4325

Pampa | TX | 806-669-6821

Midland | TX | 432-803-7999

**EXTENDED GAS/VAPOR FRACTIONAL ANALYSIS GLYCALC FORMAT****SAMPLE ID**

Customer	Occidental Permian Ltd.
Operator	Occidental Permian Ltd.
Location	Mesa Verde
Site	Central Tank Battery
Sample Point/Source	Flashed Gas from Crude Oil
Pressure	N/A
Temperature	100 F
Atm. Temp	N/A
Sample Date	N/A
Sample Time	N/A
Sampled By	Pantechs/DCB
Analysis Date	11/21/19
Analysis By	Pantechs/CFS
Sample Cyl No	PL1814

**RELATIVE CONCENTRATION****CALCULATIONS / METHODS**

Pressure Base, PSIA	14.65
Temp Base, DEG F	60
Ideal/Real Gas	Real

APPLICABLE CURRENT GPA & ASTM METHODS, PROCEDURES, AND CONSTANTS ARE USED

**REMARKS / COMMENTS / OTHER**

Value of "0.0000" interpreted as below detectable limit (BDL), unless otherwise stated below.

\* Oxygen/Argon co-elute as single peak; additional testing required to distinguish each component.

COMPONENT	MOL %	WT %	GPM
Nitrogen	0.1069	0.0582	
Carbon Dioxide	0.4579	0.3920	
Hydrogen Sulfide	0.0000	0.0000	
*Oxygen/Argon	0.0015	0.0009	
Helium	0.0000	0.0000	
Methane	1.6736	0.5222	
Ethane	15.2154	8.8989	4.154
Propane	36.5631	31.3599	10.284
i-Butane	7.7840	8.8000	2.599
n-Butane	21.2575	24.0320	6.841
i-Pentane	5.2519	7.3702	1.962
n-Pentane	5.7749	8.1042	2.135
n-Hexane	1.1893	1.9936	0.489
Cyclohexane	0.6295	1.0305	0.214
Hexanes Other	1.9189	3.2165	0.789
Heptanes	1.2016	2.3302	0.554
Methylcyclohexane	0.2912	0.5561	0.117
2,2,4 Trimethylpentane	0.0042	0.0092	0.002
Benzene	0.2499	0.3797	0.070
Toluene	0.0899	0.1612	0.030
Ethylbenzene	0.0040	0.0083	0.002
Xylenes	0.0192	0.0396	0.007
Octanes Plus	0.3154	0.7367	0.132

Totals: 100.0000 100.0000 30.381

**HEATING VALUE (Gross Btu/CF)**

Real, Dry	2952.00
Real, Water Saturated	2902.50

**CALC. PROPERTIES**

	SG	Z	MW
Dry	1.8212	0.97438	51.4130
Water Saturated	1.8013	0.97394	50.5140

**OCTANES PLUS PROPERTIES**

Specific Gravity (Relative to Air)	4.1100
Molecular Weight	119.0363
Gross Heating Value	6370.06

**VCU FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** Mesa Verde 18 CTB**Date:** 11/06/2021**Duration of event:** >8 hours/day**MCF Flared:** 62**Start Time:** 12:00 AM**End Time:** 11:59 PM**Cause:** Routine Combustion of storage tank vapors using an enclosed combustion device (VCU)**Method of Flared Gas Measurement:** VCU Meter F6002 tracking combusted gas**Well API Associated with Facility:** 30-015-44551 Mesa Verde Bone Spring Unit #016H

**Comments:** No wells were involved with this flaring event as this event is due to combustion of storage tank vapors by an enclosed combustion device which is used routinely at this facility, pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

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

On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

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

On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

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

On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

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**District II**

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**District III**

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**District IV**

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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 62347

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 62347
	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	Not answered.
Incident Facility	[fAPP2126659618] MESA VERDE 18 CTB

**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 venting and/or flaring 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 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	VCU Meter F6002 tracking combusted gas - No wells were involved with this flaring event as this event is due to combustion of storage tank vapors by an enclosed combustion device which is used routinely at this facility, pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

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

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

Methane (CH4) percentage	2
Nitrogen (N2) percentage, if greater than one percent	0
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	11/06/2021
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.
Natural Gas Flared (Mcf) Details	Cause: Other   Other (Specify)   Natural Gas Flared   Released: 62 Mcf   Recovered: 0 Mcf   Lost: 62 Mcf ]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	VCU Meter F6002 tracking combusted gas
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	No
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	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	On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.
Steps taken to limit the duration and magnitude of venting and/or flaring	On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	On May 17, 2021, NMOCD issued a notice entitled, "Frequently Asked Questions Regarding the Natural Gas Waste Rules," and states that "... pursuant to 19.15.27.8(G) NMAC, an operator who vents or flares for any reason and that lasts more than 8 hours cumulatively during any 24-hour period must report that event on Form C-129." Combustion of storage tank vapors by this enclosed combustion device is used routinely at this facility pursuant to Federal US EPA NSPS OOOO/OOOOa regulations and state air permitting requirements that require the use of such a device to reduce storage tank emissions by 95%.

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CONDITIONS  
  
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	Action Number: 62347
	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.	11/17/2021