

Certificate of Analysis

Number: 6030-21050282-006A

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

May 28, 2021

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

Station Name: Merchant st 510H Sampled By: Mlke West
Station Number: 2340096 Sample Of: Gas Spot
Sample Point: Meter run Sample Date: 05/25/2021 12:32

Instrument: 6030_GC2 (Agilent GC-7890B) Sample Conditions: 110 psig, @ 117.11 °F Ambient: 90 °F

Last Inst. Cal.: 05/18/2021 10:28 AM Effective Date: 05/25/2021 12:32
Analyzed: 05/28/2021 13:03:00 by EJR Method: GPA-2261M
Cylinder No: 5030-03118

Analytical Data

Components U	n-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.00200	0.003		GPM TOTAL C2+	7.227
Nitrogen	2.361	2.43525	2.968		GPM TOTAL C3+	3.565
Methane	68.637	70.79560	49.411		GPM TOTAL iC5+	0.677
Carbon Dioxide	1.412	1.45641	2.788			
Ethane	13.222	13.63783	17.840	3.662		
Propane	6.887	7.10359	13.627	1.965		
Iso-butane	0.809	0.83444	2.110	0.274		
n-Butane	1.989	2.05155	5.188	0.649		
Iso-pentane	0.397	0.40949	1.285	0.150		
n-Pentane	0.407	0.41980	1.318	0.153		
Hexanes Plus	0.828	0.85404	3.462	0.374		
	96.949	100.00000	100.000	7.227		
Calculated Physical Properties		Total		C6+		
Relative Density Real Gas		0.7967	•	3.2176		
Calculated Molecular Weight		22.99)	93.19		
Compressibility Factor		0.9958	3			
GPA 2172 Calculation:						
Calculated Gross BTU p	per ft ³ @ 14.73 ps	sia & 60°F				
Real Gas Dry BTU		1315	;	5141		
Water Sat. Gas Base BTU		1292	2	5052		
Ideal, Gross HV - Dry at 14.73 psia		1309.2	2	5141.1		
Ideal, Gross HV - Wet		1286.4		5051.6		

Comments: H2S Field Content 20 ppm

Report generated by:

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

Quality Assurance:



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.

<u>District I</u> 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

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 44377

_	UESTIONS	
Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC		OGRID: 372417
11490 Westheimer Rd., Ste 950		Action Number:
Houston, TX 77077		44377
		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 wit.	h the rest of the questions.
Incident Well	[30-025-46702] MERCHANT	
Incident Facility	Not answered.	
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers at		
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 notification of a major venting and/or flaring	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 v	enting 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.	T	
Methane (CH4) percentage	71	
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	1	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	ifications 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(c) and Time(c)		
Date(s) and Time(s)	T	
Date venting and/or flaring was discovered or commenced	08/02/2021	
Time venting and/or flaring was discovered or commenced	07:37 AM	
Time venting and/or flaring was terminated	11:30 AM	

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Not answered.

Measured or Estimated Volume of Vented or Flared Natural Gas

Cumulative hours during this event

Natural Gas Vented (Mcf) Details

Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Gas Plant Natural Gas Flared Released: 856 Mcf Recovered: 0 Mcf Lost: 856 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	Yes
Date notified of downstream activity requiring this venting and/or flaring	08/02/2021
Time notified of downstream activity requiring this venting and/or flaring	07:37 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 - emergency maintenance
Steps taken to limit the duration and magnitude of venting and/or flaring	Communication with 3rd party
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Constant communication with 3rd party

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CONDITIONS

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Operator:	OGRID:
ADVANCE ENERGY PARTNERS HAT MESA, LLC	372417
11490 Westheimer Rd., Ste 950	Action Number:
Houston, TX 77077	44377
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

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.	8/25/2021