Certificate of Analysis

Number: 6030-21080062-006A

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

Aug. 09, 2021

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

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		

Calculated Physical Properties	**Total**	**C6+**
Relative Density Real Gas	0.7877	3.2176
Calculated Molecular Weight	22.73	93.19
Compressibility Factor	0.9959	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
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.

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 41209

QUESTIONS

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 41209
	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 addional 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 19.15.29.7 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 occuring at a facility that does not have an Facility ID (f#) yet.	
Facility or Site Name	Dagger Lake Pad D 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	72
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	0
Oxygen (02) 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 Sufide (H2S) PPM quality requirement	*Not answered.*
Carbon Dioxide (C02) percentage quality requirement	*Not answered.*
Oxygen (02) percentage quality requirement	*Not answered.*

Date(s) and Time(s)	
Date venting or flaring was discovered or commenced	07/31/2021
Time venting or flaring was discovered or commenced	06:33 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/31/2021
Time venting or flaring was terminated	11:30 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	5
Longest duration of cumulative hours within any 24-hour period during this event	5

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: 710 Mcf | Recovered: 0 Mcf | Lost: 710 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	07/31/2021
Time notified of downstream activity requiring this venting or flaring	06:33 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 unscheduled 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 about when pipeline will be back up and running

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

CONDITIONS

Action 41209

CONDITIONS

Operator:	OGRID:
ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	372417
	Action Number: 41209
	Action Type: [C-129] Venting and/or Flaring (C-129)

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.	8/11/2021