



**FESCO, Ltd.**  
**1100 Fesco Ave. - Alice, Texas 78332**

**For:** Ameredev Operating, LLC  
 2901 Via Fortuna  
 Austin, Texas 78746

**Sample:** Woolhead 20 State Com - 510H  
 First Stage Meter Run  
 Spot Gas Sample @ 103 psig & 76 °F

Date Sampled: 04/01/2022

Job Number: 221719.004

**CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286**

COMPONENT	Un-Normalized		
	Mol%	MOL%	GPM
Hydrogen Sulfide*		0.001	
Nitrogen	3.210	3.202	
Carbon Dioxide	0.418	0.417	
Methane	74.552	74.368	
Ethane	12.259	12.229	3.348
Propane	6.097	6.082	1.715
Isobutane	0.683	0.681	0.228
n-Butane	1.732	1.728	0.558
2-2 Dimethylpropane	0.002	0.002	0.001
Isopentane	0.360	0.359	0.134
n-Pentane	0.358	0.357	0.132
Hexanes	0.258	0.226	0.095
Heptanes Plus	<u>0.319</u>	<u>0.348</u>	<u>0.135</u>
	100.248	100.000	6.347

**Computed Real Characteristics Of Heptanes Plus:**

Specific Gravity -----	3.202	(Air=1)
Molecular Weight -----	92.41	
Gross Heating Value -----	4938	BTU/CF

**Computed Real Characteristics Of Total Sample:**

Specific Gravity -----	0.756	(Air=1)
Compressibility (Z) -----	0.9962	
Molecular Weight -----	21.80	
Gross Heating Value		
Dry Basis -----	1288	BTU/CF
Saturated Basis -----	1267	BTU/CF

\*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)  
 0.503 Gr/100 CF, 8.0 PPMV or 0.001 Mol %

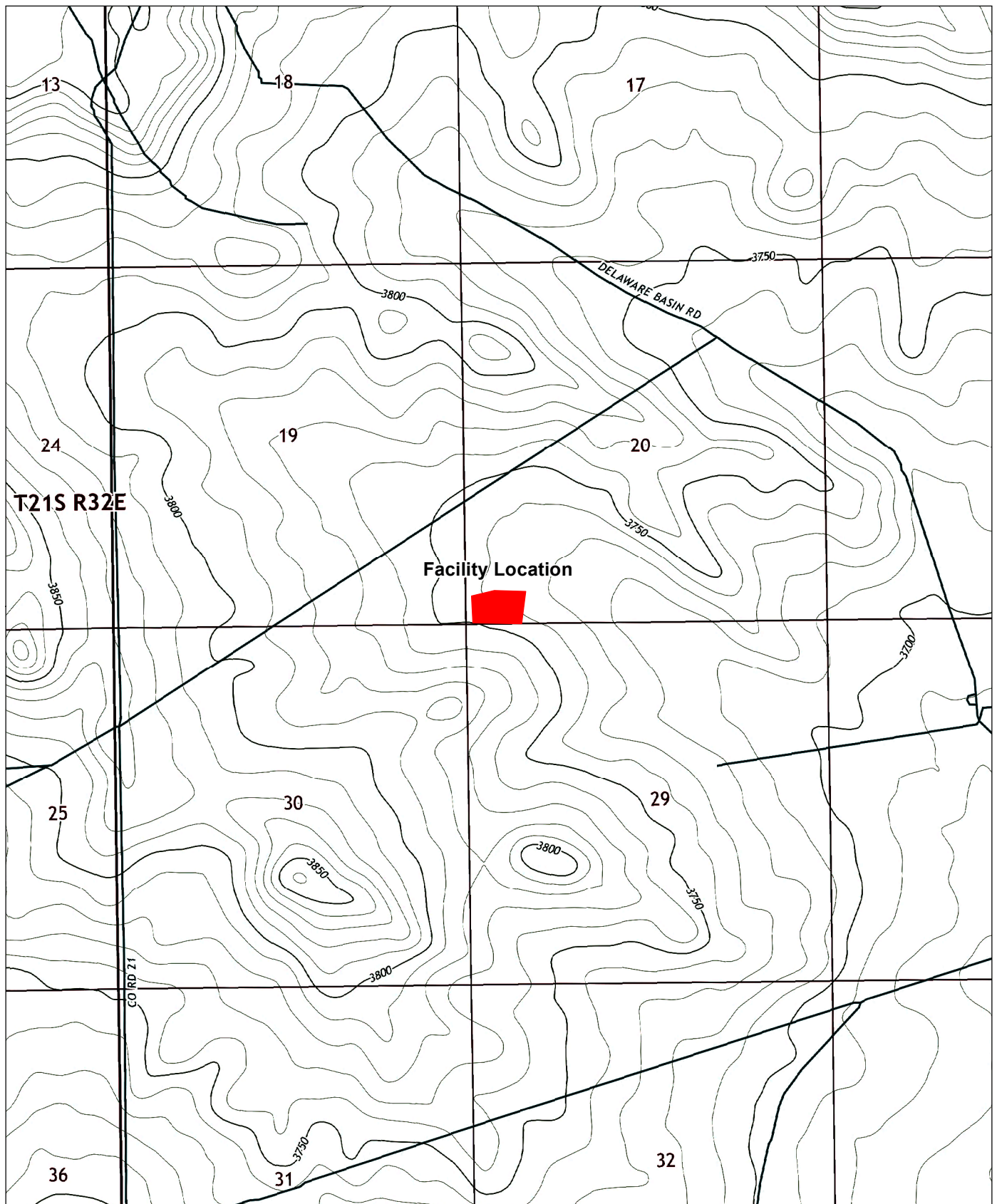
Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (24) DM  
 Analyst: EG  
 Processor: HB  
 Cylinder ID: T-3573

