### Atchafalaya Measurement, Inc. 416 East Main Street Artesia, NM 88210 575-746-3481

### Inficon Micro GC Fusion F08904 R03RR2

	Sample Information
Sample Name	AdvanceMerchant State 602HGC1-12519-01
Station Number	2340021
Lease Name	Merchant State 602H
Analysis For	Advance Energy
Producer	Advance Energy
Field Name	176
County/State	Lea,NM
Frequency/Spot Sample	Quarterly
Sampling Method	Fill Empty
Sample Deg F	76
Atmos Deg F	41
Flow Rate	927
Line PSIG	130
Date/Time Sampled	11-27-19
Cylinder Number	N/A
Cylinder Clean Date	N/A
Sampled By	Mike West
Analysis By	Pat Silvas
Verified/Calibration Date	12-3-19
Report Date	2019-12-05 08:08:16

### **Component Results**

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	23.040	12577.1	2.29796	22979.600	0.000	
H2S	46.000	0.0	0.00000	0.000	0.000	
Methane	23.840	308807.6	71.60993	716099.300	0.000	
Carbon Dioxide	28.180	1522.1	0.22921	2292.100	0.000	
Ethane	37.360	104680.1	14.53225	145322.500	3.901	
Propane	78.620	72028.1	7.52263	75226.300	2.080	
i-butane	28.880	55190.5	0.80305	8030.500	0.264	
n-Butane	30.480	133879.6	1.88335	18833.500	0.596	
i-pentane	35.600	26351.0	0.32636	3263.600	0.120	
n-Pentane	37.700	25209.6	0.29601	2960.100	0.108	
Hexanes Plus	120.000	42020.0	0.49925	4992.500	0.217	
Total:			100.00000	1000000.000	7.286	

## **Results Summary**

Result	Dry	Sat. (Base)	
Total Raw Mole% (Dry)	103.91749		
Pressure Base (psia)	14.730		
Temperature Base	60.00		
Gross Heating Value (BTU / Ideal cu.ft.)	1310.8	1288.0	
Gross Heating Value (BTU / Real cu.ft.)	1316.1	1293.8	
Relative Density (G), Ideal	0.7732	0.7706	
Relative Density (G), Real	0.7760	0.7737	
Compressibility (Z) Factor	0.9960	0.9955	



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 44382

Q	QUESTIONS
Operator:	OGRID:
ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950	372417 Action Number:
Houston, TX 77077	44382
	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	[30-025-45448] MERCHANT STATE UNIT #602H
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	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 <b>ANY</b> liquids (not fully and/or	
completely flared) that reached (or has a chance of reaching) the ground, a	No
surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	
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.	70
Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage	72
Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  Nitrogen (N2) percentage, if greater than one percent	2
Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  Nitrogen (N2) percentage, if greater than one percent  Hydrogen Sulfide (H2S) PPM, rounded up	2 0
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Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  Nitrogen (N2) percentage, if greater than one percent  Hydrogen Sulfide (H2S) PPM, rounded up  Carbon Dioxide (C02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  If you are venting and/or flaring because of Pipeline Specification, please provide the required specification (CH4) percentage quality requirement	2 0 0 0 cifications for each gas. Not answered.
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Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  Nitrogen (N2) percentage, if greater than one percent  Hydrogen Sulfide (H2S) PPM, rounded up  Carbon Dioxide (C02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  If you are venting and/or flaring because of Pipeline Specification, please provide the required specification (N2) percentage quality requirement  Nitrogen (N2) percentage quality requirement  Hydrogen Sulfide (H2S) PPM quality requirement  Carbon Dioxide (C02) percentage quality requirement  Oxygen (02) percentage quality requirement  Date(s) and Time(s)  Date venting and/or flaring was discovered or commenced  Time venting and/or flaring was terminated	2 0 0 0 0 cifications for each gas.  Not answered. Not answered. Not answered. Not answered. Not answered. Not answered. 06:51 AM 02:00 PM
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Not answered.

Natural Gas Vented (Mcf) Details

Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance   Gas Plant   Natural Gas Flared   Released: 1,281 Mcf   Recovered: 0 Mcf   Lost: 1,281 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	08/04/2021	
Time notified of downstream activity requiring this venting and/or flaring	06:51 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	Communication with 3rd party		
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Constant communication with 3rd party on when pipeline is up and running		

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CONDITIONS

Action 44382

#### **CONDITIONS**

Operator:	OGRID:
ADVANCE ENERGY PARTNERS HAT MESA, LLC	372417
11490 Westheimer Rd., Ste 950	Action Number:
Houston, TX 77077	44382
	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