

**C9+ Analysis**

GPA 2172/API 14.5 Report with GPA 2145 Physical Properties

Sample Information

		Sample Information
Sample Name		QUAIL ST 16 10-31-25
Operator		Avant
Lease		QUAIL ST 16
Sample Date/Time	Effective Date:	10-31-25 11:18 AM
Sample End Date		.
Laboratory		Premier Measurement and Lab Services
Technician		AN
Analyzer Type		Gas Chromatograph - TCD
Analyzer Make & Model		Agilent Micro GC 3000
Last Calibration/Validation Date		10-27-25
Sample Temperature		83 F
Sample Pressure		64 PSI
Sample Flow Rate		530 MCF
Ambient Temperature		0
Heat Tracing		No
Sample Type		Spot
Sampling Method		Fill and Purge
Company Collecting Sample		Premier
Sampled By		DR
Cylinder #		3171
Mole, Weight, or Percent (For Flowcal DON'T EDIT)		M
Sample Calculation Method(For Flowcal DON'T EDIT)		GPA 2172-19/API 14.5 Report with GPA 2145-16 Physical Properties
Report Date		2025-10-31 13:43:41

Component Results

Component Name	Un-Normalized Mole%	Norm Mole%	GPM (Dry) (Gal. / 1000 cu.ft.)	GPM (Sat) (Gal. / 1000 cu.ft.)	
Nitrogen	2.9380	2.9248	0.000	0.000	
Carbon Dioxide	0.1590	0.1583	0.000	0.000	
Methane	66.9260	66.6251	0.000	0.000	
Ethane	15.5780	15.5080	4.166	4.095	
Propane	9.0430	9.0024	2.491	2.449	
isobutane	0.9350	0.9308	0.306	0.301	
n-Butane	2.7930	2.7804	0.880	0.866	
isopentane	0.5530	0.5505	0.202	0.199	
n-Pentane	0.6150	0.6122	0.223	0.219	
hexanes	0.5850	0.5824	0.241	0.237	
heptanes	0.2300	0.2290	0.106	0.104	
octanes	0.0740	0.0737	0.038	0.037	
nonanes+	0.0200	0.0199	0.011	0.011	
hydrogen sulfide	0.0025	0.0025	0.000	0.000	
Total:	100.4515	100.0000	8.665	8.618	

Results Summary

Result	Dry	Wet/Sat	
Total Un-Normalized Mole%	100.4515		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Gross Heating Value (BTU / Ideal cu.ft.)	1390.9	1366.7	
Gross Heating Value (BTU / Real cu.ft.)	1397.5	1373.8	
Relative Density (G), Ideal	0.8303	0.8267	
Relative Density (G), Real	0.8339	0.8306	
Compressibility (Z) Factor	0.9953	0.9948	
Total GPM	8.665	8.618	

Preliminary Production Data

Facility Name	Event Date	Flare mcf
Quail 16 State Battery	10/15/2025	98 mcf

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

General Information
Phone: (505) 629-6116

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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 520131

DEFINITIONS

Operator: Avant Operating II, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 332947
	Action Number: 520131
	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 520131

QUESTIONS

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QUESTIONS

Prerequisites <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	[fAPP2212447996] QUAIL 16 STATE BATTERY

Determination of Reporting Requirements <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	Yes
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

Equipment Involved	
Primary Equipment Involved	Pipeline (Any)
Additional details for Equipment Involved. Please specify	Targa gas line

Representative Compositional Analysis of Vented or Flared Natural Gas <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	67
Nitrogen (N2) percentage, if greater than one percent	3
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	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

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QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/15/2025
Time vent or flare was discovered or commenced	10:00 AM
Time vent or flare was terminated	04:00 PM
Cumulative hours during this event	6

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: 98 Mcf Recovered: 0 Mcf Lost: 98 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	Shut in by Targa due to O2 levels, they would not take the gas until O2 levels were lower.
Steps taken to limit the duration and magnitude of vent or flare	Purged the system to get O2 levels down
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Consistent communication with midstream and monitoring of equipment.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	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 complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	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.
☒	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.
☒	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.
☒	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
twelem	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.	12/2/2025