



Certificate of Analysis

Number: 6030-21070016-004A

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

July 06, 2021

Station Name:	Asteroid 20-29 FC 2H LG	Sampled By:	Chris Myers
Station Number:	88566005	Sample Of:	Gas Spot
Station Location:	Chisholm	Sample Date:	06/30/2021 11:50
Sample Point:	Meter Run	Sample Conditions:	1019 psia, @ 101 °F Ambient: 76 °F
Type of Sample:	Spot-Cylinder	Effective Date:	06/30/2021 11:50
Heat Trace Used:	N/A	Method:	GPA-2261M
Sampling Method:	Fill and Purge	Cylinder No:	1111-003915
Sampling Company:	SPL	Instrument:	70104124 (Inficon GC-MicroFusion)
Analyzed:	07/06/2021 08:50:23 by EJР	Last Inst. Cal.:	06/28/2021 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+	6.009
Nitrogen	1.094	1.09999	1.448		GPM TOTAL C3+	2.823
Methane	77.100	77.52229	58.431		GPM TOTAL iC5+	0.480
Carbon Dioxide	0.189	0.18953	0.392			
Ethane	11.808	11.87236	16.773	3.186		
Propane	5.630	5.66063	11.728	1.565		
Iso-butane	0.736	0.74023	2.021	0.243		
n-Butane	1.681	1.69051	4.616	0.535		
Iso-pentane	0.373	0.37474	1.270	0.138		
n-Pentane	0.402	0.40460	1.372	0.147		
Hexanes Plus	0.443	0.44512	1.949	0.195		
	99.456	100.00000	100.000	6.009		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7373	3.2176
Calculated Molecular Weight	21.28	93.19
Compressibility Factor	0.9963	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1276	5141
Water Sat. Gas Base BTU	1255	5052
Ideal, Gross HV - Dry at 14.73 psia	1271.7	5141.1
Ideal, Gross HV - Wet	1249.6	5051.6

Comments: H2S Field Content 0 ppm
 Mcf/day 734.65

Data reviewed by: Eric Ramirez, Analyst

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 I
1625 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 51593

QUESTIONS

Operator: CHISHOLM ENERGY OPERATING, LLC 801 Cherry Street Fort Worth, TX 76102	OGRID: 372137
	Action Number: 51593
	Action Type: [C-129] Venting and/or Flaring (C-129)

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	Not answered.
Incident Facility	[fAPP2124450095] ASTEROID 20-29 FED 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 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	No
Is this considered a submission for a venting and/or flaring 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 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	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	77
Nitrogen (N2) percentage, if greater than one percent	1
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.

Date(s) and Time(s)	
Date venting and/or flaring was discovered or commenced	08/29/2021
Time venting and/or flaring was discovered or commenced	12:00 PM
Time venting and/or flaring was terminated	01:00 PM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: High Line Pressure Producing Well Natural Gas Vented Released: 0 Mcf Recovered: 0 Mcf Lost: 0 Mcf]

Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Producing Well Natural Gas Flared Released: 60 Mcf Recovered: 0 Mcf Lost: 60 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	No
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	Not answered.
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
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	HIGH LINE PRESSURE RESULTED IN FLARE VOLUMES
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	OUT OF OPERATOR CONTROL

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CONDITIONS

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	Action Number: 51593
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
jelrod	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.	9/23/2021