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C6+ Gas Analysis Report

<b>13668G</b>	<b>Golden Tee 302</b>	<b>Golden Tee 302</b>	
Sample Point Code	Sample Point Name	Sample Point Location	
<b>Laboratory Services</b>	<b>2022051690</b>	<b>0234</b>	<b>B Longoria - Spot</b>
Source Laboratory	Lab File No	Container Identity	Sampler
<b>USA</b>	<b>USA</b>	<b>USA</b>	<b>New Mexico</b>
District	Area Name	Field Name	Facility Name
<b>Feb 25, 2022</b>	<b>Feb 25, 2022</b>	<b>Feb 28, 2022 09:09</b>	<b>Feb 28, 2022</b>
Date Sampled	Date Effective	Date Received	Date Reported
<b>System Administrator</b>		<b>@ 45</b>	
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
<b>Innospec</b>		<b>Avant</b>	
Operator		Lab Source Description	

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.1300	0.13	
Nitrogen (N2)	2.1540	2.157	
CO2 (CO2)	12.0270	12.043	
Methane (C1)	64.9880	65.073	
Ethane (C2)	10.2360	10.25	2.7370
Propane (C3)	5.7370	5.745	1.5800
I-Butane (IC4)	0.7350	0.736	0.2400
N-Butane (NC4)	1.8670	1.869	0.5880
I-Pentane (IC5)	0.5360	0.537	0.1960
N-Pentane (NC5)	0.5280	0.529	0.1910
Hexanes Plus (C6+)	1.0620	1.063	0.4610
<b>TOTAL</b>	<b>100.0000</b>	<b>100.1320</b>	<b>5.9930</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
<b>1,168.7</b>	<b>1,149.7</b>	<b>1,171.4</b>	<b>1,152.4</b>

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
<b>0.8752</b>	<b>0.8717</b>
Molecular Weight	
<b>25.2437</b>	

C6+ Group Properties		
Assumed Composition		
<b>C6 - 60.000%</b>	<b>C7 - 30.000%</b>	<b>C8 - 10.000%</b>

Field H2S <b>1300 PPM</b>
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**PROTREND STATUS:** Passed By Validator on Feb 28, 2022  
**DATA SOURCE:** Imported  
**PASSED BY VALIDATOR REASON:** First sample taken @ this point, composition looks reasonable  
**VALIDATOR:** Dustin Armstrong  
**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:	Jan 24, 2022

