



Certificate of Analysis

Number: 6030-21030225-003A

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

Mar. 19, 2021

Station Name: Woolhead 20 SC 511H

Station Number: 2340068

Station Location: Advance

Sample Point: Meter Run

Instrument: 6030_GC6 (Inficon GC-3000 Micro)

Last Inst. Cal.: 03/15/2021 0:00 AM

Analyzed: 03/19/2021 09:24:24 by EJR

Sampled By: Mike West

Sample Of: Gas Spot

Sample Date: 03/16/2021

Sample Conditions: 111 psig, @ 83 °F Ambient: 72 °F

Effective Date: 03/16/2021

Method: GPA-2261M

Cylinder No: 1111-002544

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+
Nitrogen	2.756	2.66489	3.184		GPM TOTAL C3+
Methane	71.700	69.33171	47.446		GPM TOTAL iC5+
Carbon Dioxide	0.363	0.35140	0.660		
Ethane	14.529	14.04879	18.020	3.773	
Propane	8.480	8.19985	15.424	2.269	
Iso-butane	1.010	0.97655	2.421	0.321	
n-Butane	2.622	2.53512	6.285	0.803	
Iso-pentane	0.539	0.52101	1.603	0.191	
n-Pentane	0.566	0.54769	1.686	0.199	
Hexanes Plus	0.851	0.82299	3.271	0.361	
	103.416	100.00000	100.000	7.917	

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.8127	3.2176
Calculated Molecular Weight	23.44	93.19
Compressibility Factor	0.9955	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1364	5141
Water Sat. Gas Base BTU	1341	5052
Ideal, Gross HV - Dry at 14.73 psia	1357.8	5141.1
Ideal, Gross HV - Wet	1334.2	5051.6

Comments: H2S Field Content 0 ppm
Mcf/day 1121

Hydrocarbon 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 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 40327

QUESTIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 40327
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**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 or flaring caused by an emergency or malfunction	No
Did or will this venting 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 notification of a major venting or flaring	Yes, major venting or flaring of natural gas.
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.13.297 NMAC	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes
Did this venting 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

Unregistered Facility Site

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	Woolhead Pad A Battery
Facility Type	Tank Battery - (TB)

Equipment Involved

Primary Equipment Involved	Gas Plant
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	69
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 or flaring was discovered or commenced	07/19/2021
Time venting or flaring was discovered or commenced	06:48 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/19/2021
Time venting or flaring was terminated	01:30 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	7
Longest duration of cumulative hours within any 24-hour period during this event	7

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Gas Plant Natural Gas Flared Spilled: 543 Mcf Recovered: 0 Mcf Lost: 543 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 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 or flaring a result of downstream activity	Yes
Date notified of downstream activity requiring this venting or flaring	07/19/2021
Time notified of downstream activity requiring this venting or flaring	06:48 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 maintenance
Steps taken to limit the duration and magnitude of venting or flaring	Communication with 3rd party
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Constant communication with 3rd party on when pipeline will be up and running

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	8/5/2021