



Certificate of Analysis

Number: 6030-21100076-002A

Artesia Laboratory
 200 E Main St.
 Artesia, NM 88210
 Phone 575-746-3481

Paul Martinez
 Chisholm Energy
 801 Cherry St, Suite 1200
 Fort Worth, TX 76102

Oct. 11, 2021

Station Name:	Sombrero 18 FC 2H	Sampled By:	Chad Whitt
Station Number:	89410023	Sample Of:	Gas Spot
Station Location:	Chisholm	Sample Date:	10/06/2021
Sample Point:	Meter run	Sample Conditions:	61.4 psig, @ 113.5 °F Ambient: 70 °F
Type of Sample:	Spot-Cylinder	Effective Date:	10/06/2021
Heat Trace Used:	N/A	Method:	GPA-2261M
Sampling Method:	Fill and Purge	Cylinder No.:	5030-02725
Sampling Company:	SPL	Instrument:	6030_GC6 (Inficon GC-3000 Micro)
Analyzed:	10/11/2021 15:28:54 by KNF	Last Inst. Cal.:	09/27/2021 0:00 AM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+	8.443
Nitrogen	2.104	2.11908	2.486		GPM TOTAL C3+	4.355
Methane	67.988	68.48167	46.001		GPM TOTAL iC5+	1.022
Carbon Dioxide	0.146	0.14736	0.272			
Ethane	15.106	15.21575	19.158	4.088		
Propane	8.020	8.07817	14.916	2.236		
Iso-butane	0.913	0.91973	2.238	0.302		
n-Butane	2.491	2.50930	6.107	0.795		
Iso-pentane	0.532	0.53546	1.618	0.197		
n-Pentane	0.647	0.65180	1.969	0.237		
Hexanes Plus	1.332	1.34168	5.235	0.588		
	99.279	100.00000	100.000	8.443		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8282	3.2176
Calculated Molecular Weight	23.88	93.19
Compressibility Factor	0.9953	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1402	5141
Water Sat. Gas Base BTU	1378	5052
Ideal, Gross HV - Dry at 14.73 psia	1395.6	5141.1
Ideal, Gross HV - Wet	1371.3	5051.6

Comments: H2S Field Content 0 ppm
 Mcf/day 1174.4

Data reviewed by: Krystle Fitzwater, Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

Chisholm Energy Operating, LLC has meters on all flares. The metered flare volumes reported are taken from our daily production software.

District I1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720**District II**811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720**District III**1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170**District IV**1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 56322

QUESTIONS

Operator: CHISHOLM ENERGY OPERATING, LLC 801 Cherry Street Fort Worth, TX 76102	OGRID: 372137
	Action Number: 56322
	Action Type: [C-129] Venting and/or Flaring (C-129)

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 Well	Not answered.
Incident Facility	[fAPP2128533545] SOMBRERO 18 FED COM TANK BATTERY

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 or is this venting and/or flaring caused by an emergency or malfunction	Yes
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a venting and/or flaring event	Yes, major 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/or flaring 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 venting and/or flaring within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved

Primary Equipment Involved	Producing Well
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	68
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	0
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	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.

Date(s) and Time(s)

Date venting and/or flaring was discovered or commenced	10/11/2021
Time venting and/or flaring was discovered or commenced	04:00 AM
Time venting and/or flaring was terminated	09:00 PM
Cumulative hours during this event	17

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Cause: Midstream Emergency Maintenance Producing Well Natural Gas Vented Released: 0 Mcf Recovered: 0 Mcf Lost: 0 Mcf
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Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Producing Well Natural Gas Flared Released: 1,746 Mcf Recovered: 0 Mcf Lost: 1,746 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 or is this venting and/or flaring a result of downstream activity	Yes
Was notification of downstream activity received by you or your operator	No
Downstream OGRID that should have notified you or your operator	[372603] 3BEAR FIELD SERVICES, LLC
Date notified of downstream activity requiring this venting and/or flaring	10/11/2021
Time notified of downstream activity requiring this venting and/or flaring	Not answered.

Steps and Actions to Prevent Waste	
For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	Midstream Emergency Maintenance
Steps taken to limit the duration and magnitude of venting and/or flaring	N/A
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Beyond Operators Control

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CONDITIONS
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	Action Number: 56322
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
slasater1	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.	10/25/2021