

# Gas Composition and Properties

Effective July 1, 2023 08:00 - January 18, 2038 21:14



Source #: 81568

Name: SAN JUAN 30-5 UNIT 255 FRC

Component	Mole %	Liquid Content	Mass %
Carbon Dioxide (CO2)	21.2395		42.1829
Nitrogen (N2)	0.0465		0.0588
Methane (C1)	77.8716		56.3762
Ethane (C2)	0.5061	0.1353	0.6868
Propane (C3)	0.3081	0.0849	0.6131
Isobutane (IC4)	0.0121	0.0040	0.0317
n-Butane (NC4)	0.0091	0.0029	0.0239
Isopentane (IC5)	0.0020	0.0007	0.0065
n-Pentane (NC5)	0.0010	0.0004	0.0033
Hexanes Plus (C6+)	0.0040	0.0017	0.0168
Argon (Ar)			
Carbon Monoxide (CO)			
Hydrogen (H2)			
Oxygen (O2)			
Helium (He)			
Water (H2O)			
Hydrogen Sulfide (H2S)			
Totals	100.0000	0.2300	100.0000

Property	Total Sample
Pressure Base	14.70
Temperature Base	60
HCDP @ Sample Pressure	
Cricondentherm	-53.296
HV, Dry @ Base P, T	806.25
HV, Sat @ Base P, T	792.19
HV, Sat @ Sample P, T	802.21
Relative Density	0.7667

C6+: 60 - 30 - 10

## Sample

Date: 06/15/2023

Type: Spot

Tech: Andi Clark

Pressure:

83.0 psi

Temp.:

74 °F

Gauge:

Absolute

H2O:

Atm. Pressure:

H2S:

Remarks:

## Analysis

Date: 06/16/2023

Instrument: 490

Cylinder: 0859

Tech: Pauline Benny

Remarks:

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

	Time Started	Time Ended	Event Days	Duration of Venting Hrs	Cygnnet Total Volume
Repaired on 7/14/23 upon discovery	7/11/2023 17:30	7/12/2023 11:27	0.748	17.95	56 mcf

NMOCD Reported Volume
55 mcf

*\*All times in MDT*

Note 1: Hilcorp's SCADA software (i.e. Cygnnet) volumes incorporate a pressure base of 14.73 psia in all measurements.

Note 2: Hilcorp uses a NM pressure base conversion when reporting volumes to the NMOCD. Submitted pressure volumes are converted to 15.025 psia.

Note 3: If additional info is required related to calculation methodologies, please contact Samantha Grabert, Environmental Specialist at [samantha.grabert@hilcorp.com](mailto:samantha.grabert@hilcorp.com) or via phone at 713-757-7116.

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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 245992

DEFINITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 245992
	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: <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 245992

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	Action Number: 245992
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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	[372171] HILCORP ENERGY COMPANY
Incident Type	Vent
Incident Status	Closure Approved
Incident Well	[30-039-25532] SAN JUAN 30 5 UNIT #255
Incident Facility	Unavailable.

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	Yes
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	Other (Specify)
Additional details for Equipment Involved. Please specify	Back Pressure Regulator

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	78
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	21
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, Page 2  
Action 245992

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/14/2023
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:27 AM
Cumulative hours during this event	18

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure   Other (Specify)   Natural Gas Vented   Released: 55 MCF   Recovered: 0 MCF   Lost: 55 MCF.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Leak was discovered on 7/14/2023, and upon discovery, it was repaired. SCADA software depicted that the leak started on 7/11/2023 at 5:30 PM (MT) and stopped the next day, 7/12/2023, at 11:27 AM (MT) when the well was shut in. It was determined that a total volume of 55 mcf was vented during this event. In addition, the natural gas volume noted has a pressure base conversion applied.
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	
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	Operator could not have anticipated the back pressure regulator malfunctioning.
Steps taken to limit the duration and magnitude of vent or flare	Upon discovery, the leak was repaired as soon as possible.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	N/A



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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

Action 245992

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	Action Number: 245992
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CONDITIONS

Created By	Condition	Condition Date
sgrabert	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.	7/31/2023