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C6+ Gas Analysis Report

<b>16902G</b>	<b>602</b>	<b>Cutbow 36-1 Fed 602H</b>	
Sample Point Code	Sample Point Name	Sample Point Location	
<b>Laboratory Services</b>	<b>2023068929</b>	<b>1224</b>	<b>J Brink - Spot</b>
Source Laboratory	Lab File No	Container Identity	Sampler
<b>USA</b>	<b>USA</b>	<b>USA</b>	<b>Default</b>
District	Area Name	Field Name	Facility Name
<b>May 10, 2023</b>	<b>May 10, 2023</b>	<b>May 18, 2023 12:09</b>	<b>May 18, 2023</b>
Date Sampled	Date Effective	Date Received	Date Reported
<b>Luis</b>			
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
<b>Avant Operating</b>		<b>NG</b>	
Operator		Lab Source Description	

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	3.7550	3.75462	
CO2 (CO2)	0.2180	0.21801	
Methane (C1)	65.4220	65.42091	
Ethane (C2)	14.7440	14.7443	3.9420
Propane (C3)	9.0290	9.02948	2.4870
I-Butane (IC4)	1.0440	1.04356	0.3420
N-Butane (NC4)	2.9510	2.9513	0.9300
I-Pentane (IC5)	0.7590	0.75946	0.2780
N-Pentane (NC5)	0.7810	0.7811	0.2830
Hexanes Plus (C6+)	1.2970	1.29727	0.5630
<b>TOTAL</b>	<b>100.0000</b>	<b>100.0000</b>	<b>8.8250</b>

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,412.2	1,389.1	1,415.5	1,392.3

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.8568	0.8529
Molecular Weight	
24.6997	

C6+ Group Properties		
Assumed Composition		
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%

Field H2S 0 PPM
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**PROTREND STATUS:** Passed By Validator on May 19, 2023  
**DATA SOURCE:** Imported

**PASSED BY VALIDATOR REASON:** Close enough to be considered reasonable.

**VALIDATOR:** Luis Cano

**VALIDATOR COMMENTS:** ok

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information			
Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	May 8, 2023

**\*Preliminary Production Data\***

<b>Facility Name</b>	<b>Event Date</b>	<b>Flare mcf</b>
Cutbow West CTB 1	7/29/2023	111 mcf

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 1000 Rio Brazos Rd., Aztec, NM 87410  
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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

DEFINITIONS

Action 287963

**DEFINITIONS**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 287963
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**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 287963

**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 Operator	[330396] Avant Operating, LLC
Incident Type	Vent
Incident Status	Closure Approved
Incident Well	Unavailable.
Incident Facility	[fAPP2318749411] Cutbow West CTB 1
<i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i>	

<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	65
Nitrogen (N2) percentage, if greater than one percent	4
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
<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	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sulfide (H2S) PPM quality requirement	0
Carbon Dioxide (CO2) percentage quality requirement	0
Oxygen (O2) percentage quality requirement	0



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Action 287963

**QUESTIONS (continued)**

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**QUESTIONS**

<b>Date(s) and Time(s)</b>	
Date vent or flare was discovered or commenced	07/29/2023
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	12:00 PM
Cumulative hours during this event	6

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure   Other (Specify)   Natural Gas Flared   Released: 111 Mcf   Recovered: 0 Mcf   Lost: 111 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.

<b>Venting or Flaring Resulting from Downstream Activity</b>	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	0
Date notified of downstream activity requiring this vent or flare	
Time notified of downstream activity requiring this vent or flare	Not answered.

<b>Steps and Actions to Prevent Waste</b>	
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	Unexpected Highline Pressure
Steps taken to limit the duration and magnitude of vent or flare	Consistent communication with the midstream provider
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Work to resolve highline pressure.



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ACKNOWLEDGMENTS

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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending 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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	Action Number: 287963
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**CONDITIONS**

Created By	Condition	Condition Date
twelem	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	11/22/2023