



# Certificate of Analysis

Number: 6030-21080062-006A

**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

Aug. 09, 2021

Station Name: Dagger Lake 503H	Sampled By: Mike West
Station Number: 2340032	Sample Of: Gas Spot
Station Location: Advance	Sample Date: 08/03/2021
Sample Point: Meter Run	Sample Conditions: 110 psig, @ 102.9 °F Ambient: 82 °F
Instrument: 6030_GC6 (Inficon GC-3000 Micro)	Effective Date: 08/03/2021
Last Inst. Cal.: 08/02/2021 0:00 AM	Method: GPA-2261M
Analyzed: 08/09/2021 09:35:58 by KNF	Cylinder No: 1111-001213

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+ 6.854
Nitrogen	2.243	2.25758	2.782		GPM TOTAL C3+ 3.439
Methane	71.667	72.13624	50.911		GPM TOTAL iC5+ 0.651
Carbon Dioxide	1.607	1.61772	3.132		
Ethane	12.638	12.72101	16.828	3.415	
Propane	6.603	6.64641	12.894	1.838	
Iso-butane	0.807	0.81228	2.077	0.267	
n-Butane	2.144	2.15803	5.518	0.683	
Iso-pentane	0.460	0.46341	1.471	0.170	
n-Pentane	0.516	0.51968	1.650	0.189	
Hexanes Plus	0.663	0.66764	2.737	0.292	
	99.348	100.00000	100.000	6.854	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.7877	3.2176
Calculated Molecular Weight	22.73	93.19
Compressibility Factor	0.9959	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft³ @ 14.73 psia &amp; 60°F</b>		
Real Gas Dry BTU	1300	5141
Water Sat. Gas Base BTU	1278	5052
Ideal, Gross HV - Dry at 14.73 psia	1294.4	5141.1
Ideal, Gross HV - Wet	1271.8	5051.6

**Comments:** H2S Field Content 0 ppm  
 CO2 1.5%  
 Mcf/day 1387

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.



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.

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**District IV**  
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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 70395

**DEFINITIONS**

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 70395
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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QUESTIONS

Action 70395

**QUESTIONS**

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	Action Number: 70395
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<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	[fAPP2123569188] Dagger Lake Pad D

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was this vent or flare caused by an emergency or malfunction	No
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, major 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 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	71
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
<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.

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QUESTIONS, Page 2

Action 70395

**QUESTIONS (continued)**

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	Action Number: 70395
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/02/2021
Time vent or flare was discovered or commenced	06:45 AM
Time vent or flare was terminated	10:45 AM
Cumulative hours during this event	4

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   Released: 504 Mcf   Recovered: 0 Mcf   Lost: 504 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 this vent or flare a result of downstream activity	Yes
Was notification of downstream activity received by this operator	Yes
Downstream OGRID that should have notified this operator	[24650] TARGA MIDSTREAM SERVICES LLC
Date notified of downstream activity requiring this vent or flare	01/02/2021
Time notified of downstream activity requiring this vent or flare	06:45 AM

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	3RD Party downtime
Steps taken to limit the duration and magnitude of vent or flare	Constant communication with 3rd party
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Continue to communication with 3rd party

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ACKNOWLEDGMENTS

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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
<input checked="" type="checkbox"/>	I hereby certify the statements in this 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  
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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.	1/4/2022