

# Gas Composition and Properties

Effective April 1, 2025 00:00 - January 18, 2038 21:14

Source #: 198435  
Name: CUTBOW EAST 304H WH ALLOC

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide (CO2)	1.5890		2.8378
Nitrogen (N2)	2.8410		3.2296
Methane (C1)	68.4390		44.5546
Ethane (C2)	12.2530	3.2921	14.9512
Propane (C3)	7.3880	2.0448	13.2202
Isobutane (IC4)	0.9540	0.3136	2.2501
n-Butane (NC4)	2.5920	0.8209	6.1135
Isopentane (IC5)	0.7130	0.2620	2.0875
n-Pentane (NC5)	0.8060	0.2935	2.3598
Hexanes Plus (C6+)	2.3850	0.9853	8.3404
Argon (Ar)			
Carbon Monoxide (CO)			
Hydrogen (H2)	0.0000		0.0000
Oxygen (O2)	0.0000		0.0000
Helium (He)	0.0000		0.0000
Water (H2O)			
Hydrogen Sulfide (H2S)	0.0400		0.0553
<b>Totals</b>	<b>100.0000</b>	<b>8.0130</b>	<b>100.0000</b>

Property	Total Sample
Pressure Base	14.73
Temperature Base	60
HCDP @ Sample Pressure	
Cricondentherm	
HV, Dry @ Base P, T	1394.04
HV, Sat @ Base P, T	1369.78
HV, Sat @ Sample P, T	1379.90
Relative Density	0.8546
C6+: 100	

**Sample**

Date: 03/12/2025 Type: Spot

Tech: GILBERTO

Pressure: 109.0 psi Temp.: 109 °F

Gauge: Gauge H2O:

Atm. Pressure: 13.1 psi H2S: 4 ppm

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Remarks: Cutbow 36-1 FED Com 304H Prod.

**Analysis**

Date: 03/21/2025 Instrument:

Cylinder: 2016

Tech: Admin

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Remarks: Hexanes at 2%

\*\*\* End of Report \*\*\*



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Company Search Diagram Route

42709

**42709** Cutbow East LP Flare MTR  
 Gas Digital Meter

Record Da	Gas Flowed	Hours Flowed	Meter Flare Reason	Static Pressure Psia	Differential Pressure	Meter Comment
3/18/2025	99.00	00:00		0	0	
3/17/2025	113.00	00:00		0	0	
3/16/2025	100.00	00:00		0	0	VRU Co...
3/15/2025	93.00	00:00		0	0	VRU Co...
3/14/2025	135.00	00:00		0	0	VRU Co...
3/13/2025	157.40	00:00		0	0	VRU Co...
3/12/2025	256.00	00:00		0	0	VRU do...
3/11/2025	250.00	00:00		0	0	VRU do...
3/10/2025	112.00	00:00		0	0	
3/9/2025	22.00	00:00		0	0	
3/8/2025	110.00	00:00		0	0	
3/7/2025	161.00	00:00		0	0	tank vru i...
3/6/2025	175.00	00:00		0	0	Tank VR...
3/5/2025	0.00	00:00		0	0	
3/4/2025	157.00	00:00		0	0	tank vru i...

Intermediate flaring:

Event Date	Volume Flowed (mcf)	Duration (hrs)
3/7/2025	110	0

Details:

Tank VRU down. Waiting for parts.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

DEFINITIONS

Action 536673

**DEFINITIONS**

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 536673
	Action Type: [C-129] Venting and/or Flaring (C-129)

**DEFINITIONS**

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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QUESTIONS

Action 536673

**QUESTIONS**

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**QUESTIONS**

<b>Prerequisites</b>	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fAPP2331147143] CUTBOW EAST CTB 1

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was this vent or flare caused by an emergency or malfunction	No
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<i>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.</i>	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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 vent or flare within an incorporated municipal boundary or within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	68
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	400
Carbon Dioxide (CO2) percentage, if greater than one percent	2
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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.

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QUESTIONS, Page 2

Action 536673

**QUESTIONS (continued)**

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**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/07/2025
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	12:00 AM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Other   Separator   Natural Gas Flared   Released: 110 Mcf   Recovered: 0 Mcf   Lost: 110 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
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 this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	TANK VRU IS DOWN, AWATING NEW PARTS
Steps taken to limit the duration and magnitude of vent or flare	MINIMIZE EVENT DURATION
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	MIDSTREAM & MARKETING EVALUATE



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ACKNOWLEDGMENTS

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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
<input checked="" type="checkbox"/>	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
<input checked="" type="checkbox"/>	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
<input checked="" type="checkbox"/>	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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**CONDITIONS**

Created By	Condition	Condition Date
jmckinnon	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.	12/22/2025