DATE	Total flare	302 Flare Allocation	301 Flare Allocation	502 Flare Allocation	501 Flare Allocation
2/17/2022	-	-	-	-	-
2/18/2022	-	-	-	-	-
2/19/2022	720.90	-	-	108.00	612.90
2/20/2022	1,950.00	127.00	47.00	628.00	1,148.00
2/21/2022	4,095.00	400.00	242.00	1,376.00	2,077.00
2/22/2022	6,251.00	526.00	350.00	2,156.00	3,219.00
2/23/2022	7,473.00	777.00	518.00	2,624.00	3,554.00
2/24/2022	8,323.00	1,036.00	761.00	2,986.00	3,540.00
2/25/2022	8,825.00	1,393.00	1,024.00	2,987.00	3,421.00
2/26/2022	9,018.00	1,673.00	1,298.00	2,874.00	3,173.00
2/27/2022	9,192.00	1,791.00	1,531.00	2,815.00	3,055.00
2/28/2022	9,469.00	2,070.00	1,759.00	2,727.00	2,913.00
3/1/2022	9,596.00	2,320.00	1,903.00	2,540.00	2,833.00
3/2/2022	9,572.00	2,481.00	1,987.00	2,459.00	2,645.00
3/3/2022	9,695.00	2,679.00	2,095.00	2,371.00	2,550.00
3/4/2022	9,708.00	2,770.00	2,131.00	2,401.00	2,406.00
3/5/2022	9,610.00	2,451.19	2,251.94	2,613.93	2,292.94
3/6/2022	9,587.00	2,402.37	2,392.88	2,536.87	2,254.88
3/7/2022	9,519.00	2,467.37	2,451.87	2,413.87	2,185.89
3/8/2022	2,084.00	569.01	531.76	510.35	472.88
3/9/2022	10,980.00	3,181.64	2,688.11	2,500.90	2,609.35
3/10/2022	5,975.00	2,171.94	1,321.98	1,273.75	1,207.33
3/11/2022	7,071.00	2,262.00	1,815.00	1,731.00	1,263.00
3/12/2022	12,867.00	4,158.24	3,377.23	2,892.22	2,439.31
3/13/2022	10,321.00	3,421.15	2,769.77	2,361.25	1,768.83
3/14/2022	10,759.00	3,539.20	2,829.24	2,412.68	1,977.88
3/15/2022	10,616.00	3,570.94	2,855.86	2,426.81	1,762.38
3/16/2022	3,297.00	1,115.01	888.90	746.25	546.83
3/17/2022	195.00	70.94	55.59	41.85	26.63
3/18/2022	2,974.00	1,336.75	1,031.37	143.16	462.72
3/19/2022	7,255.00	3,369.87	2,492.47	-	1,392.66
3/20/2022	2,881.00	1,322.82	945.53	-	612.65
3/21/2022	1,280.00	592.46	422.61	-	264.93
3/22/2022	83.00	38.36	27.51	-	17.13
3/23/2022	1,992.00	937.47	669.42	-	385.10
3/24/2022	3,018.00	1,408.08	1,007.61	-	602.31
3/25/2022	4,099.00	1,953.28	1,382.95	-	762.77
3/26/2022	327.00	157.46	109.88	-	59.66
3/27/2022	94.00	44.87	30.85	-	18.27
3/28/2022	23.00	10.79	7.60	-	4.61
3/29/2022	13.00	6.16	4.34	-	2.50
3/30/2022	2,739.00	1,625.49	1,113.51	-	-
3/31/2022	3,646.00	2,130.08	1,515.92	-	-
Totals	237,192.90	66,357.98	52,637.69	55,656.89	62,540.34

30th day

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

DEFINITIONS

Action 110603

**DEFINITIONS**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 110603
	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 110603

**QUESTIONS**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 110603
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**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 Operator	[330396] Avant Operating, LLC
Incident Type	Flare
Incident Status	Closure Approved
Incident Well	[30-025-49325] GOLDEN TEE 31 FEDERAL COM #302H
Incident Facility	Not answered.

*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.*

**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 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	Yes
Is this considered a submission for a vent or flare 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 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

**Equipment Involved**

Primary Equipment Involved	Separator
Additional details for Equipment Involved. Please specify	Not answered.

**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	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	12
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	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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**QUESTIONS (continued)**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 110603
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/21/2022
Time vent or flare was discovered or commenced	02:00 PM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	10

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Initial Flowback   Separator   Natural Gas Flared   Released: 400 Mcf   Recovered: 0 Mcf   Lost: 400 Mcf ]
Other Released Details	Cause:     Other (Specify)   Released: 0 (Unknown Released Amount)   Recovered: 0   Lost: 0 ]
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	No
Downstream OGRID that should have notified this operator	0
Date notified of downstream activity requiring this vent or flare	01/01/1900
Time notified of downstream activity requiring this vent or flare	12:00 AM

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	Due to the freezing weather in Texas this past couple of weeks, we were unable to get trucks out to location with the required materials so that we could have sold gas down the line.
Steps taken to limit the duration and magnitude of vent or flare	To limit the amount of flaring we were choking back our wells more than usual at this point in their life span.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Now that everything is on location and installed we do not anticipate having to flare again.

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ACKNOWLEDGMENTS

Action 110603

**ACKNOWLEDGMENTS**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 110603
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**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

Action 110603

**CONDITIONS**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 110603
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**CONDITIONS**

Created By	Condition	Condition Date
tsarantinos	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.	5/25/2022