



Certificate of Analysis

Number: 6030-21090253-002A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Jeffery Cook
Advanced Energy Partners, LLC
11490 Westheimer Road
Suite 950
Houston, TX 77077

Oct. 01, 2021

Station Name: Woolhead 20 St Com 509H	Sampled By: Donavan Miller
Station Number: 2340076	Sample Of: Gas Spot
Station Location: Advance	Sample Date: 09/24/2021 11:18
Sample Point: Meter Run	Sample Conditions: 114.8 psig, @ 102.1 °F Ambient: 92 °F
Instrument: 6030_GC6 (Inficon GC-3000 Micro)	Effective Date: 09/24/2021 11:18
Last Inst. Cal.: 09/27/2021 0:00 AM	Method: GPA-2261M
Analyzed: 09/30/2021 05:39:09 by KNF	Cylinder No: 1111-001176

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	2.733	2.78741	3.304		GPM TOTAL C2+	7.766
Methane	68.968	70.35363	47.752		GPM TOTAL C3+	4.257
Carbon Dioxide	0.204	0.20841	0.388		GPM TOTAL iC5+	1.104
Ethane	12.807	13.06469	16.621	3.509		
Propane	7.244	7.38928	13.786	2.045		
Iso-butane	0.911	0.92890	2.284	0.305		
n-Butane	2.487	2.53698	6.239	0.803		
Iso-pentane	0.581	0.59298	1.810	0.218		
n-Pentane	0.675	0.68826	2.101	0.251		
Hexanes Plus	1.421	1.44946	5.715	0.635		
	98.031	100.0000	100.000	7.766		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8195	3.2176
Calculated Molecular Weight	23.64	93.19
Compressibility Factor	0.9954	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1376	5141
Water Sat. Gas Base BTU	1352	5052
Ideal, Gross HV - Dry at 14.73 psia	1369.5	5141.1
Ideal, Gross HV - Wet	1345.7	5051.6

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.



11490 Westheimer Road, Suite 950, Houston, Texas 77077 • Phone 832-672-4700 • Fax 832-672-4609

To whom it may concern:

For flare volume calculation, we use a high-pressure flare meter to get the best and most accurate flare readings.

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 58068

QUESTIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 58068
	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	[fAPP2130029392] Woolhead Pad B 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	Not answered.
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	70
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

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	08/20/2021
Time venting and/or flaring was discovered or commenced	06:30 AM
Time venting and/or flaring was terminated	02:30 PM
Cumulative hours during this event	8

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Cause: Midstream Emergency Maintenance Gas Plant Natural Gas Vented Released: 784 Mcf Recovered: 0 Mcf Lost: 784 Mcf]
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Natural Gas Flared (Mcf) Details	Not answered.
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	Yes
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	08/20/2021
Time notified of downstream activity requiring this venting and/or flaring	06:30 AM

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	3rd Party Downtime
Steps taken to limit the duration and magnitude of venting and/or flaring	Keep in contact with Gas plant Operator
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	On lactation watching line pressure and keep in touch gas party operator

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CONDITIONS

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	Action Number: 58068
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CONDITIONS

Created By	Condition	Condition Date
lanz	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.	10/27/2021