Certified: FESCO, Ltd. - Alice, Texas

Conan Pierce 361-661-7015

Date	Route	Stop	Meter	Meter Type	Yest Volume	Static Line	Differential	Accumulative	Plate Size	Flowrate	Run Time	Re
<i>Received by OCD: 3/27/2023 9:37:30 AM</i>												
3/9/23	1. WOOL HEAD	Wool Head Pad D Battery	Wool Head Pad D Battery Flare Meter	Flare Meter	51			658			0	Non-Sch. Maintenance malfunction
<i>Released to Imaging: 3/27/2023 9:58:08 AM</i>												
3/10/23	1. WOOL HEAD	Wool Head Pad D Battery	Wool Head Pad D Battery Flare Meter	Flare Meter	0			658			0	.



	<p><b>TOPOGRAPHIC MAP</b>          Wool Head Pad D Battery          Lea County, NM</p> <p>0    1,000    2,000    4,000    6,000    8,000    Feet</p>	<p><b>SPHERE 3 ENVIRONMENTAL</b></p>
<p>Advance Energy Partners Hat Mesa, LLC          Project Number: 049023.00</p>	<p>Date: 03/22/2022</p>	<p>Base Map: USGS 7.5 Minute Topographic          Quadrangle: Grama Ridge, NM (Published 2020)</p>
<p>1501 Bill Owens Parkway          Longview, TX 75604          Phone: (903) 297-4673          www.sphere3env.com</p>		

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**District III**  
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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 200943

**DEFINITIONS**

Operator: ADVANCE ENERGY PARTNERS HAT MESA, LLC 11490 Westheimer Rd., Ste 950 Houston, TX 77077	OGRID: 372417
	Action Number: 200943
	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 200943

**QUESTIONS**

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**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	Unavailable.
Incident Facility	[fAPP2127672178] Woolhead Pad D Battery

<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	Yes
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, minor 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	Separator
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	74
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
<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 200943

**QUESTIONS (continued)**

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**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/09/2023
Time vent or flare was discovered or commenced	10:55 PM
Time vent or flare was terminated	11:00 PM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure   Separator   Natural Gas Flared   Released: 51 Mcf   Recovered: 0 Mcf   Lost: 51 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	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

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	The blower were off temporarily and caused high line pressure. We could only flare to protect the facility.
Steps taken to limit the duration and magnitude of vent or flare	We choked back the well to limit production.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	We will enhance the durability of our equipment.

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ACKNOWLEDGMENTS

Action 200943

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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  
 Action 200943

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**CONDITIONS**

Created By	Condition	Condition Date
cescayu	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.	3/27/2023