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C6+ Gas Analysis Report

<b>13667G</b>	<b>Golden Tee 301</b>	<b>Golden Tee 301</b>	
Sample Point Code	Sample Point Name	Sample Point Location	
<b>Laboratory Services</b>	<b>2022051623</b>	<b>0889</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 23, 2022</b>	<b>Feb 23, 2022</b>	<b>Feb 24, 2022 08:06</b>	<b>Feb 24, 2022</b>
Date Sampled	Date Effective	Date Received	Date Reported
<b>System Administrator</b>		<b>@ 73</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)	0.1800	0.18	
Nitrogen (N2)	2.7180	2.723	
CO2 (CO2)	12.6440	12.667	
Methane (C1)	66.1500	66.267	
Ethane (C2)	8.9210	8.937	2.3850
Propane (C3)	4.7520	4.761	1.3090
I-Butane (IC4)	0.6020	0.603	0.1970
N-Butane (NC4)	1.4940	1.497	0.4710
I-Pentane (IC5)	0.4280	0.429	0.1560
N-Pentane (NC5)	0.4340	0.435	0.1570
Hexanes Plus (C6+)	1.6770	1.68	0.7280
<b>TOTAL</b>	<b>100.0000</b>	<b>100.1790</b>	<b>5.4030</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
1,139.6	1,121.1	1,142.2	1,123.7

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.8728	0.8694
Molecular Weight	
25.1803	

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

Field H2S <b>1800 PPM</b>
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**PROTREND STATUS:** Passed By Validator on Feb 25, 2022  
**DATA SOURCE:** Imported  
**PASSED BY VALIDATOR REASON:** First sample taken @ this point, composition looks 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:	Jan 24, 2022



<b>13670G</b>	<b>Golden Tee 501</b>	<b>Golden Tee 501</b>	
Sample Point Code	Sample Point Name	Sample Point Location	
<b>Laboratory Services</b>	<b>2022051626</b>	<b>1348</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 23, 2022</b>	<b>Feb 23, 2022</b>	<b>Feb 24, 2022 08:30</b>	<b>Feb 24, 2022</b>
Date Sampled	Date Effective	Date Received	Date Reported
<b>System Administrator</b>		<b>@ 23</b>	
<b>Ambient Temp (°F)</b>	<b>Flow Rate (Mcf)</b>	<b>Analyst</b>	<b>Press PSI @ Temp °F</b>
			Source Conditions
<b>Innospec</b>	<b>Avant</b>		
Operator	Lab Source Description		

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0010	0.001	
Nitrogen (N2)	1.3970	1.397	
CO2 (CO2)	2.7870	2.787	
Methane (C1)	72.9150	72.916	
Ethane (C2)	9.4690	9.469	2.5320
Propane (C3)	5.4330	5.433	1.4960
I-Butane (IC4)	0.8590	0.859	0.2810
N-Butane (NC4)	1.9970	1.997	0.6290
I-Pentane (IC5)	0.7530	0.753	0.2750
N-Pentane (NC5)	0.7240	0.724	0.2620
Hexanes Plus (C6+)	3.6650	3.665	1.5900
<b>TOTAL</b>	<b>100.0000</b>	<b>100.0010</b>	<b>7.0650</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
1,385.8	1,363.1	1,389.0000	1,366.3

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.8567	0.8527
Molecular Weight	
24.6995	

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

Field H2S <b>10 PPM</b>
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**PROTREND STATUS:** Passed By Validator on Feb 25, 2022  
**DATA SOURCE:** Imported  
**PASSED BY VALIDATOR REASON:** First sample taken @ this point, composition looks 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:	Jan 24, 2022



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C6+ Gas Analysis Report

13669G	Golden Tee 502		Golden Tee 502
Sample Point Code	Sample Point Name		Sample Point Location
Laboratory Services	2022051625	1495	B Longoria - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Feb 23, 2022	Feb 23, 2022	Feb 24, 2022 08:28	Feb 24, 2022
Date Sampled	Date Effective	Date Received	Date Reported
Ambient Temp (°F)	Flow Rate (Mcf)	Luis @ 23	Press PSI @ Temp °F Source Conditions
Innospec	Avant		
Operator	Lab Source Description		

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0010	0.001	
Nitrogen (N2)	1.4750	1.47551	
CO2 (CO2)	3.2840	3.28381	
Methane (C1)	76.3210	76.32292	
Ethane (C2)	9.4980	9.49804	2.5390
Propane (C3)	4.8900	4.89013	1.3470
I-Butane (IC4)	0.7230	0.72264	0.2370
N-Butane (NC4)	1.5430	1.54254	0.4860
I-Pentane (IC5)	0.5220	0.52154	0.1910
N-Pentane (NC5)	0.4330	0.43286	0.1570
Hexanes Plus (C6+)	1.3100	1.31001	0.5680
TOTAL	100.0000	100.0010	5.5250

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,245.7	1,225.3	1,248.6	1,228.1

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.7742	0.7715
Molecular Weight	
22.3417	

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

Field H2S
10 PPM

**PROTREND STATUS:** Passed By Validator on Feb 25, 2022  
**DATA SOURCE:** Imported  
**PASSED BY VALIDATOR REASON:** First sample taken @ this point, composition looks 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:	Jan 24, 2022



<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/ft <sup>3</sup> )			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,168.7	1,149.7	1,171.4	1,152.4

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

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

Field H2S 1300 PPM
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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

Device Display Name	Date	24 Hour Gas (mcf)	HP Knockout Gas (mcf)	LP Knockout Gas (mcf)	
Golden Tee #31 CTB	05/22/2022		544	724	1268
Test Separator 1 (Well 302H)	05/22/2022	921			
Test Separator 2 (Well 301H)	05/22/2022	1263			
Test Separator 3 (Well 502H)	05/22/2022	1642			
Test Separator 4 (Well 501H)	05/22/2022	1087			

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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 109332

**DEFINITIONS**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 109332
	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 109332

**QUESTIONS**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 109332
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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	Not answered.
Incident Facility	[fAPP2208437966] Golden Tee 31 Fed Com CTB

<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	Yes
Is this considered a submission for a vent or flare event	Yes, major 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	Separator
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	70
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	780
Carbon Dioxide (CO2) percentage, if greater than one percent	8
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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**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 109332

**QUESTIONS (continued)**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 109332
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/22/2022
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare 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: Normal Operations   Separator   Natural Gas Flared   Released: 1,268 Mcf   Recovered: 0 Mcf   Lost: 1,268 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	As production is decreasing, we are seeing more gas break out of solution, so the VRU we currently have at the facility cannot keep up.
Steps taken to limit the duration and magnitude of vent or flare	We are in the process of getting an additional VRU installed so that we are flaring less than 90 mcf/day.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	We are in the process of getting an additional VRU installed so that we are flaring less than 90 mcf/day.



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**Santa Fe, NM 87505**

ACKNOWLEDGMENTS

Action 109332

**ACKNOWLEDGMENTS**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 109332
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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

Action 109332

**CONDITIONS**

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 109332
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
tsarantinos	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.	5/23/2022